329001

FINAL WELL REPORT

AMOCO AUSTRALIA PETROLEUM COMPANY

TILANA No.1

by

EXPLORATION LOGGING OF AUSTRALIA INC

September - November 1985

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I. INTRODUCTION

A. Well and Rig Data

Company:	Amoco Australia Petroleum Company
Well Name:	Tilana No.1
Location:	Offshore, Bass Basin, Tasmania
Permit:	T14/P
Position:	Latitude: 39 53' 36.73" S Longitude: 145 58' 41.97" E
Field:	Wildcat
Rig:	Diamond M, " Diamond M Epoch " Semi-submersible
RT-MSL:	22m (73')
RT-Seabed:	104m (343')
Spud Date:	5th September 1985
Completion Date:	T.D. 28th October 1985 P&A. 21st November 1985
Completion Depth:	3900.3m (12796')
Completion Status:	Plugged and abandoned
Exlog Unit Number:	216 GEMDAS X
Crew, GEMDAS:	A. Fell, G. Hodge, D. New, J. Strautins
Logging:	S. Evans, A. Hodgson, J.Reeve

B. Prognosis

Tilana No.1 was a wildcat well drilled to test the sandstones of the Eastern View Coal Measures, of Eocene age. A projected Total Depth of 2365m (7762') was thought sufficient to penetrate the objective.

Exploration Logging provided Geological Engineering Monitoring and Data Acquisition System (GEMDAS) service, Formation Logging and Pressure Evaluation service on Tilana No.1 from 416m (1365') to Total Depth. In addition to formation evaluation and conventional mud logging, automatic real-time data monitoring and recording and pressure and drilling analyses were carried out. Continuous evaluation of pressures and drilling progress provided an aid in optimizing drilling costs and insuring that drilling continued with maximum safety to personnel, the well and equipment. The Operator was continuously advised as to the status of these analyses and results were stored on magnetic disk for post well evaluation.

The printouts and plots of these services are contained within the appendices to this report.

II. DRILLING AND ENGINEERING

A. WELL HISTORY

36" Hole section : Interval 104m - 209m (343' - 685')

Tilana No.1 was spudded at 20:30 hrs on the 5th September 1985 in a water depth of 82m (270'). Rotary table to Mean Sea Level was 22m (73'). All depths in this report are in metres (feet) below the rotary table.

The 36" hole was drilled using a 26" bit in tandem with a 36" hole opener. The drilling time was 4.5 hours, giving an average ROP of 23.2 m/hr (76 ft/hr). Seawater was used as a drilling fluid. The deviation at 209m (685') was 0.5 degrees. The 30" casing was set and cemented at 203m (667').

26" Hole section : Interval 209m - 416m (685' - 1365')

This section was drilled in 7 hours at an average ROP of 29.6 m/hr (97 ft/hr). Seawater was used as the drilling fluid. The deviation at 416m (1365') was 0.5 degrees. A wiper trip was conducted, with a bridge that required reaming at 404m (1325'). The hole was displaced with seawater/gel mud and the 20" casing was run to 413m (1356'). The BOP stack and marine riser were installed before drilling ahead.

12.25" Pilot Hole section : Interval 416m - 1662m (1365' - 5452')

This section was drilled in 46.8 hours at an average ROP of 26.6 m/hr (87.3 ft/hr). For bit details refer to Table 1, Bit Data, for the three bits used. A 17.5" hole was drilled to 418m (1372') and a Formation Integrity Test was run, with leak-off at an equivalent mud density of 15.3 ppg.

The casing shoe, cement and formation to 792m (2600') were drilled using seawater. This was displaced with a seawater/gel/lignosulfonate mud system at 8.8 - 9.2 ppg. The lithology was limestone, claystone, siltstone, sandstone, volcanics and minor coal. Refer to the Formation Evaluation Log, Appendix F, for lithology descriptions. The maximum gas was 19 units from 1164 - 1176m (3820 - 3860'). The maximum deviation survey was 1 degree at 1662m (5452'). Mud losses occurred at 1384m (4540'), probably due to fractured volcanics. At 1662m (5452') a wire-line log was run, see Section IV. The 12.25" hole was then opened to 17.5" and the 13.375" casing was run, with the shoe set at 1651m (5418'). The initial cementation attempt was unsuccessful, requiring that the cement that remained in the casing, and the shoe, be cleaned out. Once this was accomplished, the casing was cemented utilising an EZSV packer.

12.25" Hole section : Interval 1662m - 3900.3m (5452' - 12796')

This section was drilled using 14 bits in 16 bit runs. The bits utilised comprised of 3 milled tooth, 10 insert and one core bit (the latter was run 3 times). The drilling time was 487.3 hours, giving an average ROP of 4.6 m/hr (15.1 ft/hr). Refer to Table 1 for details. After drilling to 1664m (5460'), a Formation Integrity test was run which gave formation breakdown at an equivalent mud density of 14.6ppg. The lithology consisted of interbedded sandstone, siltstone and claystone with coal beds in parts. Volcanic rocks occurred from 2013 - 2266m (6605 - 7435') and were dominant below 3115m (10220'). No hydrocarbon accumulations were encountered and the gas peaks, to a maximum of 413 units at 2348m (7703') were generally associated with the coal beds. Refer to the Formation Evaluation Log, Appendix F, for detailed lithology descriptions.
A fresh-water/gel/polymer mud system was used, with the mud density ranging from

9.Ø - 9.9 ppg, but being dominantly in the range 9.3 - 9.7 ppg. The maximum hole deviation was 2.3 degrees at 3888m (12756').

Intermediate wireline logs were run at 3Ø66m (1Ø059'), and drilling continued to a Total Depth of 39ØØ.3m (12796'). Refer to Section IV for the logs run. Cement plugs were set at 3893m (12772') and 3555m (11663') and 9.625" casing was run and the shoe set at 33ØØm (1Ø827'). Production tests were then run over the intervals 3185m (1Ø43Ø'-1Ø449'), 3Ø71m-3Ø75m (1ØØ75'-1ØØ88') and 3Ø42m-3Ø48m (998Ø'-1ØØØØ') ,refer to Section IV for test results.

The well was plugged and abandoned on the 21st November 1985.

B. Bit Optimisation and Bit Analysis

Refer to the Bit Summary, Table 1.

Bit costs, a rig cost of 5000 AUS $/hr and a trip time of 0.8 hr/km (0.25 hr/kft) were used to compute instantaneous and running costs. Drilling/cost optimisation was made on the basis of that point at which cumulative cost reached a minimum, and instantaneous cost intersected the cumulative cost curve. Drilling parameters were maintained within the recommended work ranges, though WOB and RPM were varied to maximize and/or control the drill rate where necessary. No bits were tripped out as a result of cost/m criteria.

The 36" and 26" hole sections were drilled with the same bit (the 36" section incorporated a hole-opener in tandem with the 26" bit). Both runs produced minimal wear and relatively good rates of penetration through the surface formations.

The 12.25" pilot hole section was drilled utilising only 2 bits (not including the first run which drilled out the casing shoe and 2m of new formation) and both showed tooth wear consistent with the lithologies drilled, specifically the volcanics at 1260-1393m (4134-4570'). The majority of the sediments in this interval were non-abrasive, poorly compacted claystones and were thus ideally suited to the milled tooth bits chosen. This 12.25" section was opened out to 17.5" by the use of one bit only. Again, it is assumed most of the tooth wear was due to the volcanics. No bits had reached their cumulative cost minimum.

The second section of 12.25" hole (1662 - 3900.3m) was drilled with 14 bits, see Table #1. All bits performed well, with the tooth bits showing high bit wear, especially Bit #10 (Series 225 tooth bit) which was graded at T4 after 6.3 hours. The insert bits (Series 527 and 537 bits) all gave longer drilling times but commonly showed high bearing wear. A marked contrast in bit runs were Bits #11 and #12 (527 and 537 Series insert bits respectively). Bit #11 was graded at T1 B2 after 41 hours drilling, including 174m (570') of abrasive volcanics, while Bit #12 was graded at T8 B8 after 43.1 hours drilling with 79m (260') of volcanics. Below 3066m the lithology was dominantly volcanics, which were very abrasive in parts. Bit #17 (527 series insert bit) was graded at T8 B6 and was 0.25" out of gauge after drilling 146m (477') of volcanics, but this bit was also used to repeatedly ream tight spots on the trip in and the interval from 3352 - 3457m (10997 - 11342') was drilled with one blocked jet.
The Core Bit was 15% worn after coring 36m (119') of sandstone and clay but was 70% worn after coring 5.5m (18') of volcanics, showing the high abrasiveness of the volcanics.

From the bits run, Series 527 and 537 insert bits provide good drilling performance in the abrasive formations encountered below the top of the Eastern View Coal Measures and for the volcanics of the Torquay Group.

C. Hydraulics Analysis

Refer to the Bit Hydraulics Summary, Table 2, in this section and to the Hydraulics Analysis printouts and Morning Reports in Appendix E.

The rig was equipped with two Oilwell A-1700 PT triplex pumps. Both pumps were fitted with 6.5" liners and had a 12" stroke to give an output of 4.96 gallons/stroke at 96% efficiency.

The 36" hole section was drilled using seawater with returns to the seabed. Both pumps were used in tandem and hole cleaning was adequate, when aided by high viscosity slugs. No problems were encountered in running the 30" casing.

The 26" hole section was again drilled with seawater with high viscosity gel pills. These again provided adequate hole cleaning. The 20" casing run also encountered no difficulties.

A seawater/gel/lignosulfonate mud system was used to drill the 12.25" hole using flow rates of 695 - 765 gpm and 11,3x13 and 15,15,18 jets. This gave annular velocities well below critical but high jet velocities. Bit pressure loss was sufficient to also optimise hydraulic horse-power.

The 12.25" section from 1662m (5452') was drilled using a fresh-water/gel/polymer system, with the density predominantly in the range 9.3 - 9.7 ppg. Flow rates of 595 - 620 gpm (except for Bits #13 and #17, which had blocked jets) and 3x15, 3x14 and 3x13,1x8 jet combinations gave good hole cleaning and bit pressure losses of 50 - 60%. Annular flow rates between the collars and the hole was always less than the theoretical critical velocity. The hydraulics in this section were generally good, and resulted in no hole problems.

Lithology Summary : Tilana No.1

Depth (m) Interval	Lithology	ROP (ft/hr) max	ROP (ft/hr) avg	GAS (units) max	GAS (units) avg
104 - 413	Returns to seabed				
413 - 800	Biocalcarenite, calcarenite	400	200	nil - trace	
800 - 1164	Claystone, siltstone, coal	500	200	19	2
1164 - 1260	Sandstone, coal, claystone	500	300	19	5
1260 - 1390	Volcanics	200	50	5	3
1390 - 1525	Claystone, siltstone, minor sandstone	420	80	10	3
1525 - 1647	Claystone, minor siltstone and sandstone	400	50	13	8
1647 - 1722	Sandstone, minor siltstone and coal	320	60	11	1
1722 - 1752	Siltstone, minor sandstone and coal	100	45	4	2
1752 - 1859	Sandstone, minor siltstone and coal	200	50	2	0.5
1859 - 2012	Sandstone and siltstone, minor coal and volcanics	200	40	1	trace
2012 - 2186	Volcanics	25	15	0.5	trace
2186 - 2260	Gabbro	50	15	4	trace
2260 - 2298	Claystone, siltstone, sandstone and minor coal	50	25	21	trace
2298 - 2319	Siltstone and sandstone	400	50	9	1
2319 - 2325	Coal	100	75	440	300
2325 - 2434	Siltstone, sandstone, coal	65	15	62	1
2434 - 2614	Claystone, siltstone, minor sandstone and coal	100	10	70	1
2614 - 2786	Siltstone, sandstone, minor claystone and coal	120	15	25	1
2786 - 2886	Sandstone, minor siltstone, claystone and coal	100	40	10	3
2886 - 2962	Claystone, siltstone, minor coal	20	10	27	3
2962 - 3114	Siltstone and sandstone, minor claystone, coal and volcanics	100	8	40	6
3114 - 3164	Volcanics	25	12	10	5
3164 - 3651	Dominantly volcanics with siltstone, sandstone and coal	50	12	160	12
3651 - 3683	Dolerite	25	15	12	6
3683 - 3900	Dominantly volcanics with siltstone, sandstone and coal	75	12	26	6

BIT DATA

Table #1

BIT#	SIZE inch	TYPE	JETS	DEPTH IN ft	DEPTH OUT ft	BIT DIST ft	BIT TIME hrs	AVG ROP ft/hr	WOB klbs	RPM	TORQUE kft-lb avg to max	BIT REVS	CONDITION T : B : G
NB1	26	HTC DGJ	3x14	342	685	342	4.5	76	8-10	50-60	0.8 - 1.8	17400	1 1 0
with	36	Hole-Opener	3x20										
RR1.1	26	HTC DGJ	3x14	685	1365	680	7.0	97	8-10	70-90	1.0 - 1.9	19700	2 2 0
NB2	17.5	SMITH DSJ	3x18	1365	1372	7	0.5	14	5-10	50-60	1.0 - 1.9	1800	1 1 0
NB3	12.25	SMITH SDT	15,15,18	1372	4240	2868	20.3	141	5-25	100	1.5 - 2.5	116200	4 4 4
NB4	12.25	SMITH F2CE	11,3x13	4240	5452	1212	26.0	47	15-42	90-110	1.0 - 2.8	167300	6 2 4
NB5	17.5	SMITH SDGHC	12,3x15	1372	5452	Open 12.25" hole			5-35	85-130	1.0 - 8.0	219800	5 3 4
RR5.1	17.5	SMITH SDGHC	12,3x15		5452	Wiper trip							n/a
NB6	12.25	SMITH SDGH	Open		5452	Drill cement							4 3 4
NB7	12.25	SMITH SDT	Open		5452	Drill shoe, cement, EZSV plug							n/a
RR7.1	12.25	SMITH SDT	Open	5452	5460	8	0.1	80	17-20	60-80	2.0 - 4.3	1000	7 6 4
NB8	12.25	DB CD 502	1 sq" TFA	5461	5519	58	2.0	29	12-20	80-110	1.9 - 3.7	12000	10% worn
NB9	12.25	SMITH SDGH	3x15	5519	6320	801	16.1	50	20-30	75-120	1.6 - 7.6	95000	6 3 4
NB10	12.25	SMITH SVH	3x15	6320	6568	248	6.3	39	30-40	95-120	2.0 - 7.7	42000	4 2 0
NB11	12.25	SMITH F2	3x15	6568	7173	605	41.0	15	30-38	80-100	3.2 - 7.9	213000	1 2 0
NB12	12.25	SMITH F3	3x15	7173	7971	798	43.1	18.5	35-45	70-85	2.5 - 7.9	211380	8 8 0
NB13	12.25	SMITH F3	3x14 *	7971	8420	449	31.9	14.1	40-43	80-85	2.5 - 6.0	163800	1 8 0
NB14	12.25	SMITH F2 CE	8,3x13	8420	9149	729	40.5	18.0	40-45	85-90	2.7 - 7.2	212400	2 2 4
RR8.1	8.5	DB CD 502	1 sq" TFA	9149	9210	61	2.1	29.0	3-11	55-95	2.8 - 5.3	11100	15% worn
NB15	12.25	SMITH F2	3x14	9210	10059	849	66.6	12.7	40-44	85-90	2.7 - 6.2	364000	2 8 0
NB16	12.25	SMITH F2	3x14	10059	10865	806	71.8	11.2	40-45	85-90	2.7 - 5.0	378000	4 6 0
NB17	12.25	SMITH F2	3x14 ^	10865	11342	477	41.9	11.4	42-46	85-90	3.4 - 7.8	227100	8 6 8
NB18	12.25	SMITH F3	3x14	11342	12120	780	64.3	12.1	40-48	80-95	3.8 - 7.9	331000	5 5 0
NB19	12.25	SMITH F2	3x14	12120	12292	172	14.6	11.8	40-45	85-90	3.5 - 7.6	76590	2 3 0
RR8.2	8.5	DB CD 502	1 sq" TFA	12292	12310	18	4.9	3.7	10-30	60-120	3.0 - 5.8	29700	70% worn
NB20	12.25	SMITH F2	3x14	12310	12796	486	40.1	12.1	40-46	85-95	4.5 - 7.5	216000	3 6 4

* NB13 one nozzle partially blocked.
^ NB17 one nozzle blocked after wiper trip

HYDRAULICS DATA

Table #2

BIT#	SIZE	START DEPTH feet	JETS	FLOW IN gpm	SPM	PUMP PRESS psi	MUD WT. ppg	ECD ppg	PV/YP	ANNULAR VELOCITIES ft/mn				JET VEL ft/sc	BIT PRESS psi/ %	HHP hp	IMPACT FORCE lbs
										riser	pipe	collar	crit				
NB3	12.25	1372	15,15,18	764	154	2400	8.8	9.0	8/18	57	150	217	381	413	1340/68	597	1436
NB4	12.25	4240	11,3x13	703	142	2720	9.1	9.4	8/32	53	138	288	563	468	1780/66	731	1551
NB5	17.5	1372	12,3x15	726	146	1830	8.9	9.1	9/18	54	63	82	319	370	1090/59	460	1235
NB7	12.25	5452	Open	815	164	1800	8.9	9.0	20/13	61	157*	232	321	111	100/6	47	417
NB8	8.5	5461	3x21 eq	220	44	400	8.9	9.0	14/12	17	42*	654+ 63#	769	88	60/15	8	89
NB9	12.25	5519	3x15	618	125	2000	9.0	9.2	14/12	46	121	176	290	383	1180/59	425	1103
NB10	12.25	6320	3x15	614	124	2200	9.0	9.2	16/12	46	120	175	293	380	1170/53	418	1092
NB11	12.25	6568	3x15	618	125	2370	9.1	9.2	21/15	46	121	176	345	383	1195/50	431	1117
NB12	12.25	7173	3x15	610	120	2390	9.2	9.2	17/7	45	119	173	211	378	1175/49	418	1098
NB13	12.25	7971	3x14 ^	490	100	2900	9.6	9.7	22/12	37	96	139	294	491	2070/69	592	1197
NB14	12.25	8420	18,3x13	611	120	2860	9.3+	9.4	21/13	46	120	174	313	448	1665/58	593	1316
RR8.1	8.5	9149	3x21 eq	190	38	360	9.3	9.4	24/14	14	37	54	334	61	30/15	3	56
NB15	12.25	9210	3x14	615	124	2950	9.3	9.4	25/18	46	121	175	387	438	1610/55	578	1311
NB16	12.25	10059	3x14	617	124	2910	9.3	9.5	27/21	46	121	176	432	439	1600/55	576	1304
NB17	12.25	10865	3x14$	473	95	3010	9.6	9.7	28/23	36	93	135	447	505	2185/73	603	1186
NB18	12.25	11342	3x14	595	120	3000	9.8	9.9	24/22	45	114	169	420	423	1570/51	544	1277
NB19	12.25	12120	3x14	600	121	3020	9.8	10.0	23/21	45	118	171	448	428	1609/53	564	1312
RR8.2	8.5	12292	3x21 eq	250	50	700	9.8	9.9	19/16	19	49	71	362	80	56/8	8.2	102
NB20	12.25	12310	3x14	600	121	2900	9.7	9.8	19/16	45	118	171	339	427	1580/54	553	1286

^ NB13 one nozzle partially blocked.
* In 13.375" casing.
+ 8.5"/8" annulus.
# 12.25/8" annulus.
$ NB17 one nozzle blocked after wiper trip.

Casing/Cementing

Table #3

Hole		Casing				Cement			
Depth M	Size inches	Depth M	OD/ID inches	# jts	Weight ppf	# sx	Type	Slurry density	Remarks
209	36	203	30/28	8	310	2000	Class G w/ 1% CaCl2	15.8	Returns to seabed
416	26	413	20/ 18.73	26	133	1500 500	Class G w/ P.H.Gel + NF-1 Class G neat	12.8 15.8	Returns to seabed Returns to seabed
1662	17.5	1651	13.375 12.415	130	68	1607 500	Class G w/ P.H.Gel + CFR-2 Class G w/ HR6L	12.8 15.8	Plug bumped early. Dril out 1036m cement in casing
Repeat cementation of 13.375" casing via EZSV plug and Ø.E.Drillpipe						1589 513	Class G w/ P.H.Gel + CFR-2 Class G w/ HR6L	12.8 15.8	
3901	12.25	Plug#1				560	Class G w/- 2.5% gel,Ø.4% CFR2 and Ø.12% HR-12	12.8	Plug back prior to testing
3554	12.25	Plug#2				630	Class G w/- 2.5% gel,Ø.75%CFR2 Ø.8% Halad 22	12.8	
3314	12.25	3311.6	9.62	268	47	630	Class G w/- 2.5% gel,Ø.75%CFR2 Ø.8% Halad 22	12.8	Cement 9.625" casing. Lead slurry
						1500	Class G w/- 35% silica flour Ø.75% CFR2,Ø.8% Halad 22, Ø.4% HR-12	15.8	Tail slurry

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EXLOG®

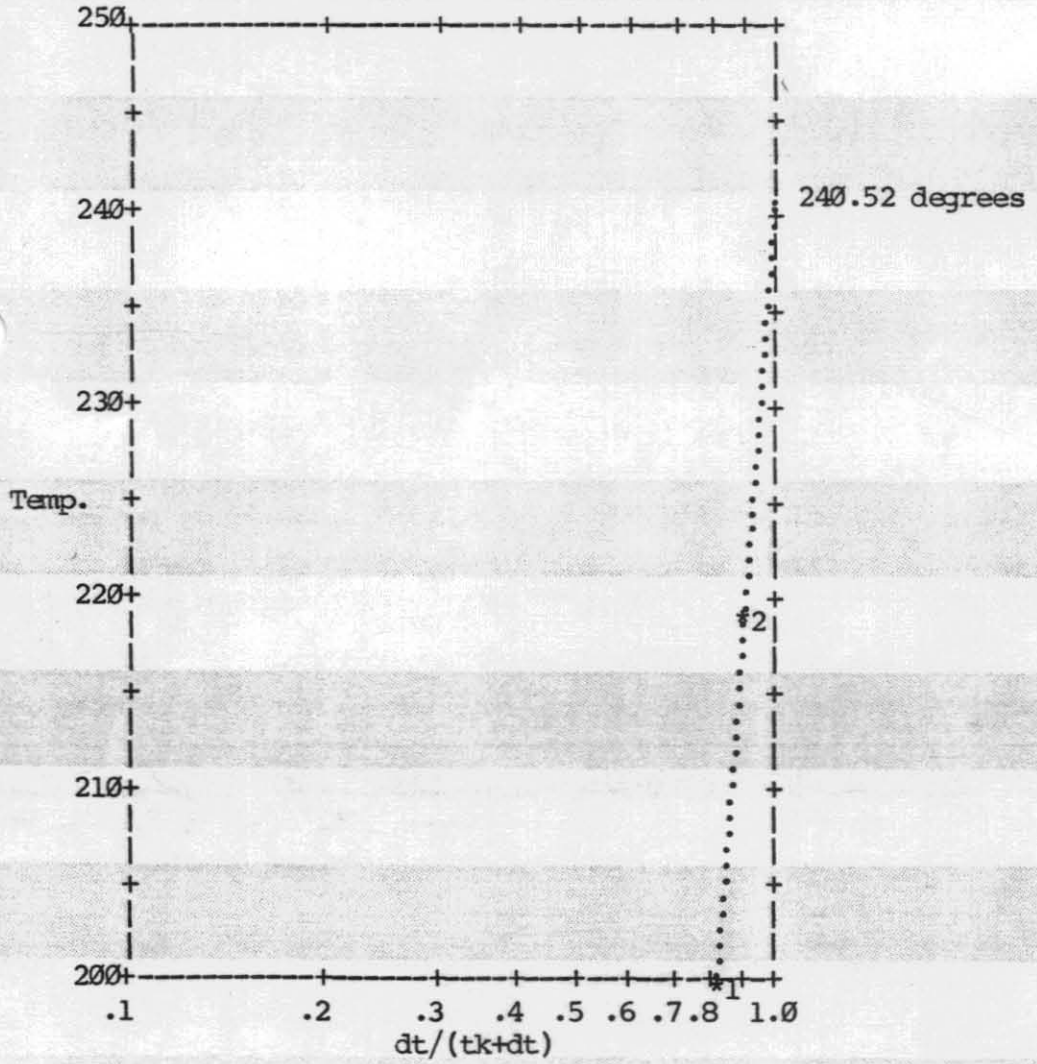
BOTTOM HOLE TEMPERATURE CALCULATION

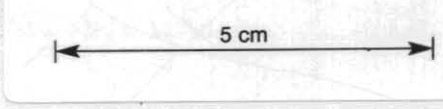
LOG RUN #	TIME SINCE CIRCLN. (dt)	MEASURED B.H.T.	dt / tk+dt
1	7.33	200.00	.814
2	14.50	219.00	.897

CIRCULATION TIME (tk) = 1.67 hours

HORNER - FERTL METHOD

BOTTOM HOLE TEMPERATURE = 240.52 degrees





D. Borehole Condition

The borehole condition was monitored during drilling by observing the differential carbide lag time , as well as the type, percentage, size and shape of cavings. During trips, swab and surge, hole drag and fill were monitored.

The 36" hole was drilled and the casing run with no problems.

The 26" hole only experienced difficulty when tripping in after a wiper trip to the 30" shoe when at TD for this section. A bridge was tagged, but this was worked through with the bit. It was not noted during the 20" casing run.

The 12.25" pilot hole experienced no difficulties to 938m (3077'). Rate of penetration through these generally unconsolidated sediments was rapid and hole wash-out was generally severe. Carbide data indicated an average hole diameter of 14", but the caliper log gave values of 15" - 22+". This discrepancy is probably due to mud channelling past some the extensively washed-out zones and thus not being included in the carbide calculations. Below 938m (3077'), tight hole was noted on most connections, ranging to 30 klbs. Two trips were made in the 12.25" pilot hole at casing depth. Both gave drag of 20 - 50 klbs from 1662 - 1085m (5452' - 3560'), but none above this interval. The major lithology in this zone was claystone which appeared to be highly hydratable (shale factors were in the order of 10 - 15 meq). These were not inhibited, with regard to swelling, by the mud system in use. The 17.5" bit run produced high torque over this same interval, most likely due to the clays again become excessively swollen with time. However, a subsequent wiper trip at 162m (5452') produced no drag and only 1.5m (5') of fill. The casing run was trouble-free.

The 12.25" hole section from 1662 - 3311.7m (5452 - 10865') was drilled trouble free and the hole condition was good. Drag to 50 - 60klb occurred on one stand on the trip out at 1926m (6320') but the section gave no drag on later trips. Minor drag of up to 20klb was noted on most trips out of the hole over the interval 2310 - 2255m (7580 - 7400'), around the base of the thick volcanic secton. The maximum hole deviation was 2 degrees at 2713m (8901'). Carbide lag data indicated an average open hole diameter of 13.3" at 1889m (6198') and 12.6" at 2871m (9419'). The caliper log showed a maximum hole diameter of 21" at 2120m (6955') with the interval 1970 - 2350m (6464 - 7710') being out of gauge by an average of 3".

On the trip in at 3311.7m (1865') many tight sections were encountered, possibly due to the volcanics collapsing, and extensive reaming was necessary. The drill-string was stuck at 2743m (8999') and in the interval 2865 - 2877m (9400 - 9444'). The mud density was raised while working the stuck pipe.

No hole problems occurred from 3311.7 - 3900.3m (10865 - 12796') apart from minor drag on trips and small sections that required reaming. A wiper trip at 3352m (10997') gave drag to 90klb. Drag to 80 - 100klb was noted on the connection at 3807m (12490') and 40klb occurred on the connection at 3832m (12572').

At 3900.3m (12796') drag to 100klb was noted lifting off bottom and the hole was circulated several times. A wiper trip and the full trip out at 3900.3m (12796') gave only minor drag. The maximum hole deviation was 2.3 degrees at 3888m (12756'). Carbide lag data indicated an average hole diameter of 12.9" prior to 3311.7m (10865') but this increased to 13.4" following the reaming at 3311.7m (10865'). At 3617m (11867') the average hole diameter was 12.9" from carbide. The caliper log showed sections of the hole to be washed out to a maximum of 22" between 3650 and 3660m (11975 and 12008'), these sections usually being short.

The average hole diameter over the interval 2850 - 3900m (9350 - 12795') was 14 - 14.1", from the wireline logs.

Following the wireline logs at 3900.3m (12796') the drillstring was run in and sections at 3402m (11162') and 3630m (11909') had to be reamed. Reaming was also necessary from 3879m (12726') and drag to 150klb was consistantly recorded while reaming to bottom. The drillstring was also stuck several times while reaming and the mud weight was raised to 10.0ppg. The cause was probably the volcanics collapsing near bottom and packing the hole off above the bit. The stabiliser may have been hanging up on ledges also. The hole was not deepened and on the trip out there was 35klb of drag on the first stand with only minor to no drag for the remainder of the trip. Cement plugs were set prior to running the 9.625" casing and DST's.

III. FORMATION PRESSURE

A. Formation Overburden Pressure.

Refer to Appendix C (i), Pressure Evaluation Log.

Formation overburden pressure was estimated only to 1662m (5452'), and beyond that density data was available and utilised. An estimated OBG was in use while drilling for fracture pressure determination. The plotted curve is smoothed and does not vary with interbedded lithologies.

B. Formation Fracture Pressure

Refer to Appendix C (i).

Estimated fracture pressures were calculated using the " Constant Effective Stress Ratio " method. This utilises leak-off data and allows for pore pressure and lithological variations. It should be noted that this method assumes uniform tectonic stress, and thus any unconformities may place the sections on either side in a different stress regime.

Formation Integrity Tests were conducted as follows:

Hole Depth (m)	Hole Depth (ft)	Hole Size (inches)	Casing Depth (m)	Casing Depth (ft)	Mud Wt. (ppg)	Fracture Pressure (ppg EMD)
418	1372	17.5	413	1356	8.6	15.3
1664	5460	12.25	1651	5418	8.9	14.6

The mud density in use was always less than the estimated fracture pressure, and no lost circulation occurred during the drilling of this well that was a result of exceeding the fracture pressure.

C. Formation Pore Pressure

Refer to Appendix C (i - iv).

During the drilling of Tilana No.1, penetration rate, drilling exponent, flow-line temperature, gas and hole behaviour were continuously monitored and plotted so that abnormal pore pressure could be detected and evaluated. Wireline data, consisting of sonic, resistivity and density values, were also incorporated in this evaluation.

In the 12.25" pilot hole section, no abnormal pore pressure indicators were visible. The Dxc varied with lithology, and no trend was visible in the generally under-compacted and immature upper claystones. All hole problems were related to the nature of these clays rather than abnormal pressure. No trends were visible from temperature data due to the constant addition to, and dilution of, the mud system in use. No connection gas, and only relatively low trip gas, was recorded in this section which was drilled with a mud density of 9.2 ppg or less.

No abnormal pore pressure indicators were noted in the 12.25" hole section from 1662 - 3900.3m (5452 - 12796') except for the interval 3530 - 3570m (11581 - 11713'). In this interval connection gases from 16 - 44u, a background gas increase from 4u to over 25u and a slight increase in the amount of splintery cavings and a moderate increase in the amount of coal cavings were noted. The estimated formation pressure was 9.3 - 9.4 ppg EMD, the mud density used over the interval was 9.6 ppg. The pore pressure returned to the estimated normal value of 8.7 ppg below 3570m (11713'). The section was drilled with a mud density which was dominantly in the range 9.3 - 9.7 ppg.

IV. EVALUATION AND TESTING

A. Hydrocarbon Evaluation

Standard mud-logging techniques were used for hydrocarbon evaluation while drilling Tilana No.1. Combustible gas levels were monitored continuously using a Flame Ionisation Detector, and the gas analysed continuously for methane through butane using an FID Chromatograph. A hydrogen sulphide detector was run continuously for the duration of the well. Gas trapped in cuttings was detected by pulverising 100cc of sample in a blender, with water, and monitoring the amount of gas liberated, using a hot-wire detector. Mud, unwashed cuttings, and washed cuttings were observed under ultra-violet light for the presence of hydrocarbons.

B. Wireline Logging

The following Wireline-Logs were run:

Depth	Log Suite
1662m (5452')	ISF-BHC-GR-Cal-SP
3066m (10059')	ISF-DDBHC-MSFL-GR-SP LDL-CNL-GR HDT WST CST
3900.3m (12796')	ISF-MSFL-BHC-GR-SP LDL-CNL-GR HDT WST CST RFT

RFT results : Tilana No.1

Depth m	ft	Formation Pressure psi	FBG ppg	PPG ppg
3072	10078	4866	9.3	9.3
		4412	8.4	8.4 (after 30 mins)

PPG: Pore pressure grad. (from MSL) FBG: Formation balance grad. (from RKB)

RFT#1 : Depth 3072m (10078')

Gas : nil
Oil : nil
Water : 4.75 litres - mud filtrate

C. Coring

Three cores were cut in Tilana No.1 as follows:

Core	Interval (m)	Cut	Recovered (m)	
1	1664.5 - 1682.2 (5461' - 5519')	17.7	10.0	57%
2	2788.6 - 2807.2 (9149' - 9210')	18.6	18.6	100%
3	3746.6 - 3752.0 (12292' - 12796')	5.4	5.4	100%
Total		41.7	34.0	82%

Refer to the Formation Evaluation Log, Appendix F, for lithological descriptions.

D. Testing

DST's were run as follows:

DST No.1	3179m - 3185m (10430' - 10449'):	Misrun, could not get perforating gun past collars.
DST No.1A	3179m - 3185m (10430' - 10449'):	Misrun, APR valve opened.
DST No.2	3179m - 3185m (10430' - 10449'):	Misrun, LPR valve failed to open.
DST No.3	3179m - 3185m (10430' - 10449'):	No formation fluids recovered.
DST No.4	3071m - 3075m (10075' - 10088'):	No formation fluids recovered.
Two zones tested		Gas and mud sample recovered from Otis HPCCLHB tool.
	3042m - 3048m (9980' - 10000'):	No formation fluids recovered.

DST Pressure Data.

	DST No.3	
Gauge depth:	3131.9m	3131.9m
Initial Hydrostatic:	4724.0 psi	4733.0 psi
First Flow period:	147min	
Initial Pr.:	3148.2 psi	3125.0 psi
Final Pr.:	3179.1 psi	3183.3 psi
1st shut in period:	14min	
Pressure:	3407.5 psi	3387.5 psi
Second Flow Period:	1979min	
Initial pr.:	3209.9 psi	3193.8 psi
Final Pr.:	3308.7 psi	3300.0 psi
Final shut in period:	198min	
Pressure:	4447.6 psi	4402.6 psi
Final Hydrostatic:	4730.1 psi	4757.8 psi

RECOVERY

DST No.3: No formation fluids recovered.

DST Pressure Data.

	DST No.4	
Gauge depth:	2995.9m	2995.9m
Initial Hydrostatic:	4493.8 psi	4515.6 psi
First Flow period:	- min	
Initial Pr.:	2558.3 psi	2583.9 psi
Final Pr.:	2892.7 psi	2906.9 psi
1st shut in period:	- min	
Pressure:	3723.4 psi	3775.1 psi
Second Flow Period:	- min	
Initial pr.:	2892.7 psi	2906.9 psi
Final Pr.:	3822.2 psi	3825.1 psi
Final shut in period:	- min	
Pressure:	4203.8 psi	4220.3 psi
Final Hydrostatic:	4493.9 psi	4515.6 psi

RECOVERY

DST No.4: No formation fluids recovered from surface.

Trace amount of gas and mud sample were recovered from Otis tool HP CCL HB at interval 3071m-3075m.

GAS ANALYSIS

Chromatograph analysis from gas sample obtained from Otis HP CCL HB at interval 3071m-3075m:

Gas	ppm	% (Hydrocarbon only)
Methane C1	99	86.5822
Ethane C2	15	13.4178
Propane C3	-	
i-Butane iC4	-	
n-Butane nC4	-	
Pentane	-	

Gas gravity (gm/cc) = 0.619
BTU/Cu Ft = 1115.5

Chromatograph analysis from gas trapped in mud sample by pulverising 100cc of sample in a blender:

Methane C1	109	82.5698
Ethane C2	15	11.6328
Propane C3	8	5.7974
i-Butane iC4	-	
n-Butane nC4	-	
Pentane C5	-	

Gas gravity (gm/cc) = 0.666
BTU/Cu Ft = 1191.3

*Note: In both cases, not enough quantity of gas were obtained for H2S and Co2 analysis.

V. DATA INVENTORY

The following were delivered after the completion of the well:

Spliced original of the Formation Evaluation Log

8 copies of the Final Well Report

Originals of the Drilling Data Pressure, Temperature Data, Pressure Evaluation and Wireline Data Pressure Logs and the Well Progress Log and Well Schematic Diagram.

The following have been retained and stored by Exploration Logging:

1 Copy of the Final Well Report

1 Set of disks containing the drilling data

Miscellaneous worksheets, charts, etc used while drilling Tilana No.1.

Exploration Logging will use reasonable diligence to maintain and store the listed information and items in a manner to reasonably prevent loss or damage. Provided, however, Exploration Logging assumes no responsibility of or the loss, damage, or theft of the items or the information contained therein and shall not be liable to the Operator in any such event, irrespective of the cause, fault or the active or passive negligence of Exploration Logging or its employees.

VI. CONCLUSIONS

Tilana No.1 was drilled to a total depth of 3900.3m (12796') in a total drilling time of 545.6 hours, giving an average ROP of 7.0 m/hr (22.8 ft/hr). Nineteen bits were used, in 21 bit runs to drill the well, not including the bits used to drill cement in the casing and to open the original 12.25" pilot hole to 17.5". Bit and hydraulics selection provided good drilling performance throughout the well, giving good rates of penetration for the lithologies encountered and good hole cleaning. Hole problems were mainly due to the presence of fractured and weathered volcanic rocks.

Minor abnormal formation pore pressures were present in the interval 3530 - 3570m (11581 - 11713'). The RFT log gave a maximum formation pressure to an equivalent mud weight of 8.4ppg at 3072m (10078'), measured from the rotary table. Drill stem tests run over the intervals 3179 - 3185m (10,430 - 10,449'), 3071 - 3074m (10,75 - 10,88') and 3042 - 3048m (9,980 - 10,000') indicated a normally pressured section.

No economic hydrocarbon accumulations were encountered while drilling Tilana No.1 and the well was plugged and abandoned on the 21st of November 1985.

329030

APPENDIX A

GEOPRESSURE
DATA ACQUISITION AND ANALYSIS METHOD

APPENDIX A

DATA ACQUISITION AND ANALYSIS METHOD

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APPENDIX A

DATA ACQUISITION AND ANALYSIS METHODS

A. PORE PRESSURE EVALUATION

I. Pre-Drilling

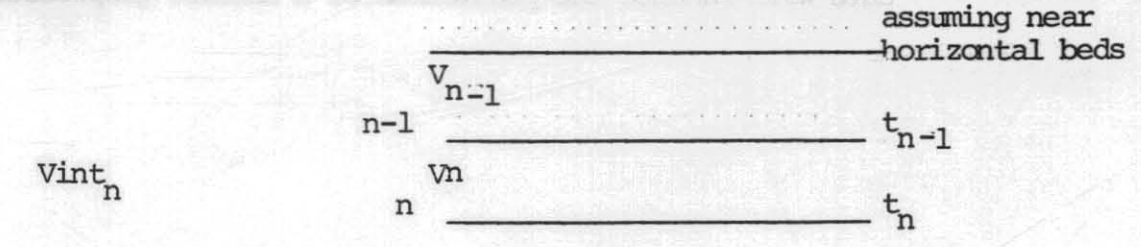
1. Offset Well Data

Whenever available, offset well data are examined to predict and evaluate pore pressure prospects in the new well. Information that can be useful is available from seismic profiles; wireline logs, especially acoustic and resistivity logs, with bottom hole temperature data; FIT, DST, and Well Kick (if any) and mud logs; daily drilling reports, including bit record, mud properties used, and remarks concerning borehole stability; and the geopressure evaluation and completion reports.

2. Seismic Information

Pore pressure prediction using seismic data primarily focuses on the interpretation of detailed velocity analyses made possible by Common-Depth-Point (CDP) recording methods. The velocity analyses are performed with velocity scan increments (50ft/sec) and output intervals in the time domain (10 milliseconds). Based on such analyses, RMS (Root Mean Square) velocity values at a series of record times (i.e. two-way travel times) may be identified. The sequence of interpreted RMS velocity-time data pairs obtained from a velocity analysis may then be recomputed to interval transit time (ITT) using Dix's (1955) formula (see figure 1).

Figure 1



$$V^2int_n = (V_n^2 t_n - V_{n-1}^2 . t_{n-1}) / (t_n . t_{n-1}) \quad \ldots\ldots \text{eq. 1}$$

Where $Vint_n$ = ITT for reflecting horizon n, ft/sec.
V_n = RMS velocity for layer n, ft/sec.
V_{n-1} = RMS velocity for layer (n-1), ft/sec.
t_n = Two-way time to layer n, sec.
t_{n-1} = Two-way time to layer (n-1), sec.

$$1/Vint_n \times 10^6 = \text{ITT, microseconds} \quad \ldots\ldots\ldots \text{eq. 2}$$

The ITT when plotted with depth will produce a "synthetic acoustic log" which can be readily compared with that derived from the wireline acoustic log. The ITT plots show that velocity increases exponentially with depth in normally-compacted sediments. The "normal compaction trend" through the shale points which form a linear trend on the plot can be identified. Any departure from this normal trend is caused by the presence of geopressured formations and/or gross changes in lithology. There is no accurate way to separate shale from other lithologies when using seismic velocity data. Therefore since the influence of these other lithologies can adversely affect the interpretation of a seismic pressure plot, all available geologic and other subsurface information should be integrated into the evaluation. The accuracy of ITT plots will also depend upon the quality of the seismic data, and the use of high resolution seismic data will enhance the prediction of a shallow geopressured interval.

II. Drilling

1. Drilling Parameters: ROP and Drilling Exponents

Exploration Logging utilizes the Kelly Height system to calculate the rate of penetration. The system responds to the hydrostatic pressure variation of a sensing device and a Kelly chamber located near the Kelly swivel. The Kelly Height variations recorded on a time chart allows computation of the rate of penetration.

When the drilling variables (bit type, bit size, weight on bit, rotary rpm, mud hydraulics, mud rheological properties) are held constant in a uniform lithology, the rate of penetration will be determined by formation compaction characteristics and differential pressure. The rate of penetration would decrease uniformly with depth as compaction of shale increased. On entering a geopressure transition zone in shale, increasing porosity due to decreased compaction, and decreasing differential pressure across the bottom will cause an increase in the rate of penetration. A marked reduction in drilling rate is often observed at the top of a transition zone, possibly caused by a lithology difference in the so called "cap rock".

Maintaining constant drilling variables is not always possible; various formulae have been proposed in the attempts to resolve the problem of normalizing drill rate. Jorden and Shirley's (1968) formulation allows control of most of the drilling variables and has proven very successful in most areas.

$$d = \frac{\log \frac{R}{60N}}{\log \frac{12W}{10^3 D}}$$

Where d = drilling exponent (dimensionless)
R = Rate of Penetration, ft/hr.
N = Rotary Speed, RPM
W = Weight on Bit, klbs
D = Bit Diameter, inches

The d-exponent will increase as the depth, compaction and differential pressure across bottom increase in normally pressured homogeneous shale. Upon entering a geopressured zone, the compaction and differential pressure will decrease, which is reflected by a decrease in the d-exponent.

Differential pressure is dependent upon mud weight as well as formation pressure. Rehm and McClendon (1971) proposed the correction to allow for mud weight.

$$Dxc = d \times \frac{Weq}{ECD}$$

Where Dxc = corrected d-exponent
d = d exponent
Weq = normal pore pressure gradient (Equivalent Mud Weight, ppg)
ECD = Effective Circulating Density, ppg

Any negative deviation of the Dxc from a normal trend (based on clean shale points) may be indicative of an increase in pore pressure.

Exlog introduced Nx and Nxb to account for ROP variations due to tooth wear/efficiciency (based on Bourgoyne and Young's (1973) model), mud hydraulics, and lithology. A plot of Nxb with depth then serves as an indication of formation pressure changes at the bit.

2. Gas

The drilling mud continuously passes through the gas trap situated at the flowline, and the gas extracted is pumped to the logging unit to be analysed by the catalytic or flame ionisation gas detector. The amount of gas is expressed as "gas unit". Exlog's gas detectors are calibrated with a mixture of 1% methane in air to read 50 units, i.e. 1 unit is 200 ppm, according to API standards for mud logging.

The volume of gas released from a drilled formation is dependent upon the porosity, permeability, gas saturation, and differential pressure. Gas magnitude is relative when gas is being used as a measure of differential pressure. Low permeability formations with low gas saturation, and high permeability formations with low gas saturation, are both likely to yield only low background gas.

Background gas is the total drilled gas resulting primarily from the unit volume of formation cut by the drill bit, i.e. liberated gas. A continued increase of background gas indicates a higher formation porosity and/or a higher hydrocarbon saturation in the available pore space. Thus if lithology, permeability rate, rate of penetration, gas saturation, and mud density are given due consideration, then an increasing background gas may indicate increasing pore pressure. The background gas after a gas peak should be compared with the background gas prior to the peak. A higher background gas after a peak than that before the peak may suggest an underbalanced hole condition.

Produced gas, i.e. gas produced into the drilling fluid from a specific zone in response to formation pressure that exceeds the opposing effective hydrostatic pressure (e.g. connection gas, swab gas, and trip gas), are also important factors to consider in pore pressure analysis. Their presence indicates a near balanced hole condition for permeable hydrocarbon bearing formations, and that at least some degree of effective permeability is present.

Connection gas results from momentary underbalance due to pump shutdown, and/or pipe movement while making a pipe connection. Negative differential pressure caused in part by the loss of annular pressure drop during periods of no circulation and in part by the swabbing action of drilling string, could lead to feeding into the borehole of formation fluid.

Swab gas is that gas produced by a formation due to underbalance caused by the upward movement of the drillstring. This may be accompanied by pump shutdown (e.g. during connections and trips) or not. There are two types of swabbing, one being the piston type (some part of the drill string acting as a plunger in the borehole) and the other being the frictional type (friction between moving drill string and annular mud inducing a slight lifting force in annular mud column).

Trip gas is produced gas caused by the loss of annular pressure drop during pump shutdown by swabbing the entire hole (influenced by the speed of tripping out the drill string), lowering of hydrostatic head (if the hole is not kept full), and the period of non-drilling operations while making a trip. It also is a measure of the degree of static balance in the borehole, but its utility is less because time interval is a significant factor in round trips when compared to connections.

3. Cuttings Analysis

(a) Shale Density

The compaction of sediments through applied overburden pressure and diagenetic process is largely a function of dewatering. The exclusion of water with compaction will result in a decrease in primary porosity and an increase in bulk density, generally with depth. With normal compaction, bulk density typically ranges from 1.7 to 2.7 gm/cc and shows a steady rate of increase with depth. Anomalies from this normal compaction trend may be due to mineralogy, e.g. siderite, dolomite, and calcitic shales exhibit higher than normal values. Sandy, silty shales and soft wet clays will produce further variations.

Geopressure in homogeneous claystone/shale sections is indicated by a constant or decrease in density with depth reflecting a higher than normal porosity and fluid content. "Cap rocks" of higher than normal density may be present above this zone of geopressure.

Two methods of shale density determination commonly used by Exlog at the wellsite are:

(i) Single-solution shale density kit (Density Gradient Method) which consists of a column of variable density solution fluid (bromoform and neothene) in which beads of known density are suspended. A calibration curve of density versus depth is prepared. Shale cuttings immersed in the column will sink to the level at which their density is the same as the fluid; density is then read off from the calibration curve.

(ii) Multi-solution shale density kit ("sink or float" method) which consists of a set of liquids of varying densities. By placing a piece of shale in such a liquid, its density can be determined when it either sinks or floats through the liquid.

(b) Shale Factor

Smectite is the principle component of clay during normal sedimentation. This is a flocculated sheet silicate which has a large capacity to absorb and retain water between the individual molecular sheets and between the flocculate particles. With burial and continual compaction, smectite will undergo diagnesis due to increasing temperatue and pressure. Ionic exchange occurs and structured water becomes liberated to the pores. Providing that the hydraulic conductivitv is sufficiently high to remove this water, compaction will continue. The outer layers of water bonded to the clay particles may next be removed as smectite alters diagnetically with depth to mixed-layer clays and finally, to illite. This alteration involves compaction of pore spaces, orientation of particles and reduction in inter-layer and intraparticle area, thereby reducing the total area available for chemical adsorption. If the hydraulic conductivity is insufficient to remove the liberated water as it is flushed, then at depth the clays will be geopressured and of a "younger" diagenetic age.

Illite or kaolinite may be deposited as the primary clays. As non-swelling clays they have very little intraparticle water. These clays dewater by loss of interparticle water through compaction. Again, if the hydraulic conductivity of the clays is lower than that required to efficiently flush the water, then these clays will be geopressured. Non-swelling clays, as stated above, are geometrically more compact than their swellable counterparts and therefore originally contain less sites for chemical adsorption of free ions.

Shale factor is a measure of the cation capacity of clays. Cation exchange capacity will decrease as clays convert from smectite to illite. Therefore, geopressured zones generated by restricted diagenesis due to inefficient dewatering mechanism, will theoretically show an increase of the shale factor due to the increased porosity and hence larger surface areas of cation exchange. If illite and kaolinite were the primary clays, the shale factor would be low initially. In geopressured sections of such clays, the shale factor may show no increase whatsoever. Hence in sections of mature, reworked clays, shale factor may be of little use in the detection of geopressures.

Also, in geopressure zones caused by dehydration, i.e. water released to the pore spaces has been unable to escape fast enough and resulting in a pore pressure increase, the shale factor will decrease since the smectite has been converted to illite. Therefore shale factor may not be a useful geopressure indicator; this is also the case when geopressure was generated by tectonic forces and aquathermal pressuring other than compaction disequilibrium.

The method of shale factor determination used by Exlog at the wellsite is as follows:

1. dry samples in oven;
2. pulverise the sample to fine powder with mortar and pestle;
3. Seive powdered sample through 80-mesh seive;
4. weight o.5 gm of the powder & add this to a solution of distilled water acidified with a few drops of 5N Sulphuric acid in the blendor metal measuring cup;

5. heat solution to boiling on the hot plate, stirring continuously and titrate with methylene blue solution until end-point is reached - this occurs when the halo of pale turqoise around a blue dye spot on filter paper occurs;

6. calculate the shale factor:

$$\underset{(meq/100gm)}{\text{Shale Factor}} = \frac{100}{\text{sample wt, gm}} \times \text{volume} \times \begin{matrix}\text{normality of} \\ \text{methylene blue} \\ \text{solution}\end{matrix}$$

Where volume = volume of methylene blue used when end-point was reached, ml

7. If clay is calcareous, and calcimetries are also being run, shale factor may be corrected for carbonate content (assuming clay matrix is of same density as the carbonate matrix).

$$\text{True shale factor} = \frac{100}{100 - CaCO_3\%} \times \text{apparent shale factor}$$

Note that the shale factor as measured at the wellsite will not give values corresponding to actual chemical cation exchange capacity. This is due to impurities in the sample, variations in methodology, experimental errors, and the fact that the methvlene blue dye (used in the titration) is a very large molecule and thus cannot be adsorbed in interlayer sites.

(c) Cuttings Physical Character

Cuttings over shale shaker are continuously monitored for any indication of geopressure. Cuttings for normally pressured shales are generally small, semi-flat and rounded edges, while cuttings from a geopressure zone drilled underbalanced are typically larger, angular edges, flat, splintery, and often as jagged and elongated concave, curved samples. The quantity of cuttings often increases while drilling underbalanced

because the formation explodes into the wellbore. Cavings are also produced by stress relief mechanism, characteristically blocky and varying in size tremendously, depending on the formation characteristics.

4. Mud Properties

(a) Flowline Temperature

Heat flow is generated radially from the earth's core with a constant heat flux across any depth increment. For any given area, the geothermal gradient is usually assumed to be constant. While this may be true for the average gradient across normally pressured formations, geopressured formations have exhibited abnormally high geothermal gradients. The top of a geopressured zone will be marked by a sharp increase in geothermal gradient due to the higher than normal porosity and fluid content of the formation which reduces the thermal conductivity. The seal above geopressured zones may exhibit a decrease in the geothermal gradient due to the insulating effect of the geopressured zone below and/or due to the greater thermal conductivity at the abnormally compacted seal rock.

The temperature of the drilling fluid at the flowline may reflect the geotemperature, and the recording of flowline temperature is a practical method of determining temperature gradient. However, many variables must be accounted for, including the mixing, treatment and addition of new cooler mud into the circulatory system, pump rate, lag time, ambient temperature, lithology, solid content of mud (weighing material), penetration rate, casing size, and the length of marine riser. Exlog uses a dual temperature probe system with sensors at the flowline and suction pit - surface effects may be removed if lagged differential temperature is plotted.

Returns are often circulated prior to pulling each bit, and after significant drilling breaks. A plot of these circulated returns temperatures usually provides a better approximation of the geothermal gradient than that obtained from the flowline temperature over the bit run. As with the standard method, recent mud additions can have a serious effect upon the circulated returns temperatures.

A plot of maximum temperature on regaining circulation after a period of downtime can also closely approximate geothermal trends. After a trip, mud temperature will reach a maximum on bottoms-up. Monitoring these peaks may aid geothermal trend interpretations.

Another method of obtaining geothermal gradient between hole deviation survey runs is the use of Temp Plates. These are self-adhesive sensors containing thermetically sealed heat-sensitive elements which change chemical structure at given calibrated temperatures. When exposed to the new rated temperature, the indicator turns from pastel grey to black. The Temp Plates are attached to the survey tool. A record of downhole survey temperatures can therefore be kept. It has been found that this method more closely reflects the true geothermal gradient, although recorded temperature values are lower than true values.

Maximum bottom-home temperatures recorded during wireline log runs at the same depth can be utilized to estimate the true formation temperature. By use of a modified Horner Plot, a method adapted from Horner's bottom-hole pressure plots (Fertl & Wichmann, 1977), it is possible to estimate true bottom hole temperatures. The method requires maximum recorded bottom hole temperature on each logging run, and information concerning circulating time (tk = hours) and time since circulation stopped (dt, hours). The recorded data may then be plotted on semilogrithmic paper, with temperature on the linear coordinate and one dimensionless time factor, $\frac{dt}{tk + dt}$ on the semilog abscissa.

BOTTOM HOLE TEMPERATURE CALCULATION

LOG RUN #	TIME SINCE CIRCLN. (dt)	MEASURED B.H.T.	dt / tk+dt
1	4.00	210.00	.500
2	7.83	225.00	.662
3	11.17	231.00	.736

CIRCULATION TIME (tk) = 4.00 hours

HORNER - FERTL METHOD

BOTTOM HOLE TEMPERATURE = 247.46DEGREES

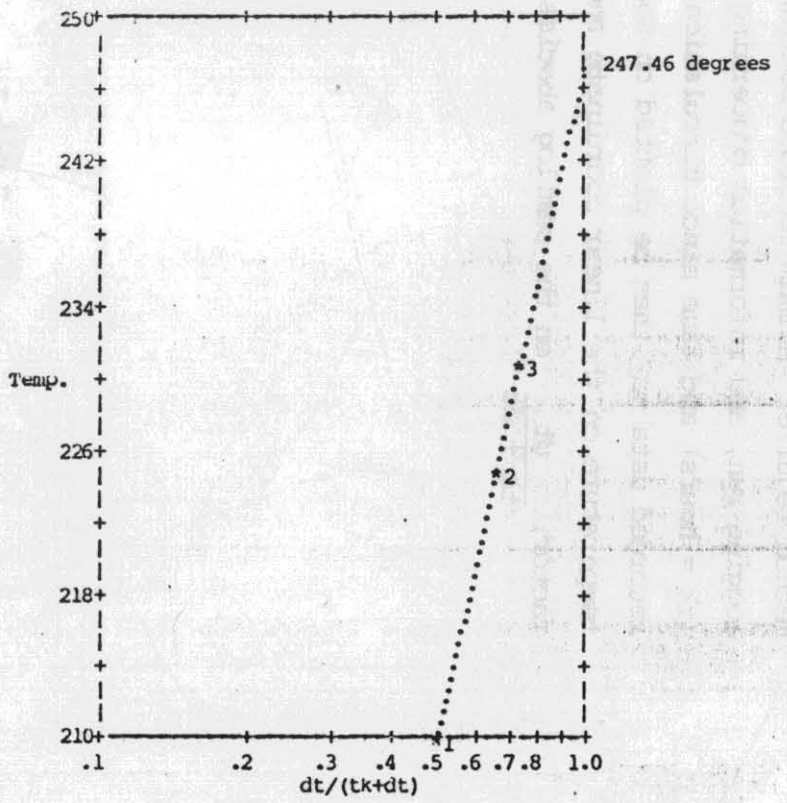


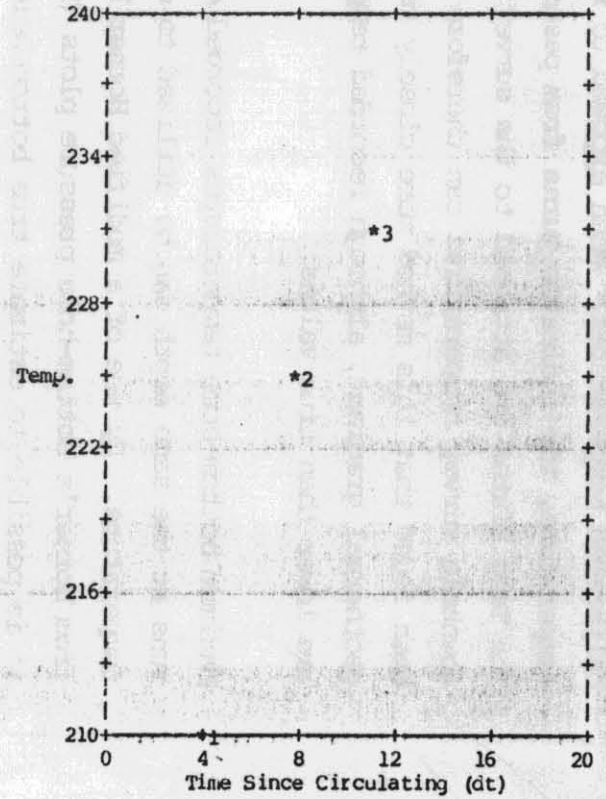
Figure 2

BOTTOM HOLE TEMPERATURE CALCULATION

LOG RUN #	TIME SINCE CIRCLN. (dt)	MEASURED B.H.T.	dt / tk+dt
1	4.00	210.00	.500
2	7.83	225.00	.662
3	11.17	231.00	.736

CIRCULATION TIME (tk) = 4.00 hours

NWACHUKWU METHOD



USING LOG RUNS 1 , 2 AND 3
BOTTOM HOLE TEMPERATURE = 248.89DEGREES

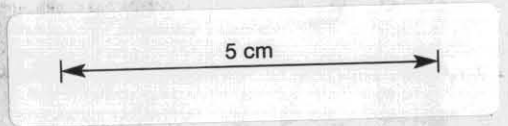


Figure 3

A straight line joining the plotted points is extrapolated to the temperature axis and true bottom hole static temperature is read off (figure 2). The method fails if circulation and the addition of new, cool mud into the system occurs between log runs.

Nwachukwu (1976) proposed a mathematical method, utilizing a modified Lachenbruch-Brewer (1959) equation, to calculate true static bottom hole temperature when three bottom hole temperatures are available from logging runs (figure 3). True bottom hole temperature, T_f, is solved by:

$$T_f \frac{(t_2 - t_1) + ((T_1 \cdot t_1) - (T_2 \cdot t_2))}{T_2 - T_1} = T_f \frac{(t_3 - t_1) + ((T_1 \cdot t_1) - (T_3 \cdot t_3))}{T_3 - T_1}$$

where T_1 = recorded BHT, log run 1
T_2 = recorded BHT, log run 2
T_3 = recorded BHT, log run 3
t_1 = time since circulation stopped, log run 1
t_2 = time since circulation stopped, log run 2
t_3 = time since circulation stopped, log run 3
T_f = true static formation temperature

(b) Mud Resistivity/Conductivity

Dissolved solids in formation water are often correlated to the total chloride concentration of salinity. When conductivity is monitored at the flowline and the mud pits, a conversion is made to chlorides, and the differential, $\triangle$ Cl, is purportedly an indicator of geopressure. The dissolved solid contents of water in normally pressured shale is known to increase with depth, but shows a decrease in geopressured shale. The trend is similar in normally pressured sands but at a higher concentration than shale waters, while in geopressured sands the dissolved solid concentration of sands pure water approaches that of shale water. Therefore geopressured zones may be detected in the resistivity changes of returning mud, but this will be influenced by the shale/sand ratio of the basin. Moreover, the

use of saline mud system will severely mask small changes caused by fluctuating pore water chemistry.

5. Borehole Condition

Borehole condition has to be used in conjunction with all other data. Increased rotary torque while drilling, drag on trips and connections, occurrence of connection gases, swab gases, quantity and physical character of cuttings, carbide lag versus theoretical lag time are all indicators of hole condition and will tend to indicate the presence of geopressure.

6. Verification of Wireline Logs

(a) Accoustic Log

The acoustic (sonic) log measures the shortest time for a sound wave to travel through rock. The acoustic logging devices consist of acoustic transmitters with a fixed distance from the receivers, thus time is the only variable. The interval transit time can be related to the porosity of the formation.

$$\phi = \frac{dt - dtm}{dtf - dtm}$$

where ϕ = fractional porosity
dt = transit time of particular formation (from log)
dtm = transit time of matrix
dtf = transit time of pore fluids

The transit times decrease with increasing formation compaction due to burial depth and older geological age. A normal trend can be produced from a plot of clay transit times in normally pressured sections. Geopressured clays will show increasing transit times due to increasing porosity associated with increasing pore pressure.

(b) Resistivity Logs

The resistivity of a rock is the ability of the rock to impede the flow of electric current through rock, and is dependent upon the amount of water, its salinity, and the distribution of the water within the rock's porous network.

Any log producing resistivity curves can be utilized for formation pressure evaluation, but the best logs are the induction and microlog types. A resistivity plot in a normally pressured clay shows an increasing trend with depth caused by compaction that decreases clays porosity which results in less connate water to act as an electrical resistance. The increase in porosity in geopressured clays is reflected by a decrease in resistivity, provided the resistivity of the pore water has not increased.

(c) Other Logs

Other electrical logs, including Spontaneous Potential (SP), Formation Density (FDC), Neutron Logs, have been used for formation pressure plotting.

Quantitative formation pressure evaluation involves the determination of normal trends in normally pressured clay sections, and departure from these trend lines in geopressured clays.

All electrical logs used for formation pressure evaluation should be utilised with the considerations for possible pitfalls and limitations, posed by factors such as borehole conditions, mud salinity, shale hydration, tools calibrations, which are inherent with different logging tools.

B. PORE PRESSURE QUANTIFICATION

Pore pressure quantification can be made from either empirical data such as well kick information, or from pressure parameter data such as seismic data, drilling data (including drilling exponents and shale density), and wireline log data. The quantification of pore pressure from pressure parameter data requires the knowledge of the normal pore pressure for the area, the establishment of a normal shale compaction trend line on a plot of the pressure parameter deviation from normal and abnormal pore pressure which causes such deviation.

The normal pore pressure for all areas can either be assumed to be 8.3-9.0 ppg EMW (Equivalent Mud Weight) on a rank wildcat well, estimated from formation tests data gathered in the area of interest, or calculated from wireline log formation salinity data.

Pressure parameters described above usually increase exponentially with depth in normally pressured clean shales. Thus a "normal compaction trend" can be identified by a best fit line drawn through clean shale points which form a linear trend on the plot when the pressure parameter scale is log and the depth scale is linear. This trend line represents the normal pore pressure and quantification of geopressure can be made by noting the divergence from this trend line. It should be noted that the above mentioned pressure parameters reflect changes in porosity, and hence compaction only, and do not reflect changes in pore pressure from other causes.

The magnitude of pore pressure can be estimated by the use of overlays, calibration curves, rock matrix stress analysis, or variable overburden method. However, the overlays and calibration curves should ideally only be used in the areas where the empirical well data, used to derive the pore pressure versus pressure parameter departure relationships, was obtained. Differences in lithologies, sediment age, pore water density, and overburden, compaction and cementation rates between areas can produce significantly variant departure relationships. Ignoring this can result in invalid and misleading estimations. In a rank wildcat area where no established empirical guides are available, a

technique using rock matrix stress analysis or variable overburden method is therefore preferable.

Overlays and calibration curves can be developed from known pore pressure gradient corresponding to the difference in actual pressure parameter value in geopressured shale from the pressure parameter value on the extrapolated normal trend line. The estimated pore pressure can be determined by:

$$P_f = P_p \times \left(\frac{Vn}{Vo}\right)$$

where P_f = pore pressure at depth of interest, ppg
P_p = normal pore pressure, ppg
Vo = observed pressure parameter value at depth of interest
Vn = pressure parameter value on the extropolated trend line at depth of interest

The matrix stress or Equivalent Depth method assumes that part of the overburden supported by the clay matrix will be constant for clays with the same porosity. More precisely it assumes that the rock matrix stress at a shallow depth point where the pressure parameter value on the parameter normal trend is equal to the pressure parameter value at the depth of interest in the geopressured zone. If overburden gradient and normal pore pressure are known, then pore pressure at any depth of interest can be calculated by:

$$P_{fi} = Di \cdot OBG_i - De\ (OBG_e - P_{pg})$$

where P_{fi} = formation pore pressure at depth of interest, psi
P_{pg} = normal pore pressure gradient, psi/ft
OBGi = overburden gradient at Di, psi/ft
OBGe = overburden gradient at De, psi/ft
D_i = depth of interest, ft
D_e = normal, equivalent depth, ft

Geopressure magnitude may also be calculated by variable overburden method from the pressure parameter data using the following equations:

$$P/D = S/D - (S/D - (P/D)n) \times (Ro/Rn)^{1.2}$$
$$P/D = S/D - (S/D - (P/D)n) \times (dt_n/dt_o)^{3.0}$$
$$P/D = S/D - (S/D - (P/D)n) \times (dc_o/dc_n)^{1.2}$$

where P/D = Formation pressure gradient either normal or geopressured, psi/ft

$(P/D)n$ = Normal water gradient, psi/ft

S/D = Overburden stress gradient, psi/ft

R_n = Shale resistivity from normal line, ohm-metres

R_o = Shale resistivity from well log, ohm-metres

dt_n = Normal shale travel time, microsecs/ft

dt_o = Shale travel time from log, microsec/ft

dc_n = Actual dc from trend time

dc_o = Actual dc calculated

C. OVERBURDEN PRESSURE DETERMINATION

The overburden pressure at any point in the formation is that pore pressure exerted by the total density of the overlying formations, gravity, and the depth at the point of interest.

$$\int_o^z \rho \, dz = \int_o^z \rho(z) \, dz$$

where z = depth interval

ρ = bulk density

The bulk density of a rock is a function of the density of the rock matrix itself, the density of the bore fluids, and the porosity.

The formation densities are derived from cuttings or, preferably, from the FDC, or Acoustic logs. The average density for each

successive 50 feet interval from surface to total depth is then used to compute overburden gradient. The overburden pressures are referenced from the rig floor, hence in offshore drilling the height of an air gap and depth and density of seawater must be accounted for.

D. FRACTURE PRESSURE DETERMINATION

Fracture pressure is the pressure required to overcome the tensile strength and fluid pressure of a formation at depth. Both empirical and theoretical methods are utilised to determine the fracture pressure of the formation. Empirical data from formation pressure integrity tests and lost circulation are the most reliable. Fracture data from well histories can be very beneficial. The following theoretical models are used:

a) Hubbert and Willis (1957)

$$\frac{F}{D} = \frac{P}{D} + \frac{1}{3}\left(\frac{S-P}{D}\right) \text{.....minimum}$$

$$= \frac{P}{D} + \frac{1}{2}\left(\frac{S-P}{D}\right) \text{.....maximum}$$

b) Mathews and Kelly (1967)

$$\frac{F}{D} = \frac{P}{D} + ki\left(\frac{S-P}{D}\right)$$

c) Eaton (1969)

$$\frac{F}{D} = \frac{P}{D} + \frac{\mu}{1-\mu}\left(\frac{S-P}{D}\right)$$

d) Anderson, et.al (1972)

$$\frac{F}{D} = \frac{P}{D}\left(\frac{1-3\mu}{1-\mu}\right) + \frac{S}{D}\left(\frac{2\mu}{1-\mu}\right)$$

e) Exlog (1980)

$$F = \sigma_t + \sigma_1' \left(\frac{\mu}{1-\mu}\right) + P$$

Where F = fracture pressure
D = depth
S = overburden pressure
P = pore pressure
ki = matrix stress coefficient
μ = Poisson's Ratio
σ_t = superposed horizontal tectonic stress
σ_1' = maximum compressive effective stress = S - P

The stress ratios, ki and μ in equation (b) and (c) may be backcalculated with measured formation breakdown ("Leak-off") pressures or taken from curves derived in Gulf Coast. It should be noted that Eaton's Poisson's ratio is not a function of the rock itself but of the regional stress field (i.e. the horizontal-to-vertical stress ratio); Anderson's Poisson's ratio is a function of the shaliness of the sand; Exlog's Poisson's ratio is a function of the rock and the values obtained by sonic testing. Exlog's method also requires a "leak-off" test to calculate the superposed tectonic stress, if present.

With known overburden pressure (from density data) and pore pressure (from drilling and log plots), fracture pressure can thus be predicted for any depth using one of the above equations. However, returns may be lost in vugular or naturally fractured formations regardless of the fracture gradient in the overlying formation.

E. REFERENCES

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APPENDIX B

INSTRUMENTATION AND DATA COLLECTION METHODS

INSTRUMENTATION:

The GEMDAS Level X System consists of the following equipment packages:

a) One Hewlett Packard 21MX, 128K memory computer system with associated linc tape drives, disk drives, operator consols, printer-plotter outputs and remote video display units.

b) Drill Monitor System (DMS) which monitors the drilling variable, hook load, weight on bit, rotary RPM, total bit revolution, depth, kelly height rig heave, drill rate, torque, standpipe and casing pressures. The system monitors, displays and records these variables and feeds them to the online computer system for analysis and final tape storage.

c) Drill Monitor System for recording total and individual pit volumes, mud weights in and out, mud temperatures in and out, and mud flow in and out. These variables are also interfaced with the online computer.

d) Gas detection system for the analysis of mud stream and blendor gases which includes the standard hot wire detectors for total gas and petrol vapours; standard catalytic chromatograph for hydrocarbons C_1 through C_5; flame ionisation detectors (FID) for total gas and C_1-C_5 for high percentage of these gases which would saturate a normal system, and an H_2S detection system.

SOFTWARE CAPABILITIES:

The GEMDAS system incorporates software capabilities that have been developed to monitor drilling operations, aid in drilling control and pressure detection and provide a permanent easy-recall record of all pertinent drilling data. The following basic units are involved:

a) The Drill Monitor program which monitors and provides for the redording of real-time drilling parameters including calculated variables each as rate of penetration, vertical depth, Dxc, Nxb, drilled porosity and estimated formation pressure. In addition, the GEMDAS operator is able to set values for rotary speed, weight on bit and other parameters, which enables the software "Drill Logic" to distinguish between drilling, reaming, circulation, connection and off-bottom situations.

b) The Trip Monitor program which provides a critical real-time monitoring of all necessary parameters during trips, and calculated trip-related parameters such as hole fill-up, actual and expected hookload, pit volume, running/pulling speed and swab/surge pressure.

c) The Kill Monitor program which monitors and records parameters related to the killing operation such as choke and standpipe pressures, pit volume, and gas readings. The Kill Monitor is used following a complete kick analysis, thus enabling the suggested and actual well kill parameters to be compared.

d) The Engineering Assistance Programs which are a comprehensible suite of auxiliary programs in onsite problem-solving. They include mud hydraulics, bit hydraulics optimisation, swab and surge analysis, overburden and fracture gradient estimations, kick analysis, Dxc and Nxb analysis, formation abrasiveness and tooth wear estimation, cost per unit depth calculation, and wireline log programs.

e) Data Collection:

The complete drilling data for Tilana No.1 is stored on 11 discs :

Data: 343 - 12796ft
104.5 - 3900.3m

A complete printout of this data is presented in Appendix D(i) and selected parameters have been plotted on various scales and presented in Appendix D(ii). Handplots of drill rate, Dxc, background gas, shale density and mud temperature are presented in Appendix C.

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APPENDIX C. MANUAL PLOTS

(i) Pressure Evaluation Log - **Not with report**

(ii) Drilling Data Pressure Log

(iii) Temperature Data Log

(iv) Wireline Data Pressure Log

(v) Well Progress Log and Well Schematic Diagram

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APPENDIX C.

i. Pressure Evaluation Log

(Not with report)

APPENDIX C.

ii. Drilling Data Pressure Log

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EXLOG

COMPANY AMOCO AUSTRALIA

WELL TILMAN No.1

FIELD WILDCAT

REGION NW SHELF

COORDINATES LAT. 20° 43' 44.1"S LONG. 116° 8' 9.2"E

API WELL INDEX NO.

SPUD DATE 7TH SEPTEMBER 1990

ELEVATION RIG - 25M SEA - 107M

TOTAL DEPTH 4100M

CONTRACTOR DIAMOND M

RIG / TYPE DIAMOND M OCEAN / SEMI

LOG INTERVAL

DEPTH FROM 400M TO 4100M

DATE FROM 12 SEPT TO 28 SEPT 1990

SCALE 1 : 5000 UNIT FEET METRES

LOG PREPARED BY A. TELL & J. PRICE

HOLE SIZE

36"	TO	209M	12¼"	TO	3300M
26"	TO	416M		TO	
17½"	TO	1604M		TO	

CASING RECORD

30"	AT	209M		AT	
20"	AT	413M		AT	
13⅜"	AT	1603M		AT	

MUD TYPES

SEAWATER/GEL/LIGNOSULF	TO	1604M	
FRESHWATER/GEL/POLYMER	TO	2913M	
	TO		

LITHOLOGY SYMBOLS

LIMESTONE, DOLOMITE, ANHYDRITE AND GYPSUM, HALITE, COAL AND LIGNITE, CLAY, SHALE, SILT AND SILTSTONE, SILTY SANDSTONE, SAND AND SANDSTONE, CONGLOMERATE, CHERT, IGNEOUS UNDIFFERENTIATED, VOLCANICS

EXLOG SUITE

FORMATION EVALUATION LOG ■ WIRELINE DATA PRESSURE LOG ■
PRESSURE EVALUATION LOG ■ TEMPERATURE DATA LOG ■
DRILLING DATA PRESSURE LOG ■ GEMDAS COMPUTER LOGS □

ABBREVIATIONS

NB	NEW BIT	SVG	SURVEY GAS
RRB	RERUN BIT	C	CARBIDE TEST
CB	CORE BIT	W	MUD DENSITY — PPG
WOB	WEIGHT ON BIT	V	FUNNEL VISCOSITY
RPM	REVS PER MINUTE	F	FILTRATE — API
FLC	FLOW CHECK	FC	FILTER CAKE
CR	CIRCULATE RETURNS	PV	PLASTIC VISCOSITY
PR	POOR RETURNS	YP	YIELD POINT
NR	NO RETURNS	SOL	SOLIDS — %
LAT	LOGGED AFTER TRIP	SD	SAND — %
BG	BACKGROUND GAS	S	SALINITY — PPM Cl
TG	TRIP GAS	RM	MUD RESISTIVITY
STG	SHORT TRIP GAS	RMF	FILTRATE RESISTIVITY
CG	CONNECTION GAS		
SWG	SWAB GAS		

CASING SEAT — WIRELINE LOG RUN
CORED INTERVAL — TEST INTERVAL
NO RECOVERY — WIRELINE TEST
SIDEWALL CORE

GAS — 100 Total gas units is equivalent to 2% methane in air
OIL — Based on live oil or unwashed cuttings and percentage staining of washed cuttings

DRILLING DATA PRESSURE LOG

DEPTH AND DRILLING DATA — BIT, DATE

RATE OF PENETRATION FEET/HOUR

DRILLING EXPONENT — DXC, MAE

PUMP PRESSURE — Plotted in uncorrected/dead formations only

GAS % IN AIR — PEAK, TRIP GAS, BACKGROUND GAS, CONNECTION GAS

SHALE DENSITY SPWD — CUTTINGS, SIDEWALL CORES, CORES

LITHOLOGY

RETURNS TO SEABED

NB1 RRB1 NB2 NB3 NB4 NB5 NB6 NB7 NB8 NB9 NB10 NB11 NB12 RR8 NB13 NB14 NB15 NB16 NB17 NB18 NB19 RR9 NB20

CORE No.1 CORE No.2 CORE No.3

TD 3900/3915

5 cm

329061

APPENDIX C.

iii. Temperature Data Pressure Log

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EXLOG

COMPANY AMOCO AUSTRALIA

WELL TILANA No.1
FIELD WILDCAT
REGION BASS STRAIT
COORDINATES LAT: 39° 53' 36.73" S
LONG: 145° 58' 41.97" E

API WELL INDEX NO.
SPUD DATE 5th SEPTEMBER 1985
ELEVATION RKB — MSL 22m
RKB — SEABED 82m
TOTAL DEPTH 3900m
CONTRACTOR DIAMOND M
RIG / TYPE DIAMOND M EPOCH / SSVB

LOG INTERVAL
DEPTH FROM 420m TO 3900m
DATE FROM 10 SEPT TO 28 OCT '85
SCALE 1 : 5000 UNIT 215 GEMDAS X
LOG PREPARED BY FELL, HODGE, NEWSTRAITHS

HOLE SIZE

36"	TO 209m	12¼"	TO 3900m
26"	TO 416m		TO
17½"	TO 1662m		TO

CASING RECORD

30"	AT 209m		AT
20"	AT 415m		AT
13⅜"	AT 1651m		AT

MUD TYPES

SEAWATER/GEL/LIGNOSULF	TO	1662m
FRESHWATER/GEL/POLYMER	TO	3900m
	TO	

LITHOLOGY SYMBOLS

LIMESTONE; DOLOMITE; ANHYDRITE AND GYPSUM; HALITE; COAL AND LIGNITE; CLAY; SHALE; SILT AND SILTSTONE; SILTY SANDSTONE; SAND AND SANDSTONE; CONGLOMERATE; CHERT; IGNEOUS UNDIFFERENTIATED

EXLOG SUITE

FORMATION EVALUATION LOG	■
PRESSURE EVALUATION LOG	■
DRILLING DATA PRESSURE LOG	■
WIRELINE DATA PRESSURE LOG	■
TEMPERATURE DATA LOG	■
GEMDAS COMPUTER LOGS	■

ABBREVIATIONS

NB	NEW BIT	SVG	SURVEY GAS
RRB	RERUN BIT	C	CARBIDE TEST
CB	CORE BIT	W	MUD DENSITY — PPG
WOB	WEIGHT ON BIT	V	FUNNEL VISCOSITY
RPM	REVS PER MINUTE	F	FILTRATE — API
FLC	FLOW CHECK	FC	FILTER CAKE
C/R	CIRCULATE RETURNS	PV	PLASTIC VISCOSITY
PR	POOR RETURNS	YP	YIELD POINT
NR	NO RETURNS	SOL	SOLIDS — %
LAT	LOGGED AFTER TRIP	SD	SAND — %
BG	BACKGROUND GAS	S	SALINITY — PPM Cl
TG	TRIP GAS	RM	MUD RESISTIVITY
STG	SHORT TRIP GAS	RMF	FILTRATE RESISTIVITY
CG	CONNECTION GAS		
SWG	SWAB GAS		

CASING SEAT; CORED INTERVAL; NO RECOVERY; SIDEWALL CORE; WIRELINE LOG RUN; TEST INTERVAL; WIRELINE TEST

GAS — 100 Total gas units is equivalent to 2% methane in air

OIL — Based on live oil in unwashed cuttings and percentage staining of washed cuttings

TEMPERATURE DATA LOG

DEPTH AND DRILLING DATA — TRIP / SHORT TRIP

FLOWLINE TEMPERATURE (FLT) °C — 0 5 10 20 30 40 50 60 70

DELTA TEMPERATURE (ΔT) — Lagged (Mud T Out - Mud T In)

END TO END PLOTS ☐
TREND TO TREND PLOTS ☐

TEMP-PLATE DATA ▲ (+ +1)

ESTIMATED BHT ■

0 100 200 300 400 500 600 700 800 900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400 2500 2600 2700 2800 2900 3000 3100 3200 3300 3400 3500 3600 3700 3800 3900 4000 4100

SEAWATER ONLY

MUD UP

CONSTANT ADDITION OF MUD

CIR

RIG↓

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CIR

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APPENDIX C.

iv. Wireline Data Pressure Log

OR-033A vol 1 Appendix C iv)

329064

EXLOG

COMPANY	AMOCO AUSTRALIA
WELL	TILANA No.1
FIELD	WILDCAT
REGION	BASS STRAIT
COORDINATES	LAT: 39° 53' 36.73" S LONG: 145° 58' 41.97" E
API WELL INDEX NO.	
SPUD DATE	5TH SEPTEMBER 1985
ELEVATION	RKB - MSL 22M RKB - SEABED 82M
TOTAL DEPTH	3900M
CONTRACTOR	DIAMOND M
RIG / TYPE	DIAMOND M EPOCH / SSUB

LOG INTERVAL

DEPTH FROM 420M TO 3900M

DATE FROM 10 SEPT TO 28 OCT '85

SCALE 1 : 5000 UNIT 216 GEMDAS X

LOG PREPARED BY FELL, HODGE, NEW STRAUTING

HOLE SIZE

36"	TO	209M	12¼"	TO	3900M
26"	TO	416M		TO	
17½"	TO	1662M		TO	

CASING RECORD

30"	AT	203M		AT	
20"	AT	413M		AT	
13⅜"	AT	1651M		AT	

MUD TYPES

SEAWATER/GEL/LIGNOSULF	TO	1662M	
FRESHWATER/GEL/POLYMER	TO	3900M	
	TO		

LITHOLOGY SYMBOLS

LIMESTONE, DOLOMITE, ANHYDRITE AND GYPSUM, HALITE, COAL AND LIGNITE, CLAY, SHALE, SILT AND SILTSTONE, SILTY SANDSTONE, SAND AND SANDSTONE, CONGLOMERATE, CHERT, IGNEOUS UNDIFFERENTIATED

EXLOG SUITE

- FORMATION EVALUATION LOG
- PRESSURE EVALUATION LOG
- DRILLING DATA PRESSURE LOG
- WIRELINE DATA PRESSURE LOG
- TEMPERATURE DATA LOG
- GEMDAS COMPUTER LOGS

ABBREVIATIONS

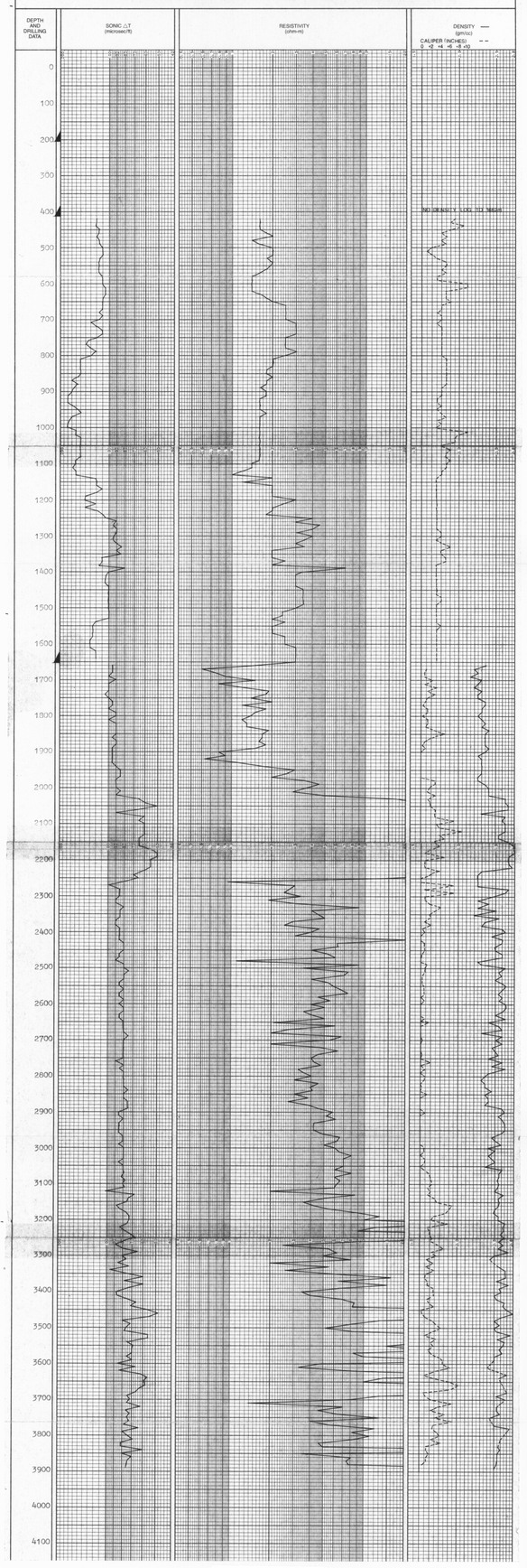
NB	NEW BIT	SVG	SURVEY GAS
RRB	RERUN BIT	C	CARBIDE TEST
CB	CORE BIT	W	MUD DENSITY PPG
WOB	WEIGHT ON BIT	V	FUNNEL VISCOSITY
RPM	REVS PER MINUTE	F	FILTRATE – API
FLC	FLOW CHECK	FC	FILTER CAKE
CR	CIRCULATE RETURNS	PV	PLASTIC VISCOSITY
PR	POOR RETURNS	YP	YIELD POINT
NR	NO RETURNS	SOL	SOLIDS – %
LAT	LOGGED AFTER TRIP	SD	SAND – %
BG	BACKGROUND GAS	S	SALINITY – PPM Cl
TG	TRIP GAS	RM	MUD RESISTIVITY
STG	SHORT TRIP GAS	RMF	FILTRATE RESISTIVITY
CG	CONNECTION GAS		
SWG	SWAB GAS		

- CASING SEAT
- CORED INTERVAL
- NO RECOVERY
- SIDEWALL CORE
- WIRELINE LOG RUN
- TEST INTERVAL
- WIRELINE TEST

GAS – 100 Total gas units is equivalent to 2% methane in air.

OIL – Based on loss of in unwashed cuttings and percentage staining of washed cuttings.

WIRELINE DATA PRESSURE LOG



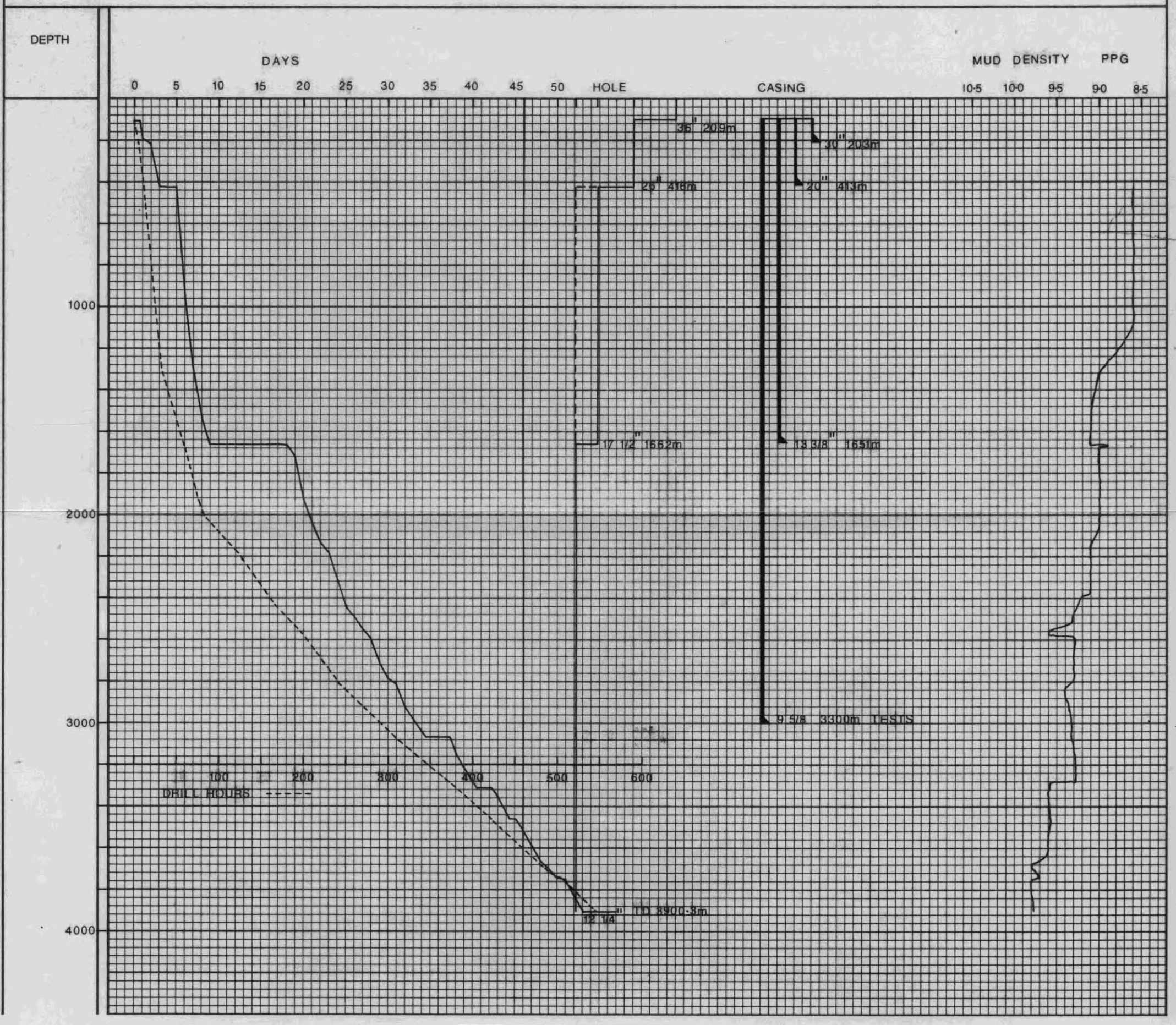
(v) Well Progress Log and Well Schematic Diagram

OR-0331A VOL 1 Appendix C v)

329066

EXLOG | COMPANY: AMOCO AUSTRALIA | WELL: TILANA No.1 | SHEET NO.

WELL PROGRESS LOG AND WELL SCHEMATIC DIAGRAM



5 cm

EL P/N 18436 MAY 1980

329067

APPENDIX D.

i. Drilling Data Printout 104 - 3900.3m

ii. Drilling Data Plots

a. ROP-DXC-WOB-RPM-TORQUE-LITHOLOGY-TOTAL GAS 1:500

b. As above for Cores (1,2,3) 1:100

c. ROP-LITHOLOGY-GAS RATIOS-CHROMATOGRAPH 1:500 Selective

i. Drilling Data Printout

® AMOCO AUST. Tilana No.1

Data Printed at time 11:11 Date Oct 9 '85
Data Recorded at time 06:22 Date Sep 7 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
Spud Tilana No.1 at 2030 hrs 5th September 1985.																												
NB#1 HTC DGJ 26" w/ 36" Hole-opener. Start 343 ft. (104.5m)																												
Drill to 685 ft. Set 30" casing at 667 ft. (203.3m)																												
RRB#1 HTC DGJ 26". Start depth 685 ft. (208.8m)																												
5	0930	215.09	91.7	2.15	3.07	53	3.9	1300	206.63	9.01	0.00	393	0	13.3	0.0	207	1067	6.15	1.4	58	2404	.05	.35	.34	.83	9.20	8.87	D
6	0943	217.56	63.2	1.22	2.33	56	4.6	1540	207.35	9.05	0.00	357	0	13.2	0.0	281	1837	8.71	1.5	175	1746	.08	.54	.53	.84	9.26	8.87	D
7	1017	235.76	52.8	1.99	2.92	49	2.1	1530	228.30	8.90	0.00	429	0	13.3	0.0	273	6659	27.0	2.2	181	443	.13	.68	.69	.82	8.89	8.87	D
8	1028	246.19	61.7	1.48	2.56	66	4.5	1520	228.30	8.90	0.00	416	0	13.3	0.0	194	7049	37.4	2.3	147	334	.19	.46	.46	.82	9.15	8.87	D
9	1037	250.00	119	2.78	3.29	61	1.6	1600	228.30	8.92	0.00	429	0	13.3	0.0	288	7125	41.2	2.3	58	307	.20	.22	.22	.82	9.49	8.87	D
10	1039	252.52	113	2.71	3.17	72	3.2	1610	228.30	8.91	0.00	429	0	13.3	0.0	285	7221	43.7	2.3	43	292	.22	.34	.34	.82	9.55	8.87	D
11	1040	255.01	119	2.86	3.49	73	3.2	1610	228.30	8.91	0.00	429	0	13.3	0.0	284	7311	46.2	2.4	38	278	.23	.33	.34	.83	9.61	8.87	D
12	1048	257.53	88.7	2.12	3.68	72	3.4	1630	228.30	8.91	0.00	426	0	13.3	0.0	289	7343	48.7	2.4	44	265	.24	.38	.38	.83	9.69	8.87	D
13	1050	260.02	117	2.80	4.85	68	2.9	1610	228.30	8.91	0.00	429	0	13.3	0.0	286	7432	51.2	2.4	52	255	.26	.32	.32	.83	9.73	8.87	D
14	1051	262.56	124	2.66	3.72	74	1.9	1620	228.30	8.91	0.00	429	0	13.3	0.0	283	7522	53.7	2.4	47	244	.27	.30	.30	.83	9.80	8.87	D
15	1100	265.03	124	2.97	3.31	73	2.3	1670	228.30	8.91	0.00	421	0	13.3	0.0	287	7590	56.2	2.4	54	236	.28	.31	.31	.83	9.86	8.87	D
16	1102	267.55	95.1	2.28	3.95	68	5.2	1600	228.30	8.91	0.00	433	0	13.3	0.0	284	7697	58.7	2.5	69	227	.29	.37	.37	.83	9.93	8.87	D
17	1104	270.00	81.2	1.95	3.37	65	8.6	1560	228.30	8.91	0.00	419	0	13.3	0.0	282	7815	61.2	2.5	63	221	.31	.42	.42	.83	9.98	8.87	D
18	1106	272.52	79.4	1.90	3.30	67	8.9	1560	238.14	8.92	0.00	418	0	13.3	0.0	281	7943	63.7	2.5	60	215	.34	.44	.44	.83	9.82	8.87	D
19	1117	275.05	74.3	1.78	3.08	74	6.5	1640	244.95	8.91	0.00	421	0	13.3	0.0	298	8152	66.1	2.6	85	211	.37	.45	.45	.83	9.67	8.87	D
20	1119	277.51	85.3	2.04	3.54	70	8.3	1640	245.54	8.92	0.00	429	0	13.3	0.0	294	8271	68.6	2.6	57	206	.38	.44	.43	.84	9.70	8.87	D
21	1120	280.02	75.9	1.82	3.15	70	8.4	1640	245.54	8.91	0.00	429	0	13.3	0.0	292	8411	71.2	2.6	62	201	.41	.45	.45	.84	9.77	8.87	D
22	1123	282.50	63.4	1.52	2.63	71	7.5	1640	246.63	8.91	0.00	430	0	13.3	0.0	287	8577	73.7	2.7	77	196	.43	.47	.47	.84	9.81	8.87	D
23	1210	285.04	87.5	2.09	3.63	79	5.2	1450	254.86	8.93	0.00	402	0	13.3	0.0	309	8841	76.2	2.7	64	195	.47	.42	.41	.84	9.65	8.87	D
24	1212	287.53	90.5	2.17	3.75	69	8.8	1440	254.86	8.97	0.00	404	0	13.3	0.0	304	8955	78.7	2.8	55	190	.48	.43	.43	.84	9.71	8.87	D
25	1213	290.04	92.4	2.21	3.84	76	9.3	1470	254.86	8.97	0.00	405	0	13.3	0.0	301	9078	81.2	2.8	59	187	.50	.44	.44	.84	9.76	8.87	D
26	1215	292.00	81.2	1.95	3.37	72	9.3	1440	256.78	8.98	0.00	405	0	13.3	0.0	299	9179	83.2	2.8	68	183	.51	.45	.45	.84	9.77	8.87	D
27	1227	298.93	105	2.40	4.24	79	5.7	1550	262.30	8.96	0.00	419	0	13.3	0.0	300	9559	90.1	2.9	43	193	.57	.40	.39	.84	9.59	8.87	D
28	1237	301.17	98.1	2.05	3.77	77	3.3	1610	263.65	8.94	0.00	427	0	13.3	0.0	308	9697	92.1	2.9	58	190	.59	.37	.37	.84	9.60	8.87	D
29	1238	303.15	84.5	2.09	3.57	69	6.3	1610	264.43	8.94	0.00	428	0	13.3	0.0	303	9792	94.3	2.9	62	187	.60	.42	.41	.84	9.64	8.87	D
30	1239	305.17	98.1	2.13	3.85	73	8.9	1620	265.28	8.94	0.00	428	0	13.4	0.0	301	9881	96.3	3.0	56	184	.61	.43	.42	.84	9.66	8.87	D
31	1241	307.16	89.9	2.41	3.99	72	8.4	1620	266.18	8.93	0.00	428	0	13.4	0.0	299	9973	98.3	3.0	55	181	.63	.43	.43	.85	9.69	8.87	D
32	1242	309.15	96.4	2.17	3.86	71	9.3	1620	267.14	8.94	0.00	428	0	13.4	0.0	298	10061	100	3.0	52	178	.64	.43	.42	.85	9.71	8.87	D
33	1250	311.16	134	1.64	3.99	76	1.8	1730	268.48	8.92	0.00	444	0	13.4	0.0	311	10146	102	3.0	47	175	.65	.29	.29	.85	9.73	8.87	D
34	1252	313.23	78.1	1.51	2.88	65	7.1	1720	268.48	8.91	0.00	443	0	13.4	0.0	304	10247	104	3.0	69	173	.66	.42	.42	.85	9.76	8.87	D
35	1253	315.16	80.5	2.06	3.47	66	7.6	1710	268.48	8.92	0.00	442	0	13.4	0.0	300	10341	106	3.1	57	171	.67	.42	.42	.85	9.81	8.87	D
36	1255	317.15	72.1	1.73	2.99	79	6.8	1730	269.61	8.93	0.00	444	0	13.4	0.0	296	10463	108	3.1	75	169	.69	.46	.45	.85	9.83	8.87	D
37	1303	319.16	44.6	2.12	2.90	82	6.1	1710	273.04	8.94	0.00	396	0	13.4	0.0	305	10704	110	3.1	136	168	.72	.53	.52	.85	9.79	8.87	D
38	1304	321.17	110	2.10	4.03	75	4.9	1710	273.84	8.95	0.00	438	0	13.4	0.0	301	10782	112	3.2	50	166	.73	.37	.36	.85	9.81	8.87	D
39	1305	323.17	109	1.61	3.52	72	7.5	1710	274.51	8.95	0.00	439	0	13.4	0.0	299	10858	114	3.2	47	164	.74	.39	.38	.85	9.83	8.87	D
40	1307	325.24	78.6	2.08	3.46	72	9.1	1710	274.91	8.94	0.00	439	0	13.4	0.0	296	10972	116	3.2	63	162	.76	.45	.44	.85	9.86	8.87	D
41	1308	327.14	75.7	1.81	3.14	73	11.1	1720	274.91	8.95	0.00	439	0	13.4	0.0	293	11079	118	3.2	68	160	.77	.48	.47	.86	9.91	8.87	D
42	1316	329.18	86.5	1.85	3.37	78	4.5	1660	275.69	8.95	0.00	432	0	13.4	0.0	303	11224	120	3.3	63	159	.79	.40	.39	.86	9.94	8.87	D
43	1317	331.16	90.1	2.96	4.54	80	5.7	1650	276.87	8.95	0.00	432	0	13.4	0.0	296	11326	122	3.3	55	157	.80	.41	.40	.86	9.95	8.87	D
44	1318	333.15	74.3	2.73	4.03	78	7.7	1650	278.23	8.96	0.00	430	0	13.4	0.0	293	11451	124	3.3	64	155	.82	.46	.45	.86	9.96	8.87	D
45	1320	335.17	76.8	2.53	3.88	78	7.3	1650	279.54	8.95	0.00	430	0	13.4	0.0	292	11574	126	3.3	64	154	.83	.45	.44	.86	9.97	8.87	D
46	1327	337.15	63.8	1.47	2.59	79	8.0	1430	281.73	8.93	0.00	370	0	13.4	0.0	310	11719	128	3.4	76	153	.86	.49	.47	.86	9.96	8.87	D
47	1329	339.19	101	2.34	4.11	81	4.0	1440	282.72	8.92	0.00	408	0	13.4	0.0	318	11812	130	3.4	66	151	.87	.37	.36	.86	9.98	8.87	D
48	1330	341.21	78.7	2.46	3.84	75	8.7	1480	283.98	8.89	0.00	406	0	13.4	0.0	315	11926	132	3.4	68	150	.88	.45	.44	.86	9.99	8.87	D
49	1332	343.17	75.2	3.41	4.73	84	8.6	1510	285.60	8.89	0.00	409	0	13.4	0.0	307	12052	134	3.4	65	148	.90	.47	.46	.86	10.00	8.87	D
50	1333	345.15	72.4	2.43	3.70	84	7.6	1510	287.81	8.88	0.00	409	0	13.4	0.0	304	12188	136	3.5	72	147	.91	.47	.46	.86	9.98	8.87	D

AMOCO AUST. Tilana No.1

Data Printed at time 11:15 Date Oct 9 '85
Data Recorded at time 13:41 Date Sep 7 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
51	1341	347.16	104	1.87	3.70	82	4.4	1660	290.61	8.91	0.00	429	0	13.4	0.0	310	12300	138	3.5	51	146	.93	.38	.36	.87	9.95	8.87	D
52	1343	349.21	65.2	1.70	2.84	93	9.4	1660	290.62	8.91	0.00	431	0	13.4	0.0	306	12473	140	3.5	68	145	.96	.52	.50	.87	9.98	8.87	D
53	1345	351.17	65.4	1.80	2.95	94	9.8	1670	292.88	8.91	0.00	432	0	13.4	0.0	303	12636	142	3.5	73	144	.98	.53	.51	.87	9.98	8.87	D
54	1347	353.15	52.6	2.55	3.47	96	7.1	1670	295.52	8.94	0.00	432	0	13.4	0.0	297	12847	144	3.6	102	143	1.00	.53	.52	.87	9.97	8.87	D
55	1357	355.16	48.4	1.10	1.95	96	6.7	1710	299.83	8.92	0.00	434	0	13.4	0.0	310	13045	146	3.6	108	143	1.04	.55	.53	.87	9.90	8.87	D
56	1359	357.15	57.2	2.18	3.18	77	4.3	1710	301.65	8.91	0.00	438	0	13.4	0.0	304	13203	148	3.7	97	142	1.05	.45	.44	.87	9.91	8.87	D
57	1402	359.14	48.6	3.51	4.36	88	5.0	1710	304.29	8.92	0.00	438	0	13.4	0.0	300	13416	150	3.7	104	141	1.08	.51	.49	.87	9.89	8.87	D
58	1404	361.18	57.2	1.63	2.63	93	5.8	1720	306.51	8.93	0.00	438	0	13.4	0.0	297	13615	152	3.7	89	140	1.10	.50	.48	.87	9.88	8.87	D
59	1406	363.22	58.1	1.74	2.76	93	5.3	1720	308.20	8.93	0.00	439	0	13.4	0.0	294	13810	154	3.8	94	140	1.13	.49	.47	.87	9.88	8.87	D
60	1412	365.18	94.6	1.60	3.26	93	7.4	1660	309.40	8.93	0.00	415	0	13.4	0.0	327	13818	156	3.8	82	138	1.13	.45	.43	.87	9.89	8.87	D
61	1414	367.20	75.4	1.93	3.25	85	5.6	1620	309.94	8.92	0.00	432	0	13.4	0.0	330	13967	158	3.8	71	137	1.15	.45	.43	.88	9.92	8.87	D
62	1416	369.19	68.5	1.67	2.87	83	7.6	1670	311.74	8.92	0.00	432	0	13.4	0.0	320	14110	160	3.8	73	136	1.17	.48	.46	.88	9.92	8.87	D
63	1418	371.15	53.9	2.69	3.64	84	7.3	1670	314.21	8.92	0.00	432	0	13.4	0.0	313	14289	162	3.9	86	136	1.19	.52	.50	.88	9.91	8.87	D
64	1427	373.21	80.0	2.81	4.21	90	5.5	1720	318.64	8.94	0.00	439	0	13.4	0.0	315	14421	164	3.9	85	135	1.20	.45	.43	.88	9.85	8.87	D
65	1428	375.25	84.7	1.93	3.42	98	5.5	1720	319.45	8.94	0.00	439	0	13.4	0.0	313	14564	166	3.9	66	134	1.22	.45	.43	.88	9.87	8.87	D
66	1430	377.14	66.6	2.12	3.29	99	7.7	1730	321.09	8.94	0.00	440	0	13.4	0.0	309	14727	168	3.9	82	133	1.24	.52	.49	.88	9.88	8.87	D
67	1434	379.14	33.0	2.23	2.81	100	5.6	1730	325.07	8.93	0.00	440	0	13.4	0.0	303	15093	170	4.0	330	133	1.29	.59	.57	.88	9.83	8.87	D
68	1436	381.15	42.7	3.14	3.89	101	5.3	1730	327.31	8.92	0.00	440	0	13.4	0.0	298	15375	172	4.0	155	133	1.33	.55	.53	.88	9.82	8.87	D
69	1445	383.17	71.6	3.04	4.30	84	2.5	1480	330.70	8.94	0.00	405	0	13.4	0.0	311	15534	174	4.1	73	133	1.34	.40	.38	.88	9.79	8.87	D
70	1446	385.18	81.1	3.08	4.50	105	8.8	1500	332.11	8.93	0.00	409	0	13.4	0.0	310	15686	176	4.1	65	132	1.36	.51	.48	.88	9.80	8.87	D
71	1448	387.14	56.1	3.22	4.20	108	7.3	1500	334.09	8.93	0.00	408	0	13.4	0.0	307	15905	178	4.1	102	131	1.39	.56	.53	.89	9.80	8.87	D
72	1450	389.19	60.9	2.26	3.33	107	7.9	1500	335.59	8.92	0.00	408	0	13.4	0.0	306	16121	180	4.2	85	131	1.42	.55	.52	.89	9.80	8.87	D
73	1458	391.16	70.6	1.89	3.13	107	6.7	1590	337.71	8.93	0.00	421	0	13.4	0.0	326	16341	182	4.2	78	131	1.45	.51	.48	.89	9.79	8.87	D
74	1501	393.15	38.5	1.79	2.47	101	5.8	1650	340.69	8.92	0.00	429	0	13.4	0.0	323	16652	184	4.3	180	130	1.49	.58	.55	.89	9.78	8.87	D
75	1506	395.14	23.6	1.88	2.29	101	5.1	1650	344.40	8.92	0.00	429	0	13.4	0.0	309	17161	186	4.3	229	131	1.55	.64	.62	.89	9.74	8.87	D
76	1514	397.16	15.7	2.34	2.62	101	6.6	1660	347.32	8.92	0.00	430	0	13.4	0.0	298	17940	188	4.5	313	133	1.65	.74	.70	.89	9.72	8.87	D
77	1517	399.18	37.3	1.60	2.25	101	8.3	1650	349.63	8.92	0.00	429	0	13.4	0.0	294	18259	190	4.5	144	134	1.68	.63	.59	.89	9.71	8.87	D
78	1524	401.15	58.9	2.80	3.83	93	4.5	1660	353.19	8.92	0.00	429	0	13.3	0.0	306	18450	192	4.6	87	133	1.70	.49	.46	.89	9.68	8.87	D
79	1527	403.17	40.2	2.81	3.72	89	8.5	1660	355.51	8.90	0.00	429	0	13.3	0.0	302	18716	194	4.6	111	133	1.73	.60	.57	.89	9.67	8.87	D
80	1529	396.01	54.8	1.98	3.62	89	8.7	1660	357.12	8.90	0.00	429	0	13.3	0.0	298	18909	187	4.6	91	133	1.75	.55	.52	.89	9.67	8.87	D
81	1532	398.03	50.4	2.86	3.74	89	8.4	1660	359.26	8.91	0.00	429	0	13.3	0.0	292	19120	189	4.7	99	132	1.77	.56	.53	.90	9.67	8.87	D
82	1540	400.06	49.6	1.93	2.80	90	7.9	1770	362.98	8.90	0.00	420	0	13.3	0.0	304	19301	191	4.7	109	132	1.79	.56	.53	.90	9.63	8.87	D
83	1543	402.01	59.9	2.37	3.42	91	5.5	1760	363.18	8.91	0.00	442	0	13.3	0.0	300	19473	193	4.7	92	131	1.81	.50	.47	.90	9.66	8.87	D
84	1545	404.00	53.5	2.29	3.23	88	7.8	1770	364.81	8.91	0.00	443	0	13.3	0.0	297	19670	195	4.8	95	131	1.82	.55	.51	.90	9.67	8.87	D
85	1556	416.05	63.3	1.08	1.17	87	10.3	1610	371.15	8.95	0.00	423	0	13.3	0.0	319	19735	207	4.8	79	131	1.83	.55	.51	.91	9.56	8.87	D
Drill to 1365 ft. POOH and run 20" casing to 1356 ft. Install BOP's and riser. (413.3m)																												
NB#2 SMITH DSJ 17.5". Drill to 1372 ft. Perform FIT and POOH to change bit. (418.2m)																												
Drill ahead with 12.25" pilot hole.																												
NB#3 SMITH SDT 12.25". Start depth 1372 ft. (418.2m)																												
Date Sep 10 '85																												
90	0216	418.51	46.2	1.19	2.35	85	2.1	2320	418.19	9.01	8.95	815	0	13.4	16.2	159	264	.26	.1	195	17026	.03	.55	.55	.92	9.05	8.77	D
91	0217	418.80	27.1	1.13	2.35	84	3.7	2320	418.19	9.01	8.95	815	0	13.4	16.2	153	307	.60	.1	145	8614	.04	.69	.69	.92	9.06	8.78	D
92	0217	419.18	41.4	1.13	2.35	84	2.0	2330	418.19	9.02	8.95	815	0	13.4	16.4	152	354	.91	.1	157	5044	.04	.55	.56	.92	9.07	8.77	D
93	0217	419.40	6.23	1.31	2.35	84	3.0	2320	418.19	9.02	8.95	814	0	13.4	16.4	148	369	1.22	.1	155	4480	.04	.91	.91	.92	9.07	8.77	D-
94	0218	419.75	22.5	1.43	2.35	81	2.0	2330	418.19	9.00	8.95	816	0	13.4	17.0	143	443	1.51	.1	273	3200	.05	.64	.65	.92	9.07	8.77	D
95	0219	420.01	17.9	1.45	2.35	81	2.0	2330	418.19	8.99	8.95	817	0	13.3	17.2	137	510	1.83	.1	262	2627	.06	.68	.68	.92	9.08	8.77	D-
96	0220	420.32	17.3	1.41	2.35	80	2.1	2340	418.19	8.98	8.95	817	0	13.3	17.4	129	598	2.13	.1	266	2269	.07	.69	.69	.92	9.08	8.77	D
97	0221	420.63	15.5	1.42	2.35	80	2.9	2340	418.19	8.98	8.95	817	0	13.3	17.6	121	693	2.42	.1	243	2039	.08	.74	.75	.92	9.08	8.78	D
98	0222	420.93	27.2	1.45	2.35	79	4.2	2330	418.19	8.97	8.95	817	0	13.3	17.6	116	741	2.74	.2	179	1821	.08	.69	.69	.92	9.09	8.77	D
99	0222	424.99	14.1	1.37	1.37	81	2.6	2340	418.19	8.97	8.95	817	0	13.3	17.6	115	761	6.79	.2	177	742	.08	.75	.75	.92	9.09	8.77	D-

AMOCO AUST. Tilana No.1

Data Printed at time 11:19 Date Oct 9 '85
Data Recorded at time 02:23 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
00	0223	425.20	17.7	1.45	2.35	81	3.9	2340	418.19	8.95	8.95	817	0	13.3	17.6	109	819	7.01	.2	242	730	.09	.76	.76	.92	9.17	8.78	D
01	0224	425.50	18.2	1.43	2.35	80	3.3	2330	418.19	8.96	8.95	819	0	13.2	18.2	102	898	7.29	.2	281	708	.10	.73	.73	.92	9.17	8.77	D
02	0224	425.83	29.2	1.34	2.35	81	3.3	2340	418.19	8.96	8.95	818	0	13.1	18.3	98	951	7.58	.2	200	688	.11	.65	.65	.92	9.17	8.78	D
03	0226	426.12	16.0	1.33	2.35	81	3.5	2340	418.19	8.95	8.95	818	0	13.1	18.2	97	1037	7.91	.2	332	672	.12	.76	.76	.92	9.17	8.78	D
04	0226	426.44	23.3	1.41	2.35	80	3.0	2340	418.19	8.52	8.95	820	0	13.1	18.2	109	1103	8.20	.2	213	656	.12	.67	.67	.92	9.17	8.78	D
05	0227	426.73	26.0	1.44	2.35	80	3.2	2350	418.19	8.53	8.95	819	0	13.2	18.1	119	1156	8.53	.2	167	637	.13	.66	.67	.92	9.18	8.78	D
06	0228	427.03	23.8	1.28	2.18	80	2.6	2340	418.19	8.49	8.95	819	0	13.2	17.7	129	1215	8.78	.2	193	626	.13	.66	.66	.92	9.15	8.78	D
07	0229	427.33	15.0	1.37	2.35	81	3.5	2340	418.19	8.59	8.95	820	0	13.2	17.7	141	1286	9.14	.3	250	610	.14	.77	.77	.92	9.14	8.78	D
08	0229	427.67	31.3	1.44	2.35	81	3.7	2340	418.19	8.64	8.95	820	0	13.2	17.8	151	1338	9.37	.3	153	601	.15	.65	.65	.92	9.14	8.78	D
09	0230	427.94	14.9	1.46	2.35	83	4.3	2340	418.19	8.64	8.95	819	0	13.2	17.8	162	1410	9.75	.3	256	586	.16	.80	.80	.92	9.13	8.78	D
10	0231	428.25	23.5	1.39	2.35	82	4.8	2350	418.19	8.77	8.95	820	0	13.2	17.8	175	1474	10.0	.3	238	577	.16	.74	.74	.92	9.12	8.79	D
11	0232	428.55	15.4	1.34	2.35	82	4.1	2350	418.19	8.86	8.95	820	0	13.2	17.7	188	1561	10.4	.3	310	565	.17	.79	.79	.92	9.11	8.79	D
12	0232	428.86	36.6	1.40	2.35	82	3.3	2350	418.19	8.86	8.95	820	0	13.2	17.7	195	1600	10.7	.3	127	553	.17	.62	.62	.92	9.11	8.79	D
13	0239	429.17	13.6	1.13	2.35	83	3.9	2390	418.25	9.04	8.95	821	0	12.7	16.7	274	1686	10.9	.3	421	548	.19	.81	.81	.92	9.09	8.79	D†
14	0240	429.46	39.6	1.02	2.35	83	3.9	2390	418.34	9.04	8.95	824	0	12.7	16.7	274	1686	11.2	.3	421	545	.19	.69	.69	.92	9.09	8.79	D†
15	0240	430.14	39.6	.97	2.35	83	3.9	2390	418.53	9.04	8.95	825	0	12.7	16.7	267	1686	11.8	.3	421	508	.19	.69	.69	.92	9.10	8.79	D†
16	0240	430.84	43.3	1.18	1.98	94	3.4	2380	418.88	9.01	8.95	827	0	12.7	16.6	262	1693	12.2	.3	17	493	.19	.61	.60	.92	9.10	8.79	D†
17	0241	431.34	88.5	1.08	2.15	86	5.0	2380	419.42	9.01	8.95	828	0	12.7	16.6	257	1720	13.0	.4	65	462	.19	.52	.51	.92	9.10	8.79	D
18	0241	431.66	39.6	1.28	2.35	82	6.8	2380	420.33	9.00	8.95	827	0	12.8	16.5	252	1757	13.3	.4	147	455	.19	.69	.69	.92	9.10	8.79	D
19	0241	431.92	24.6	1.39	2.35	79	7.5	2380	421.13	9.00	8.95	826	0	12.8	16.5	247	1797	13.6	.4	168	448	.20	.79	.79	.92	9.10	8.79	D
20	0242	432.21	30.0	1.47	2.35	81	6.4	2390	421.51	9.00	8.95	826	0	12.8	16.5	242	1843	14.0	.4	158	439	.20	.74	.74	.92	9.09	8.79	D
21	0242	432.54	50.2	1.33	2.35	79	7.5	2390	421.89	8.98	8.95	826	0	12.8	16.5	238	1873	14.3	.4	110	433	.21	.65	.65	.92	9.08	8.79	D
22	0243	432.83	33.2	1.44	2.35	79	6.8	2380	422.28	8.98	8.95	826	0	12.8	16.5	234	1906	14.6	.4	100	426	.21	.72	.72	.92	9.08	8.79	D
23	0243	433.12	29.2	1.33	2.35	80	6.7	2380	422.43	8.98	8.95	826	0	12.8	16.5	230	1955	14.9	.4	172	420	.21	.75	.74	.92	9.08	8.79	D
24	0244	433.44	28.1	1.44	2.35	81	6.0	2380	422.92	8.98	8.95	825	0	12.8	16.6	224	2010	15.2	.4	170	416	.22	.74	.74	.92	9.08	8.79	D
25	0245	433.74	32.0	1.27	2.35	80	5.7	2390	423.28	8.99	8.95	826	0	13.0	16.7	219	2053	15.5	.4	145	411	.23	.71	.70	.92	9.08	8.79	D
26	0245	434.06	38.9	1.39	2.35	80	6.9	2380	423.63	8.98	8.95	826	0	13.1	16.8	215	2092	15.8	.4	207	410	.23	.70	.69	.92	9.08	8.79	D
27	0246	434.34	21.0	1.40	2.35	79	6.4	2380	424.30	9.00	8.95	826	0	13.1	16.8	207	2155	16.2	.4	196	402	.23	.80	.80	.92	9.07	8.79	D
28	0247	434.70	25.9	1.36	2.35	82	5.8	2390	424.44	8.98	8.95	827	0	13.1	16.8	201	2221	16.5	.5	247	399	.24	.75	.75	.92	9.07	8.80	D
29	0247	434.99	28.5	1.43	2.35	81	8.3	2390	424.59	8.98	8.95	827	0	13.2	16.8	200	2269	16.8	.5	161	394	.25	.79	.78	.92	9.08	8.81	D
30	0248	435.26	19.1	1.41	2.35	81	6.7	2380	424.87	9.01	8.95	827	0	13.1	16.8	202	2329	17.0	.5	234	392	.25	.83	.83	.92	9.08	8.81	D
31	0249	435.58	22.4	1.43	2.35	81	6.3	2390	425.24	9.01	8.95	827	0	13.1	16.7	203	2392	17.4	.5	196	388	.26	.79	.79	.92	9.07	8.81	D
32	0249	435.87	49.1	1.39	2.35	81	5.9	2390	425.31	9.01	8.95	827	0	13.1	16.7	205	2420	17.7	.5	106	384	.26	.63	.63	.92	9.08	8.81	D
33	0250	436.22	48.6	1.24	2.35	81	5.1	2410	425.42	8.99	8.95	827	0	13.1	16.8	206	2454	17.9	.5	122	380	.27	.62	.61	.92	9.08	8.81	D
34	0250	436.48	25.9	1.34	2.35	80	6.3	2410	425.63	8.99	8.95	829	0	13.1	16.8	206	2495	18.3	.5	149	376	.27	.76	.76	.92	9.09	8.82	D
35	0251	436.78	19.0	1.39	2.35	81	7.4	2390	426.03	8.97	8.93	828	0	13.1	16.8	206	2570	18.6	.5	239	373	.28	.85	.84	.92	9.09	8.82	D
36	0251	437.08	44.9	1.40	2.35	81	7.0	2390	426.18	8.97	8.93	827	0	13.1	16.8	208	2602	18.9	.5	136	371	.28	.67	.67	.92	9.09	8.82	D
37	0252	437.39	23.2	1.32	2.35	80	7.2	2400	426.49	8.99	9.00	827	0	13.1	16.8	210	2664	19.2	.5	210	367	.29	.80	.80	.92	9.11	8.82	D
38	0253	437.69	24.6	1.46	2.35	81	6.3	2390	426.74	8.97	8.96	827	0	13.1	16.8	211	2722	19.5	.6	196	363	.29	.77	.76	.92	9.13	8.83	D
39	0254	438.00	29.1	1.37	1.47	81	6.4	2390	426.99	8.97	8.94	827	0	13.1	16.7	213	2772	19.8	.6	189	361	.30	.74	.73	.92	9.14	8.82	D
40	0254	438.33	21.4	1.30	2.35	81	5.8	2390	427.34	8.98	8.93	826	0	13.1	16.7	214	2845	20.1	.6	280	360	.30	.78	.77	.92	9.16	8.83	D
41	0302	438.63	26.1	.96	2.35	82	4.8	2420	428.39	8.97	8.91	811	0	12.7	16.5	265	2927	20.4	.6	213	358	.31	.72	.71	.92	9.18	8.82	D†
42	0302	439.04	107	1.01	1.01	87	1.4	2410	428.39	8.97	8.91	819	0	12.7	16.5	265	2935	20.7	.6	120	354	.31	.41	.41	.92	9.18	8.83	D
43	0302	439.54	106	1.10	2.35	87	2.3	2420	428.39	8.97	8.91	825	0	12.7	16.5	263	2954	21.3	.6	42	347	.32	.42	.42	.92	9.20	8.82	D
44	0303	439.89	118	1.25	1.43	84	2.0	2410	428.39	8.97	8.91	828	0	12.7	16.5	263	2967	21.7	.6	26	338	.32	.39	.39	.92	9.20	8.83	D
45	0303	440.30	105	1.37	1.44	81	3.0	2420	428.39	8.98	8.94	829	0	12.7	16.2	263	2986	22.1	.6	40	333	.32	.43	.43	.92	9.20	8.82	D
46	0303	440.89	162	1.48	2.35	81	2.9	2410	428.39	8.98	8.94	830	0	12.7	16.2	261	3003	22.7	.6	33	325	.32	.35	.35	.92	9.22	8.83	D
47	0304	441.44	23.5	1.50	1.85	80	6.2	2410	428.71	8.98	8.91	831	0	12.7	16.1	259	3117	23.1	.6	150	324	.33	.76	.76	.92	9.24	8.84	D
48	0305	441.97	42.1	1.45	2.35	80	5.9	2410	429.53	8.97	8.87	831	0	12.7	16.0	258	3163	23.8	.6	107	318	.34	.65	.64	.92	9.24	8.83	D
49	0306	442.27	29.0	1.43	1.35	80	5.0	2410	430.54	8.97	8.80	831	0	12.7	16.0	258	3211	24.1	.7	181	316	.34	.69	.69	.92	9.23	8.83	D

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
150	0306	442.58	57.8	1.45	2.15	79	6.9	2410	430.81	8.97	8.80	831	0	12.7	16.0	258	3236	24.3	.7	98	314	.34	.61	.60	.92	9.23	8.83	D
151	0306	442.88	35.1	1.32	2.35	81	6.4	2410	431.15	8.96	8.79	831	0	12.7	16.1	258	3273	24.7	.7	124	311	.35	.70	.69	.92	9.23	8.83	D
152	0307	443.18	38.2	1.48	2.35	80	5.9	2420	431.34	8.96	8.79	831	0	12.7	16.1	257	3307	25.0	.7	110	309	.35	.67	.66	.92	9.22	8.83	D
153	0308	443.81	35.8	1.48	2.35	80	6.9	2410	431.86	8.95	8.77	832	0	12.7	16.3	256	3370	25.6	.7	146	304	.35	.70	.70	.92	9.23	8.83	D
154	0308	444.10	36.3	1.42	2.35	80	6.7	2410	432.18	8.96	8.82	831	0	12.7	16.4	257	3407	25.9	.7	122	302	.36	.69	.69	.92	9.22	8.83	D
155	0309	444.40	18.3	1.42	2.35	81	6.6	2410	432.58	8.95	8.90	831	0	12.7	16.5	256	3478	26.2	.7	245	301	.37	.82	.82	.92	9.22	8.83	D
156	0310	444.71	20.3	1.45	2.35	80	5.8	2420	432.98	8.96	8.92	831	0	12.7	16.5	257	3538	26.5	.7	219	300	.37	.78	.78	.92	9.22	8.84	D
157	0310	445.07	64.0	1.21	2.35	80	4.8	2420	433.19	8.96	8.92	831	0	12.7	16.5	256	3565	26.8	.7	108	299	.37	.55	.55	.92	9.22	8.83	D
158	0312	445.36	9.06	1.41	2.35	79	5.8	2420	433.83	8.97	8.83	831	0	12.7	16.5	256	3693	27.1	.8	962	300	.39	.92	.92	.92	9.21	8.84	D
159	0312	445.62	40.0	1.46	2.35	80	8.1	2420	433.98	8.97	8.95	831	0	12.7	16.5	257	3717	27.4	.8	353	298	.39	.70	.70	.92	9.21	8.83	D
160	0312	445.94	80.7	1.32	2.35	81	6.8	2420	434.12	8.97	8.95	831	0	12.7	16.5	256	3735	27.7	.8	84	296	.39	.55	.54	.92	9.21	8.84	D
161	0313	446.24	19.1	1.37	2.35	80	5.3	2420	434.52	8.97	8.98	832	0	12.7	16.5	256	3809	28.0	.8	258	295	.40	.78	.77	.92	9.21	8.84	D
162	0315	446.53	10.7	1.24	2.35	82	5.2	2420	435.29	8.96	8.96	832	0	12.7	16.5	256	3941	28.3	.8	445	296	.41	.88	.88	.92	9.21	8.84	D
163	0316	446.84	23.3	1.37	2.35	81	5.3	2420	435.82	8.95	8.97	833	0	12.7	16.5	255	4006	28.7	.8	230	295	.41	.75	.74	.92	9.20	8.85	D
164	0326	447.16	6.11	1.14	2.35	74	3.5	2410	437.77	8.94	8.92	519	0	12.7	16.4	274	4384	28.9	.9	8831	309	.45	.90	.90	.92	9.15	8.86	D†
165	0326	447.62	240	1.05	2.35	75	1.3	2410	437.81	8.94	8.92	608	0	12.7	16.4	272	4392	29.0	.9	855	308	.45	.25	.24	.92	9.15	8.85	D
166	0326	448.06	164	.87	2.35	96	1.8	2420	437.85	8.94	8.92	677	0	12.7	16.4	271	4402	29.7	.9	43	301	.45	.35	.35	.92	9.17	8.86	D†
167	0326	448.56	240	.92	2.35	100	1.5	2420	437.88	8.93	9.01	727	0	12.7	16.3	270	4414	30.1	.9	48	297	.45	.29	.29	.92	9.17	8.85	D
168	0327	449.00	56.9	1.08	2.35	98	5.4	2420	437.88	8.93	9.01	795	0	12.7	16.3	267	4453	30.8	.9	73	292	.45	.62	.61	.92	9.19	8.86	D
169	0327	449.29	81.6	1.08	2.35	93	7.7	2420	437.88	8.93	9.01	812	0	12.7	16.3	266	4472	31.1	.9	57	292	.45	.59	.58	.92	9.20	8.85	D
170	0327	449.58	89.9	1.02	2.35	94	6.1	2410	437.88	8.93	9.00	819	0	12.7	16.1	266	4489	31.3	.9	70	289	.45	.55	.54	.92	9.20	8.85	D
171	0328	449.90	19.8	1.09	2.35	96	5.3	2410	437.90	8.93	9.00	830	0	12.7	15.9	264	4577	31.7	1.0	228	287	.46	.80	.80	.92	9.21	8.86	D
172	0329	450.23	47.4	.97	2.35	96	7.1	2410	437.94	8.93	9.00	831	0	12.7	15.9	261	4615	32.0	1.0	128	286	.46	.69	.68	.92	9.21	8.85	D
173	0329	450.58	44.6	.94	2.35	98	4.3	2420	438.37	8.92	9.00	831	0	12.7	15.9	261	4657	32.3	1.0	171	284	.47	.64	.63	.92	9.21	8.86	D
174	0330	450.80	11.3	.90	2.35	99	4.0	2420	439.94	8.93	8.92	832	0	12.8	16.0	259	4759	32.6	1.0	303	284	.48	.87	.86	.92	9.19	8.86	D
175	0330	451.10	40.1	1.14	2.35	97	4.2	2420	440.30	8.93	8.92	833	0	12.8	16.0	259	4803	32.9	1.0	137	283	.49	.65	.65	.92	9.18	8.86	D
176	0331	451.43	129	1.01	1.16	95	6.0	2410	440.43	8.91	8.91	832	0	12.7	16.1	259	4817	33.2	1.0	45	280	.49	.48	.47	.92	9.18	8.86	D
177	0331	451.78	24.2	1.02	2.35	96	5.3	2420	441.10	8.91	8.91	832	0	12.7	16.1	258	4901	33.5	1.0	196	280	.50	.77	.76	.92	9.18	8.87	D
178	0333	452.07	15.3	1.02	2.35	98	5.8	2420	441.74	8.95	8.79	834	0	12.7	16.3	258	5003	33.8	1.0	401	280	.51	.87	.86	.92	9.17	8.87	D
179	0333	452.42	44.6	1.05	2.35	96	7.4	2420	441.99	8.93	8.95	833	0	12.8	16.6	259	5045	34.1	1.0	115	279	.51	.71	.69	.92	9.17	8.87	D
180	0334	452.98	42.6	.99	2.35	96	5.8	2420	442.47	8.94	8.99	833	0	12.7	16.6	259	5112	34.7	1.0	132	276	.52	.68	.67	.92	9.17	8.87	D
181	0334	453.24	27.2	1.31	2.35	92	6.7	2410	442.84	8.94	8.99	833	0	12.7	16.6	258	5161	35.0	1.1	185	275	.52	.78	.77	.92	9.17	8.88	D
182	0335	453.59	24.1	1.30	2.35	90	5.4	2420	443.31	8.93	9.01	833	0	12.7	16.6	258	5233	35.4	1.1	209	274	.53	.76	.75	.92	9.16	8.88	D
183	0336	453.85	15.9	1.54	2.35	89	6.8	2420	443.74	8.95	9.03	833	0	12.7	16.6	258	5311	35.7	1.1	278	274	.54	.88	.87	.92	9.16	8.89	D
184	0336	454.18	37.4	1.53	2.35	88	6.6	2420	443.97	8.95	9.10	833	0	12.7	16.7	258	5357	36.0	1.1	150	273	.54	.71	.70	.92	9.16	8.88	D
185	0337	454.50	31.1	1.59	2.35	89	6.8	2410	444.24	8.93	9.14	833	0	12.7	16.6	258	5410	36.2	1.1	126	272	.55	.75	.74	.92	9.16	8.89	D
186	0338	455.08	42.1	1.52	2.35	90	6.0	2420	444.50	8.93	9.14	833	0	12.7	16.6	256	5470	36.8	1.1	83	269	.55	.68	.67	.92	9.16	8.88	D
187	0339	455.37	16.2	1.24	2.35	90	5.4	2420	444.71	8.93	9.14	833	0	12.7	16.6	257	5552	37.1	1.1	242	269	.56	.84	.83	.92	9.17	8.89	D
188	0344	455.74	10.0	.04	.04	90	4.8	2230	445.71	8.94	8.96	311	0	12.7	16.6	271	5667	37.5	1.1	489	269	.57	.91	.90	.92	9.13	8.89	DX
189	0344	456.32	64.9	.94	.94	90	5.0	2420	445.76	8.97	8.91	499	0	12.7	16.6	269	5670	38.0	1.1	489	266	.57	.62	.61	.92	9.14	8.89	D†
190	0344	457.82	422	.95	.95	99	3.7	2420	445.79	8.97	8.91	586	0	12.7	16.6	265	5689	39.6	1.1	11	256	.57	.25	.23	.92	9.14	8.89	D†
191	0344	458.20	65.0	1.17	1.17	96	6.6	2420	445.86	8.97	8.91	711	0	12.7	16.6	264	5723	39.9	1.2	93	255	.58	.62	.61	.93	9.18	8.89	D
192	0345	458.42	53.7	1.64	1.64	87	7.8	2410	445.91	8.97	8.91	766	0	12.7	16.6	260	5745	40.2	1.2	67	253	.58	.66	.65	.93	9.19	8.89	D
193	0345	458.75	68.2	1.64	1.64	87	7.9	2410	445.99	8.96	8.95	804	0	12.8	16.4	259	5769	40.5	1.2	93	253	.58	.61	.60	.93	9.19	8.89	D
194	0346	459.07	28.1	1.52	1.52	87	8.1	2410	446.17	8.96	8.95	827	0	12.8	16.4	254	5830	40.8	1.2	179	251	.58	.79	.78	.93	9.20	8.89	D
195	0346	459.34	84.0	1.60	1.60	88	8.7	2410	446.21	8.97	8.97	829	0	12.8	16.3	253	5846	41.1	1.2	150	251	.59	.59	.57	.93	9.20	8.89	D
196	0347	459.66	15.6	1.67	1.67	95	6.0	2420	446.35	8.96	9.01	831	0	12.8	16.2	249	5964	41.4	1.2	309	250	.60	.87	.86	.93	9.20	8.89	D
197	0348	459.95	14.0	1.34	1.34	98	3.6	2410	446.35	8.95	9.01	833	0	12.8	16.1	247	6062	41.7	1.2	530	252	.61	.81	.80	.93	9.21	8.90	D
198	0349	460.36	21.8	1.44	1.44	98	6.3	2410	446.35	8.93	8.98	833	0	12.8	16.1	245	6172	42.1	1.2	132	251	.62	.82	.80	.92	9.21	8.90	D
199	0350	460.65	23.4	1.54	1.54	98	6.1	2420	446.42	8.96	9.00	833	0	12.8	16.4	245	6244	42.4	1.2	206	251	.63	.80	.79	.92	9.22	8.91	D

AMOCO AUST. Tilana No.1 329073

Data Printed at time 11:27 Date Oct 9 '85
Data Recorded at time 03:52 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
200	0352	461.18	18.8	1.75	1.75	98	6.2	2410	448.94	8.97	8.74	833	Ø	12.8	17.6	242	6400	43.0	1.3	298	250	.64	.84	.83	.92	9.19	8.92	D
201	0352	461.47	36.6	1.44	1.44	98	8.1	2410	449.17	8.97	8.74	832	Ø	12.8	17.6	241	6437	43.3	1.3	124	249	.65	.76	.75	.92	9.19	8.92	D
202	0352	461.82	42.3	1.70	1.70	98	8.4	2410	449.39	8.97	8.74	833	Ø	12.8	17.6	241	6485	43.6	1.3	147	249	.65	.74	.72	.92	9.19	8.92	D
203	0353	462.08	20.1	1.62	1.62	98	7.4	2420	449.81	8.95	8.70	833	Ø	12.8	17.4	240	6543	43.9	1.3	162	248	.66	.86	.85	.92	9.19	8.92	D
204	0354	462.44	35.0	1.40	1.40	98	7.2	2410	450.00	8.96	8.61	833	Ø	12.8	17.3	241	6603	44.2	1.3	264	248	.66	.75	.74	.92	9.19	8.92	D
205	0355	462.70	15.7	1.34	1.34	99	6.9	2420	450.37	8.98	8.57	833	Ø	12.8	17.1	238	6698	44.5	1.3	265	248	.67	.90	.88	.92	9.19	8.92	D
206	0355	462.99	20.7	1.49	1.49	98	6.5	2420	450.89	8.97	8.77	833	Ø	12.8	16.6	238	6780	44.7	1.3	319	248	.68	.84	.82	.92	9.19	8.93	D
207	0356	463.30	26.5	1.79	1.79	98	7.7	2420	451.23	8.96	8.82	833	Ø	12.8	16.4	237	6847	45.1	1.3	184	247	.68	.82	.80	.92	9.18	8.93	D
208	0357	463.61	23.4	1.42	1.42	99	6.7	2420	451.56	8.97	8.80	833	Ø	12.8	16.5	237	6923	45.4	1.4	214	247	.69	.82	.80	.92	9.19	8.94	D
209	0358	463.93	23.1	1.45	1.45	98	8.5	2420	452.04	8.95	8.84	833	Ø	12.8	16.5	236	6990	45.7	1.4	174	246	.70	.86	.84	.92	9.19	8.94	D
210	0358	464.22	32.4	1.54	1.54	98	7.4	2420	452.32	8.95	8.84	833	Ø	12.8	16.5	237	7032	45.9	1.4	125	246	.70	.77	.75	.92	9.19	8.94	D
211	0359	464.54	17.3	1.39	1.39	98	5.8	2420	452.83	8.95	8.82	834	Ø	12.8	16.4	235	7132	46.3	1.4	311	246	.71	.85	.84	.92	9.18	8.95	D
212	0610	466.79	135	1.03	1.03	90	5.1	2400	458.95	8.85	9.00	715	Ø	12.7	12.7	244	7350	48.6	1.5	14	240	.73	.45	.44	.92	9.11	8.95	FD
213	0610	467.28	119	1.09	1.09	95	4.2	2400	458.97	8.85	9.00	767	Ø	12.7	12.7	244	7374	49.1	1.5	51	239	.73	.46	.45	.92	9.13	8.95	D
214	0610	467.61	175	1.04	1.04	93	5.5	2410	458.98	8.85	9.00	778	Ø	12.7	12.7	243	7383	49.4	1.5	25	237	.73	.42	.40	.92	9.13	8.95	D
215	0610	467.90	97.6	1.09	1.09	95	6.1	2400	459.00	8.85	9.00	796	Ø	12.7	12.7	242	7397	49.6	1.5	40	237	.73	.54	.52	.92	9.13	8.95	D
216	0610	468.19	41.2	1.26	1.26	91	9.8	2400	459.04	8.85	9.00	817	Ø	12.7	12.7	238	7433	49.9	1.5	111	236	.74	.76	.74	.92	9.15	8.96	D
217	0611	468.48	42.1	1.16	1.16	90	11.3	2400	459.08	8.85	9.04	823	Ø	12.7	12.8	236	7469	50.3	1.5	107	234	.74	.77	.76	.92	9.16	8.96	D
218	0611	468.80	28.7	1.27	1.27	91	10.0	2400	459.15	8.85	9.04	826	Ø	12.7	12.8	233	7520	50.6	1.5	189	234	.74	.83	.82	.92	9.16	8.97	D
219	0612	469.13	35.1	1.66	1.66	89	11.0	2400	459.25	8.82	8.99	828	Ø	12.7	13.2	228	7560	50.9	1.5	130	233	.75	.80	.79	.92	9.16	8.97	D
220	0612	469.42	29.1	1.31	1.31	87	9.8	2400	459.40	8.82	8.99	828	Ø	12.7	13.2	227	7611	51.2	1.5	172	233	.75	.82	.80	.92	9.17	8.97	D
221	0613	469.71	23.4	1.36	1.36	88	9.1	2400	459.52	8.82	9.01	827	Ø	12.7	14.0	221	7664	51.5	1.5	179	232	.76	.85	.83	.92	9.17	8.98	D
222	0614	470.00	27.1	1.59	1.59	88	8.7	2400	459.62	8.85	9.03	828	Ø	12.9	15.1	217	7719	51.8	1.5	174	232	.76	.81	.80	.92	9.17	8.98	D
223	0614	470.32	183	1.47	1.47	87	11.1	2410	459.63	8.85	9.03	828	Ø	12.9	15.1	216	7725	52.1	1.5	174	232	.76	.45	.44	.92	9.17	8.98	D
224	0614	470.62	21.8	1.57	1.57	87	9.5	2390	459.77	8.86	9.01	829	Ø	13.0	15.7	210	7795	52.4	1.5	217	231	.77	.87	.85	.92	9.17	8.98	D
225	0615	470.92	43.2	1.50	1.50	87	10.3	2400	459.85	8.86	9.01	829	Ø	13.0	15.7	206	7828	52.7	1.5	108	230	.77	.74	.73	.92	9.18	8.98	D
226	0616	471.44	42.0	1.36	1.36	87	8.9	2400	460.06	8.82	9.03	829	Ø	13.0	16.1	202	7891	53.0	1.6	210	230	.77	.73	.71	.92	9.17	8.98	D
227	0617	471.88	24.0	1.47	1.47	86	9.3	2400	460.35	8.84	9.01	829	Ø	13.1	16.4	195	7979	53.6	1.6	267	229	.78	.84	.83	.92	9.17	8.99	D
228	0617	472.14	56.5	1.56	1.56	87	11.0	2410	460.40	8.83	8.93	829	Ø	13.0	16.5	193	8001	53.9	1.6	80	228	.79	.70	.68	.92	9.17	8.98	D
229	0617	472.44	31.9	1.61	1.61	87	10.4	2400	460.47	8.83	8.93	830	Ø	13.0	16.5	189	8051	54.2	1.6	153	228	.79	.81	.79	.92	9.18	8.99	D
230	0618	472.78	37.4	1.35	1.35	87	9.8	2410	460.55	8.83	8.98	830	Ø	13.0	16.6	186	8097	54.6	1.6	137	227	.79	.77	.75	.92	9.18	8.99	D
231	0618	473.06	33.6	1.59	1.59	88	10.7	2400	460.64	8.83	8.98	830	Ø	13.0	16.6	187	8139	54.9	1.6	176	227	.80	.80	.78	.92	9.18	9.00	D
232	0619	473.36	82.0	1.43	1.43	87	9.5	2410	460.67	8.83	9.02	830	Ø	13.0	16.7	187	8157	55.2	1.6	59	226	.80	.60	.58	.92	9.18	8.99	D
233	0619	473.66	30.0	1.48	1.48	88	10.3	2410	460.79	8.83	9.02	831	Ø	13.0	16.7	187	8209	55.4	1.6	160	226	.80	.82	.80	.92	9.18	9.00	D
234	0620	474.01	42.9	1.54	1.54	88	10.3	2410	460.91	8.81	9.01	831	Ø	13.0	16.8	186	8248	55.8	1.6	117	225	.80	.75	.73	.92	9.19	8.99	D
235	0620	474.28	46.4	1.58	1.58	88	11.5	2410	460.97	8.81	9.01	831	Ø	13.0	16.8	187	8272	56.1	1.6	91	224	.81	.75	.73	.92	9.19	9.00	D
236	0621	474.58	28.4	1.43	1.43	90	9.5	2410	461.11	8.82	9.03	830	Ø	13.0	16.9	187	8328	56.4	1.6	170	224	.81	.82	.80	.92	9.19	9.00	D
237	0634	475.02	36.0	.34	.34	87	8.5	2390	461.51	8.84	8.93	348	Ø	12.4	16.7	270	8355	56.6	1.6	105	223	.82	.76	.74	.92	9.12	8.70	D†
238	0634	475.50	99.5	1.04	1.04	53	5.0	2430	461.51	8.84	8.93	557	Ø	12.4	16.7	267	8368	57.3	1.6	154	221	.82	.41	.40	.92	9.13	8.70	D†
239	0634	475.84	165	1.04	1.04	95	3.0	2430	461.51	8.84	8.93	600	Ø	12.4	16.7	265	8379	57.4	1.6	143	221	.82	.38	.37	.92	9.13	8.70	D
240	0634	476.42	152	1.01	1.01	95	3.5	2450	461.52	8.84	8.93	698	Ø	12.4	16.7	263	8396	58.2	1.6	35	219	.82	.41	.39	.92	9.15	8.70	D
241	0634	476.72	105	1.06	1.06	95	4.7	2510	461.52	8.84	8.93	722	Ø	12.4	16.7	263	8410	58.4	1.6	46	218	.82	.50	.48	.92	9.15	8.70	D
242	0635	477.03	50.6	1.19	1.19	94	7.9	2510	461.52	8.82	8.86	782	Ø	12.4	16.5	262	8436	58.8	1.7	67	217	.82	.69	.67	.92	9.17	8.70	D
243	0635	477.33	27.6	1.50	1.50	89	9.9	2500	461.60	8.83	8.83	819	Ø	12.4	16.4	258	8492	59.1	1.7	167	216	.83	.83	.81	.92	9.18	8.70	D
244	0636	477.62	29.1	1.45	1.45	87	8.8	2500	463.24	8.83	8.83	827	Ø	12.4	16.4	256	8534	59.4	1.7	251	216	.83	.80	.78	.92	9.15	8.70	D
245	0637	477.95	33.5	1.55	1.55	88	7.5	2500	465.39	8.81	8.79	839	Ø	12.5	16.4	253	8605	59.7	1.7	230	216	.83	.83	.80	.92	9.13	8.70	D
246	0637	478.24	24.2	1.62	1.62	90	8.8	2500	465.39	8.81	8.79	827	Ø	12.5	16.4	251	8655	60.0	1.7	280	216	.84	.85	.83	.92	9.12	8.70	D
247	0638	478.88	67.7	1.50	1.50	90	11.4	2490	465.72	8.84	8.78	820	Ø	12.5	16.4	251	8700	60.6	1.7	75	214	.84	.68	.66	.92	9.12	8.70	D
248	0638	479.17	36.5	1.63	1.63	90	8.8	2490	466.40	8.84	8.78	825	Ø	12.5	16.4	250	8741	60.9	1.7	140	214	.85	.77	.75	.92	9.11	8.70	D
249	0639	479.50	28.8	1.39	1.39	91	8.2	2500	467.18	8.84	8.78	829	Ø	12.5	16.4	248	8800	61.2	1.7	186	214	.85	.80	.78	.92	9.10	8.70	D

AMOCO AUST. Tilana No.1 329074

Data Printed at time 11:30 Date Oct 9 '85
Data Recorded at time 06:39 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
250	0639	479.76	54.4	1.66	1.66	90	8.6	2500	467.63	8.84	8.78	830	0	12.5	16.4	249	8825	61.6	1.7	120	213	.85	.68	.66	.92	9.10	8.70	D
251	0640	480.11	28.0	1.66	1.66	90	8.7	2490	468.18	8.83	8.80	831	0	12.5	16.6	247	8893	61.9	1.7	205	213	.86	.82	.80	.92	9.09	8.70	D
252	0641	480.40	24.4	1.68	1.68	91	8.5	2500	468.63	8.81	8.93	831	0	12.5	16.8	246	8957	62.1	1.8	177	213	.86	.84	.82	.92	9.08	8.70	D
253	0642	480.98	27.5	1.52	1.52	90	9.3	2490	469.26	8.81	8.88	831	0	12.5	16.9	245	9054	62.8	1.8	239	213	.87	.83	.81	.92	9.07	8.70	D
254	0642	481.31	24.2	1.47	1.47	91	8.2	2500	469.84	8.84	8.80	832	0	12.5	16.9	244	9126	63.1	1.8	221	212	.88	.84	.82	.92	9.07	8.70	D
255	0643	481.60	28.4	1.52	1.52	90	9.5	2500	470.14	8.83	8.92	832	0	12.5	16.8	245	9165	63.4	1.8	167	212	.88	.83	.81	.92	9.07	8.70	D
256	0643	481.89	56.9	1.70	1.70	91	8.9	2500	470.27	8.83	8.92	833	0	12.5	16.8	244	9193	63.7	1.8	104	212	.88	.68	.66	.92	9.07	8.70	D
257	0644	482.20	16.3	1.51	1.51	91	8.8	2490	470.89	8.83	8.96	833	0	12.5	16.8	244	9288	64.0	1.8	251	211	.89	.93	.91	.92	9.06	8.70	D
258	0645	482.51	17.3	1.48	1.48	90	8.4	2480	471.50	8.83	9.06	832	0	12.5	16.7	242	9380	64.3	1.8	284	212	.90	.91	.89	.92	9.06	8.70	D
259	0646	482.83	37.6	1.42	1.42	92	7.6	2480	471.80	8.84	9.07	832	0	12.5	16.7	244	9423	64.6	1.8	228	212	.90	.74	.72	.92	9.06	8.70	D
260	0647	483.15	22.0	1.51	1.51	92	8.1	2480	472.29	8.84	9.07	833	0	12.5	16.7	244	9500	64.9	1.9	215	212	.91	.86	.84	.92	9.06	8.70	D
261	0647	483.41	24.3	1.52	1.52	90	10.2	2480	472.62	8.83	9.14	833	0	12.5	16.7	243	9546	65.2	1.9	158	211	.91	.88	.86	.92	9.05	8.70	D
262	0648	483.74	29.6	1.53	1.53	92	8.0	2490	473.09	8.83	9.14	834	0	12.5	16.7	242	9605	65.5	1.9	214	211	.92	.80	.78	.92	9.05	8.70	D
263	0648	484.12	49.6	1.45	1.45	90	6.8	2480	473.40	8.81	9.17	834	0	12.5	16.7	241	9646	65.8	1.9	103	211	.92	.67	.65	.92	9.05	8.70	D
266	0655	485.33	48.0	.91	1.26	92	8.6	2420	474.43	8.82	9.08	768	0	12.5	16.6	261	9772	67.0	1.9	634	209	.93	.71	.70	.92	9.04	8.70	D†
267	0655	485.91	32.9	1.25	1.33	97	7.6	2420	474.43	8.83	9.15	809	0	12.5	16.4	258	9814	67.6	1.9	100	208	.94	.75	.72	.92	9.05	8.70	D
268	0656	486.24	39.1	1.93	2.14	96	6.9	2420	474.43	8.83	9.15	817	0	12.5	16.4	257	9831	67.9	1.9	35	207	.94	.69	.65	.92	9.05	8.70	D
269	0656	486.85	41.2	1.89	1.89	94	6.2	2420	474.43	8.83	9.14	828	0	12.5	16.2	255	9903	68.6	1.9	184	206	.94	.70	.68	.92	9.08	8.70	D
270	0657	487.08	16.3	1.39	1.39	89	7.5	2410	474.43	8.82	9.08	830	0	12.5	16.1	253	9975	68.9	1.9	249	206	.95	.90	.88	.92	9.08	8.70	D
271	0658	487.41	23.3	1.54	1.54	87	8.7	2420	474.43	8.82	9.00	830	0	12.5	16.1	250	10046	69.2	2.0	301	206	.95	.85	.83	.92	9.08	8.70	D
272	0658	487.70	46.1	1.46	1.46	87	8.0	2530	474.43	8.82	9.00	830	0	12.5	16.1	250	10069	69.5	2.0	124	206	.95	.70	.68	.92	9.09	8.70	D
273	0659	487.99	23.0	1.51	1.51	89	10.1	2550	474.57	8.82	8.93	845	0	12.5	16.1	248	10134	69.8	2.0	184	205	.96	.88	.86	.92	9.10	8.70	D
274	0700	488.34	26.8	1.65	1.65	93	8.8	2570	475.14	8.82	8.91	854	0	12.5	16.3	247	10206	70.1	2.0	274	206	.97	.83	.81	.92	9.09	8.70	D
275	0701	488.61	15.3	1.43	1.43	92	9.1	2600	476.85	8.82	8.84	855	0	12.5	16.8	247	10291	70.4	2.0	273	206	.97	.95	.93	.92	9.08	8.70	D
276	0701	488.93	36.9	1.54	1.54	93	7.7	2610	477.11	8.82	8.84	858	0	12.5	16.8	245	10339	70.7	2.0	229	206	.98	.75	.73	.92	9.07	8.70	D
277	0702	489.22	12.9	1.37	1.37	94	8.2	2610	477.79	8.81	8.79	864	0	12.5	16.6	244	10462	71.0	2.0	362	206	.99	.97	.95	.92	9.06	8.70	D
278	0703	489.66	97.2	1.41	1.41	94	8.1	2610	477.89	8.80	8.90	864	0	12.5	16.2	243	10482	71.3	2.0	97	206	.99	.57	.55	.92	9.06	8.70	D
279	0705	490.13	12.5	1.57	1.57	94	8.5	2620	479.37	8.80	8.94	864	0	12.5	16.3	242	10685	71.9	2.1	258	206	1.01	.99	.96	.92	9.05	8.70	D
280	0706	490.48	26.9	1.33	1.33	94	8.1	2630	479.83	8.83	9.07	865	0	12.5	16.4	240	10752	72.2	2.1	223	206	1.01	.82	.80	.92	9.05	8.70	D
281	0706	490.74	16.7	1.56	1.56	93	7.7	2540	480.31	8.80	9.05	864	0	12.5	16.4	241	10837	72.5	2.1	254	206	1.02	.91	.89	.92	9.05	8.70	D
282	0708	491.34	26.3	1.50	1.50	92	8.7	2410	480.80	8.81	9.27	835	0	12.5	16.5	240	10939	73.1	2.1	99	206	1.03	.84	.82	.92	9.04	8.70	D
283	0708	491.68	28.3	1.45	1.45	91	9.4	2410	481.21	8.82	9.23	828	0	12.5	16.5	240	11002	73.4	2.1	190	206	1.03	.84	.81	.92	9.05	8.70	D
284	0709	492.00	18.5	1.44	1.44	92	7.4	2410	481.68	8.82	9.23	827	0	12.5	16.5	241	11090	73.8	2.1	261	206	1.04	.88	.86	.92	9.04	8.70	D
285	0710	492.26	15.7	1.34	1.34	92	8.0	2410	481.98	8.82	9.23	828	0	12.5	16.5	241	11160	74.1	2.2	221	206	1.04	.93	.90	.92	9.04	8.70	D
286	0711	492.56	25.8	1.57	1.57	92	7.8	2400	482.26	8.81	9.17	827	0	12.5	16.5	241	11225	74.4	2.2	187	206	1.05	.82	.80	.92	9.04	8.70	D
287	0712	492.86	11.6	1.60	1.60	93	7.4	2410	482.72	8.81	9.14	828	0	12.5	16.5	241	11329	74.7	2.2	461	207	1.05	.97	.95	.92	9.04	8.70	D
288	0713	493.17	20.6	1.32	1.32	91	7.6	2420	483.15	8.81	9.14	828	0	12.5	16.5	241	11410	75.0	2.2	405	207	1.06	.86	.84	.92	9.04	8.70	D
289	0733	493.53	18.6	1.43	1.78	101	7.9	2400	488.55	8.82	9.04	828	0	12.4	15.8	261	12150	75.2	2.4	450	221	1.10	.86	.83	.92	8.94	8.70	D†
292	0734	495.49	41.8	.91	.91	101	9.8	2390	488.79	8.82	9.15	819	0	12.4	15.7	258	12196	77.3	2.4	11	216	1.10	.75	.72	.92	8.97	8.70	D
293	0734	495.93	50.8	1.06	1.06	98	7.0	2390	489.13	8.82	9.15	824	0	12.4	15.7	256	12247	77.7	2.4	101	215	1.11	.69	.67	.92	8.98	8.70	D
294	0735	496.22	32.5	.99	.99	99	5.4	2390	489.34	8.83	9.09	826	0	12.4	15.8	254	12284	78.0	2.4	119	215	1.11	.74	.72	.92	8.98	8.70	D
295	0735	496.63	38.7	1.94	1.94	98	6.9	2390	489.35	8.83	9.09	827	0	12.4	15.8	253	12346	78.3	2.4	124	214	1.11	.74	.72	.92	8.98	8.70	D
296	0736	497.13	70.4	1.74	1.74	93	9.4	2390	489.38	8.82	9.20	828	0	12.4	15.8	251	12383	78.9	2.5	78	213	1.12	.66	.63	.92	8.99	8.70	D
297	0736	497.43	33.0	1.50	1.50	91	7.8	2400	489.59	8.82	9.20	828	0	12.4	15.8	250	12433	79.2	2.5	132	213	1.12	.78	.75	.92	8.99	8.70	D
298	0737	497.74	75.2	1.63	1.63	90	10.2	2390	489.65	8.80	9.16	827	0	12.4	16.0	250	12454	79.5	2.5	92	212	1.12	.65	.62	.93	8.99	8.70	D
299	0737	498.07	57.0	1.51	1.51	92	7.5	2400	489.77	8.80	9.16	827	0	12.4	16.0	249	12483	79.8	2.5	85	212	1.12	.67	.64	.92	9.00	8.70	D
300	0737	498.36	61.4	1.43	1.43	92	7.5	2390	489.87	8.80	9.16	827	0	12.4	16.0	248	12502	80.1	2.5	95	211	1.13	.65	.62	.93	9.00	8.70	D
301	0738	498.83	58.0	1.39	1.39	91	8.0	2390	490.02	8.82	9.17	826	0	12.4	16.1	249	12545	80.5	2.5	51	211	1.13	.67	.64	.93	9.01	8.70	D
302	0738	499.30	26.3	1.30	1.30	92	7.6	2390	490.34	8.82	9.16	827	0	12.4	16.3	247	12631	81.0	2.5	236	210	1.14	.82	.79	.92	9.01	8.70	D
303	0739	499.62	20.3	1.55	1.55	92	7.1	2390	490.65	8.82	9.19	827	0	12.4	16.4	246	12710	81.4	2.5	238	210	1.14	.86	.83	.92	9.01	8.70	D

AMOCO AUST. Tilana No.1 329075

Data Printed at time 11:34 Date Oct 9 '85
Data Recorded at time 07:40 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
304	0740	499.88	27.6	1.46	1.46	93	7.6	2390	490.95	8.82	9.19	827	0	12.4	16.4	247	12757	81.7	2.5	168	210	1.15	.81	.79	.92	9.01	8.70	D
305	0741	500.23	21.7	1.58	1.58	92	6.9	2390	491.39	8.82	9.19	827	0	12.4	16.5	244	12846	82.0	2.5	257	210	1.15	.84	.81	.92	9.01	8.70	D
306	0741	500.52	36.5	1.44	1.44	92	8.5	2400	491.56	8.82	9.19	827	0	12.4	16.5	247	12886	82.3	2.5	139	210	1.16	.77	.75	.92	9.01	8.70	D
307	0742	501.17	40.5	1.52	1.52	93	9.7	2400	491.84	8.83	9.20	827	0	12.4	16.6	245	12950	82.9	2.6	106	209	1.16	.77	.75	.92	9.02	8.70	D
308	0743	501.75	40.7	1.62	1.62	91	10.2	2400	492.13	8.83	9.17	827	0	12.4	16.6	245	13017	83.5	2.6	143	208	1.17	.78	.75	.92	9.02	8.70	D
309	0743	502.05	67.7	1.37	1.37	92	8.2	2400	492.20	8.83	9.17	827	0	12.4	16.6	244	13039	83.8	2.6	97	208	1.17	.64	.61	.92	9.02	8.70	D
310	0748	502.47	45.3	1.57	1.92	94	4.3	2340	492.66	8.83	9.15	827	0	12.4	16.6	269	13100	84.1	2.6	88	208	1.17	.64	.62	.92	9.00	8.70	DX
313	0749	504.45	36.5	1.54	1.54	99	5.4	2370	492.90	8.83	9.15	792	0	12.4	16.6	259	13215	86.2	2.6	166	204	1.18	.71	.69	.93	9.05	8.70	D
314	0749	504.80	44.6	2.10	2.10	98	7.8	2390	492.93	8.85	9.10	816	0	12.4	16.3	257	13257	86.6	2.6	147	204	1.18	.73	.70	.92	9.06	8.70	D
315	0750	505.07	52.6	1.84	1.84	101	11.8	2400	492.94	8.85	9.10	821	0	12.4	16.3	256	13284	86.9	2.6	90	204	1.18	.77	.73	.93	9.06	8.70	D
316	0750	505.36	90.9	2.10	2.10	101	13.6	2390	492.94	8.85	9.10	823	0	12.4	16.3	255	13302	87.1	2.6	53	203	1.19	.67	.64	.93	9.06	8.70	D
317	0750	505.67	60.7	2.05	2.05	101	12.5	2400	492.95	8.83	9.19	825	0	12.4	16.2	254	13331	87.5	2.6	71	202	1.19	.74	.71	.93	9.07	8.70	D
318	0750	506.12	91.4	1.85	1.85	101	12.2	2410	492.95	8.83	9.19	826	0	12.4	16.2	254	13359	87.7	2.6	78	202	1.19	.65	.62	.93	9.07	8.70	D
319	0751	506.59	59.0	2.43	2.43	101	12.5	2390	492.95	8.83	9.19	827	0	12.4	16.2	252	13401	88.4	2.6	92	201	1.20	.75	.72	.93	9.08	8.70	D
320	0751	506.91	158	2.04	2.04	101	13.7	2400	492.95	8.83	9.19	827	0	12.4	16.2	252	13412	88.7	2.6	66	201	1.20	.55	.51	.93	9.09	8.70	D
321	0751	507.23	74.9	1.75	1.75	101	12.1	2400	492.95	8.83	9.17	827	0	12.4	16.1	251	13435	89.0	2.6	60	200	1.20	.69	.66	.93	9.09	8.70	D
322	0751	507.50	67.5	2.15	2.15	99	12.0	2390	492.95	8.83	9.17	827	0	12.4	16.1	251	13457	89.3	2.6	59	200	1.20	.71	.67	.93	9.10	8.70	D
323	0752	507.82	57.2	1.74	1.74	101	12.8	2400	492.95	8.83	9.17	828	0	12.4	16.1	250	13489	89.6	2.7	84	199	1.20	.76	.73	.93	9.10	8.70	D
324	0752	508.11	156	2.01	2.01	101	12.9	2400	492.95	8.83	9.17	828	0	12.4	16.1	250	13499	89.9	2.7	55	199	1.20	.54	.51	.93	9.11	8.70	D
325	0752	508.42	75.0	2.08	2.08	101	13.9	2410	492.95	8.82	9.14	828	0	12.4	16.1	249	13524	90.2	2.7	65	198	1.20	.71	.68	.93	9.11	8.70	D
326	0752	508.72	87.4	1.62	1.62	101	14.4	2400	492.95	8.82	9.14	828	0	12.4	16.1	249	13544	90.4	2.7	69	198	1.21	.68	.65	.93	9.12	8.70	D
327	0753	509.37	52.6	1.81	1.81	101	12.9	2390	492.95	8.82	9.08	828	0	12.4	16.1	248	13605	91.1	2.7	95	197	1.21	.78	.74	.93	9.13	8.70	D
328	0753	509.94	42.2	1.86	1.86	101	11.5	2390	492.95	8.82	9.08	828	0	12.4	16.1	247	13674	91.7	2.7	124	196	1.22	.80	.77	.93	9.14	8.70	D
329	0754	510.28	237	1.98	1.98	101	11.2	2400	492.95	8.82	9.08	827	0	12.4	16.1	247	13681	92.0	2.7	124	196	1.22	.43	.40	.93	9.14	8.70	D
330	0754	510.57	36.3	1.60	1.60	101	11.7	2410	492.95	8.83	9.04	827	0	12.4	16.2	246	13725	92.4	2.7	118	195	1.22	.84	.80	.93	9.15	8.70	D
331	0754	510.85	50.1	1.55	1.55	101	9.8	2400	492.95	8.83	9.04	827	0	12.4	16.2	246	13755	92.6	2.7	101	195	1.23	.74	.71	.93	9.16	8.70	D
332	0755	511.15	37.6	1.62	1.62	101	10.1	2400	492.95	8.83	9.04	827	0	12.4	16.2	246	13802	93.0	2.7	124	195	1.23	.80	.77	.93	9.16	8.70	D
335	0804	513.59	37.0	1.25	1.25	102	8.5	2370	494.67	8.83	8.84	783	0	12.3	16.0	261	14105	95.4	2.8	125	193	1.25	.78	.74	.93	9.18	8.70	D
336	0804	513.94	51.1	1.22	1.22	98	12.3	2370	495.34	8.83	8.91	809	0	12.4	15.8	259	14144	95.7	2.8	97	193	1.25	.76	.73	.93	9.17	8.70	D
337	0804	514.21	47.2	1.40	1.40	100	9.8	2360	495.62	8.83	8.91	816	0	12.4	15.8	257	14175	96.0	2.8	132	193	1.25	.75	.71	.93	9.17	8.70	D
338	0805	514.59	40.1	1.50	1.50	95	9.5	2360	496.03	8.82	8.82	819	0	12.4	16.6	255	14229	96.3	2.8	153	193	1.26	.76	.73	.93	9.17	8.70	D
339	0805	514.82	26.5	1.50	1.50	95	9.1	2360	496.49	8.82	8.82	820	0	12.4	16.6	254	14272	96.6	2.8	114	193	1.26	.84	.81	.93	9.17	8.70	D
340	0806	515.11	36.2	1.65	1.65	96	8.5	2370	496.94	8.81	8.77	820	0	12.4	16.8	252	14318	96.9	2.8	178	192	1.26	.77	.74	.93	9.17	8.70	D
341	0806	515.42	45.4	1.77	1.77	95	11.7	2370	497.24	8.81	8.77	820	0	12.4	16.8	252	14353	97.2	2.8	116	192	1.26	.77	.74	.93	9.17	8.70	D
342	0807	515.79	57.8	1.80	1.80	95	12.1	2360	497.54	8.81	8.77	820	0	12.4	16.8	250	14388	97.5	2.8	103	192	1.27	.73	.70	.93	9.17	8.70	D
343	0807	516.08	39.5	1.86	1.86	96	9.4	2360	497.91	8.80	8.74	820	0	12.4	16.6	250	14427	97.8	2.8	111	192	1.27	.77	.74	.93	9.17	8.70	D
344	0807	516.34	31.2	1.50	1.50	95	8.6	2360	498.29	8.80	8.74	820	0	12.4	16.6	250	14470	98.1	2.8	146	191	1.28	.80	.77	.93	9.17	8.70	D
345	0808	516.72	46.1	1.82	1.82	96	12.2	2360	498.61	8.80	8.74	820	0	12.4	16.6	249	14516	98.4	2.8	117	191	1.28	.78	.75	.93	9.16	8.70	D
346	0809	517.25	41.1	1.65	1.65	96	10.6	2380	498.97	8.82	8.83	820	0	12.4	16.1	247	14581	99.0	2.9	128	191	1.28	.78	.75	.93	9.17	8.70	D
347	0809	517.57	43.0	1.78	1.78	96	11.3	2360	499.17	8.82	8.83	821	0	12.4	16.1	248	14622	99.4	2.9	113	190	1.29	.78	.75	.93	9.17	8.70	D
348	0809	517.89	67.7	1.64	1.64	95	11.7	2370	499.27	8.81	9.02	820	0	12.4	16.0	247	14645	99.6	2.9	94	190	1.29	.69	.66	.93	9.17	8.70	D
349	0810	518.19	38.3	1.62	1.62	95	11.5	2370	499.41	8.81	9.02	820	0	12.4	16.0	246	14680	100	2.9	115	190	1.29	.81	.77	.93	9.17	8.70	D
350	0810	518.51	42.1	1.56	1.56	95	10.8	2360	499.55	8.81	9.02	820	0	12.4	16.0	246	14711	100	2.9	91	189	1.29	.77	.74	.93	9.18	8.70	D
351	0810	518.77	38.3	1.65	1.65	96	11.7	2370	499.70	8.80	9.17	820	0	12.4	16.3	246	14747	101	2.9	146	189	1.30	.81	.78	.93	9.18	8.70	D
352	0811	519.09	39.5	1.53	1.53	95	12.1	2370	499.92	8.80	9.17	820	0	12.4	16.3	245	14785	101	2.9	108	189	1.30	.81	.78	.93	9.18	8.70	D
353	0811	519.39	56.3	1.93	1.93	96	11.9	2370	500.09	8.80	9.17	820	0	12.4	16.3	245	14813	101	2.9	117	189	1.30	.73	.70	.93	9.18	8.70	D
354	0811	519.71	45.9	1.79	1.79	95	10.1	2370	500.35	8.81	9.27	821	0	12.4	16.4	246	14851	101	2.9	104	189	1.30	.75	.71	.93	9.19	8.70	D
355	0812	520.00	33.6	1.59	1.59	95	11.1	2370	500.79	8.81	9.27	821	0	12.4	16.4	245	14899	102	2.9	139	188	1.31	.83	.79	.93	9.19	8.70	D
356	0817	520.30	47.3	1.78	1.78	95	11.6	2350	501.63	8.82	9.25	820	0	12.4	16.4	272	14915	102	2.9	133	188	1.31	.73	.70	.93	9.14	8.70	DX
358	0818	521.21	49.8	1.31	1.82	104	12.4	2420	501.83	8.80	9.12	707	0	12.3	16.3	265	14971	103	2.9	137	185	1.31	.69	.66	.93	9.17	8.70	D

AMOCO AUST. Tilana No.1

329076

Data Printed at time 11:38 Date Oct 9 '85
Data Recorded at time 08:19 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
359	0819	522.73	49.6	1.13	1.13	101	12.9	2410	501.84	8.80	9.12	823	0	12.3	16.3	262	15003	104	2.9	97	184	1.32	.69	.66	.93	9.20	8.70	D
360	0819	523.05	41.2	1.25	1.25	96	12.5	2420	501.85	8.80	9.12	805	0	12.3	16.3	258	15040	105	2.9	112	184	1.32	.80	.77	.93	9.21	8.70	D
361	0819	523.35	105	1.23	1.23	97	10.5	2420	502.06	8.83	9.14	813	0	12.3	16.1	258	15055	105	2.9	42	184	1.32	.58	.55	.93	9.21	8.70	D
362	0819	523.67	40.5	1.82	1.82	94	10.0	2400	502.79	8.83	9.14	823	0	12.3	16.1	256	15096	105	2.9	115	184	1.32	.77	.73	.93	9.22	8.70	D
363	0820	523.96	56.0	1.82	1.82	98	12.5	2390	503.38	8.83	9.14	824	0	12.3	16.1	255	15124	106	2.9	75	183	1.32	.74	.71	.93	9.21	8.70	D
364	0820	524.31	90.0	1.88	1.88	98	12.6	2410	503.82	8.83	9.14	825	0	12.3	16.1	255	15146	106	2.9	63	183	1.33	.64	.61	.93	9.21	8.70	D
365	0820	524.90	71.6	1.95	1.95	98	13.0	2410	504.19	8.84	9.14	825	0	12.4	15.9	253	15187	107	3.0	86	182	1.33	.70	.66	.93	9.21	8.70	D
366	0821	525.18	44.5	1.97	1.97	98	12.2	2410	504.43	8.84	9.14	825	0	12.4	15.9	252	15222	107	3.0	85	182	1.33	.79	.75	.93	9.21	8.70	D
367	0821	525.51	70.2	1.55	1.55	98	12.4	2410	504.67	8.82	9.24	826	0	12.3	15.9	252	15246	107	3.0	120	182	1.34	.69	.66	.93	9.21	8.70	D
368	0821	525.89	90.3	1.86	1.86	98	10.7	2410	505.03	8.82	9.24	826	0	12.3	15.9	250	15269	108	3.0	72	181	1.34	.62	.58	.93	9.21	8.70	D
369	0822	526.45	39.8	1.85	1.85	98	11.7	2410	506.10	8.82	9.24	827	0	12.3	15.9	250	15342	108	3.0	104	181	1.34	.81	.77	.93	9.21	8.70	D
370	0822	526.71	70.2	1.64	1.64	98	9.1	2400	506.33	8.81	9.18	826	0	12.4	15.9	249	15362	108	3.0	90	181	1.34	.65	.61	.93	9.20	8.70	D
371	0822	527.00	56.5	1.99	1.99	98	10.7	2410	506.67	8.81	9.18	826	0	12.4	15.9	247	15387	109	3.0	86	180	1.34	.72	.68	.93	9.20	8.70	D
372	0823	527.35	54.7	1.51	1.51	98	11.1	2400	507.23	8.81	9.18	826	0	12.4	15.9	249	15424	109	3.0	107	180	1.35	.73	.69	.93	9.20	8.70	D
373	0823	527.68	37.6	1.76	1.76	98	11.0	2410	507.79	8.81	9.05	826	0	12.4	15.9	247	15470	109	3.0	124	180	1.35	.81	.77	.93	9.19	8.70	D
374	0824	527.93	58.3	1.84	1.84	98	12.9	2410	508.13	8.81	9.05	826	0	12.4	15.9	247	15493	110	3.0	100	180	1.35	.74	.71	.93	9.19	8.70	D
375	0824	528.23	49.9	1.49	1.49	98	10.5	2420	508.57	8.81	9.05	826	0	12.4	15.9	246	15527	110	3.0	88	179	1.35	.74	.71	.93	9.19	8.70	D
376	0824	528.55	75.2	1.70	1.70	98	12.0	2430	508.88	8.82	9.01	826	0	12.4	16.1	246	15550	110	3.0	93	179	1.36	.68	.64	.93	9.19	8.70	D
377	0824	528.85	54.3	1.96	1.96	98	11.7	2420	509.20	8.82	9.01	827	0	12.4	16.1	246	15579	111	3.0	82	179	1.36	.74	.70	.93	9.19	8.70	D
378	0825	529.17	50.2	1.88	1.88	99	9.7	2420	509.53	8.82	9.01	827	0	12.4	16.1	245	15615	111	3.0	100	179	1.36	.73	.69	.93	9.19	8.70	D
379	0829	529.77	63.2	2.43	2.43	97	13.3	2300	510.73	8.82	9.18	827	0	12.4	16.4	269	15648	111	3.0	83	178	1.37	.73	.69	.93	9.13	8.70	DX
381	0830	531.52	67.5	1.02	1.02	106	11.1	2350	510.81	8.82	9.22	812	0	12.4	16.4	264	15682	113	3.0	110	175	1.37	.69	.66	.94	9.17	8.70	D†
382	0830	531.96	52.5	1.22	1.22	100	8.5	2350	510.81	8.82	9.22	744	0	12.4	16.4	260	15733	114	3.0	142	175	1.37	.70	.67	.94	9.19	8.70	D
383	0831	532.52	61.7	1.43	1.43	98	11.2	2330	510.81	8.82	9.04	795	0	12.3	16.3	258	15780	114	3.1	80	175	1.37	.71	.67	.94	9.21	8.70	D
384	0831	532.81	63.2	1.58	1.58	97	9.5	2340	510.81	8.82	9.04	804	0	12.3	16.3	257	15804	115	3.1	113	175	1.38	.67	.64	.94	9.22	8.70	D
385	0831	533.16	52.7	1.55	1.55	97	12.7	2340	510.81	8.82	9.04	809	0	12.3	16.3	256	15839	115	3.1	91	174	1.38	.76	.72	.94	9.22	8.70	D
386	0832	533.72	77.8	1.42	1.42	96	10.8	2340	510.81	8.82	9.04	812	0	12.3	16.3	253	15876	115	3.1	79	174	1.38	.64	.61	.94	9.23	8.70	D
387	0832	534.04	45.8	1.64	1.64	95	9.3	2340	510.81	8.81	9.04	812	0	12.3	16.1	254	15913	116	3.1	103	173	1.38	.73	.69	.94	9.24	8.70	D
388	0833	534.62	51.1	1.81	1.81	96	10.8	2390	510.81	8.81	9.04	812	0	12.3	16.1	252	15965	116	3.1	82	173	1.39	.73	.70	.94	9.25	8.70	D
389	0833	534.94	95.8	1.78	1.78	95	11.1	2390	511.02	8.82	8.96	812	0	12.3	16.0	251	15983	117	3.1	46	173	1.39	.60	.57	.94	9.25	8.70	D
390	0833	535.23	39.2	1.43	1.43	96	12.0	2380	511.74	8.82	8.96	812	0	12.3	16.0	251	16021	117	3.1	99	173	1.39	.81	.77	.94	9.25	8.70	D
391	0833	535.59	69.9	1.46	1.46	96	9.9	2390	512.32	8.82	8.96	812	0	12.3	16.0	250	16050	117	3.1	95	172	1.39	.65	.62	.94	9.25	8.70	D
392	0834	535.85	39.9	1.57	1.57	96	10.4	2380	512.90	8.82	8.96	811	0	12.3	16.0	248	16085	118	3.1	100	172	1.40	.78	.74	.94	9.24	8.70	D
393	0834	536.14	57.0	1.58	1.58	98	12.0	2380	513.18	8.82	8.89	811	0	12.3	16.0	249	16106	118	3.1	68	172	1.40	.73	.69	.94	9.24	8.70	D
394	0834	536.47	78.3	1.58	1.58	98	13.4	2390	513.32	8.82	8.89	811	0	12.3	16.0	248	16129	118	3.1	67	172	1.40	.68	.64	.94	9.24	8.70	D
395	0834	536.79	75.2	1.32	1.32	98	11.1	2380	513.52	8.82	8.89	811	0	12.3	16.0	247	16152	119	3.1	69	171	1.40	.66	.62	.94	9.24	8.70	D
396	0835	537.06	34.0	1.45	1.45	99	8.5	2390	513.93	8.82	8.89	812	0	12.3	16.0	248	16197	119	3.1	116	171	1.41	.78	.75	.94	9.24	8.70	D
397	0835	537.40	56.3	1.26	1.26	98	7.8	2390	514.12	8.83	8.68	812	0	12.4	16.1	247	16231	119	3.1	159	171	1.41	.67	.63	.94	9.24	8.70	D
398	0835	537.69	83.1	2.07	2.07	98	8.9	2390	514.21	8.83	8.68	812	0	12.4	16.1	247	16250	119	3.1	55	171	1.41	.61	.57	.94	9.24	8.70	D
399	0836	538.02	44.8	1.42	1.42	98	9.7	2390	514.41	8.83	8.68	812	0	12.4	16.1	245	16290	120	3.1	95	171	1.41	.75	.71	.94	9.24	8.70	D
400	0836	538.28	47.5	1.71	1.71	99	10.9	2390	514.60	8.85	8.61	812	0	12.3	16.9	247	16321	120	3.1	143	171	1.42	.75	.72	.94	9.25	8.70	D
401	0836	538.60	96.1	1.81	1.81	99	11.3	2400	514.73	8.85	8.61	812	0	12.3	16.9	246	16339	120	3.2	69	170	1.42	.61	.58	.94	9.25	8.70	D
402	0837	538.98	68.2	1.28	1.28	98	11.1	2370	514.98	8.85	8.61	813	0	12.3	16.9	245	16372	121	3.2	88	170	1.42	.68	.64	.94	9.25	8.70	D
405	0846	540.72	52.7	1.19	1.19	103	10.6	2440	518.66	8.82	8.66	821	0	12.3	16.4	256	16573	123	3.2	83	169	1.43	.72	.68	.94	9.22	8.70	D†
406	0846	541.95	60.0	1.16	1.16	98	9.6	2430	518.94	8.82	8.84	802	0	12.3	16.2	252	16619	124	3.2	70	168	1.43	.69	.65	.94	9.23	8.70	D
407	0846	542.24	64.8	1.20	1.20	100	8.6	2420	519.08	8.82	8.84	813	0	12.3	16.2	250	16640	124	3.2	81	168	1.43	.66	.62	.94	9.23	8.70	D
408	0847	542.59	79.9	1.29	1.29	96	11.6	2430	519.22	8.82	8.84	817	0	12.3	16.2	247	16664	124	3.2	108	168	1.43	.65	.61	.94	9.24	8.70	D
409	0847	542.86	49.5	1.25	1.25	95	10.8	2430	519.35	8.82	8.84	820	0	12.3	16.2	245	16689	125	3.2	61	168	1.44	.74	.70	.94	9.24	8.70	D
410	0847	543.21	52.5	1.67	1.67	96	9.9	2420	519.58	8.82	8.84	821	0	12.3	16.2	243	16727	125	3.2	120	168	1.44	.71	.68	.94	9.24	8.70	D
411	0847	543.53	95.8	1.92	1.92	94	12.1	2430	519.67	8.82	8.84	822	0	12.3	16.2	242	16745	125	3.2	71	167	1.44	.61	.57	.94	9.24	8.70	D

AMOCO AUST. Tilana No.1 329077

Data Printed at time 11:42 Date Oct 9 '85
Data Recorded at time 08:48 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
12	0848	543.76	61.8	1.68	1.68	98	11.2	2430	519.76	8.82	8.84	822	0	12.3	16.2	239	16764	126	3.2	58	167	1.44	.70	.66	.94	9.24	8.70	D
13	0848	544.17	91.9	1.68	1.68	104	10.5	2420	520.07	8.82	8.89	822	0	12.4	16.1	238	16792	126	3.3	77	167	1.44	.62	.58	.94	9.25	8.70	D
14	0848	544.73	70.2	1.37	1.37	104	8.5	2430	520.90	8.82	8.89	823	0	12.4	16.1	234	16834	126	3.3	74	166	1.45	.65	.61	.94	9.25	8.70	D
15	0849	544.99	29.5	1.74	1.74	104	8.1	2430	521.72	8.82	8.89	824	0	12.4	16.1	232	16877	127	3.3	119	166	1.45	.81	.77	.94	9.24	8.70	D
16	0849	545.37	67.0	1.82	1.82	104	9.0	2430	522.24	8.84	8.90	823	0	12.4	16.1	229	16912	127	3.3	65	166	1.45	.67	.63	.94	9.23	8.70	D
17	0849	545.93	68.7	1.49	1.49	103	8.8	2430	522.62	8.84	8.90	824	0	12.4	16.1	228	16951	128	3.3	84	165	1.46	.66	.62	.94	9.23	8.70	D
18	0850	546.22	47.4	2.20	2.20	105	9.5	2430	522.92	8.84	8.90	824	0	12.4	16.1	225	16986	128	3.3	99	165	1.46	.75	.71	.94	9.24	8.70	D
19	0850	546.54	50.1	1.67	1.67	104	10.3	2430	523.24	8.84	8.93	825	0	12.5	16.2	223	17022	128	3.3	82	165	1.46	.74	.71	.94	9.24	8.70	D
20	0850	547.13	112	2.08	2.08	106	10.3	2430	523.56	8.84	8.93	825	0	12.5	16.2	220	17050	129	3.3	29	164	1.46	.58	.54	.94	9.24	8.70	D
21	0851	547.45	105	1.71	1.71	104	9.9	2430	523.77	8.84	8.93	825	0	12.5	16.2	218	17069	129	3.3	47	164	1.46	.59	.55	.94	9.24	8.70	D
22	0851	547.74	27.8	1.88	1.88	103	9.2	2420	524.49	8.85	8.89	824	0	12.7	16.3	216	17128	130	3.3	157	164	1.47	.84	.81	.94	9.23	8.70	D
27	0858	550.48	46.3	1.23	1.23	99	7.3	2420	527.24	8.83	8.68	819	0	12.6	16.5	224	17210	132	3.3	80	161	1.48	.70	.66	.94	9.23	8.70	D
28	0858	550.88	73.5	1.83	1.83	96	10.7	2400	527.52	8.83	8.73	806	0	12.4	16.4	220	17242	133	3.3	79	161	1.48	.66	.62	.94	9.23	8.70	D
29	0858	551.38	58.3	1.98	1.98	95	8.0	2400	528.03	8.83	8.73	817	0	12.4	16.4	219	17288	133	3.3	73	161	1.48	.66	.62	.95	9.24	8.70	D
30	0859	551.69	50.1	1.65	1.65	94	5.0	2410	528.45	8.83	8.73	819	0	12.4	16.4	215	17323	133	3.3	99	161	1.48	.63	.59	.95	9.24	8.70	D
31	0859	552.03	46.4	1.83	1.83	94	10.8	2400	528.78	8.84	8.91	819	0	12.6	16.2	212	17362	134	3.3	111	161	1.49	.75	.71	.95	9.23	8.70	D
32	0859	552.32	59.2	1.48	1.48	96	8.7	2400	528.91	8.84	8.91	819	0	12.6	16.2	209	17389	134	3.4	78	161	1.49	.67	.63	.95	9.24	8.70	D
33	0900	552.64	79.0	1.44	1.44	97	7.5	2400	529.01	8.84	8.91	819	0	12.6	16.2	209	17409	134	3.4	59	160	1.49	.60	.56	.95	9.24	8.70	D
34	0900	552.92	51.8	1.71	1.71	98	9.3	2410	529.19	8.84	8.91	819	0	12.6	16.2	209	17438	135	3.4	72	160	1.49	.71	.67	.95	9.24	8.70	D
35	0900	553.25	128	2.04	2.04	98	9.6	2400	529.33	8.83	9.04	820	0	12.7	16.1	206	17452	135	3.4	97	160	1.49	.53	.49	.95	9.24	8.70	D
36	0900	553.52	30.7	1.49	1.49	97	9.7	2400	530.04	8.83	9.04	820	0	12.7	16.1	204	17491	135	3.4	105	160	1.50	.82	.78	.95	9.24	8.70	D
37	0901	553.83	47.7	2.31	2.31	98	8.8	2400	530.46	8.83	9.04	820	0	12.7	16.1	200	17521	136	3.4	85	160	1.50	.72	.68	.95	9.24	8.70	D
38	0901	554.13	86.1	1.68	1.68	97	10.9	2410	530.89	8.83	9.04	820	0	12.7	16.1	199	17539	136	3.4	77	159	1.50	.63	.59	.95	9.24	8.70	D
39	0901	554.44	67.9	1.72	1.72	97	9.0	2400	531.31	8.83	9.04	819	0	12.7	16.1	197	17563	136	3.4	63	159	1.50	.65	.61	.95	9.24	8.70	D
40	0901	554.75	95.5	2.24	2.24	98	8.2	2400	531.52	8.83	8.98	819	0	12.7	16.2	196	17581	137	3.4	64	159	1.50	.57	.54	.95	9.24	8.70	D
41	0902	555.05	38.9	1.39	1.39	96	11.3	2400	532.00	8.83	8.98	819	0	12.7	16.2	195	17627	137	3.4	120	159	1.51	.80	.76	.95	9.24	8.70	D
42	0902	555.36	87.8	1.17	1.17	98	10.3	2410	532.29	8.83	8.98	819	0	12.7	16.2	193	17646	137	3.4	127	159	1.51	.62	.58	.95	9.23	8.70	D
43	0903	555.68	39.0	1.59	1.59	97	8.7	2410	532.77	8.83	8.97	820	0	12.6	16.3	189	17690	137	3.4	114	159	1.51	.75	.72	.95	9.23	8.70	D
44	0903	556.00	79.9	1.59	1.59	97	10.4	2400	533.07	8.83	8.97	820	0	12.6	16.3	187	17713	138	3.4	120	158	1.51	.64	.60	.95	9.23	8.70	D
45	0903	556.35	59.2	1.22	1.22	99	12.2	2400	533.46	8.83	8.97	820	0	12.6	16.3	185	17746	138	3.4	79	158	1.51	.73	.69	.95	9.23	8.70	D
46	0903	557.00	105	2.22	2.22	97	12.7	2390	533.85	8.83	8.91	820	0	12.7	16.5	183	17775	139	3.4	70	158	1.52	.61	.57	.95	9.23	8.70	D
47	0905	558.39	35.2	2.17	2.15	97	11.8	2440	535.79	8.83	8.81	820	0	12.6	16.6	182	17853	140	3.4	148	158	1.52	.83	.79	.95	9.21	8.70	D‡
49	0912	559.94	107	1.58	1.93	94	14.3	2430	538.67	8.80	8.87	823	0	12.4	16.6	250	18032	142	3.5	44	157	1.53	.46	.43	.95	9.15	8.70	D
52	0913	561.14	35.3	1.13	1.13	101	9.1	2430	538.84	8.81	8.95	774	0	12.1	16.4	249	18103	143	3.5	118	156	1.53	.79	.75	.95	9.21	8.70	D
53	0913	561.45	72.3	1.31	1.31	98	10.5	2430	538.84	8.81	8.95	799	0	12.1	16.4	247	18128	143	3.5	65	156	1.53	.66	.62	.95	9.23	8.70	D
54	0913	561.76	113	1.25	1.25	98	11.6	2430	538.84	8.81	8.95	808	0	12.1	16.4	245	18145	144	3.5	56	156	1.53	.58	.54	.95	9.23	8.70	D
55	0914	562.06	50.2	1.47	1.47	97	15.2	2420	538.84	8.81	8.95	818	0	12.1	16.4	247	18179	144	3.5	94	156	1.54	.80	.75	.95	9.24	8.70	D
56	0914	562.41	211	1.41	1.41	95	15.7	2420	538.84	8.81	8.95	819	0	12.1	16.4	247	18187	144	3.5	43	155	1.54	.48	.43	.95	9.24	8.70	D
57	0914	562.79	105	1.38	1.38	97	15.8	2420	538.84	8.81	8.93	821	0	12.2	16.2	246	18204	144	3.5	52	155	1.54	.64	.60	.95	9.24	8.70	D
58	0914	563.35	67.4	1.27	1.27	98	13.2	2430	538.84	8.81	8.93	823	0	12.2	16.2	246	18245	145	3.5	99	155	1.54	.71	.67	.95	9.25	8.70	D
59	0915	563.58	81.9	1.34	1.34	97	13.8	2430	538.84	8.81	8.93	823	0	12.2	16.2	245	18259	145	3.5	52	155	1.54	.67	.63	.95	9.26	8.70	D
60	0915	563.90	87.8	1.31	1.31	96	14.2	2420	538.84	8.81	8.93	823	0	12.2	16.2	243	18279	146	3.5	50	154	1.54	.66	.62	.95	9.26	8.70	D
61	0915	564.19	47.4	1.25	1.25	96	13.1	2430	538.84	8.81	8.93	823	0	12.2	16.2	244	18303	146	3.5	60	154	1.55	.78	.74	.95	9.27	8.70	D
62	0915	564.50	71.9	1.52	1.52	97	12.2	2430	538.88	8.82	8.95	823	0	12.2	16.2	245	18322	146	3.5	64	154	1.55	.68	.64	.95	9.27	8.70	D
63	0916	564.81	43.1	1.56	1.56	96	11.6	2420	539.65	8.82	8.95	824	0	12.2	16.2	244	18357	147	3.5	108	154	1.55	.78	.74	.95	9.27	8.70	D
64	0916	565.10	168	1.39	1.39	95	11.1	2420	539.81	8.82	8.95	823	0	12.2	16.2	243	18365	147	3.5	53	154	1.55	.48	.44	.95	9.27	8.70	D
65	0916	565.41	36.0	1.31	1.31	96	12.1	2430	540.59	8.82	8.95	823	0	12.2	16.2	244	18409	147	3.6	125	153	1.56	.82	.78	.95	9.26	8.70	D
66	0916	565.72	117	1.38	1.38	95	11.7	2420	540.90	8.82	8.95	823	0	12.2	16.2	243	18423	147	3.6	111	153	1.56	.57	.53	.95	9.26	8.70	D
67	0917	566.03	54.6	1.78	1.78	95	11.7	2420	541.23	8.83	8.90	823	0	12.2	16.2	242	18447	148	3.6	64	153	1.56	.73	.69	.95	9.26	8.70	D
68	0917	566.33	49.9	1.38	1.38	95	10.6	2420	541.60	8.83	8.90	823	0	12.2	16.2	245	18480	148	3.6	97	153	1.56	.73	.69	.95	9.26	8.70	D

AMOCO AUST. Tilana No.1

329078

Data Printed at time 11:47 Date Oct 9 '85
Data Recorded at time 09:17 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST RM PR	
469	0917	566.65	58.3	2.11	2.11	95	10.8	2420	541.96	8.83	8.90	822	0	12.2	16.2	242	18510	148	3.6	123	153	1.56	.70	.66	.95	9.26	8.70	D
470	0918	566.94	61.2	1.82	1.82	95	12.2	2420	542.24	8.82	8.83	822	0	12.2	16.3	242	18534	149	3.6	57	153	1.57	.71	.67	.95	9.26	8.70	D
471	0918	567.24	114	1.94	1.94	95	12.1	2420	542.45	8.82	8.83	822	0	12.2	16.3	241	18548	149	3.6	78	153	1.57	.58	.54	.95	9.26	8.70	D
474	0922	568.57	59.8	1.84	2.08	106	12.4	2450	544.77	8.81	8.66	828	0	12.2	16.7	261	18606	150	3.6	102	152	1.57	.71	.67	.95	9.23	8.70	D
476	0923	569.68	58.3	1.93	1.93	100	12.4	2450	545.53	8.88	8.52	828	0	12.1	17.5	256	18674	151	3.6	102	151	1.57	.63	.60	.95	9.25	8.70	D
477	0923	570.00	61.1	2.00	2.00	101	13.6	2450	545.82	8.88	8.52	815	0	12.1	17.5	255	18704	152	3.6	80	151	1.58	.74	.70	.95	9.25	8.70	D
478	0924	570.35	57.3	2.06	2.06	104	12.2	2460	546.21	8.88	8.52	822	0	12.1	17.5	255	18740	152	3.6	94	151	1.58	.74	.70	.95	9.25	8.70	D
479	0924	570.91	77.8	2.71	2.71	103	14.4	2450	546.69	8.84	8.48	826	0	12.2	17.2	252	18780	153	3.6	87	150	1.58	.70	.66	.95	9.25	8.70	D
480	0924	571.21	67.4	1.88	1.88	102	16.1	2460	546.98	8.84	8.48	827	0	12.2	17.2	252	18805	153	3.6	58	150	1.58	.75	.71	.95	9.25	8.70	D
481	0924	571.52	70.3	2.29	2.29	103	13.2	2450	547.28	8.84	8.48	828	0	12.2	17.2	252	18831	153	3.6	71	150	1.58	.71	.67	.95	9.25	8.70	D
482	0925	571.87	81.0	1.92	1.92	102	12.7	2460	547.57	8.84	8.48	828	0	12.2	17.2	250	18854	154	3.6	59	150	1.59	.67	.63	.95	9.25	8.70	D
483	0925	572.17	63.2	2.58	2.58	104	14.0	2450	547.86	8.84	8.48	828	0	12.2	17.2	249	18879	154	3.6	73	150	1.59	.74	.70	.96	9.25	8.70	D
484	0925	572.46	94.8	2.15	2.15	102	14.2	2460	547.96	8.84	8.63	828	0	12.2	16.7	249	18897	154	3.6	55	150	1.59	.65	.61	.95	9.25	8.70	D
485	0925	572.72	61.3	2.24	2.24	103	15.4	2460	548.02	8.84	8.63	828	0	12.2	16.7	248	18920	155	3.6	63	149	1.59	.77	.72	.96	9.26	8.70	D
486	0926	573.03	52.4	1.67	1.67	102	14.4	2440	548.17	8.84	8.63	828	0	12.2	16.7	249	18956	155	3.6	97	149	1.60	.79	.74	.96	9.26	8.70	D
487	0926	573.37	77.3	2.71	2.71	103	14.5	2460	548.27	8.84	8.63	828	0	12.2	16.7	248	18982	155	3.7	72	149	1.60	.70	.66	.96	9.26	8.70	D
488	0926	573.69	72.1	2.41	2.41	102	13.2	2470	548.46	8.83	8.81	828	0	12.2	16.3	244	19008	155	3.7	70	149	1.60	.70	.66	.96	9.27	8.70	D
489	0926	574.01	58.5	2.35	2.35	103	14.7	2470	548.68	8.83	8.81	828	0	12.2	16.3	247	19039	156	3.7	79	149	1.60	.77	.72	.96	9.27	8.70	D
490	0927	574.27	93.6	2.80	2.80	104	15.3	2460	548.83	8.83	8.81	829	0	12.2	16.3	247	19054	156	3.7	93	149	1.60	.67	.63	.96	9.27	8.70	D
491	0927	574.57	79.0	1.99	1.99	103	12.9	2460	548.98	8.83	8.81	829	0	12.2	16.3	245	19075	156	3.7	51	148	1.60	.68	.64	.96	9.27	8.70	D
492	0927	574.86	61.2	2.80	2.80	102	13.4	2460	549.31	8.83	8.90	829	0	12.2	16.3	247	19102	157	3.7	69	148	1.61	.74	.70	.96	9.27	8.70	D
493	0927	575.18	57.7	2.24	2.24	103	10.9	2460	549.85	8.83	8.90	829	0	12.2	16.3	245	19137	157	3.7	92	148	1.61	.72	.68	.96	9.27	8.70	D
494	0928	575.47	67.7	2.34	2.34	103	11.7	2460	550.13	8.83	8.90	829	0	12.2	16.3	244	19161	157	3.7	100	148	1.61	.70	.66	.96	9.27	8.70	D
495	0928	575.79	43.6	2.61	2.61	104	12.6	2460	550.80	8.83	8.90	829	0	12.2	16.3	243	19204	158	3.7	112	148	1.62	.81	.76	.96	9.26	8.70	D
496	0928	576.09	64.8	2.17	2.17	103	11.9	2460	551.15	8.83	8.90	829	0	12.2	16.5	244	19226	158	3.7	53	148	1.62	.71	.67	.96	9.26	8.70	D
497	0929	576.38	67.7	2.65	2.65	103	13.5	2470	551.41	8.83	8.90	829	0	12.2	16.5	243	19250	158	3.7	72	148	1.62	.72	.68	.96	9.26	8.70	D
498	0929	576.70	39.5	2.60	2.60	103	13.8	2420	551.84	8.83	8.90	829	0	12.2	16.5	243	19291	158	3.7	103	147	1.62	.84	.80	.96	9.26	8.70	D
499	0939	577.15	67.7	2.42	2.82	103	13.8	2430	557.11	8.85	8.57	826	0	12.1	16.6	272	19612	159	3.8	118	150	1.64	.72	.68	.96	9.15	8.70	DX
500	0939	577.74	64.9	1.96	2.16	103	13.8	2450	557.19	8.84	8.62	826	0	12.2	16.6	271	19612	160	3.8	118	150	1.64	.71	.67	.96	9.15	8.70	D†
503	0941	579.30	73.2	1.07	1.07	107	14.4	2450	557.94	8.84	8.62	811	0	12.2	16.6	260	19701	161	3.8	80	148	1.64	.69	.65	.96	9.20	8.70	D
504	0941	579.84	66.3	1.28	1.28	101	12.1	2440	558.34	8.84	8.85	823	0	12.2	16.2	260	19747	162	3.8	103	148	1.64	.71	.66	.96	9.21	8.70	D
505	0941	580.37	76.6	1.25	1.25	98	15.5	2440	558.62	8.84	8.85	825	0	12.2	16.2	257	19783	162	3.8	68	148	1.65	.71	.67	.96	9.21	8.70	D
506	0942	580.72	51.6	2.47	2.47	97	13.1	2430	558.98	8.84	8.85	825	0	12.2	16.2	256	19821	162	3.8	110	148	1.65	.77	.72	.96	9.21	8.70	D
507	0942	581.27	64.9	2.29	2.29	95	15.0	2430	559.07	8.87	8.87	824	0	12.3	16.0	252	19864	163	3.8	81	147	1.65	.74	.69	.96	9.22	8.70	D
508	0942	581.57	78.8	1.97	1.97	97	16.6	2440	559.07	8.87	8.87	824	0	12.3	16.0	252	19885	163	3.8	86	147	1.66	.71	.67	.96	9.22	8.70	D
509	0943	581.92	59.2	2.33	2.33	96	15.4	2440	559.07	8.87	8.87	824	0	12.3	16.0	251	19917	164	3.8	95	147	1.66	.76	.72	.96	9.22	8.70	D
510	0943	582.21	79.0	1.61	1.61	96	13.9	2440	559.07	8.86	8.92	824	0	12.2	16.0	249	19936	164	3.8	50	147	1.66	.68	.64	.96	9.23	8.70	D
511	0943	582.48	46.8	1.90	1.90	96	15.4	2450	559.07	8.86	8.92	825	0	12.2	16.0	251	19965	164	3.8	96	147	1.66	.81	.77	.96	9.23	8.70	D
512	0943	582.79	77.5	2.38	2.38	95	14.0	2450	559.07	8.86	8.92	825	0	12.2	16.0	249	19984	165	3.9	64	147	1.66	.68	.64	.96	9.24	8.70	D
513	0944	583.15	38.8	2.19	2.19	96	14.6	2440	559.40	8.85	8.89	825	0	12.2	16.1	249	20033	165	3.9	127	147	1.67	.84	.80	.96	9.24	8.70	D
514	0944	583.41	75.7	1.72	1.72	97	13.5	2450	559.88	8.85	8.89	825	0	12.2	16.1	247	20053	165	3.9	68	147	1.67	.69	.64	.96	9.24	8.70	D
515	0945	583.71	33.7	1.79	1.79	95	14.9	2440	560.69	8.85	8.89	825	0	12.2	16.1	247	20093	165	3.9	134	147	1.67	.88	.83	.96	9.24	8.70	D
516	0945	584.00	70.2	1.85	1.85	96	12.7	2440	561.01	8.85	8.89	825	0	12.2	16.1	247	20112	166	3.9	85	146	1.67	.69	.65	.96	9.23	8.70	D
517	0945	584.35	63.2	1.89	1.89	95	13.8	2440	561.50	8.85	8.89	825	0	12.2	16.1	244	20136	166	3.9	72	146	1.67	.73	.68	.96	9.22	8.70	D
518	0945	584.64	49.9	2.13	2.13	96	12.0	2440	561.99	8.84	8.80	825	0	12.2	16.3	248	20166	166	3.9	108	146	1.68	.75	.71	.96	9.22	8.70	D
519	0946	584.93	70.2	2.19	2.19	97	13.8	2450	562.35	8.84	8.80	825	0	12.2	16.3	244	20189	167	3.9	59	146	1.68	.71	.66	.96	9.22	8.70	D
520	0946	585.26	50.2	2.35	2.35	97	15.0	2440	562.83	8.84	8.80	825	0	12.2	16.3	247	20226	167	3.9	91	146	1.68	.80	.75	.96	9.22	8.70	D
521	0946	585.52	61.8	1.88	1.88	95	16.4	2450	563.19	8.83	8.71	825	0	12.3	16.5	246	20245	167	3.9	65	146	1.68	.76	.72	.96	9.22	8.70	D
522	0946	585.84	68.9	2.25	2.25	96	16.2	2410	563.57	8.83	8.71	825	0	12.3	16.5	242	20270	168	3.9	68	146	1.68	.74	.69	.96	9.22	8.70	D
523	0951	586.26	30.7	2.32	2.51	95	16.5	2490	565.62	8.72	8.63	825	0	12.3	16.6	259	20282	168	3.9	94	146	1.68	.93	.88	.96	9.17	8.70	D†

MOCO AUST. Tilana No.1 329079 Data Printed at time 11:51 Date Oct 9 '85
Data Recorded at time 09:51 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
24	0951	587.40	68.9	2.07	2.35	95	16.2	2480	565.69	8.72	8.63	828	0	12.3	16.6	259	20282	169	3.9	94	145	1.68	.74	.69	.96	9.17	8.70	D†
25	0952	588.28	46.3	1.19	1.19	102	14.7	2510	566.43	8.41	8.71	816	0	12.2	17.2	257	20332	170	3.9	124	144	1.69	.79	.74	.96	9.21	8.70	D
26	0952	588.57	49.9	1.41	1.41	98	13.1	2510	566.82	8.41	8.71	828	0	12.2	17.2	254	20363	170	3.9	120	144	1.69	.78	.73	.96	9.21	8.70	D
27	0952	588.95	115	2.59	2.59	94	15.7	2500	567.01	8.41	8.71	831	0	12.2	17.2	253	20380	171	3.9	77	144	1.69	.61	.57	.96	9.21	8.70	D
28	0953	589.19	52.3	1.90	1.90	92	14.7	2500	567.30	8.41	8.71	833	0	12.2	17.2	254	20402	171	3.9	73	144	1.69	.77	.73	.96	9.21	8.70	D
29	0953	589.54	81.0	1.80	1.80	93	12.5	2500	567.49	8.41	8.71	834	0	12.2	17.2	254	20422	171	3.9	57	143	1.69	.65	.61	.96	9.21	8.70	D
30	0953	589.79	26.0	2.16	2.16	92	12.8	2510	567.78	8.43	8.67	835	0	12.2	17.1	249	20469	172	3.9	143	143	1.70	.90	.86	.96	9.21	8.70	D
31	0954	590.12	58.4	1.97	1.97	93	12.9	2520	567.92	8.43	8.67	836	0	12.2	17.1	250	20500	172	3.9	114	143	1.70	.73	.68	.96	9.21	8.70	D
32	0954	590.48	45.8	2.04	2.04	93	13.0	2510	568.06	8.42	8.71	837	0	12.2	16.6	249	20536	172	3.9	101	143	1.70	.78	.74	.96	9.22	8.70	D
33	0954	590.74	47.5	1.53	1.53	93	13.0	2520	568.58	8.42	8.71	837	0	12.2	16.6	249	20565	173	4.0	96	143	1.70	.77	.73	.96	9.22	8.70	D
34	0955	591.32	57.7	2.08	2.08	97	13.3	2510	569.35	8.42	8.71	837	0	12.2	16.6	245	20615	173	4.0	78	143	1.71	.74	.70	.96	9.22	8.70	D
35	0955	591.65	47.8	2.15	2.15	98	12.0	2520	569.89	8.40	8.96	838	0	12.3	16.2	246	20653	173	4.0	107	143	1.71	.77	.73	.97	9.21	8.70	D
36	0956	591.97	74.0	2.21	2.21	98	13.8	2520	570.19	8.40	8.96	838	0	12.3	16.2	245	20677	174	4.0	114	143	1.71	.70	.65	.96	9.21	8.70	D
37	0956	592.58	45.1	1.92	1.92	98	12.6	2510	571.00	8.41	9.02	838	0	12.3	16.3	244	20746	174	4.0	82	143	1.72	.79	.75	.97	9.21	8.70	D
38	0956	592.84	54.8	1.87	1.87	98	11.5	2510	571.32	8.41	9.02	838	0	12.3	16.3	243	20768	175	4.0	64	143	1.72	.73	.69	.97	9.21	8.70	D
39	0957	593.17	54.9	2.11	2.11	100	14.5	2510	571.73	8.41	9.02	838	0	12.3	16.3	244	20802	175	4.0	116	142	1.72	.78	.73	.97	9.21	8.70	D
40	0957	593.46	66.6	2.20	2.20	97	12.5	2510	572.05	8.41	9.02	837	0	12.3	16.3	243	20827	175	4.0	109	142	1.72	.70	.66	.97	9.20	8.70	D
41	0957	593.81	42.8	1.83	1.83	98	11.8	2520	572.68	8.40	9.05	837	0	12.3	16.5	243	20873	176	4.0	123	142	1.72	.79	.75	.97	9.20	8.70	D
42	0958	594.07	60.2	2.31	2.31	98	12.9	2510	572.90	8.40	9.05	838	0	12.3	16.5	243	20895	176	4.0	76	142	1.73	.73	.69	.97	9.20	8.70	D
43	0958	594.36	33.1	2.05	2.05	98	11.1	2510	573.57	8.40	9.05	837	0	12.3	16.5	242	20941	176	4.0	116	142	1.73	.83	.79	.97	9.20	8.70	D
44	0958	594.72	89.9	1.78	1.78	98	15.1	2510	573.91	8.41	9.01	837	0	12.3	16.6	241	20964	176	4.0	141	142	1.73	.67	.62	.97	9.20	8.70	D
45	0959	594.97	50.6	2.03	2.03	98	13.7	2510	574.21	8.41	9.01	837	0	12.3	16.6	239	20987	177	4.0	64	142	1.73	.78	.74	.97	9.20	8.70	D
46	0959	595.30	47.3	2.01	2.01	98	13.9	2490	574.62	8.41	9.01	837	0	12.3	16.6	240	21026	177	4.0	108	142	1.73	.80	.75	.97	9.20	8.70	D
47	1011	595.78	26.3	1.29	1.29	100	12.4	2330	577.41	8.42	9.04	837	0	12.2	16.5	274	21265	177	4.1	121	144	1.75	.92	.87	.97	9.10	8.70	DX
48	1011	596.19	89.9	2.26	2.26	100	12.4	2390	577.41	8.42	9.04	825	0	12.2	16.5	274	21265	178	4.1	121	144	1.75	.83	.79	.97	9.12	8.70	D†
51	1012	597.74	54.6	1.22	1.22	103	14.3	2400	577.41	8.42	9.11	816	0	12.2	16.5	261	21353	180	4.1	111	142	1.75	.65	.61	.97	9.18	8.70	D
52	1013	598.30	79.0	1.27	1.27	98	13.7	2400	577.41	8.42	9.11	817	0	12.2	16.5	258	21393	180	4.1	54	142	1.75	.69	.64	.97	9.19	8.70	D
53	1013	598.68	57.4	1.27	1.27	98	12.2	2400	577.41	8.42	9.11	807	0	12.2	16.5	255	21429	180	4.1	99	142	1.76	.74	.69	.97	9.20	8.70	D
54	1013	598.97	47.4	2.21	2.21	98	11.9	2380	577.41	8.41	9.24	814	0	12.2	16.0	251	21463	181	4.1	90	142	1.76	.77	.72	.97	9.20	8.70	D
55	1014	599.32	76.0	1.98	1.98	95	11.6	2380	577.41	8.41	9.24	816	0	12.2	16.0	248	21488	181	4.1	105	142	1.76	.66	.62	.97	9.19	8.70	D
56	1014	599.55	18.3	2.22	2.22	96	12.6	2380	577.44	8.43	9.18	816	0	12.3	15.6	243	21552	181	4.1	188	142	1.77	.98	.93	.97	9.20	8.70	D
57	1015	599.85	63.2	2.15	2.15	96	15.6	2390	577.63	8.43	9.18	816	0	12.3	15.6	243	21579	182	4.2	84	142	1.77	.75	.70	.97	9.20	8.70	D
58	1015	600.16	61.7	2.30	2.30	95	12.5	2390	577.89	8.43	9.18	816	0	12.3	15.6	241	21608	182	4.2	87	142	1.77	.72	.67	.97	9.18	8.70	D
59	1015	600.46	55.2	2.32	2.32	96	14.9	2390	578.16	8.43	9.18	817	0	12.3	15.6	237	21639	182	4.2	101	141	1.77	.78	.73	.97	9.18	8.70	D
60	1016	600.79	50.1	2.11	2.11	95	13.8	2390	578.42	8.43	9.18	817	0	12.3	15.6	238	21673	183	4.2	95	141	1.77	.78	.73	.97	9.18	8.70	D
61	1016	601.07	65.8	2.05	2.05	96	11.7	2400	578.76	8.43	9.15	817	0	12.3	15.5	235	21696	183	4.2	99	141	1.78	.70	.65	.97	9.18	8.70	D
62	1016	601.43	33.1	2.11	2.11	95	13.0	2380	579.94	8.43	9.15	817	0	12.3	15.5	231	21756	183	4.2	174	141	1.78	.86	.81	.97	9.15	8.70	D
63	1017	601.99	54.3	1.95	1.95	95	13.4	2400	580.66	8.42	9.01	817	0	12.3	15.6	230	21806	184	4.2	121	141	1.78	.76	.71	.97	9.13	8.70	D
64	1017	602.31	84.9	2.19	2.19	95	15.4	2400	580.85	8.42	9.01	817	0	12.3	15.6	231	21826	184	4.2	53	141	1.78	.69	.64	.97	9.12	8.70	D
65	1018	602.60	36.4	1.96	1.96	96	13.9	2390	581.43	8.42	9.01	818	0	12.3	15.6	226	21868	184	4.2	117	141	1.79	.86	.81	.97	9.12	8.70	D
66	1018	602.91	53.8	1.72	1.72	95	13.2	2390	581.82	8.42	9.01	818	0	12.3	15.6	224	21900	185	4.2	85	141	1.79	.76	.71	.97	9.12	8.70	D
67	1018	603.21	49.6	1.71	1.71	95	11.6	2390	582.11	8.41	8.89	818	0	12.3	16.1	222	21927	185	4.2	71	141	1.79	.76	.71	.97	9.12	8.70	D
68	1019	603.51	36.5	2.17	2.17	95	14.9	2390	582.58	8.41	8.89	817	0	12.3	16.1	222	21968	185	4.2	138	141	1.79	.87	.82	.97	9.10	8.70	D
69	1019	603.83	92.7	1.75	1.75	95	13.7	2390	582.78	8.41	8.89	817	0	12.3	16.1	218	21981	186	4.2	40	141	1.80	.65	.60	.97	9.10	8.70	D
70	1019	604.12	43.7	2.36	2.36	95	13.4	2360	583.26	8.41	8.89	816	0	12.3	16.1	220	22019	186	4.2	123	141	1.80	.81	.76	.97	9.10	8.70	D
72	1023	605.33	49.4	2.28	2.52	95	13.1	2440	584.16	8.42	8.78	822	0	12.4	17.3	239	22027	187	4.2	139	140	1.80	.73	.69	.97	9.04	8.70	D†
73	1023	605.65	73.8	1.54	1.54	97	13.5	2430	584.21	8.42	8.78	825	0	12.4	17.3	238	22027	187	4.2	139	140	1.80	.68	.63	.97	9.04	8.70	D†
76	1024	607.21	55.6	2.00	2.00	90	12.4	2420	585.29	8.42	8.67	802	0	12.3	17.2	234	22125	189	4.3	83	139	1.80	.74	.69	.97	9.07	8.70	D
77	1025	607.47	73.8	1.76	1.76	93	12.2	2420	585.47	8.42	8.67	809	0	12.3	17.2	232	22140	189	4.3	69	139	1.80	.68	.63	.97	9.07	8.70	D
78	1025	607.77	36.5	2.22	2.22	91	12.0	2420	585.93	8.40	8.65	819	0	12.3	16.9	229	22183	190	4.3	118	139	1.81	.83	.78	.97	9.05	8.70	D

AMOCO AUST. Tilana No.1

329080

Data Printed at time 11:55 Date Oct 9 '85
Data Recorded at time 10:26 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
579	1026	608.08	37.2	1.99	1.99	90	12.4	2420	586.30	8.40	8.65	821	0	12.3	16.9	227	22226	190	4.3	133	139	1.81	.83	.78	.97	9.05	8.70	D
580	1026	608.70	45.9	1.79	1.79	90	12.3	2430	586.61	8.42	8.80	821	0	12.3	16.3	220	22285	190	4.3	112	139	1.81	.78	.73	.97	9.03	8.70	D
581	1027	609.02	53.0	2.20	2.20	91	11.8	2430	586.61	8.42	8.80	822	0	12.3	16.3	222	22317	191	4.3	108	139	1.82	.74	.70	.97	9.03	8.70	D
582	1027	609.31	55.5	2.29	2.29	90	13.4	2420	586.61	8.42	8.80	822	0	12.3	16.3	221	22344	191	4.3	84	138	1.82	.75	.70	.97	9.03	8.70	D
583	1027	609.60	33.5	1.88	1.88	90	12.0	2420	586.93	8.57	9.01	822	0	12.4	16.1	218	22377	191	4.3	115	138	1.82	.84	.80	.97	9.04	8.70	D
584	1028	609.93	53.6	1.99	1.99	91	13.2	2420	587.62	8.57	9.01	822	0	12.4	16.1	217	22409	192	4.3	111	138	1.82	.76	.71	.97	9.02	8.70	D
585	1028	610.25	47.9	2.21	2.21	91	13.5	2440	588.31	8.57	9.01	821	0	12.4	16.1	218	22442	192	4.3	83	138	1.83	.79	.74	.97	9.01	8.70	D
586	1028	610.54	86.2	1.93	1.93	90	14.3	2440	588.65	8.57	9.01	821	0	12.4	16.1	216	22459	192	4.3	55	138	1.83	.67	.62	.97	9.01	8.70	D
587	1028	610.83	48.4	1.98	1.98	92	11.4	2440	589.34	8.57	9.01	821	0	12.4	16.1	213	22489	193	4.3	121	138	1.83	.76	.71	.97	9.01	8.70	D
588	1029	611.13	32.6	1.91	1.91	90	12.8	2450	589.97	8.56	9.10	822	0	12.5	16.2	212	22528	193	4.3	117	138	1.83	.87	.82	.97	8.98	8.70	D
589	1029	611.45	52.4	2.19	2.19	90	12.2	2440	590.26	8.56	9.10	822	0	12.5	16.2	210	22562	193	4.3	113	138	1.83	.76	.71	.97	8.98	8.70	D
590	1030	611.74	35.1	1.96	1.96	91	12.1	2440	590.63	8.56	9.10	821	0	12.5	16.2	208	22598	193	4.3	109	138	1.83	.84	.80	.97	8.98	8.70	D
591	1030	612.06	48.8	1.89	1.89	90	11.3	2440	590.92	8.56	9.05	821	0	12.4	16.4	203	22633	194	4.3	109	138	1.84	.76	.71	.97	8.98	8.70	D
592	1030	612.35	41.2	2.27	2.27	90	11.1	2430	591.30	8.56	9.05	821	0	12.4	16.4	205	22667	194	4.4	98	138	1.84	.79	.75	.97	8.95	8.70	D
593	1031	612.68	41.2	2.17	2.66	93	13.6	2430	591.68	8.56	9.05	821	0	12.4	16.4	203	22703	194	4.4	117	138	1.84	.84	.79	.97	8.95	8.70	D
594	1031	612.97	45.1	2.12	2.12	98	11.5	2440	591.98	8.56	9.05	820	0	12.4	16.4	203	22737	195	4.4	131	138	1.84	.80	.75	.97	8.95	8.70	D
595	1032	613.29	42.1	2.02	2.02	97	13.0	2440	592.36	8.56	9.05	821	0	12.4	16.4	201	22777	195	4.4	113	138	1.85	.83	.78	.97	8.95	8.70	D
596	1032	613.57	43.9	2.51	2.51	98	11.8	2430	592.59	8.55	9.06	821	0	12.5	16.5	199	22803	195	4.4	128	138	1.85	.81	.76	.97	8.95	8.70	D
597	1041	614.03	22.9	3.33	3.33	96	11.6	2330	596.09	8.57	9.01	243	0	12.2	16.5	249	23039	196	4.4	165	139	1.86	.96	.91	.97	8.80	8.70	DX
598	1041	614.65	43.9	1.55	1.55	96	11.6	2320	596.10	8.56	9.06	303	0	12.2	16.5	247	23039	196	4.4	165	139	1.86	.81	.75	.97	8.80	8.70	D†
599	1042	615.12	64.0	2.80	2.80	102	11.7	2350	596.10	8.56	9.06	805	0	12.2	16.5	247	23072	197	4.4	34	139	1.86	.77	.71	.97	8.78	8.70	D†
601	1042	616.02	48.3	1.25	1.25	100	13.3	2350	596.10	8.56	9.06	805	0	12.2	16.5	244	23148	198	4.5	142	138	1.86	.79	.74	.98	8.82	8.70	D
602	1043	616.32	56.5	1.32	1.32	94	12.4	2350	596.10	8.56	9.06	801	0	12.2	16.5	240	23172	198	4.5	80	138	1.86	.76	.71	.98	8.82	8.70	D
603	1043	616.63	56.9	1.73	1.73	92	13.3	2340	596.10	8.59	9.10	797	0	12.2	16.2	239	23197	198	4.5	87	138	1.87	.77	.72	.98	8.83	8.70	D
604	1043	616.96	42.7	1.64	1.64	89	12.5	2350	596.10	8.59	9.10	803	0	12.2	16.2	238	23237	199	4.5	127	138	1.87	.82	.77	.98	8.82	8.70	D
605	1044	617.28	72.9	2.36	2.36	89	14.7	2340	596.10	8.59	9.10	804	0	12.2	16.2	237	23256	199	4.5	77	138	1.87	.72	.67	.98	8.83	8.70	D
606	1044	617.57	64.8	2.16	2.16	89	14.2	2340	596.10	8.59	9.10	804	0	12.2	16.2	236	23276	199	4.5	99	138	1.87	.74	.69	.98	8.83	8.70	D
607	1044	617.83	34.4	2.29	2.29	90	14.4	2340	596.81	8.56	9.10	804	0	12.2	16.0	235	23313	200	4.5	119	138	1.87	.90	.84	.98	8.81	8.70	D
608	1045	618.16	39.8	2.18	2.18	90	12.5	2340	597.63	8.56	9.10	805	0	12.2	16.0	231	23356	200	4.5	134	138	1.88	.83	.78	.98	8.80	8.70	D
609	1045	618.80	37.3	2.28	2.28	92	12.0	2330	599.05	8.58	9.09	805	0	12.2	16.0	231	23430	201	4.5	144	138	1.88	.85	.80	.98	8.79	8.70	D
610	1046	619.12	41.5	2.58	2.58	95	12.0	2330	599.47	8.58	9.09	805	0	12.2	16.0	227	23472	201	4.5	146	138	1.89	.83	.78	.97	8.77	8.70	D
611	1047	619.68	41.1	2.50	2.50	95	12.3	2320	600.16	8.59	9.12	804	0	12.3	16.1	225	23537	201	4.5	154	138	1.89	.84	.79	.97	8.77	8.70	D
612	1047	619.97	45.3	2.05	2.05	95	13.1	2330	600.39	8.59	9.12	804	0	12.3	16.1	222	23570	202	4.5	91	137	1.89	.83	.78	.98	8.78	8.70	D
613	1047	620.29	69.4	2.67	2.67	94	12.9	2340	600.56	8.59	9.12	804	0	12.3	16.1	222	23595	202	4.5	117	137	1.89	.73	.68	.97	8.78	8.70	D
614	1048	620.58	33.1	2.31	2.31	95	11.4	2350	600.90	8.59	9.12	804	0	12.3	16.1	220	23641	202	4.6	122	137	1.90	.87	.82	.97	8.78	8.70	D
615	1048	620.88	35.0	2.19	2.19	94	11.9	2360	601.28	8.58	9.02	805	0	12.3	16.2	220	23688	203	4.6	151	137	1.90	.87	.81	.97	8.78	8.70	D
616	1048	621.20	52.7	2.05	2.05	95	11.9	2340	601.48	8.58	9.02	804	0	12.3	16.2	218	23713	203	4.6	91	137	1.90	.78	.73	.97	8.78	8.70	D
617	1049	621.49	40.0	1.93	1.93	95	11.4	2340	601.80	8.58	9.02	804	0	12.3	16.2	217	23753	203	4.6	150	137	1.90	.83	.78	.97	8.78	8.70	D
618	1049	621.84	46.3	2.27	2.27	95	11.8	2340	602.17	8.59	8.88	804	0	12.4	16.7	215	23793	204	4.6	138	137	1.90	.80	.75	.98	8.79	8.70	D
619	1050	622.14	30.6	1.58	1.58	96	11.7	2360	602.67	8.59	8.88	804	0	12.4	16.7	214	23842	204	4.6	142	137	1.91	.90	.84	.97	8.79	8.70	D
620	1050	622.43	32.4	1.92	1.92	96	12.6	2350	603.09	8.59	8.88	804	0	12.4	16.7	208	23884	204	4.6	121	137	1.91	.90	.85	.97	8.79	8.70	D
621	1051	622.72	56.7	2.04	2.04	96	12.2	2360	603.35	8.58	8.81	804	0	12.4	17.3	210	23913	204	4.6	150	137	1.91	.77	.71	.98	8.79	8.70	D
622	1051	623.01	33.8	2.10	2.10	96	10.4	2360	603.75	8.58	8.81	805	0	12.4	17.3	210	23957	205	4.6	127	137	1.92	.85	.80	.97	8.79	8.70	D
623	1055	623.35	15.7	1.32	1.32	95	9.6	2460	604.41	8.57	8.74	805	0	12.5	17.3	238	23968	205	4.6	179	137	1.92	1.00	.95	.98	8.75	8.70	DX
624	1056	623.96	54.6	2.06	2.06	96	10.3	2480	604.50	8.57	8.74	521	0	12.5	17.3	239	23978	206	4.6	179	137	1.92	.90	.82	.98	8.75	8.70	D†
626	1056	624.84	40.1	1.36	1.36	97	11.6	2470	604.69	8.57	8.74	805	0	12.5	17.3	236	23998	207	4.6	162	136	1.92	.82	.78	.98	8.79	8.70	D
628	1057	625.78	46.9	2.55	2.55	94	11.2	2460	605.99	8.57	8.84	811	0	12.3	16.8	230	24069	208	4.6	114	136	1.92	.79	.74	.98	8.81	8.70	D
629	1057	626.10	39.8	2.01	2.01	94	12.7	2470	607.26	8.57	8.84	825	0	12.3	16.8	230	24112	208	4.6	126	136	1.93	.85	.80	.98	8.80	8.70	D
630	1058	626.39	41.2	2.06	2.06	94	13.0	2480	607.71	8.57	8.94	829	0	12.2	16.1	226	24149	208	4.6	113	136	1.93	.85	.79	.98	8.80	8.70	D
631	1058	626.67	64.5	1.90	1.90	94	12.1	2470	607.92	8.57	8.94	830	0	12.2	16.1	227	24172	208	4.6	84	136	1.93	.73	.68	.98	8.80	8.70	D

MOCO AUST. Tilana No.1 329081

Data Printed at time 11:59 Date Oct 9 '85
Data Recorded at time 10:58 Date Sep 10 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
632	1058	626.98	31.8	2.11	2.11	95	11.9	2470	608.41	8.57	8.94	830	0	12.2	16.1	224	24224	209	4.7	167	136	1.93	.89	.84	.98	8.80	8.70	D
633	1059	627.28	54.9	2.42	2.42	94	12.5	2470	608.68	8.57	8.94	830	0	12.2	16.1	220	24252	209	4.7	80	136	1.94	.77	.72	.98	8.80	8.70	D
634	1059	627.59	41.0	2.39	2.39	94	10.7	2470	609.06	8.58	9.07	830	0	12.2	15.9	224	24293	209	4.7	118	136	1.94	.81	.76	.98	8.81	8.70	D
635	1059	627.94	89.1	2.23	2.23	94	11.4	2470	609.21	8.58	9.07	830	0	12.2	15.9	221	24314	210	4.7	61	136	1.94	.65	.60	.98	8.81	8.70	D
636	1100	628.21	38.9	2.22	2.22	94	13.2	2480	609.59	8.58	9.07	830	0	12.2	15.9	219	24348	210	4.7	109	136	1.94	.86	.81	.98	8.81	8.70	D
637	1100	628.53	60.7	2.37	2.37	94	13.7	2470	609.88	8.60	9.11	831	0	12.3	15.9	216	24378	210	4.7	100	135	1.94	.76	.71	.98	8.82	8.70	D
638	1100	628.88	57.3	1.93	1.93	94	10.9	2470	610.15	8.60	9.11	831	0	12.3	15.9	217	24411	211	4.7	90	135	1.94	.74	.69	.98	8.82	8.70	D
639	1101	629.44	54.5	2.35	2.35	93	13.6	2470	610.56	8.60	9.11	831	0	12.3	15.9	210	24459	211	4.7	127	135	1.95	.79	.73	.98	8.82	8.70	D
640	1101	629.79	45.0	2.44	2.44	95	11.3	2470	611.03	8.61	9.07	830	0	12.3	16.0	214	24503	211	4.7	137	135	1.95	.80	.75	.98	8.83	8.70	D
641	1102	630.05	64.8	2.00	2.00	94	12.0	2470	611.19	8.61	9.07	830	0	12.3	16.0	209	24524	212	4.7	62	135	1.95	.73	.67	.98	8.83	8.70	D
642	1102	630.64	27.7	1.82	1.82	94	13.2	2480	612.12	8.61	9.02	831	0	12.3	16.2	206	24613	212	4.7	126	135	1.96	.94	.88	.98	8.83	8.70	D
643	1103	630.99	45.8	1.96	1.96	94	13.2	2470	612.47	8.61	9.02	831	0	12.3	16.2	204	24656	213	4.7	190	135	1.96	.82	.77	.98	8.83	8.70	D
644	1104	631.25	23.1	2.13	2.13	94	12.9	2470	613.02	8.61	8.93	830	0	12.4	16.4	200	24717	213	4.7	198	135	1.97	.97	.92	.98	8.83	8.70	D
645	1104	631.57	65.8	2.13	2.13	94	11.1	2470	613.23	8.61	8.93	831	0	12.4	16.4	199	24742	213	4.7	64	135	1.97	.71	.66	.98	8.84	8.70	D
646	1104	631.87	61.5	2.07	2.07	94	10.9	2480	613.37	8.61	8.93	831	0	12.4	16.4	200	24761	214	4.7	72	135	1.97	.72	.67	.98	8.84	8.70	D
647	1104	632.16	55.1	1.96	1.96	94	12.0	2440	613.64	8.61	8.93	831	0	12.4	16.4	198	24789	214	4.8	120	135	1.97	.76	.71	.98	8.84	8.70	D
648	1113	632.52	27.3	1.99	1.99	95	12.5	2420	614.41	8.61	9.16	350	0	12.2	16.4	253	24967	214	4.8	88	136	1.98	.93	.87	.98	8.83	8.70	DX
649	1113	633.28	60.7	2.35	2.35	95	12.5	2430	614.41	8.61	9.16	819	0	12.2	16.4	252	24967	215	4.8	88	135	1.98	.77	.73	.98	8.83	8.70	D†
651	1114	634.30	51.7	2.10	2.10	101	14.3	2390	615.10	8.58	9.18	810	0	12.2	16.3	245	25044	216	4.8	143	135	1.98	.78	.74	.98	8.88	8.70	D
652	1115	634.63	48.1	2.11	2.11	96	15.0	2390	615.54	8.58	9.18	817	0	12.2	16.3	244	25082	216	4.8	62	135	1.98	.84	.78	.98	8.88	8.70	D
653	1115	634.90	36.3	2.06	2.06	96	12.7	2420	616.01	8.56	9.15	819	0	12.2	16.0	239	25123	217	4.8	124	135	1.99	.86	.81	.98	8.88	8.70	D
654	1116	635.24	38.2	2.20	2.20	96	17.2	2410	616.69	8.56	9.15	818	0	12.2	16.0	237	25173	217	4.8	181	135	1.99	.92	.86	.98	8.88	8.70	D
655	1116	635.57	62.3	2.03	2.03	96	14.3	2410	616.98	8.56	9.15	818	0	12.2	16.0	235	25202	217	4.8	70	135	1.99	.77	.71	.98	8.88	8.70	D
656	1116	635.83	52.7	2.19	2.19	95	12.8	2410	617.26	8.57	9.20	819	0	12.2	15.9	236	25228	218	4.8	73	135	1.99	.78	.73	.98	8.88	8.70	D
657	1116	636.12	49.2	2.05	2.05	95	13.9	2410	617.47	8.57	9.20	819	0	12.2	15.9	235	25252	218	4.8	70	135	2.00	.81	.76	.98	8.88	8.70	D
658	1117	636.44	58.4	1.52	1.52	96	11.4	2410	617.76	8.57	9.20	819	0	12.2	15.9	232	25282	218	4.9	81	135	2.00	.74	.69	.98	8.89	8.70	D
659	1117	636.74	76.5	2.18	2.18	95	9.3	2410	617.98	8.57	9.20	819	0	12.2	15.9	233	25303	218	4.9	100	135	2.00	.65	.60	.98	8.89	8.70	D
660	1117	637.09	49.5	2.47	2.47	97	13.8	2430	618.34	8.56	9.19	819	0	12.2	15.9	229	25341	219	4.9	106	135	2.00	.81	.76	.98	8.89	8.70	D
661	1118	637.64	62.6	2.09	2.09	104	15.3	2430	618.68	8.56	9.19	820	0	12.2	15.9	228	25388	219	4.9	95	134	2.00	.79	.73	.98	8.90	8.70	D
662	1118	637.99	46.7	2.12	2.12	105	13.6	2450	619.03	8.56	9.19	822	0	12.2	15.9	226	25435	220	4.9	134	134	2.01	.84	.78	.98	8.90	8.70	D
663	1118	638.26	64.4	2.07	2.07	106	14.5	2450	619.24	8.56	9.19	823	0	12.2	15.9	226	25460	220	4.9	75	134	2.01	.78	.72	.98	8.90	8.70	D
664	1119	638.61	65.9	1.90	1.90	106	14.1	2450	619.44	8.58	9.02	824	0	12.2	16.1	224	25488	220	4.9	71	134	2.01	.77	.71	.98	8.91	8.70	D
665	1119	638.87	64.9	2.16	2.16	105	13.0	2450	619.65	8.58	9.02	824	0	12.2	16.1	226	25511	221	4.9	97	134	2.01	.76	.70	.98	8.91	8.70	D
666	1119	639.20	105	2.30	2.30	106	13.5	2450	619.79	8.58	9.02	825	0	12.2	16.1	223	25528	221	4.9	73	134	2.01	.66	.60	.98	8.91	8.70	D
667	1119	639.47	40.8	2.33	2.33	105	14.3	2440	620.07	8.58	9.02	825	0	12.2	16.1	219	25567	221	4.9	98	134	2.02	.88	.82	.98	8.91	8.70	D
668	1120	639.84	129	2.46	2.46	107	15.5	2450	620.21	8.58	9.02	825	0	12.2	16.1	221	25583	222	4.9	33	134	2.02	.63	.57	.98	8.91	8.70	D
669	1120	640.10	63.1	1.82	1.82	104	13.1	2440	620.41	8.56	8.86	825	0	12.3	16.7	221	25606	222	4.9	62	134	2.02	.76	.71	.98	8.91	8.70	D
670	1120	640.72	47.1	1.84	1.84	106	11.3	2450	620.86	8.56	8.86	825	0	12.3	16.7	215	25672	222	4.9	103	134	2.03	.80	.75	.98	8.92	8.70	D
671	1121	641.01	47.9	2.24	2.24	105	15.3	2440	621.18	8.56	8.86	825	0	12.3	16.7	214	25709	223	4.9	100	133	2.03	.86	.80	.98	8.92	8.70	D
672	1124	641.33	37.0	2.18	2.92	106	14.2	2470	621.91	8.56	8.78	825	0	12.4	17.3	235	25718	223	4.9	87	133	2.03	.89	.83	.98	8.90	8.70	DX
673	1124	642.64	47.2	2.15	2.15	106	14.2	2470	621.96	8.56	8.78	436	0	12.4	17.3	235	25718	224	4.9	87	133	2.03	.86	.81	.98	8.89	8.70	D†
674	1125	643.74	35.7	1.69	1.69	99	9.8	2470	622.75	8.56	8.71	806	0	12.3	17.2	231	25815	226	4.9	163	132	2.04	.82	.77	.99	8.93	8.70	D
675	1126	644.08	82.8	1.87	1.87	94	13.8	2460	622.85	8.56	8.71	815	0	12.3	17.2	230	25837	226	4.9	94	132	2.04	.69	.63	.99	8.94	8.70	D
676	1126	644.37	52.7	2.26	2.26	94	11.5	2470	623.05	8.56	8.71	824	0	12.3	17.2	228	25865	226	4.9	79	132	2.04	.76	.70	.99	8.94	8.70	D
677	1126	644.66	67.7	1.79	1.79	93	14.4	2470	623.19	8.56	8.71	827	0	12.3	17.2	226	25887	226	5.0	99	132	2.04	.74	.68	.99	8.94	8.70	D
678	1127	644.97	59.7	2.03	2.03	95	14.4	2470	623.34	8.56	8.71	828	0	12.3	17.2	226	25914	227	5.0	76	132	2.04	.77	.71	.99	8.95	8.70	D
679	1127	645.28	80.7	1.91	1.91	93	11.6	2460	623.49	8.56	8.71	828	0	12.3	17.2	224	25934	227	5.0	93	132	2.04	.66	.61	.99	8.95	8.70	D
680	1127	645.66	58.6	1.77	1.77	95	10.5	2470	623.68	8.56	8.71	829	0	12.3	17.2	222	25969	227	5.0	64	132	2.05	.72	.67	.99	8.95	8.70	D
681	1128	645.88	31.8	2.34	2.34	95	12.4	2470	624.22	8.56	8.90	829	0	12.2	16.4	224	26005	228	5.0	95	132	2.05	.88	.83	.99	8.95	8.70	D
682	1128	646.19	71.7	1.66	1.66	95	13.7	2480	624.61	8.56	8.90	830	0	12.2	16.4	220	26028	228	5.0	100	132	2.05	.72	.66	.99	8.95	8.70	D

AMOCO AUST. Tilana No.1 329082 Data Printed at time 12:03 Date Oct 9 '85 Data Recorded at time 11:28 Date Sep 10 '85 14

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
683	1128	646.57	44.7	1.47	1.47	95	13.3	2470	625.40	8.56	8.90	830	0	12.2	16.4	216	26074	228	5.0	125	132	2.05	.82	.76	.99	8.95	8.70	D
684	1129	647.18	65.4	2.05	2.05	95	13.4	2480	626.03	8.54	9.15	830	0	12.3	16.1	216	26120	229	5.0	69	132	2.05	.74	.68	.99	8.94	8.70	D
685	1129	647.77	48.6	2.24	2.24	95	13.9	2470	626.56	8.54	9.15	829	0	12.3	16.1	215	26181	229	5.0	72	132	2.06	.81	.75	.99	8.95	8.70	D
686	1130	648.35	54.3	2.01	2.01	95	13.9	2470	627.02	8.54	9.15	829	0	12.3	16.1	211	26233	230	5.0	129	131	2.06	.78	.73	.99	8.95	8.70	D
687	1130	648.67	50.2	1.67	1.67	95	12.2	2470	627.28	8.55	9.16	830	0	12.4	16.2	211	26268	230	5.0	87	131	2.06	.78	.72	.99	8.95	8.70	D
688	1130	648.97	118	2.32	2.32	93	12.7	2470	627.41	8.55	9.16	830	0	12.4	16.2	208	26280	231	5.0	90	131	2.06	.59	.53	.99	8.95	8.70	D
689	1131	649.23	28.9	1.90	1.90	94	12.6	2470	627.79	8.55	9.16	829	0	12.4	16.2	208	26326	231	5.0	129	131	2.07	.90	.85	.99	8.95	8.70	D
690	1131	649.55	80.8	1.97	1.97	94	13.7	2470	627.93	8.57	9.16	829	0	12.4	16.3	206	26347	231	5.0	74	131	2.07	.69	.63	.99	8.95	8.70	D
691	1131	649.87	51.4	2.02	2.02	94	12.2	2470	628.27	8.57	9.16	829	0	12.4	16.3	203	26381	232	5.0	94	131	2.07	.77	.71	.99	8.95	8.70	D
692	1132	650.45	39.9	2.28	2.28	95	13.2	2420	628.86	8.56	9.18	828	0	12.5	16.5	203	26450	232	5.1	142	131	2.08	.84	.78	.99	8.96	8.70	D
693	1143	651.39	77.7	2.60	2.60	95	13.2	2540	632.90	8.57	9.07	785	0	12.1	16.4	252	26501	233	5.1	273	131	2.08	.77	.71	.99	8.90	8.70	D†
695	1144	652.29	62.5	2.02	2.02	103	13.2	2540	632.90	8.57	9.07	817	0	12.1	16.4	249	26513	234	5.1	273	131	2.08	.76	.72	.99	8.91	8.70	D†
696	1144	652.94	54.5	2.32	2.85	104	13.5	2520	632.90	8.57	9.07	831	0	12.1	16.4	247	26537	235	5.1	46	130	2.08	.78	.74	.99	8.91	8.70	D
697	1144	653.38	57.1	2.30	2.63	103	14.3	2530	632.90	8.57	9.07	835	0	12.1	16.4	247	26549	235	5.1	24	130	2.08	.81	.77	.99	8.93	8.70	D
698	1145	653.81	23.9	1.55	1.55	97	15.0	2520	632.90	8.58	9.05	840	0	12.2	16.0	241	26657	236	5.1	92	130	2.09	.99	.93	.99	8.94	8.70	D
699	1145	654.11	79.4	1.62	1.62	100	20.4	2520	632.90	8.58	9.05	840	0	12.2	16.0	239	26677	236	5.1	61	130	2.09	.78	.71	.99	8.94	8.70	D
700	1146	654.43	64.1	1.55	1.55	99	18.7	2530	632.90	8.58	9.05	839	0	12.2	16.0	238	26706	236	5.1	63	130	2.09	.81	.75	.99	8.95	8.70	D
701	1146	654.78	64.4	1.79	1.79	98	18.7	2520	633.14	8.57	9.08	839	0	12.2	15.9	237	26736	237	5.1	103	130	2.09	.81	.75	.99	8.95	8.70	D
702	1147	655.34	39.5	2.26	2.26	97	19.5	2510	633.81	8.57	9.08	838	0	12.2	15.9	234	26801	237	5.1	165	130	2.10	.93	.87	.99	8.95	8.70	D
703	1147	655.66	41.2	1.94	1.94	97	18.3	2510	634.15	8.58	9.14	838	0	12.2	16.1	229	26838	237	5.1	103	130	2.10	.91	.85	.99	8.95	8.70	D
704	1147	655.93	31.4	2.10	2.10	98	16.4	2510	634.55	8.58	9.14	838	0	12.2	16.1	232	26879	238	5.1	123	130	2.10	.95	.89	.99	8.94	8.70	D
705	1148	656.24	135	1.96	1.96	97	16.4	2500	634.71	8.58	9.14	838	0	12.2	16.1	228	26890	238	5.1	69	130	2.10	.60	.54	.99	8.94	8.70	D
706	1148	656.56	66.4	2.16	2.16	98	17.4	2520	634.95	8.58	9.14	838	0	12.2	16.1	224	26914	238	5.1	62	130	2.11	.79	.72	.99	8.95	8.70	D
707	1148	656.86	45.3	2.21	2.21	98	17.4	2520	635.27	8.58	9.14	838	0	12.2	16.1	227	26952	239	5.1	106	130	2.11	.88	.82	.99	8.95	8.70	D
708	1148	657.15	80.7	1.99	1.99	96	17.3	2510	635.47	8.60	9.18	838	0	12.3	16.3	223	26973	239	5.1	67	130	2.11	.73	.67	.99	8.95	8.70	D
709	1149	657.47	88.7	2.09	2.09	98	16.6	2490	635.60	8.60	9.18	839	0	12.3	16.3	223	26992	239	5.2	51	129	2.11	.71	.65	.99	8.95	8.70	D
710	1149	657.79	105	1.87	1.87	95	16.0	2510	635.73	8.60	9.18	839	0	12.3	16.3	224	27010	240	5.2	53	129	2.11	.66	.60	.99	8.95	8.70	D
711	1149	658.09	36.5	2.08	2.08	98	16.1	2520	636.13	8.60	9.18	839	0	12.3	16.3	222	27052	240	5.2	113	129	2.12	.91	.85	.99	8.95	8.70	D
712	1150	658.50	74.4	2.14	2.14	98	16.6	2510	636.33	8.60	9.18	839	0	12.3	16.3	220	27080	240	5.2	115	129	2.12	.75	.69	.99	8.95	8.70	D
713	1150	658.98	41.6	2.09	2.09	97	17.1	2520	636.94	8.58	9.09	838	0	12.3	16.7	218	27140	241	5.2	83	129	2.12	.89	.83	.99	8.95	8.70	D
714	1150	659.29	65.8	1.90	1.90	98	16.9	2520	637.33	8.58	9.09	838	0	12.3	16.7	217	27166	241	5.2	89	129	2.12	.78	.72	.99	8.95	8.70	D
715	1151	659.64	116	2.15	2.15	98	14.4	2520	637.53	8.58	9.09	838	0	12.3	16.7	217	27182	241	5.2	86	129	2.12	.62	.56	.99	8.95	8.70	D
716	1151	660.21	44.5	2.25	2.25	98	16.6	2520	638.20	8.57	8.98	839	0	12.3	16.8	214	27246	242	5.2	107	129	2.13	.87	.81	.99	8.95	8.70	D
717	1152	660.51	36.0	1.69	1.69	97	18.0	2520	638.77	8.57	8.98	840	0	12.3	16.8	209	27293	242	5.2	126	129	2.13	.94	.88	.99	8.95	8.70	D
718	1157	660.82	47.5	1.78	1.87	98	18.4	2490	641.13	8.58	8.89	839	0	12.4	17.2	234	27311	242	5.2	129	129	2.13	.89	.82	.99	8.88	8.70	DX
719	1157	662.05	47.6	2.14	2.52	106	16.3	2540	641.70	8.57	8.68	839	0	12.3	17.6	231	27365	244	5.2	123	128	2.14	.89	.83	.99	8.90	8.70	D
720	1158	662.96	48.3	1.88	2.32	101	16.3	2530	641.95	8.57	8.68	822	0	12.3	17.6	230	27398	245	5.2	189	128	2.14	.91	.86	.99	8.92	8.70	D
721	1159	663.25	49.8	1.94	1.94	94	12.0	2520	643.06	8.57	8.58	838	0	12.3	17.3	228	27478	245	5.2	219	128	2.14	.97	.91	.99	8.93	8.70	D
722	1159	663.57	81.1	1.88	1.88	98	16.5	2520	643.33	8.57	8.58	839	0	12.3	17.3	228	27499	245	5.2	142	128	2.15	.73	.67	.99	8.92	8.70	D
723	1159	663.87	33.9	1.85	1.85	98	18.3	2520	644.16	8.57	8.58	839	0	12.3	17.3	223	27544	246	5.2	113	128	2.15	.96	.90	.99	8.92	8.70	D
724	1200	664.16	63.5	2.18	2.18	97	18.3	2520	644.57	8.56	8.81	839	0	12.3	16.6	222	27569	246	5.3	115	128	2.15	.81	.74	.99	8.91	8.70	D
725	1200	664.48	82.5	1.86	1.86	98	17.8	2520	644.83	8.56	8.81	838	0	12.3	16.6	221	27592	246	5.3	98	128	2.15	.74	.68	.99	8.91	8.70	D
726	1200	665.10	51.2	1.68	1.68	98	18.7	2520	645.44	8.56	8.81	839	0	12.3	16.6	219	27648	247	5.3	100	128	2.16	.87	.80	.99	8.91	8.70	D
727	1201	665.42	52.8	2.04	2.04	97	18.5	2520	645.79	8.56	8.81	838	0	12.3	16.6	215	27683	247	5.3	80	128	2.16	.86	.79	.99	8.91	8.70	D
728	1201	665.77	72.4	1.74	1.74	98	18.4	2520	646.04	8.58	9.03	838	0	12.3	16.2	217	27709	247	5.3	65	128	2.16	.78	.71	.99	8.91	8.70	D
729	1201	666.30	64.9	2.14	2.14	98	17.7	2510	646.47	8.58	9.03	838	0	12.3	16.2	215	27751	248	5.3	83	128	2.16	.80	.73	.99	8.91	8.70	D
730	1202	666.65	52.1	1.61	1.61	98	17.2	2510	646.90	8.58	9.03	839	0	12.3	16.2	214	27788	248	5.3	90	128	2.16	.85	.78	.99	8.91	8.70	D
731	1202	667.23	41.6	2.19	2.19	98	18.2	2520	647.58	8.58	9.16	838	0	12.4	16.4	211	27850	249	5.3	156	127	2.17	.91	.85	.99	8.91	8.70	D
732	1203	667.52	65.2	2.38	2.38	98	18.3	2520	647.83	8.58	9.16	839	0	12.4	16.4	207	27875	249	5.3	72	127	2.17	.81	.74	.99	8.91	8.70	D
733	1203	667.82	47.7	1.75	1.75	97	17.7	2530	648.17	8.58	9.16	839	0	12.4	16.4	208	27910	250	5.3	95	127	2.17	.87	.80	.99	8.91	8.70	D

AMOCO AUST. Tilana No.1 329083

Data Printed at time 12:07 Date Oct 9 '85
Data Recorded at time 12:03 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST FM PR	
734	1203	668.20	120	1.89	1.89	98	18.2	2520	648.34	8.58	9.16	839	0	12.4	16.4	208	27928	250	5.3	29	127	2.17	.65	.59	.99	8.91	8.70	D
735	1204	668.49	44.9	2.49	2.49	98	18.1	2520	648.69	8.57	9.20	839	0	12.5	16.6	205	27962	250	5.3	99	127	2.18	.89	.83	.99	8.91	8.70	D
736	1204	669.05	66.3	1.69	1.69	98	17.9	2520	649.22	8.57	9.20	839	0	12.5	16.6	202	28006	251	5.3	111	127	2.18	.80	.73	.99	8.91	8.70	D
737	1205	669.35	30.9	2.44	2.44	98	17.8	2510	649.76	8.57	9.20	839	0	12.5	16.6	202	28058	251	5.3	118	127	2.18	.98	.91	.99	8.90	8.70	D
738	1205	669.66	37.9	1.85	1.85	97	18.0	2510	650.20	8.57	9.12	838	0	12.5	16.7	197	28099	251	5.3	115	127	2.19	.93	.87	.99	8.90	8.70	D
739	1205	669.96	43.4	2.19	2.19	98	17.0	2510	650.28	8.57	9.12	838	0	12.5	16.7	198	28106	252	5.3	122	127	2.19	.89	.82	.99	8.90	8.70	D
740	1218	671.52	40.6	2.31	2.31	94	13.2	2600	652.80	8.54	9.05	853	0	12.2	16.1	240	28291	253	5.4	86	127	2.20	.84	.78	1.00	8.89	8.70	D
741	1218	671.81	72.4	1.80	1.80	93	17.2	2600	653.26	8.54	9.05	853	0	12.2	16.1	237	28312	254	5.4	62	127	2.20	.76	.69	1.00	8.89	8.70	D
742	1219	672.13	77.6	1.80	1.80	93	18.8	2600	653.73	8.54	9.05	853	0	12.2	16.1	236	28334	254	5.4	60	127	2.20	.76	.69	1.00	8.89	8.70	D
743	1219	672.78	107	2.20	2.20	94	18.2	2600	654.35	8.54	9.05	853	0	12.2	16.1	234	28367	255	5.4	49	127	2.20	.67	.61	1.00	8.89	8.70	D
744	1219	673.16	106	2.33	2.33	93	17.6	2600	654.66	8.54	9.05	853	0	12.2	16.1	234	28385	255	5.4	43	126	2.20	.67	.60	1.00	8.89	8.70	D
745	1220	673.62	80.9	2.11	2.11	92	19.2	2600	654.86	8.53	9.08	853	0	12.2	16.0	230	28413	255	5.4	59	126	2.20	.75	.68	1.00	8.89	8.70	D
746	1220	673.92	52.5	2.18	2.18	91	22.7	2610	655.05	8.53	9.08	853	0	12.2	16.0	231	28444	256	5.4	133	126	2.21	.89	.82	1.00	8.89	8.70	D
747	1220	674.23	53.5	2.14	2.14	93	22.6	2610	655.19	8.53	9.08	853	0	12.2	16.0	228	28470	256	5.4	76	126	2.21	.89	.82	1.00	8.90	8.70	D
748	1220	674.53	50.0	2.57	2.57	91	21.9	2610	655.42	8.53	9.08	854	0	12.2	16.0	228	28502	256	5.4	99	126	2.21	.89	.83	1.00	8.90	8.70	D
749	1221	674.83	56.0	2.43	2.71	93	20.1	2610	655.63	8.55	8.95	854	0	12.3	16.1	226	28530	257	5.4	82	126	2.21	.85	.78	1.00	8.90	8.70	D
750	1221	675.14	80.9	2.38	2.38	93	18.1	2600	655.86	8.55	8.95	854	0	12.3	16.1	226	28552	257	5.4	68	126	2.21	.74	.67	1.00	8.90	8.70	D
751	1221	675.44	87.4	2.22	2.22	93	16.8	2600	656.02	8.55	8.95	854	0	12.3	16.1	224	28571	257	5.4	69	126	2.22	.71	.64	1.00	8.90	8.70	D
752	1222	675.75	46.5	2.19	2.42	93	14.6	2590	656.42	8.55	8.95	854	0	12.3	16.1	220	28605	258	5.4	89	126	2.22	.83	.77	1.00	8.90	8.70	D
753	1222	676.06	52.9	2.05	2.05	94	13.4	2580	656.65	8.55	8.95	853	0	12.3	16.1	221	28633	258	5.4	82	126	2.22	.78	.72	1.00	8.90	8.70	D
754	1222	676.41	70.0	2.14	2.14	91	11.9	2590	657.00	8.55	8.74	852	0	12.3	17.0	222	28660	258	5.4	102	126	2.22	.70	.64	1.00	8.90	8.70	D
755	1222	676.66	50.1	1.74	1.74	91	10.1	2500	657.29	8.55	8.74	852	0	12.3	17.0	215	28685	258	5.4	80	126	2.22	.74	.69	1.00	8.90	8.70	D
756	1223	676.96	32.9	1.53	1.53	93	9.0	2610	657.96	8.55	8.74	853	0	12.3	17.0	214	28735	259	5.5	117	126	2.23	.81	.76	1.00	8.90	8.70	D
757	1223	677.27	37.8	2.00	2.00	92	11.0	2610	658.44	8.55	8.74	853	0	12.3	17.0	214	28779	259	5.5	108	126	2.23	.82	.76	1.00	8.89	8.70	D
758	1224	677.58	29.7	1.83	2.01	93	10.4	2580	659.19	8.55	8.45	854	0	12.4	17.9	207	28835	259	5.5	155	126	2.23	.86	.81	1.00	8.89	8.70	D
759	1225	677.90	36.1	1.63	1.63	93	9.7	2590	659.68	8.55	8.45	853	0	12.4	17.9	205	28885	260	5.5	203	126	2.23	.81	.75	1.00	8.89	8.70	D
760	1225	678.18	25.6	2.03	2.03	92	10.9	2590	660.32	8.55	8.45	853	0	12.4	17.9	203	28943	260	5.5	165	126	2.24	.90	.84	1.00	8.88	8.70	D
761	1226	678.49	28.3	1.65	1.65	94	10.4	2590	660.88	8.58	8.48	853	0	12.5	17.6	201	29002	260	5.5	156	126	2.24	.88	.82	1.00	8.88	8.70	D
762	1226	678.80	53.5	1.63	1.63	93	10.0	2590	661.12	8.58	8.48	853	0	12.5	17.6	195	29025	261	5.5	79	126	2.24	.73	.67	1.00	8.88	8.70	D
763	1241	680.63	40.6	2.20	2.20	92	16.3	2500	671.26	8.58	8.75	836	0	12.5	16.5	187	29210	262	5.5	138	126	2.25	.79	.73	1.00	8.76	8.70	D
764	1242	680.93	56.3	2.40	2.40	91	16.6	2500	671.30	8.58	8.75	835	0	12.5	16.5	182	29237	263	5.6	143	126	2.25	.82	.75	1.00	8.76	8.70	D
765	1242	681.25	68.9	2.50	2.50	93	17.9	2490	671.32	8.58	8.89	835	0	12.5	16.4	183	29262	263	5.6	88	126	2.26	.79	.72	1.00	8.76	8.70	D
766	1242	681.54	60.6	2.50	2.50	95	19.3	2480	671.32	8.58	8.89	835	0	12.5	16.4	180	29284	263	5.6	68	126	2.26	.84	.77	1.00	8.77	8.70	D
767	1243	681.89	78.7	2.48	2.48	95	20.3	2490	671.32	8.58	8.89	835	0	12.5	16.4	180	29310	264	5.6	84	126	2.26	.78	.71	1.00	8.77	8.70	D
768	1243	682.16	30.7	2.00	2.00	95	19.9	2490	671.32	8.58	8.89	834	0	12.5	16.4	179	29348	264	5.6	110	126	2.26	1.02	.95	1.00	8.77	8.70	D
769	1243	682.45	48.0	2.62	2.62	95	18.9	2480	671.32	8.58	8.89	834	0	12.5	16.4	180	29356	264	5.6	97	126	2.26	.91	.46	1.00	8.78	8.70	D
770	1243	682.77	57.7	2.20	2.20	95	18.0	2480	671.32	8.58	8.98	834	0	12.5	16.4	175	29387	265	5.6	87	125	2.27	.84	.77	1.00	8.78	8.70	D
771	1244	683.06	44.5	2.86	2.86	95	19.1	2490	671.32	8.58	8.98	834	0	12.5	16.4	177	29422	265	5.6	122	125	2.27	.91	.84	1.00	8.78	8.70	D
772	1244	683.39	105	2.77	2.77	95	19.1	2500	671.32	8.58	8.98	834	0	12.5	16.4	173	29439	265	5.6	45	125	2.27	.70	.63	1.00	8.79	8.70	D
773	1244	683.68	59.1	2.17	2.17	94	18.5	2500	671.32	8.58	8.98	834	0	12.5	16.4	172	29465	265	5.6	78	125	2.27	.83	.76	1.00	8.79	8.70	D
774	1245	683.97	43.5	2.46	2.46	95	17.8	2490	671.32	8.58	8.98	835	0	12.5	16.4	173	29501	266	5.6	121	125	2.27	.90	.83	1.00	8.80	8.70	D
775	1245	684.35	124	2.52	2.52	95	18.4	2490	671.32	8.58	9.00	835	0	12.5	16.6	170	29518	266	5.6	43	125	2.27	.65	.58	1.00	8.80	8.70	D
776	1245	684.97	64.6	2.80	2.80	94	17.9	2490	671.32	8.58	9.00	835	0	12.5	16.6	169	29567	267	5.6	103	125	2.28	.80	.73	1.00	8.81	8.70	D
777	1246	685.26	25.4	2.62	2.62	95	19.7	2490	671.32	8.57	8.98	834	0	12.5	16.9	169	29629	267	5.6	178	125	2.28	1.06	.99	1.00	8.82	8.70	D
778	1247	685.81	39.2	2.32	2.32	95	21.2	2500	672.13	8.57	8.98	835	0	12.5	16.9	165	29697	268	5.6	169	125	2.29	.96	.89	1.00	8.82	8.70	D
779	1247	686.14	65.8	2.35	2.35	95	20.5	2500	672.40	8.57	8.98	836	0	12.5	16.9	160	29724	268	5.6	71	125	2.29	.83	.76	1.00	8.81	8.70	D
780	1247	686.41	32.5	2.27	2.27	95	18.8	2490	672.76	8.57	8.98	836	0	12.5	16.9	162	29758	268	5.6	101	125	2.29	.98	.91	1.00	8.81	8.70	D
781	1247	686.75	107	2.07	2.07	95	16.8	2500	673.05	8.58	8.92	836	0	12.4	16.9	161	29775	269	5.6	101	125	2.29	.67	.60	1.00	8.81	8.70	D
782	1248	687.07	80.9	2.54	2.54	95	15.8	2500	673.31	8.58	8.92	835	0	12.4	16.9	158	29796	269	5.7	50	125	2.29	.73	.66	1.00	8.81	8.70	D
783	1248	687.37	45.2	2.32	2.32	95	19.8	2500	673.83	8.58	8.92	835	0	12.4	16.9	158	29829	269	5.7	107	125	2.30	.91	.84	1.00	8.81	8.70	D

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
784	1249	687.95	52.7	2.29	2.29	95	21.3	2470	674.74	8.58	8.92	835	0	12.4	16.9	154	29883	270	5.7	116	125	2.30	.89	.82	1.00	8.81	8.70	D
Run survey.																												
786	1337	688.30	33.4	2.52	2.82	98	21.4	2510	680.11	8.56	8.83	838	0	12.5	16.6	211	30573	270	5.8	235	127	2.35	1.02	.95	1.00	8.74	8.70	D
787	1348	692.51	24.4	2.60	2.60	95	22.7	2360	685.33	8.52	8.65	811	0	12.3	16.2	233	30997	274	5.9	157	126	2.37	1.12	1.04	1.00	8.74	8.70	D
788	1348	692.82	73.0	2.44	2.44	96	25.4	2370	685.47	8.52	8.65	811	0	12.3	16.2	230	31018	275	5.9	80	126	2.38	.86	.78	1.00	8.74	8.70	D
789	1349	693.17	42.6	2.38	2.38	96	23.6	2360	685.91	8.52	8.65	811	0	12.3	16.2	228	31063	275	5.9	124	126	2.38	.98	.91	1.00	8.74	8.70	D
790	1349	693.42	62.5	2.43	2.43	96	21.0	2370	686.13	8.52	8.65	811	0	12.3	16.2	227	31085	275	5.9	77	126	2.38	.86	.78	1.00	8.74	8.70	D
791	1350	693.75	39.8	2.22	2.22	97	21.2	2370	686.48	8.53	8.66	811	0	12.3	15.9	227	31132	275	5.9	136	126	2.38	.97	.90	1.00	8.74	8.70	D
792	1350	694.05	59.3	2.41	2.41	98	21.7	2370	686.74	8.53	8.66	811	0	12.3	15.9	225	31158	276	5.9	73	126	2.39	.88	.80	1.00	8.74	8.70	D
793	1350	694.34	39.1	2.40	2.40	98	21.6	2370	687.06	8.53	8.66	812	0	12.3	15.9	224	31198	276	5.9	113	126	2.39	.99	.91	1.00	8.74	8.70	D
794	1351	694.69	38.2	2.32	2.32	97	20.9	2370	687.45	8.53	8.66	812	0	12.3	15.9	220	31251	276	5.9	127	126	2.39	.98	.91	1.00	8.74	8.70	D
795	1351	694.96	24.6	2.20	2.20	97	21.2	2370	688.00	8.52	8.69	812	0	12.4	16.0	221	31300	277	5.9	155	126	2.39	1.10	1.02	1.00	8.73	8.70	D
796	1352	695.25	39.7	2.25	2.25	97	21.6	2370	688.51	8.52	8.69	811	0	12.4	16.0	218	31338	277	5.9	113	126	2.40	.98	.91	1.00	8.73	8.70	D
797	1352	695.56	44.2	2.12	2.12	98	21.0	2370	689.02	8.52	8.69	811	0	12.4	16.0	215	31379	277	5.9	139	126	2.40	.95	.87	1.00	8.73	8.70	D
798	1353	695.89	23.3	2.21	2.21	97	22.8	2370	689.22	8.51	8.75	812	0	12.4	16.3	211	31459	278	5.9	217	126	2.41	1.14	1.06	1.00	8.72	8.70	D
799	1353	696.18	38.1	2.15	2.15	97	21.5	2370	689.27	8.52	8.89	812	0	12.5	16.6	212	31503	278	6.0	136	126	2.41	.99	.92	1.00	8.73	8.70	D
800	1354	696.48	21.2	2.16	2.16	95	20.5	2380	689.27	8.52	8.89	812	0	12.5	16.6	207	31580	278	6.0	256	126	2.41	1.12	1.05	1.00	8.73	8.70	D
801	1407	712.02	62.7	1.83	1.83	98	19.8	2500	689.34	8.58	8.74	830	0	12.4	16.6	213	32223	294	6.1	68	122	2.46	.72	.66	1.01	8.93	8.70	D
802	1428	712.41	29.0	1.96	1.96	97	20.1	2640	701.83	8.54	8.80	853	0	12.2	16.5	224	33443	294	6.3	115	125	2.54	1.04	.96	1.00	8.75	8.70	D
803	1428	712.68	40.0	2.03	2.03	95	23.4	2640	702.28	8.52	8.79	855	0	12.2	16.1	226	33480	294	6.3	155	125	2.54	.99	.91	1.00	8.75	8.70	D
804	1429	712.94	19.8	2.01	2.01	95	20.9	2640	702.83	8.52	8.79	855	0	12.2	16.1	221	33553	295	6.3	213	125	2.55	1.15	1.07	1.00	8.75	8.70	D
805	1430	713.23	26.6	1.86	1.86	96	18.2	2580	703.33	8.52	8.79	855	0	12.2	16.1	221	33615	295	6.3	174	125	2.55	1.03	.96	1.00	8.74	8.70	D
806	1430	713.58	52.5	1.97	1.97	95	20.0	2580	703.62	8.52	8.80	850	0	12.2	16.1	222	33653	295	6.3	125	125	2.55	.88	.81	1.00	8.74	8.70	D
807	1431	713.84	21.2	2.01	2.01	95	20.0	2580	704.01	8.52	8.80	847	0	12.2	16.1	218	33706	296	6.3	159	125	2.56	1.11	1.03	1.00	8.74	8.70	D
808	1431	714.15	35.1	1.91	1.91	95	20.4	2570	704.35	8.52	8.80	845	0	12.2	16.1	216	33755	296	6.3	132	125	2.56	.99	.91	1.00	8.75	8.70	D
809	1431	714.58	68.1	1.99	1.99	94	19.5	2570	704.47	8.55	8.86	845	0	12.4	16.3	214	33782	296	6.3	68	125	2.56	.81	.73	1.00	8.74	8.70	D
810	1432	715.11	31.0	2.12	2.12	95	20.3	2570	704.86	8.55	8.86	846	0	12.4	16.3	208	33875	297	6.4	134	125	2.57	1.02	.94	1.00	8.75	8.70	D
811	1433	715.37	64.8	1.96	1.96	95	20.5	2580	704.93	8.56	8.86	846	0	12.4	16.7	208	33895	297	6.4	166	125	2.57	.84	.76	1.00	8.75	8.70	D
812	1433	715.68	23.7	2.04	2.04	95	19.0	2580	705.02	8.56	8.86	847	0	12.4	16.7	206	33965	297	6.4	191	125	2.57	1.07	.99	1.00	8.76	8.70	D
813	1434	716.01	56.6	2.04	2.04	94	22.3	2580	705.07	8.56	8.86	848	0	12.4	16.7	203	33998	298	6.4	100	125	2.58	.89	.80	1.00	8.76	8.70	D
814	1435	716.60	36.9	2.00	2.00	94	20.9	2580	705.10	8.54	8.91	848	0	12.5	16.9	197	34116	298	6.4	259	126	2.58	.98	.90	1.00	8.76	8.70	D
815	1538	734.94	81.2	2.26	2.26	97	18.9	2490	718.46	8.53	8.52	835	0	12.6	16.8	196	35708	317	6.7	89	123	2.68	.76	.68	1.01	8.83	8.70	D
816	1538	735.21	49.6	2.38	2.38	98	21.3	2500	718.46	8.53	8.52	834	0	12.6	16.8	190	35736	317	6.7	81	123	2.68	.91	.83	1.01	8.83	8.70	D
817	1538	735.48	41.3	2.48	2.48	98	21.8	2500	718.46	8.53	8.52	835	0	12.6	16.8	184	35773	317	6.7	96	123	2.69	.96	.88	1.01	8.84	8.70	D
818	1539	735.79	44.4	2.43	2.43	97	21.2	2500	718.47	8.54	8.57	835	0	12.7	15.8	179	35812	318	6.7	144	123	2.69	.94	.85	1.01	8.84	8.70	D
819	1539	736.10	53.7	2.29	2.29	98	19.8	2510	718.48	8.54	8.57	835	0	12.7	15.8	171	35840	318	6.7	74	123	2.69	.87	.79	1.01	8.85	8.70	D
820	1539	736.41	65.1	2.08	2.08	96	19.3	2510	718.49	8.54	8.57	835	0	12.7	15.8	170	35865	318	6.7	73	123	2.69	.82	.73	1.01	8.85	8.70	D
821	1540	736.73	48.2	2.12	2.12	97	19.5	2510	718.50	8.54	8.57	836	0	12.7	15.8	161	35904	319	6.7	138	123	2.69	.90	.81	1.01	8.85	8.70	D
822	1540	737.02	47.9	2.20	2.20	97	18.3	2510	718.52	8.54	8.57	836	0	12.7	15.8	160	35938	319	6.7	96	123	2.70	.88	.80	1.01	8.85	8.70	D
823	1540	737.34	81.1	2.16	2.16	98	18.4	2510	718.52	8.54	8.71	836	0	12.6	15.4	154	35959	319	6.7	64	123	2.70	.76	.68	1.01	8.85	8.70	D
824	1541	737.62	43.3	2.15	2.15	98	18.2	2510	718.52	8.54	8.71	836	0	12.6	15.4	153	35985	319	6.7	95	123	2.70	.91	.82	1.01	8.86	8.70	D
825	1541	737.93	32.0	2.43	2.43	98	19.6	2510	718.52	8.54	8.71	837	0	12.6	15.4	153	36039	320	6.7	143	123	2.70	1.00	.91	1.01	8.86	8.70	D
826	1542	738.28	50.4	2.17	2.17	97	19.5	2510	718.52	8.54	8.71	837	0	12.6	15.4	153	36079	320	6.7	130	123	2.71	.88	.80	1.01	8.87	8.70	D
827	1542	738.54	56.8	2.12	2.12	98	19.2	2510	718.65	8.53	8.76	837	0	12.5	15.5	151	36100	320	6.8	62	123	2.71	.85	.77	1.01	8.87	8.70	D
828	1542	738.84	71.5	2.20	2.20	98	18.7	2510	719.33	8.53	8.76	837	0	12.5	15.5	151	36123	321	6.8	91	123	2.71	.79	.71	1.01	8.87	8.70	D
829	1543	739.14	21.2	2.22	2.22	97	20.6	2510	721.59	8.53	8.76	838	0	12.5	15.5	148	36207	321	6.8	200	123	2.72	1.12	1.03	1.01	8.84	8.70	D
830	1543	739.57	67.1	2.04	2.04	98	19.2	2510	722.72	8.53	8.76	838	0	12.5	15.5	150	36243	321	6.8	101	123	2.72	.81	.73	1.01	8.84	8.70	D
831	1544	740.07	41.1	2.20	2.20	95	18.9	2510	724.90	8.53	8.74	837	0	12.5	16.6	148	36309	322	6.8	172	123	2.72	.93	.84	1.01	8.82	8.70	D
832	1544	740.36	33.9	2.26	2.26	96	18.9	2510	726.56	8.53	8.74	837	0	12.5	16.6	144	36357	322	6.8	132	123	2.73	.98	.89	1.01	8.80	8.70	D
833	1545	740.67	47.9	2.11	2.11	95	18.4	2510	727.39	8.54	8.73	837	0	12.5	17.0	146	36394	322	6.8	111	123	2.73	.89	.80	1.01	8.79	8.70	D

AMOCO AUST. Tilana No.1 329085

Data Printed at time 12:14 Date Oct 9 '85
Data Recorded at time 15:53 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
334	1553	742.19	24.9	2.35	2.35	97	20.5	2510	733.07	8.54	8.70	839	0	12.6	16.5	190	36576	324	6.8	251	123	2.74	1.09	1.00	1.01	8.74	8.70	D
335	1553	742.51	61.9	2.31	2.31	96	22.6	2510	733.60	8.54	8.70	839	0	12.6	16.5	185	36604	324	6.8	84	123	2.74	.87	.79	1.01	8.74	8.70	D
336	1554	742.87	40.6	2.03	2.03	97	22.0	2510	734.38	8.54	8.70	838	0	12.6	16.5	187	36654	325	6.8	136	123	2.74	.98	.89	1.01	8.73	8.70	D
337	1555	743.16	26.3	2.13	2.42	96	23.0	2520	735.30	8.54	8.70	838	0	12.6	16.5	186	36712	325	6.9	192	123	2.75	1.10	1.01	1.01	8.73	8.70	D
338	1555	743.45	41.1	1.86	1.86	98	22.0	2520	735.56	8.54	8.69	839	0	12.6	16.4	182	36753	325	6.9	199	123	2.75	.98	.89	1.01	8.72	8.70	D
339	1555	743.72	30.3	1.88	1.88	98	22.0	2520	735.88	8.54	8.69	839	0	12.6	16.4	184	36802	326	6.9	170	123	2.75	1.06	.97	1.01	8.72	8.70	D
340	1556	744.10	43.6	2.06	2.06	98	21.7	2520	736.15	8.51	8.70	840	0	12.6	16.6	183	36850	326	6.9	128	123	2.76	.96	.87	1.01	8.72	8.70	D
341	1557	744.68	29.1	1.94	1.94	98	20.8	2520	736.23	8.51	8.70	840	0	12.6	16.6	180	36945	326	6.9	214	123	2.76	1.06	.97	1.01	8.73	8.70	D
342	1557	744.97	60.3	1.94	1.94	98	20.9	2520	736.25	8.51	8.70	840	0	12.6	16.6	177	36972	327	6.9	121	123	2.76	.87	.78	1.01	8.73	8.70	D
343	1558	745.24	33.1	1.78	1.78	98	19.7	2520	736.25	8.53	8.77	840	0	12.5	16.9	177	37017	327	6.9	134	123	2.77	1.01	.92	1.01	8.74	8.70	D
344	1558	745.59	26.3	1.92	1.92	98	20.9	2520	736.25	8.53	8.77	840	0	12.5	16.9	177	37096	327	6.9	233	123	2.77	1.08	.99	1.01	8.74	8.70	D
345	1559	745.88	30.1	1.96	1.96	99	20.0	2520	736.25	8.55	8.85	840	0	12.6	17.0	177	37142	328	6.9	131	123	2.78	1.04	.95	1.01	8.74	8.70	D
346	1600	746.47	34.4	1.92	1.92	99	19.6	2520	736.25	8.55	8.85	840	0	12.6	17.0	174	37228	328	6.9	190	123	2.78	1.00	.91	1.01	8.75	8.70	D
347	1600	746.82	38.6	1.78	1.78	98	18.7	2530	736.25	8.54	8.88	840	0	12.5	17.1	171	37277	329	7.0	190	123	2.78	.95	.87	1.01	8.75	8.70	D
348	1600	747.08	64.8	1.81	1.81	99	18.2	2530	736.25	8.54	8.88	840	0	12.5	17.1	173	37298	329	7.0	65	123	2.79	.82	.73	1.01	8.76	8.70	D
349	1601	747.38	52.0	1.83	1.83	98	18.3	2520	736.25	8.54	8.88	840	0	12.5	17.1	172	37330	329	7.0	88	123	2.79	.87	.79	1.01	8.76	8.70	D
350	1601	747.73	42.9	1.82	1.82	99	19.3	2530	736.25	8.54	8.88	840	0	12.5	17.1	170	37374	329	7.0	132	123	2.79	.94	.85	1.01	8.76	8.70	D
351	1602	747.99	43.7	1.98	1.98	99	19.0	2520	736.25	8.54	8.88	840	0	12.5	17.1	171	37402	330	7.0	78	123	2.79	.93	.84	1.01	8.77	8.70	D
352	1602	748.30	55.3	1.98	1.98	98	21.6	2530	736.25	8.54	8.88	840	0	12.5	17.1	167	37435	330	7.0	137	123	2.80	.89	.80	1.01	8.77	8.70	D
353	1602	748.60	35.2	2.06	2.06	98	21.8	2530	736.25	8.54	8.98	840	0	12.5	17.1	171	37483	330	7.0	135	123	2.80	1.01	.92	1.01	8.77	8.70	D
354	1603	748.93	72.2	1.88	1.88	100	20.7	2520	736.25	8.54	8.98	840	0	12.5	17.1	167	37509	331	7.0	84	123	2.80	.82	.73	1.01	8.78	8.70	D
355	1603	749.22	36.5	1.89	1.89	98	21.0	2530	736.25	8.54	8.98	839	0	12.5	17.1	169	37552	331	7.0	121	123	2.80	.99	.90	1.01	8.78	8.70	D
356	1603	749.51	63.2	1.94	1.94	99	22.9	2500	736.25	8.54	8.98	839	0	12.5	17.1	165	37577	331	7.0	78	123	2.80	.87	.78	1.01	8.78	8.70	D
357	1610	749.88	46.3	1.16	1.16	98	23.0	2510	737.55	8.55	9.00	831	0	12.5	17.1	241	37593	332	7.0	94	122	2.81	.96	.87	1.01	8.75	8.70	DX
358	1612	751.64	27.7	1.65	1.65	102	21.5	2570	737.68	8.55	8.79	839	0	12.3	17.0	244	37707	333	7.0	175	122	2.81	.97	.89	1.01	8.76	8.70	D
359	1612	751.98	60.3	1.79	1.79	104	17.7	2600	737.68	8.55	8.79	831	0	12.3	17.0	245	37745	334	7.0	97	122	2.82	.84	.76	1.01	8.78	8.70	D
360	1613	752.25	24.7	1.69	1.69	102	19.4	2600	737.68	8.55	8.79	822	0	12.3	17.0	241	37797	334	7.0	149	122	2.82	1.08	.99	1.01	8.79	8.70	D
361	1613	752.55	46.8	1.72	1.72	103	17.8	2570	737.81	8.55	8.59	837	0	12.2	16.5	241	37836	334	7.0	100	122	2.82	.90	.82	1.01	8.80	8.70	D
362	1613	752.86	59.5	1.83	1.83	102	19.4	2560	738.02	8.55	8.59	840	0	12.2	16.5	240	37863	335	7.0	93	122	2.82	.86	.77	1.01	8.80	8.70	D
363	1614	753.27	63.9	1.88	1.88	103	21.1	2560	738.30	8.55	8.59	842	0	12.2	16.5	240	37903	335	7.1	109	122	2.83	.86	.77	1.01	8.80	8.70	D
364	1614	753.80	56.8	1.98	1.98	102	23.5	2550	738.72	8.55	8.59	843	0	12.2	16.5	237	37947	336	7.1	101	122	2.83	.91	.82	1.01	8.81	8.70	D
365	1614	754.08	56.1	1.95	1.95	102	25.0	2560	738.93	8.55	8.59	844	0	12.2	16.5	238	37976	336	7.1	87	122	2.83	.93	.84	1.01	8.81	8.70	D
366	1615	754.38	52.5	1.97	1.97	103	25.8	2560	739.24	8.56	8.64	844	0	12.2	16.2	236	38010	336	7.1	84	122	2.83	.96	.87	1.01	8.81	8.70	D
367	1615	754.71	62.0	2.01	2.01	103	25.6	2560	739.48	8.56	8.64	844	0	12.2	16.2	234	38039	336	7.1	82	122	2.83	.91	.82	1.01	8.81	8.70	D
368	1615	755.03	70.2	2.09	2.09	101	25.8	2560	739.72	8.56	8.64	844	0	12.2	16.2	236	38065	337	7.1	104	122	2.84	.88	.78	1.01	8.81	8.70	D
369	1615	755.31	49.5	2.00	2.00	102	26.2	2550	740.04	8.56	8.64	845	0	12.2	16.2	234	38097	337	7.1	87	122	2.84	.98	.88	1.01	8.81	8.70	D
370	1616	755.60	61.7	2.05	2.05	102	25.4	2560	740.28	8.56	8.64	844	0	12.2	16.2	233	38119	337	7.1	92	122	2.84	.91	.82	1.01	8.81	8.70	D
371	1616	755.94	44.4	1.96	1.96	103	25.7	2560	740.61	8.56	8.69	844	0	12.3	16.3	233	38164	338	7.1	106	122	2.85	1.01	.91	1.01	8.81	8.70	D
372	1617	756.55	51.2	2.02	2.02	101	26.7	2570	741.07	8.56	8.69	845	0	12.3	16.3	232	38224	338	7.1	90	122	2.85	.97	.88	1.01	8.81	8.70	D
373	1617	756.87	52.7	2.01	2.01	102	26.1	2570	741.32	8.56	8.63	844	0	12.3	17.4	231	38258	339	7.1	123	122	2.85	.96	.86	1.01	8.81	8.70	D
374	1617	757.13	48.8	1.98	1.98	102	26.0	2570	741.56	8.56	8.63	844	0	12.3	17.4	230	38288	339	7.1	79	122	2.85	.98	.88	1.01	8.81	8.70	D
375	1618	757.43	47.9	1.97	1.97	102	26.4	2570	741.81	8.56	8.63	844	0	12.3	17.4	229	38326	339	7.1	115	122	2.86	.99	.89	1.01	8.81	8.70	D
376	1618	757.75	76.9	1.93	2.14	102	25.6	2570	741.99	8.56	8.63	845	0	12.3	17.4	229	38351	339	7.1	86	122	2.86	.86	.76	1.01	8.81	8.70	D
377	1618	757.75	76.9	1.93	2.14	102	25.6	2570	741.99	8.56	8.63	845	0	12.3	17.4	229	38351	339	7.1	86	122	2.86	.86	.76	1.01	8.81	8.70	D
378	1619	758.36	44.4	1.97	1.97	102	25.1	2570	742.53	8.54	8.45	845	0	12.3	18.3	227	38424	340	7.1	119	121	2.86	1.00	.90	1.01	8.81	8.70	D
379	1619	758.66	43.9	2.03	2.30	101	23.8	2550	742.77	8.54	8.45	845	0	12.3	18.3	225	38463	340	7.1	107	121	2.87	.98	.89	1.01	8.81	8.70	D
380	1625	760.81	47.6	1.62	1.62	95	22.5	2480	744.02	8.54	8.73	828	0	12.3	17.5	243	38609	343	7.2	188	121	2.87	.98	.90	1.01	8.82	8.70	D
381	1626	762.32	52.7	1.89	1.89	98	24.3	2480	744.09	8.55	8.87	829	0	12.3	16.8	242	38685	344	7.2	144	121	2.88	.93	.83	1.01	8.84	8.70	D
382	1626	762.61	44.9	1.94	1.94	97	24.9	2480	744.39	8.55	8.87	830	0	12.3	16.8	241	38719	344	7.2	99	121	2.88	.98	.88	1.01	8.84	8.70	D
383	1627	762.94	52.5	1.97	1.97	96	25.3	2490	744.63	8.55	8.87	830	0	12.3	16.8	240	38754	345	7.2	93	121	2.88	.93	.84	1.01	8.84	8.70	D

AMOCO AUST. Tilana No.1 329086 Data Printed at time 12:18 Date Oct 9 '85
Data Recorded at time 16:27 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
884	1627	763.32	74.4	1.94	1.94	97	26.2	2490	744.81	8.55	8.87	831	0	12.3	16.8	239	38782	345	7.2	96	121	2.89	.85	.76	1.01	8.84	8.70	D
885	1628	763.90	49.9	1.95	1.95	97	26.5	2480	745.29	8.53	8.92	831	0	12.3	16.6	237	38843	346	7.2	106	121	2.89	.96	.87	1.01	8.84	8.70	D
886	1628	764.55	43.9	1.93	1.93	97	25.6	2480	745.88	8.53	8.92	830	0	12.3	16.6	236	38921	346	7.2	138	121	2.90	.99	.89	1.01	8.84	8.70	D
887	1629	765.07	31.0	1.97	1.97	97	23.0	2500	746.46	8.53	8.83	831	0	12.3	16.7	233	39004	347	7.2	166	121	2.90	1.05	.96	1.01	8.84	8.70	D
888	1630	765.36	37.9	1.96	1.96	97	23.2	2490	746.75	8.53	8.83	832	0	12.3	16.7	235	39044	347	7.2	159	121	2.90	1.00	.91	1.01	8.84	8.70	D
889	1630	765.66	60.0	2.03	2.03	97	24.4	2490	746.93	8.53	8.83	832	0	12.3	16.7	233	39072	347	7.3	81	121	2.91	.89	.80	1.01	8.84	8.70	D
890	1630	765.98	55.0	1.93	1.93	98	23.7	2490	747.16	8.53	8.83	831	0	12.3	16.7	233	39106	348	7.3	101	121	2.91	.91	.82	1.01	8.84	8.70	D
891	1631	766.27	43.4	1.98	1.98	97	23.2	2490	747.44	8.54	8.84	831	0	12.3	16.9	231	39143	348	7.3	96	121	2.91	.97	.87	1.01	8.84	8.70	D
892	1631	766.58	53.0	1.99	1.99	96	22.8	2490	747.64	8.54	8.84	831	0	12.3	16.9	232	39174	348	7.3	127	121	2.91	.91	.81	1.01	8.84	8.70	D
893	1631	766.89	47.7	1.95	1.95	98	23.6	2490	747.85	8.54	8.84	830	0	12.3	16.9	230	39209	349	7.3	88	121	2.92	.95	.85	1.01	8.84	8.70	D
894	1632	767.24	39.5	2.02	2.02	97	25.2	2500	748.10	8.54	8.84	830	0	12.3	16.9	232	39248	349	7.3	117	121	2.92	1.01	.91	1.01	8.84	8.70	D
895	1633	767.79	31.6	1.93	1.93	97	24.0	2490	748.64	8.53	8.76	831	0	12.3	17.0	229	39329	350	7.3	154	121	2.92	1.06	.96	1.01	8.84	8.70	D
896	1633	768.10	35.3	1.75	1.75	97	22.7	2490	748.92	8.53	8.76	831	0	12.3	17.0	226	39369	350	7.3	125	120	2.93	1.01	.92	1.01	8.84	8.70	D
897	1634	768.41	37.4	1.95	1.95	98	25.0	2490	749.24	8.53	8.76	831	0	12.3	17.0	226	39416	350	7.3	223	121	2.93	1.03	.93	1.01	8.84	8.70	D
898	1634	768.71	25.8	2.00	2.00	97	24.8	2490	749.58	8.53	8.71	830	0	12.4	17.0	227	39464	351	7.3	138	121	2.93	1.12	1.02	1.01	8.84	8.70	D
899	1635	769.02	37.1	1.95	1.95	96	26.1	2490	749.92	8.53	8.71	831	0	12.4	17.0	225	39511	351	7.3	122	121	2.94	1.03	.94	1.01	8.84	8.70	D
900	1644	769.32	45.2	1.09	1.09	98	26.3	2530	753.21	8.54	8.76	828	0	12.4	17.0	267	39535	351	7.3	127	121	2.94	1.00	.90	1.01	8.78	8.70	D†
901	1645	770.90	31.5	1.77	1.77	96	17.6	2590	753.85	8.55	8.79	828	0	12.2	16.8	246	39607	353	7.3	148	120	2.94	.98	.89	1.01	8.81	8.70	D
902	1645	771.15	33.2	1.91	1.91	99	23.3	2580	754.31	8.55	8.79	828	0	12.2	16.8	238	39652	353	7.4	126	120	2.95	1.04	.95	1.01	8.82	8.70	D
903	1646	771.45	55.3	1.95	1.95	98	27.8	2560	754.54	8.55	8.79	834	0	12.2	16.8	236	39683	353	7.4	113	120	2.95	.95	.85	1.01	8.82	8.70	D
904	1646	771.76	39.9	1.89	1.89	100	25.9	2550	754.92	8.55	8.79	838	0	12.2	16.8	228	39724	354	7.4	111	120	2.95	1.03	.93	1.01	8.82	8.70	D
905	1647	772.10	22.4	1.87	2.03	98	23.2	2550	755.70	8.55	8.83	840	0	12.3	16.4	218	39801	354	7.4	211	120	2.96	1.14	1.05	1.01	8.82	8.70	D
906	1647	772.38	53.9	1.82	1.82	100	20.0	2550	755.94	8.55	8.83	840	0	12.3	16.4	216	39826	354	7.4	76	120	2.96	.88	.79	1.01	8.81	8.70	D
907	1647	772.68	45.6	1.76	1.76	99	21.1	2550	756.25	8.55	8.83	840	0	12.3	16.4	214	39864	354	7.4	109	120	2.96	.94	.84	1.01	8.81	8.70	D
908	1648	773.00	20.3	1.80	1.80	99	22.8	2550	757.22	8.54	8.84	841	0	12.5	16.4	207	39954	355	7.4	249	120	2.97	1.17	1.07	1.01	8.81	8.70	D
909	1649	773.30	43.1	1.74	1.74	98	20.6	2560	757.69	8.54	8.84	841	0	12.5	16.4	202	39994	355	7.4	113	120	2.97	.94	.85	1.01	8.80	8.70	D
910	1649	773.59	41.3	1.85	1.85	98	21.7	2550	758.15	8.52	8.89	841	0	12.8	16.6	199	40032	355	7.4	108	120	2.97	.97	.87	1.01	8.80	8.70	D
911	1650	773.97	50.4	1.87	1.87	98	23.7	2550	758.51	8.52	8.89	841	0	12.8	16.6	194	40069	356	7.4	115	120	2.97	.94	.84	1.01	8.80	8.70	D
912	1650	774.23	28.1	1.97	1.97	98	25.1	2560	759.14	8.52	8.89	841	0	12.8	16.6	188	40122	356	7.4	157	120	2.98	1.11	1.01	1.01	8.80	8.70	D
913	1651	774.82	39.8	1.90	1.90	98	24.9	2560	759.94	8.52	8.89	842	0	12.8	16.6	180	40196	357	7.4	146	120	2.98	1.01	.92	1.01	8.80	8.70	D
914	1651	775.11	47.6	1.92	1.92	98	22.4	2560	760.28	8.50	8.89	842	0	13.1	17.0	175	40228	357	7.4	89	120	2.99	.94	.84	1.01	8.80	8.70	D
915	1652	775.43	52.7	1.90	1.90	99	22.2	2550	760.62	8.50	8.89	842	0	13.1	17.0	173	40261	357	7.5	113	120	2.99	.91	.82	1.01	8.80	8.70	D
916	1652	775.76	85.1	1.91	1.91	100	20.7	2560	760.79	8.50	8.89	842	0	13.1	17.0	171	40283	358	7.5	63	120	2.99	.78	.68	1.01	8.80	8.70	D
917	1652	776.05	44.0	1.84	1.84	98	21.1	2570	761.22	8.50	8.89	842	0	13.1	17.0	168	40319	358	7.5	99	120	2.99	.94	.85	1.01	8.80	8.70	D
918	1653	776.37	33.8	1.87	1.87	98	21.5	2570	761.71	8.48	8.89	841	0	13.2	17.1	161	40373	358	7.5	151	120	3.00	1.02	.92	1.01	8.79	8.70	D
2	1654	777.55	57.4	2.02	2.02	99	25.4	2560	763.06	8.49	8.88	841	0	13.3	17.3	147	40521	359	7.5	81	120	3.01	.93	.82	1.00	8.79	8.70	D
3	1655	777.85	30.2	1.89	1.89	98	22.7	2570	763.23	8.49	8.88	841	0	13.3	17.3	144	40578	360	7.5	154	120	3.01	1.06	.96	1.00	8.79	8.70	D
4	1655	778.22	37.2	1.90	1.90	99	23.2	2570	763.40	8.49	8.88	841	0	13.3	17.3	138	40634	360	7.5	133	120	3.01	1.01	.92	1.00	8.79	8.70	D
5	1656	778.54	73.0	1.90	1.90	98	23.5	2570	763.47	8.49	8.88	841	0	13.3	17.3	136	40656	360	7.5	93	120	3.01	.84	.74	1.00	8.79	8.70	D
6	1703	780.31	43.4	1.17	1.17	98	25.5	2560	766.97	8.58	8.82	837	0	14.1	17.3	190	40667	362	7.5	87	120	3.01	.89	.81	1.01	8.77	8.70	D†
7	1703	780.60	49.9	1.43	1.43	98	21.8	2560	767.38	8.58	8.82	839	0	14.1	17.3	189	40684	362	7.5	87	120	3.02	.88	.80	1.01	8.78	8.70	D†
8	1704	780.91	42.4	1.74	1.74	99	16.5	2560	767.71	8.53	8.79	840	0	14.9	16.9	191	40727	363	7.5	180	120	3.02	.90	.81	1.01	8.77	8.70	D
9	1704	781.21	40.9	1.80	1.80	99	18.8	2550	768.01	8.53	8.79	840	0	14.9	16.9	188	40769	363	7.5	118	120	3.02	.94	.85	1.00	8.78	8.70	D
10	1704	781.57	64.5	1.85	1.85	99	21.6	2560	768.25	8.53	8.79	839	0	14.9	16.9	189	40801	363	7.5	133	120	3.02	.86	.76	1.01	8.78	8.70	D
11	1705	781.86	49.9	1.93	1.93	99	21.6	2550	768.49	8.53	8.79	839	0	14.9	16.9	187	40832	364	7.6	81	120	3.03	.92	.83	1.01	8.78	8.70	D
12	1706	782.12	11.4	1.79	1.79	99	22.8	2550	769.34	8.56	8.83	839	0	14.9	16.8	188	40939	364	7.6	376	120	3.03	1.32	1.22	1.01	8.77	8.70	D
13	1706	782.42	76.9	1.81	1.81	99	20.3	2560	769.54	8.56	8.83	839	0	14.9	16.8	186	40963	364	7.6	106	120	3.03	.80	.70	1.01	8.77	8.70	D
14	1707	782.74	40.4	1.70	1.70	99	18.5	2570	769.88	8.56	8.83	839	0	14.9	16.8	186	41005	365	7.6	137	120	3.04	.94	.85	1.01	8.77	8.70	D
15	1708	783.09	18.0	1.82	1.82	99	19.7	2560	770.77	8.50	8.79	840	0	14.9	17.0	183	41118	365	7.6	296	120	3.05	1.16	1.06	1.01	8.77	8.70	D
16	1708	783.34	49.6	1.76	1.76	99	19.4	2560	771.05	8.50	8.79	839	0	14.9	17.0	185	41145	365	7.6	151	120	3.05	.90	.80	1.01	8.76	8.70	D

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
17	1708	783.64	55.4	1.85	1.85	100	19.8	2560	771.26	8.50	8.79	839	0	14.9	17.0	184	41176	365	7.6	89	120	3.05	.88	.78	1.01	8.76	8.70	D
18	1709	783.97	25.7	1.80	1.80	99	20.9	2570	771.72	8.53	8.78	839	0	15.0	17.3	183	41247	366	7.6	187	120	3.05	1.09	.99	1.01	8.76	8.70	D
19	1709	784.26	46.7	1.86	1.86	99	21.7	2570	771.89	8.53	8.78	839	0	15.0	17.3	183	41283	366	7.6	105	120	3.05	.94	.84	1.01	8.76	8.70	D
20	1710	784.61	24.3	1.91	1.91	99	23.9	2560	772.31	8.53	8.78	840	0	15.0	17.3	182	41365	366	7.6	231	120	3.06	1.14	1.04	1.01	8.76	8.70	D
21	1710	784.87	49.5	1.90	1.90	100	23.0	2560	772.49	8.53	8.78	840	0	15.0	17.3	180	41393	367	7.6	86	120	3.06	.94	.84	1.01	8.76	8.70	D
22	1711	785.17	46.9	1.78	1.78	99	20.1	2570	772.61	8.52	8.85	840	0	15.0	17.4	182	41423	367	7.7	99	120	3.07	.92	.83	1.01	8.77	8.70	D
23	1711	785.47	43.3	1.81	1.81	100	18.7	2570	772.61	8.52	8.85	840	0	15.0	17.4	180	41461	367	7.7	124	120	3.07	.93	.83	1.01	8.77	8.70	D
24	1712	785.78	23.6	1.83	1.83	100	18.4	2560	772.61	8.52	8.85	840	0	15.0	17.4	179	41536	368	7.7	195	120	3.07	1.07	.98	1.01	8.77	8.70	D
25	1712	786.09	45.7	1.78	1.78	99	19.0	2560	772.61	8.52	8.85	840	0	15.0	17.4	180	41575	368	7.7	124	120	3.07	.92	.82	1.01	8.77	8.70	D
26	1712	786.40	82.2	1.80	1.80	100	19.2	2570	772.61	8.51	8.86	840	0	15.1	17.4	179	41597	368	7.7	63	120	3.07	.77	.68	1.01	8.78	8.70	D
27	1713	786.78	32.2	1.75	1.75	99	19.2	2560	772.61	8.51	8.86	840	0	15.1	17.4	180	41663	368	7.7	183	120	3.08	1.00	.91	1.01	8.78	8.70	D
28	1714	787.30	40.8	1.84	1.84	98	21.2	2570	772.61	8.51	8.86	839	0	15.1	17.4	177	41731	369	7.7	107	120	3.08	.97	.87	1.01	8.79	8.70	D
29	1714	787.63	37.3	1.90	1.90	99	21.5	2550	773.08	8.52	8.82	839	0	15.1	17.5	174	41782	369	7.7	159	120	3.09	1.00	.90	1.01	8.79	8.70	D
30	1726	790.39	20.2	1.72	1.72	102	21.2	2480	778.12	8.56	8.72	832	0	15.7	17.0	223	41903	372	7.7	190	119	3.09	1.16	1.06	1.01	8.75	8.70	D
31	1726	790.65	42.2	1.57	1.57	101	19.7	2480	778.44	8.56	8.72	832	0	15.7	17.0	222	41940	372	7.7	119	119	3.10	.95	.85	1.01	8.75	8.70	D
32	1726	790.96	59.5	1.70	1.70	101	16.7	2480	778.64	8.61	8.61	832	0	16.2	16.8	218	41969	373	7.7	133	119	3.10	.83	.74	1.01	8.74	8.70	D
33	1727	791.27	24.4	1.80	1.80	101	18.9	2490	779.27	8.61	8.61	833	0	16.2	16.8	215	42041	373	7.8	194	119	3.10	1.08	.98	1.01	8.74	8.70	D
34	1727	791.59	47.3	1.75	1.75	101	19.1	2490	779.55	8.61	8.61	833	0	16.2	16.8	214	42081	373	7.8	133	119	3.11	.92	.82	1.01	8.74	8.70	D
35	1728	791.91	30.0	1.73	1.73	101	19.0	2490	780.07	8.61	8.53	833	0	16.5	18.0	212	42144	374	7.8	163	119	3.11	1.03	.93	1.01	8.74	8.70	D
36	1728	792.18	43.9	1.66	1.66	103	19.3	2480	780.33	8.61	8.53	833	0	16.5	18.0	207	42179	374	7.8	87	119	3.11	.94	.84	1.01	8.74	8.70	D
37	1729	792.53	21.4	1.70	1.70	101	19.5	2500	781.06	8.61	8.58	832	0	16.9	18.4	206	42279	374	7.8	178	119	3.12	1.12	1.02	1.01	8.73	8.70	D
38	1730	793.10	42.4	1.79	1.79	101	17.7	2500	781.48	8.61	8.58	833	0	16.9	18.4	201	42348	375	7.8	103	119	3.12	.93	.83	1.01	8.73	8.70	D
39	1731	793.40	26.6	1.91	1.91	101	22.1	2500	781.89	8.61	8.58	832	0	16.9	18.4	198	42415	375	7.8	246	120	3.13	1.10	1.00	1.01	8.73	8.70	D
40	1731	793.73	34.3	1.87	1.87	101	22.9	2500	781.96	8.65	8.71	832	0	17.3	17.8	195	42470	375	7.8	151	120	3.13	1.04	.94	1.01	8.73	8.70	D
41	1732	794.02	21.2	1.92	1.92	101	22.6	2510	781.96	8.65	8.71	832	0	17.3	17.8	190	42551	376	7.8	216	120	3.14	1.17	1.06	1.01	8.74	8.70	D
42	1732	794.34	59.9	1.85	1.85	101	22.3	2520	781.96	8.71	8.75	832	0	17.3	17.8	189	42583	376	7.8	221	120	3.14	.89	.79	1.01	8.74	8.70	D
43	1733	794.63	33.9	1.62	1.62	101	20.1	2520	781.96	8.71	8.75	833	0	17.3	17.8	189	42631	376	7.9	142	120	3.14	1.01	.91	1.01	8.75	8.70	D
44	1734	794.93	18.2	1.77	1.77	101	18.1	2500	781.98	8.81	8.81	833	0	17.6	17.9	182	42725	377	7.9	406	120	3.14	1.14	1.04	1.01	8.75	8.70	D
45	1734	795.25	28.5	1.87	1.87	101	20.5	2510	782.86	8.81	8.81	832	0	17.6	17.9	179	42793	377	7.9	162	120	3.15	1.06	.96	1.01	8.75	8.70	D
46	1735	795.57	33.0	1.85	1.85	101	21.6	2520	783.51	8.81	8.81	832	0	17.6	17.9	177	42846	377	7.9	137	120	3.15	1.04	.94	1.01	8.74	8.70	D
47	1735	795.84	148	1.92	1.92	101	19.8	2520	783.62	8.81	8.81	832	0	17.6	17.9	177	42855	378	7.9	48	120	3.15	.64	.54	1.01	8.74	8.70	D
48	1736	796.16	32.1	1.96	1.96	101	20.2	2530	784.30	8.94	8.83	833	0	17.7	18.1	172	42915	378	7.9	169	120	3.16	1.03	.93	1.01	8.74	8.70	D
49	1736	796.45	55.8	1.84	1.84	101	20.3	2520	784.59	8.94	8.83	833	0	17.7	18.1	170	42944	378	7.9	102	120	3.16	.89	.79	1.01	8.73	8.70	D
50	1736	796.75	39.6	1.75	1.75	101	18.2	2530	784.94	8.94	8.83	833	0	17.7	18.1	170	42986	379	7.9	121	120	3.16	.95	.85	1.01	8.73	8.70	D
51	1742	797.22	26.4	1.84	2.31	101	19.3	2610	786.26	9.10	8.75	831	0	18.0	18.3	166	43006	379	7.9	125	120	3.16	1.07	.97	1.01	8.71	8.70	D†
52	1743	797.66	27.6	1.73	1.73	93	15.0	2610	786.76	9.18	8.76	831	0	18.2	18.1	160	43079	379	7.9	245	120	3.17	.97	.88	1.01	8.72	8.70	D
53	1744	797.97	29.5	1.62	1.62	90	20.8	2630	787.11	9.18	8.76	831	0	18.2	18.1	156	43135	380	7.9	140	120	3.17	1.03	.93	1.01	8.72	8.70	D
54	1744	798.28	59.3	1.70	1.70	90	20.9	2630	787.31	9.18	8.76	831	0	18.2	18.1	156	43159	380	7.9	113	120	3.17	.85	.75	1.01	8.72	8.70	D
55	1746	798.63	52.4	1.83	2.19	89	24.1	2650	788.34	9.11	8.70	832	0	18.3	18.0	149	43305	380	8.0	108	120	3.18	.93	.83	1.01	8.71	8.70	D
56	1746	798.89	67.0	1.60	1.60	90	23.4	2650	788.46	9.11	8.70	832	0	18.3	18.0	148	43322	381	8.0	64	120	3.18	.85	.74	1.01	8.71	8.70	D
57	1746	799.24	52.1	1.58	1.58	89	21.5	2660	788.74	9.11	8.70	832	0	18.3	18.0	147	43356	381	8.0	97	120	3.19	.89	.79	1.01	8.71	8.70	D
58	1747	799.54	21.8	1.63	1.63	88	21.4	2670	789.26	8.83	8.73	832	0	18.4	18.4	139	43425	381	8.0	201	120	3.19	1.11	1.01	1.01	8.71	8.70	D
59	1748	800.15	29.6	1.52	1.52	89	21.4	2660	790.00	8.66	8.72	832	0	18.6	19.0	131	43521	382	8.0	248	120	3.19	1.04	.94	1.01	8.70	8.70	D
60	1748	800.42	53.0	1.55	1.55	90	18.9	2660	790.16	8.66	8.72	831	0	18.6	19.0	130	43545	382	8.0	157	120	3.20	.86	.76	1.01	8.70	8.70	D
61	1750	800.74	10.5	1.48	1.48	90	20.8	2680	791.08	8.58	8.66	831	0	18.6	19.4	110	43712	382	8.0	2092	120	3.20	1.30	1.20	1.01	8.70	8.70	D
62	1751	801.03	24.8	1.52	1.52	90	20.6	2690	791.20	8.58	8.66	831	0	18.6	19.4	100	43763	383	8.1	155	120	3.21	1.07	.97	1.01	8.70	8.70	D
63	1752	801.32	25.8	1.57	1.57	90	18.7	2650	791.33	8.58	8.66	831	0	18.6	19.4	92	43823	383	8.1	176	120	3.21	1.04	.94	1.01	8.70	8.70	D
64	1752	801.63	56.7	1.65	1.65	90	21.0	2650	791.34	8.52	8.68	832	0	18.1	19.6	88	43847	383	8.1	99	120	3.21	.87	.77	1.01	8.71	8.70	D
65	1752	801.94	34.6	1.54	1.54	96	21.3	2670	791.34	8.52	8.68	832	0	18.1	19.6	88	43895	384	8.1	130	120	3.22	1.01	.91	1.01	8.72	8.70	D
66	1753	802.55	31.8	1.59	1.59	98	20.2	2610	791.34	8.51	8.63	833	0	16.7	19.8	87	43981	384	8.1	191	120	3.22	1.02	.92	1.01	8.72	8.70	D

AMOCO AUST. Tilana No.1 329088 Data Printed at time 12:31 Date Oct 9 '85
Data Recorded at time 17:54 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
67	1754	802.84	26.4	1.61	1.61	98	20.3	2610	791.34	8.51	8.63	834	0	16.7	19.8	92	4403	385	8.1	181	120	3.22	1.07	.97	1.01	8.73	8.70	D
68	1754	803.15	45.1	1.59	1.59	97	20.8	2550	791.34	8.51	8.63	834	0	16.7	19.8	102	4407	385	8.1	112	120	3.23	.94	.84	1.01	8.74	8.70	D
69	1755	803.45	40.1	1.60	1.60	98	19.3	2580	791.34	8.51	8.63	834	0	16.7	19.8	111	44114	385	8.1	114	120	3.23	.95	.85	1.01	8.74	8.70	D
70	1755	803.78	27.5	1.47	1.47	97	21.8	2610	791.88	8.19	8.60	833	0	16.0	19.9	126	44183	386	8.1	189	120	3.23	1.08	.97	1.01	8.75	8.70	D
71	1756	804.06	29.3	1.65	1.65	98	21.2	2590	792.62	8.19	8.60	834	0	16.0	19.9	129	44233	386	8.1	155	120	3.24	1.06	.95	1.01	8.74	8.70	D
72	1756	804.42	58.0	1.54	1.54	96	19.3	2580	793.05	8.19	8.60	834	0	16.0	19.9	138	44269	386	8.1	102	120	3.24	.86	.76	1.01	8.74	8.70	D
73	1757	804.69	31.8	1.62	1.62	98	21.3	2550	793.66	8.09	8.57	835	0	14.7	20.0	152	44314	386	8.1	136	120	3.24	1.04	.93	1.01	8.74	8.70	D
74	1757	805.01	102	1.59	1.59	98	21.6	2540	793.77	8.09	8.57	835	0	14.7	20.0	156	44332	387	8.2	157	120	3.24	.74	.63	1.01	8.74	8.70	D
75	1757	805.36	30.5	1.61	1.61	97	20.9	2500	794.13	8.09	8.57	837	0	14.7	20.0	174	44394	387	8.2	171	120	3.25	1.04	.94	1.01	8.75	8.70	D
76	1758	805.60	61.4	1.58	1.58	98	21.0	2490	794.28	8.09	8.57	837	0	14.7	20.0	178	44414	387	8.2	99	120	3.25	.86	.76	1.01	8.75	8.70	D
77	1758	805.92	42.2	1.60	1.60	97	21.1	2480	794.54	8.09	8.57	837	0	14.7	20.0	189	44456	388	8.2	117	120	3.25	.96	.85	1.01	8.75	8.70	D
78	1758	806.20	64.7	1.55	1.55	95	21.7	2470	794.71	8.00	8.55	838	0	14.3	20.0	195	44480	388	8.2	131	120	3.25	.85	.75	1.01	8.75	8.70	D
79	1805	809.56	44.4	1.61	1.61	101	16.1	2420	797.06	8.42	8.50	847	0	15.3	19.7	294	44550	391	8.2	85	119	3.26	.89	.79	1.01	8.81	8.70	D
80	1805	809.88	79.6	1.71	1.71	99	20.0	2420	797.23	8.42	8.50	847	0	15.3	19.7	297	44573	392	8.2	92	119	3.26	.78	.68	1.01	8.81	8.70	D
81	1805	810.20	108	1.68	1.68	101	22.5	2420	797.34	8.42	8.50	847	0	15.3	19.7	297	44590	392	8.2	54	119	3.26	.73	.63	1.01	8.81	8.70	D
82	1806	810.55	25.7	1.58	1.58	100	20.8	2420	797.80	8.16	8.43	847	0	15.6	19.3	304	44668	392	8.2	143	119	3.26	1.08	.97	1.01	8.84	8.70	D
83	1806	810.78	60.7	1.74	1.74	98	21.8	2410	797.92	8.16	8.43	847	0	15.6	19.3	304	44690	393	8.2	109	119	3.27	.87	.76	1.01	8.84	8.70	D
84	1807	811.08	34.0	1.62	1.62	101	19.9	2380	798.18	8.16	8.43	848	0	15.6	19.3	307	44742	393	8.2	129	119	3.27	1.00	.89	1.01	8.85	8.70	D
85	1807	811.38	36.2	1.69	1.69	101	20.0	2390	798.44	8.16	8.43	848	0	15.6	19.3	310	44792	393	8.2	137	119	3.27	.98	.88	1.01	8.85	8.70	D
86	1808	811.69	56.2	1.73	1.73	101	20.5	2380	798.58	8.03	8.29	848	0	16.0	20.1	312	44817	393	8.2	100	119	3.27	.88	.77	1.01	8.85	8.70	D
87	1808	812.04	31.6	1.75	1.75	100	20.3	2380	799.02	8.03	8.29	848	0	16.0	20.1	314	44867	394	8.2	168	119	3.28	1.02	.91	1.01	8.88	8.70	D
88	1809	812.31	29.6	1.71	1.71	99	20.4	2380	799.46	8.03	8.29	848	0	16.0	20.1	316	44919	394	8.2	135	119	3.28	1.03	.93	1.01	8.88	8.70	D
89	1809	812.60	68.3	1.73	1.73	101	20.7	2370	799.68	8.03	8.29	848	0	16.0	20.1	315	44944	394	8.3	70	119	3.28	.83	.73	1.01	8.88	8.70	D
90	1809	812.90	27.7	1.84	1.84	100	21.9	2360	800.12	8.03	8.29	849	0	16.0	20.1	316	44990	395	8.3	133	119	3.29	1.07	.96	1.01	8.88	8.70	D
91	1810	813.27	62.2	1.76	1.76	99	21.1	2370	800.29	8.03	8.43	849	0	16.5	20.6	317	45025	395	8.3	159	119	3.29	.85	.74	1.01	8.94	8.70	D
92	1811	813.83	32.6	1.87	2.15	100	22.1	2320	800.72	8.03	8.43	850	0	16.5	20.6	317	45117	396	8.3	121	119	3.29	1.02	.92	1.01	8.94	8.70	D
93	1811	814.12	85.1	1.83	1.83	101	21.8	2340	800.79	8.03	8.43	850	0	16.5	20.6	318	45137	396	8.3	76	119	3.30	.78	.67	1.02	8.94	8.70	D
94	1811	814.44	37.5	1.88	1.88	99	22.4	2340	801.03	8.03	8.43	849	0	16.5	20.6	317	45184	396	8.3	115	119	3.30	.99	.88	1.01	8.95	8.70	D
95	1812	814.73	45.4	1.85	1.85	101	22.2	2350	801.22	8.10	8.48	849	0	16.8	20.9	318	45222	397	8.3	108	119	3.30	.94	.84	1.01	8.95	8.70	D
96	1812	815.06	105	1.76	1.76	101	21.1	2360	801.30	8.10	8.48	849	0	16.8	20.9	320	45240	397	8.3	112	119	3.30	.72	.61	1.02	8.96	8.70	D
97	1812	815.35	30.0	1.85	1.85	99	21.8	2360	801.57	8.10	8.48	849	0	16.8	20.9	320	45298	397	8.3	161	119	3.30	1.03	.93	1.01	8.97	8.70	D
98	1813	815.67	51.3	1.76	1.76	101	21.7	2340	801.73	8.10	8.48	850	0	16.8	20.9	319	45335	397	8.3	95	119	3.30	.90	.80	1.02	8.97	8.70	D
99	1814	815.95	15.3	2.14	2.14	101	23.9	2360	802.34	8.03	8.57	850	0	17.1	21.1	321	45439	398	8.3	288	119	3.31	1.24	1.13	1.02	8.97	8.70	D
100	1814	816.29	54.4	1.68	1.68	99	22.9	2340	802.57	8.03	8.57	850	0	17.1	21.1	322	45476	398	8.3	121	119	3.31	.89	.79	1.02	8.97	8.70	D
101	1815	816.64	38.6	1.63	1.63	101	20.2	2370	802.91	8.03	8.57	850	0	17.1	21.1	323	45526	398	8.3	145	119	3.32	.96	.85	1.02	8.97	8.70	D
102	1815	816.90	70.2	1.60	1.60	98	18.4	2370	803.02	8.03	8.57	849	0	17.1	21.1	322	45546	399	8.4	111	119	3.32	.78	.68	1.02	8.97	8.70	D
103	1816	817.19	25.2	1.76	1.76	101	23.4	2370	803.35	8.11	8.63	849	0	17.4	21.4	325	45611	399	8.4	157	119	3.32	1.10	.99	1.02	8.98	8.70	D
104	1816	817.49	51.4	1.65	1.65	100	21.1	2370	803.49	8.11	8.63	850	0	17.4	21.4	324	45644	399	8.4	96	119	3.33	.89	.79	1.02	8.98	8.70	D
105	1816	817.78	37.1	1.58	1.58	100	19.7	2370	803.70	8.11	8.63	850	0	17.4	21.4	325	45689	400	8.4	125	119	3.33	.96	.85	1.02	8.98	8.70	D
106	1817	818.10	59.1	1.54	1.54	101	17.4	2380	803.83	8.10	8.68	850	0	17.6	21.6	326	45721	400	8.4	86	119	3.33	.82	.72	1.02	8.98	8.70	D
107	1823	818.47	25.2	.92	.92	100	20.7	2450	806.04	8.19	8.78	825	0	18.1	21.7	350	45751	400	8.4	132	119	3.33	1.07	.97	1.02	8.94	8.70	D↑
108	1825	819.92	40.4	1.60	1.60	99	17.6	2470	806.78	8.43	8.90	841	0	18.3	21.8	345	45828	402	8.4	159	119	3.34	.91	.81	1.02	8.93	8.70	D
109	1825	820.23	48.0	1.66	1.66	101	20.4	2460	807.08	8.43	8.90	840	0	18.3	21.8	343	45864	402	8.4	100	119	3.34	.91	.80	1.02	8.93	8.70	D
110	1825	820.58	87.8	1.74	1.94	101	20.0	2470	807.31	8.43	8.90	840	0	18.3	21.8	343	45884	402	8.4	120	119	3.34	.75	.65	1.02	8.93	8.70	D
111	1826	820.84	22.1	1.57	1.57	100	17.5	2490	807.83	8.43	8.90	840	0	18.3	21.8	345	45949	403	8.4	178	119	3.35	1.06	.96	1.02	8.93	8.70	D
112	1826	821.14	69.2	1.59	1.59	101	18.8	2480	808.02	8.43	9.01	840	0	18.4	22.0	343	45974	403	8.4	67	119	3.35	.80	.70	1.02	8.93	8.70	D
113	1826	821.45	93.5	1.72	1.72	100	20.8	2470	808.19	8.43	9.01	840	0	18.4	22.0	341	45994	403	8.4	65	119	3.35	.74	.64	1.02	8.93	8.70	D
114	1827	821.75	43.7	1.75	1.75	98	21.5	2470	808.46	8.43	9.01	840	0	18.4	22.0	342	46033	404	8.4	109	119	3.35	.94	.84	1.02	8.90	8.70	D
115	1827	822.06	46.2	1.70	1.70	98	20.5	2470	808.68	8.43	9.01	839	0	18.4	22.0	342	46072	404	8.4	102	119	3.35	.92	.81	1.02	8.90	8.70	D
116	1827	822.42	105	1.68	1.68	98	20.7	2480	808.85	8.43	9.01	839	0	18.4	22.0	343	46091	404	8.4	107	119	3.35	.71	.61	1.02	8.90	8.70	D

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
17	1828	822.66	40.9	1.68	1.68	99	21.4	2470	809.01	8.40	9.12	839	0	18.5	22.2	340	46121	404	8.4	86	119	3.35	.96	.86	1.02	8.87	8.70	D
18	1828	822.97	65.8	1.77	1.77	101	21.6	2480	809.16	8.40	9.12	839	0	18.5	22.2	341	46145	405	8.5	109	119	3.35	.85	.74	1.02	8.87	8.70	D
19	1828	823.27	40.3	1.71	1.71	101	21.9	2470	809.41	8.40	9.12	839	0	18.5	22.2	339	46188	405	8.5	119	119	3.36	.97	.87	1.02	8.87	8.70	D
20	1829	823.58	50.0	1.78	1.78	100	21.7	2470	809.62	8.40	9.12	840	0	18.5	22.2	341	46222	405	8.5	97	119	3.36	.92	.81	1.02	8.87	8.70	D
21	1829	823.89	106	1.74	1.74	101	21.9	2480	809.72	8.40	9.12	841	0	18.5	22.2	341	46238	406	8.5	37	119	3.36	.73	.62	1.02	8.87	8.70	D
22	1829	824.24	38.6	1.78	1.78	100	23.1	2480	810.08	8.44	9.11	840	0	18.6	22.5	339	46288	406	8.5	116	119	3.36	1.00	.89	1.02	8.87	8.70	D
23	1829	824.50	73.8	1.76	1.76	101	23.6	2480	810.25	8.44	9.11	840	0	18.6	22.5	340	46305	406	8.5	61	119	3.37	.84	.73	1.02	8.87	8.70	D
24	1830	824.82	52.7	1.82	1.82	99	24.1	2450	810.59	8.44	9.11	839	0	18.6	22.5	338	46338	407	8.5	87	119	3.37	.92	.81	1.02	8.87	8.70	D
25	1830	825.10	23.5	1.82	1.84	99	24.5	2470	811.18	8.44	9.11	840	0	18.6	22.5	339	46393	407	8.5	142	119	3.37	1.14	1.03	1.02	8.87	8.70	D
26	1830	825.40	94.1	1.69	1.69	98	22.1	2470	811.35	8.44	9.11	840	0	18.6	22.5	339	46411	407	8.5	179	119	3.37	.75	.65	1.02	8.86	8.70	D
27	1831	825.73	35.0	1.63	1.63	101	20.0	2480	811.88	8.45	9.08	840	0	18.8	22.5	340	46466	407	8.5	153	119	3.38	.99	.89	1.02	8.84	8.70	D
28	1831	826.02	31.6	1.70	1.70	99	21.3	2470	812.28	8.45	9.08	841	0	18.8	22.5	341	46515	408	8.5	136	119	3.38	1.03	.92	1.02	8.84	8.70	D
29	1832	826.34	52.7	1.73	1.73	99	22.8	2470	812.48	8.45	9.08	841	0	18.8	22.5	342	46545	408	8.5	89	119	3.38	.92	.81	1.02	8.83	8.70	D
30	1832	826.67	50.3	1.65	1.65	100	21.3	2470	812.81	8.45	9.08	840	0	18.8	22.5	342	46582	408	8.5	115	119	3.38	.91	.81	1.02	8.84	8.70	D
31	1832	826.96	60.2	1.71	1.71	99	20.7	2470	812.88	8.45	9.05	839	0	18.9	22.5	341	46605	409	8.5	64	119	3.39	.86	.75	1.02	8.84	8.70	D
34	1840	828.52	39.0	1.61	1.61	99	17.3	2470	815.68	8.50	8.52	840	0	19.3	21.9	359	46683	410	8.5	159	118	3.39	.94	.84	1.02	8.67	8.70	D
35	1840	828.79	41.3	1.66	1.66	98	23.2	2480	815.92	8.50	8.52	839	0	19.3	21.9	361	46719	410	8.5	150	119	3.39	1.00	.89	1.02	8.67	8.70	D
36	1841	829.08	79.0	1.68	1.68	98	22.4	2480	816.10	8.50	8.52	839	0	19.3	21.9	359	46739	411	8.6	45	118	3.39	.82	.71	1.02	8.67	8.70	D
37	1841	829.69	44.8	1.78	1.78	98	22.4	2480	816.59	8.50	8.52	838	0	19.3	21.9	359	46804	411	8.6	140	118	3.40	.97	.86	1.02	8.67	8.70	D
38	1842	829.99	42.0	1.71	1.71	98	22.5	2470	816.89	8.51	8.43	839	0	19.4	21.7	358	46844	412	8.6	112	118	3.40	.99	.88	1.02	8.61	8.70	D
39	1842	830.31	29.7	1.67	1.67	98	22.6	2480	817.25	8.51	8.43	839	0	19.4	21.7	359	46896	412	8.6	138	118	3.40	1.09	.98	1.02	8.61	8.70	D
40	1842	830.60	59.8	1.66	1.66	98	21.7	2490	817.37	8.51	8.43	839	0	19.4	21.7	357	46915	412	8.6	61	118	3.41	.89	.78	1.02	8.61	8.70	D
41	1843	830.89	72.3	1.68	1.68	100	20.8	2480	817.56	8.51	8.43	838	0	19.4	21.7	357	46939	413	8.6	92	118	3.41	.84	.73	1.02	8.61	8.70	D
42	1843	831.22	47.2	1.58	1.58	98	19.7	2480	817.87	8.49	8.38	838	0	19.5	21.6	357	46976	413	8.6	152	118	3.41	.93	.82	1.02	8.61	8.70	D
43	1844	831.50	27.6	1.71	1.71	100	20.2	2480	818.33	8.49	8.38	839	0	19.5	21.6	359	47034	413	8.6	155	118	3.41	1.09	.98	1.02	8.55	8.70	D
44	1844	832.18	38.2	1.72	1.72	98	21.7	2480	818.85	8.49	8.38	839	0	19.5	21.6	359	47099	414	8.6	141	118	3.41	1.02	.90	1.02	8.55	8.70	D
45	1845	832.72	31.7	1.55	1.55	98	21.6	2480	819.48	8.52	8.33	838	0	19.6	21.5	360	47183	415	8.6	156	118	3.42	1.07	.96	1.02	8.50	8.70	D
46	1845	833.03	46.5	1.66	1.66	99	19.6	2480	819.73	8.52	8.33	838	0	19.6	21.5	361	47212	415	8.6	101	118	3.42	.95	.84	1.02	8.50	8.70	D
47	1846	833.38	63.0	1.62	1.62	98	19.8	2480	819.98	8.52	8.33	839	0	19.6	21.5	361	47245	415	8.6	96	118	3.42	.87	.76	1.02	8.50	8.70	D
48	1846	833.64	31.6	1.83	1.83	98	22.8	2480	820.28	8.52	8.30	839	0	19.7	21.5	361	47291	415	8.6	120	118	3.43	1.09	.97	1.02	8.50	8.70	D
49	1846	833.97	67.7	1.70	1.70	98	23.4	2490	820.39	8.52	8.30	838	0	19.7	21.5	361	47314	416	8.7	101	118	3.43	.89	.78	1.02	8.45	8.70	D
50	1847	834.29	42.0	1.75	1.75	98	23.9	2470	820.58	8.52	8.30	838	0	19.7	21.5	361	47356	416	8.7	102	118	3.43	1.03	.91	1.02	8.45	8.70	D
51	1847	834.55	56.8	1.71	1.71	98	24.2	2480	820.70	8.52	8.30	839	0	19.7	21.5	363	47377	416	8.7	103	118	3.43	.95	.83	1.02	8.45	8.70	D
52	1847	834.87	58.0	1.73	1.73	98	24.2	2470	820.85	8.52	8.30	838	0	19.7	21.5	363	47408	417	8.7	80	118	3.44	.94	.83	1.02	8.45	8.70	D
53	1848	835.20	59.3	1.76	1.76	98	23.7	2490	820.96	8.52	8.30	838	0	19.7	21.5	363	47434	417	8.7	102	118	3.44	.93	.82	1.02	8.45	8.70	D
54	1848	835.46	46.9	1.78	1.78	98	23.0	2480	821.10	8.53	8.25	838	0	19.9	21.4	365	47464	417	8.7	94	118	3.44	.99	.87	1.02	8.45	8.70	D
55	1849	835.76	24.3	1.78	1.78	98	23.6	2490	821.52	8.53	8.25	837	0	19.9	21.4	366	47516	418	8.7	136	118	3.44	1.18	1.06	1.02	8.43	8.70	D
56	1849	836.07	70.3	1.77	1.77	98	24.8	2480	821.70	8.53	8.25	837	0	19.9	21.4	366	47541	418	8.7	110	118	3.44	.90	.78	1.02	8.43	8.70	D
57	1856	836.41	37.5	1.80	1.97	98	24.9	2480	823.15	8.52	8.35	835	0	20.2	21.2	398	47568	418	8.7	104	118	3.45	1.08	.96	1.02	8.40	8.70	D†
58	1857	837.64	70.0	1.85	1.85	98	22.2	2470	824.03	8.59	8.56	833	0	20.2	21.1	397	47692	419	8.7	115	118	3.45	.88	.76	1.02	8.41	8.70	D
59	1858	837.93	54.6	1.81	1.81	98	26.3	2470	824.32	8.59	8.56	833	0	20.2	21.1	395	47722	420	8.7	93	118	3.46	.99	.86	1.02	8.41	8.70	D
60	1858	838.25	69.0	1.74	1.74	100	24.5	2470	824.53	8.59	8.56	833	0	20.2	21.1	396	47748	420	8.7	111	118	3.46	.91	.79	1.02	8.41	8.70	D
61	1859	838.82	34.4	1.78	1.78	98	22.1	2470	825.18	8.59	8.56	834	0	20.2	21.1	396	47825	421	8.7	145	118	3.46	1.07	.95	1.02	8.41	8.70	D
62	1859	839.13	60.6	1.73	1.73	98	23.6	2480	825.46	8.59	8.56	834	0	20.2	21.1	395	47855	421	8.7	120	118	3.46	.93	.81	1.02	8.41	8.70	D
63	1859	839.48	40.6	1.74	1.74	99	23.5	2470	825.83	8.93	8.98	834	0	20.3	21.2	395	47898	421	8.7	112	118	3.46	1.04	.92	1.02	8.43	8.70	D
64	1900	839.77	60.2	1.73	1.73	98	22.6	2440	826.06	8.93	8.98	834	0	20.3	21.2	396	47921	422	8.8	73	118	3.47	.92	.80	1.02	8.43	8.70	D
65	1900	840.34	43.8	1.75	1.75	98	22.0	2490	826.58	8.93	8.98	835	0	20.3	21.2	397	47981	422	8.8	122	118	3.47	1.00	.88	1.02	8.44	8.70	D
66	1901	840.68	65.5	1.75	1.75	98	22.5	2480	826.88	8.93	8.98	835	0	20.3	21.2	398	48011	422	8.8	93	118	3.47	.89	.78	1.02	8.44	8.70	D
67	1901	840.95	52.6	1.72	1.72	98	22.3	2480	827.12	8.87	8.89	835	0	20.3	21.3	402	48037	423	8.8	126	118	3.47	.95	.83	1.02	8.46	8.70	D
68	1901	841.33	97.2	1.69	1.69	98	22.7	2480	827.35	8.87	8.89	835	0	20.3	21.3	406	48058	423	8.8	62	118	3.48	.79	.67	1.02	8.46	8.70	D

EKLOG AMOCO AUST. Tilana No.1 329090 Data Printed at time 12:39 Date Oct 9 '85 Data Recorded at time 19:02 Date Sep 10 '85 22

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
169	1902	841.62	35.1	1.76	1.76	100	23.1	2460	827.75	8.87	8.89	835	0	20.3	21.3	409	48103	423	8.8	110	118	3.48	1.07	.95	1.02	8.46	8.70	D
170	1902	841.88	76.1	1.78	1.78	98	23.4	2480	827.91	8.87	8.89	835	0	20.3	21.3	413	48123	424	8.8	108	118	3.48	.86	.74	1.02	8.46	8.70	D
171	1902	842.20	43.3	1.71	1.71	98	22.4	2480	828.31	8.87	8.89	834	0	20.3	21.3	415	48163	424	8.8	112	118	3.48	1.00	.89	1.02	8.46	8.70	D
172	1902	842.47	69.9	1.81	1.81	98	22.2	2480	828.53	8.89	8.82	834	0	20.3	21.3	416	48185	424	8.8	104	118	3.48	.87	.75	1.02	8.48	8.70	D
173	1903	842.82	40.6	1.71	1.71	99	22.4	2460	828.96	8.89	8.82	834	0	20.3	21.3	416	48236	425	8.8	123	118	3.49	1.02	.90	1.02	8.48	8.70	D
174	1903	843.08	40.1	1.75	1.75	98	23.4	2490	829.25	8.89	8.82	835	0	20.3	21.3	419	48270	425	8.8	118	118	3.49	1.03	.91	1.02	8.48	8.70	D
175	1904	843.40	50.9	1.72	1.72	99	23.1	2480	829.62	8.89	8.82	835	0	20.3	21.3	421	48306	425	8.8	133	118	3.49	.97	.85	1.02	8.48	8.70	D
176	1904	843.73	85.2	1.85	1.85	98	22.8	2480	829.76	8.89	8.82	835	0	20.3	21.3	422	48328	425	8.8	78	118	3.49	.82	.70	1.02	8.48	8.70	D
177	1904	844.02	40.4	1.64	1.64	100	21.9	2470	830.11	8.89	8.76	835	0	20.4	21.4	422	48367	426	8.8	110	118	3.50	1.02	.90	1.02	8.48	8.70	D
178	1905	844.30	43.0	1.65	1.65	98	21.0	2470	830.44	8.89	8.76	835	0	20.4	21.4	424	48405	426	8.8	142	118	3.50	.98	.87	1.02	8.49	8.70	D
179	1905	844.61	62.7	1.55	1.55	98	20.4	2470	830.63	8.89	8.76	835	0	20.4	21.4	425	48433	426	8.8	81	118	3.50	.88	.77	1.02	8.49	8.70	D
180	1905	844.93	41.5	1.56	1.56	98	17.8	2480	830.96	8.89	8.76	835	0	20.4	21.4	428	48476	427	8.8	128	118	3.50	.95	.84	1.02	8.48	8.70	D
181	1906	845.28	43.9	1.60	1.60	98	19.0	2440	831.29	8.89	8.76	835	0	20.4	21.4	426	48515	427	8.9	104	118	3.50	.95	.84	1.02	8.49	8.70	D
182	1914	845.61	39.1	1.02	1.02	98	22.9	2470	833.44	8.87	8.90	834	0	20.3	21.8	457	48546	427	8.9	118	118	3.51	1.03	.91	1.02	8.54	8.70	D†
183	1915	846.43	35.0	1.58	1.58	98	13.9	2450	834.39	8.89	8.92	836	0	20.1	21.7	455	48600	428	8.9	192	117	3.51	.93	.83	1.02	8.57	8.70	D
184	1915	846.84	80.6	1.64	1.64	97	20.0	2450	834.70	8.89	8.92	835	0	20.1	21.7	456	48627	428	8.9	124	117	3.51	.80	.68	1.02	8.57	8.70	D
185	1916	847.37	41.5	1.75	1.75	95	23.5	2460	835.16	8.89	8.92	834	0	20.1	21.7	458	48679	429	8.9	143	117	3.51	1.00	.89	1.02	8.57	8.70	D
186	1916	847.66	60.2	1.85	1.85	97	23.1	2450	835.40	8.89	8.92	834	0	20.1	21.7	458	48701	429	8.9	70	117	3.52	.91	.79	1.02	8.57	8.70	D
187	1917	848.01	33.5	1.81	1.81	95	24.4	2460	835.91	8.88	8.88	834	0	20.1	21.8	460	48758	430	8.9	157	117	3.52	1.07	.96	1.02	8.57	8.70	D
188	1917	848.26	30.9	1.77	1.77	96	24.0	2450	836.24	8.88	8.88	834	0	20.1	21.8	464	48794	430	8.9	109	117	3.52	1.09	.97	1.02	8.60	8.70	D
189	1917	848.57	49.6	1.72	1.72	98	21.6	2460	836.44	8.88	8.88	834	0	20.1	21.8	469	48821	430	8.9	97	117	3.52	.94	.83	1.02	8.60	8.70	D
190	1918	848.92	41.9	1.72	1.72	98	21.2	2460	836.84	8.88	8.88	834	0	20.1	21.8	477	48869	431	8.9	114	117	3.53	.98	.87	1.02	8.60	8.70	D
191	1918	849.48	39.9	1.79	1.79	98	21.6	2460	837.42	8.88	8.86	834	0	20.0	22.0	490	48939	431	8.9	174	117	3.53	1.00	.88	1.02	8.62	8.70	D
192	1919	849.79	42.9	1.73	1.73	98	22.1	2440	837.71	8.88	8.86	834	0	20.0	22.0	491	48980	432	8.9	111	117	3.53	.98	.87	1.02	8.62	8.70	D
193	1919	850.09	42.0	1.77	1.77	97	22.5	2450	838.01	8.88	8.86	834	0	20.0	22.0	493	49020	432	8.9	118	117	3.53	.99	.87	1.02	8.62	8.70	D
194	1920	850.40	42.9	1.68	1.68	98	20.4	2450	838.25	8.88	8.86	833	0	20.0	22.0	492	49055	432	8.9	84	117	3.54	.96	.85	1.02	8.62	8.70	D
195	1920	850.71	55.8	1.61	1.61	98	18.6	2450	838.52	8.91	8.83	833	0	19.9	22.3	493	49086	433	9.0	96	117	3.54	.87	.76	1.02	8.62	8.70	D
196	1920	851.01	42.0	1.79	1.79	98	18.5	2410	838.92	8.91	8.83	833	0	19.9	22.3	494	49128	433	9.0	119	117	3.54	.94	.83	1.02	8.64	8.70	D
197	1921	851.32	51.3	1.83	1.83	98	21.9	2460	839.24	8.91	8.83	833	0	19.9	22.3	495	49162	433	9.0	111	117	3.54	.93	.82	1.02	8.64	8.70	D
198	1921	851.64	67.9	1.84	1.84	97	22.8	2450	839.47	8.91	8.83	833	0	19.9	22.3	494	49190	433	9.0	73	117	3.55	.86	.75	1.02	8.64	8.70	D
199	1921	851.92	59.9	1.85	1.85	98	24.8	2450	839.71	8.91	8.83	833	0	19.9	22.3	496	49214	434	9.0	91	117	3.55	.92	.80	1.02	8.64	8.70	D
200	1921	852.26	105	1.86	1.86	98	25.9	2460	839.90	8.85	8.82	832	0	20.0	22.4	497	49232	434	9.0	82	117	3.55	.77	.65	1.02	8.67	8.70	D
201	1922	852.53	32.9	1.75	1.75	98	24.4	2420	840.15	8.85	8.82	833	0	20.0	22.4	496	49271	434	9.0	106	117	3.55	1.07	.96	1.02	8.67	8.70	D
202	1922	852.84	42.1	1.70	1.70	98	21.7	2450	840.40	8.85	8.82	834	0	20.0	22.4	497	49304	435	9.0	130	117	3.55	.98	.86	1.02	8.67	8.70	D
203	1923	853.19	50.9	1.56	1.56	98	19.6	2430	840.72	8.85	8.82	834	0	20.0	22.4	497	49343	435	9.0	83	117	3.56	.90	.79	1.02	8.67	8.70	D
204	1923	853.75	42.1	1.94	1.94	97	22.3	2410	841.12	8.86	8.82	832	0	20.0	22.5	498	49408	436	9.0	127	117	3.56	.98	.87	1.02	8.67	8.70	D
205	1924	854.07	44.7	1.89	1.89	97	23.7	2420	841.12	8.86	8.82	832	0	20.0	22.5	498	49448	436	9.0	106	117	3.56	.98	.86	1.02	8.70	8.70	D
206	1924	854.39	31.0	1.93	1.93	97	24.4	2440	841.12	8.86	8.82	833	0	20.0	22.5	499	49507	436	9.0	169	117	3.56	1.08	.97	1.02	8.70	8.70	D
207	1925	854.77	44.6	1.90	1.90	96	24.6	2420	841.12	8.86	8.82	833	0	20.0	22.5	501	49549	436	9.0	134	117	3.57	.98	.87	1.02	8.71	8.70	D
208	1932	855.61	65.9	1.48	1.48	98	16.2	2450	842.54	8.81	8.88	839	0	20.0	22.9	525	49600	437	9.0	71	117	3.57	.79	.69	1.02	8.76	8.70	D†
209	1932	855.90	39.5	1.64	1.64	98	19.7	2440	842.89	8.81	8.88	839	0	20.0	22.9	523	49639	438	9.0	95	117	3.57	.96	.85	1.02	8.76	8.70	D
210	1933	856.22	31.2	1.76	1.76	97	24.1	2440	843.23	8.81	8.88	839	0	20.0	22.9	523	49683	438	9.1	136	117	3.58	1.07	.95	1.02	8.76	8.70	D
211	1933	856.81	44.8	1.71	1.71	98	23.3	2440	843.84	8.84	8.88	838	0	20.0	22.9	521	49748	439	9.1	116	117	3.58	.96	.85	1.02	8.80	8.70	D
212	1934	857.13	52.7	1.66	1.66	98	22.5	2440	844.18	8.84	8.88	838	0	20.0	22.9	520	49777	439	9.1	74	117	3.58	.91	.80	1.02	8.80	8.70	D
213	1934	857.40	28.9	1.65	1.65	97	20.4	2440	844.61	8.84	8.88	838	0	20.0	22.9	521	49821	439	9.1	134	117	3.58	1.04	.93	1.02	8.80	8.70	D
214	1934	857.77	67.7	1.65	1.65	98	22.1	2440	844.87	8.84	8.88	838	0	20.0	22.9	520	49844	439	9.1	70	117	3.59	.84	.73	1.02	8.80	8.70	D
215	1935	858.04	35.3	1.53	1.53	98	20.0	2440	845.30	8.84	8.88	839	0	20.0	22.9	520	49885	440	9.1	105	117	3.59	.99	.88	1.02	8.80	8.70	D
216	1935	858.32	48.2	1.56	1.56	98	18.7	2440	845.54	8.83	8.77	839	0	20.1	23.1	519	49909	440	9.1	81	117	3.59	.89	.78	1.02	8.80	8.70	D
217	1935	858.65	38.5	1.66	1.66	98	20.9	2440	846.00	8.83	8.77	840	0	20.1	23.1	519	49958	440	9.1	80	117	3.59	.98	.86	1.02	8.81	8.70	D
218	1936	858.93	43.6	1.82	1.82	98	23.5	2440	846.39	8.83	8.77	840	0	20.1	23.1	517	49994	441	9.1	100	117	3.60	.97	.86	1.02	8.81	8.70	D

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	BCD	EST RM PR	
19	1936	859.23	106	1.85	1.85	98	25.4	2440	846.54	8.83	8.77	840	0	20.1	23.1	517	50010	441	9.1	57	117	3.60	.76	.64	1.02	8.81	8.70	D
20	1936	859.54	48.3	1.88	1.88	97	25.0	2430	846.85	8.83	8.77	841	0	20.1	23.1	517	50048	441	9.1	86	117	3.60	.96	.84	1.02	8.81	8.70	D
21	1937	859.85	55.8	1.72	1.72	98	24.2	2440	847.13	8.82	8.76	841	0	20.3	23.3	516	50076	442	9.1	89	117	3.60	.92	.80	1.02	8.81	8.70	D
22	1937	860.17	52.5	1.73	1.73	97	23.5	2440	847.40	8.82	8.76	840	0	20.3	23.3	517	50110	442	9.1	91	117	3.60	.92	.80	1.02	8.83	8.70	D
23	1938	860.76	47.7	1.74	1.74	98	23.7	2430	847.88	8.82	8.76	839	0	20.3	23.3	515	50167	443	9.1	124	117	3.60	.95	.83	1.02	8.83	8.70	D
24	1938	861.07	50.3	1.80	1.80	98	23.1	2430	848.09	8.82	8.76	839	0	20.3	23.3	515	50196	443	9.1	79	117	3.61	.93	.81	1.02	8.83	8.70	D
25	1938	861.37	105	1.78	1.78	98	22.5	2430	848.23	8.83	8.76	839	0	20.4	23.5	514	50212	443	9.1	44	117	3.61	.73	.61	1.02	8.86	8.70	D
26	1939	861.75	39.0	1.70	1.70	98	23.9	2440	848.70	8.83	8.76	839	0	20.4	23.5	515	50269	443	9.2	157	117	3.61	1.00	.88	1.02	8.86	8.70	D
27	1939	862.02	36.4	1.65	1.65	98	21.9	2390	849.04	8.83	8.76	840	0	20.4	23.5	515	50310	444	9.2	125	117	3.61	.99	.88	1.02	8.86	8.70	D
28	1939	862.31	63.2	1.57	1.57	98	20.2	2430	849.24	8.83	8.76	841	0	20.4	23.5	514	50335	444	9.2	74	117	3.62	.84	.72	1.02	8.86	8.70	D
29	1940	862.60	38.0	1.56	1.56	98	18.4	2440	849.57	8.84	8.79	840	0	20.5	23.7	515	50375	444	9.2	124	117	3.62	.94	.83	1.02	8.89	8.70	D
30	1940	862.95	82.9	1.70	1.70	98	20.3	2450	849.70	8.84	8.79	840	0	20.5	23.7	514	50398	445	9.2	58	117	3.62	.77	.66	1.02	8.89	8.70	D
31	1941	863.51	51.2	1.77	1.77	98	22.1	2440	850.01	8.84	8.79	840	0	20.5	23.7	514	50455	445	9.2	89	117	3.62	.91	.79	1.02	8.89	8.70	D
32	1941	863.86	60.7	1.78	1.78	98	24.5	2430	850.18	8.84	8.79	840	0	20.5	23.7	514	50488	446	9.2	73	117	3.63	.89	.77	1.02	8.89	8.70	D
33	1949	865.34	61.4	1.37	1.37	101	12.8	2390	850.89	8.78	8.93	840	0	20.8	23.9	525	50531	447	9.2	138	116	3.63	.75	.65	1.02	8.98	8.70	D
34	1949	865.66	52.2	1.54	1.54	97	14.9	2410	851.19	8.78	8.93	840	0	20.8	23.9	522	50565	447	9.2	80	116	3.63	.81	.70	1.02	8.98	8.70	D
35	1950	865.95	47.4	1.62	1.62	95	19.9	2390	851.49	8.78	8.93	840	0	20.8	23.9	521	50597	448	9.2	102	116	3.63	.89	.78	1.02	8.98	8.70	D
36	1950	866.27	87.8	1.72	1.72	98	22.4	2400	851.71	8.78	8.93	839	0	20.8	23.9	519	50616	448	9.2	65	116	3.63	.76	.65	1.03	8.98	8.70	D
37	1950	866.59	51.0	1.73	1.73	96	23.7	2390	852.01	8.78	8.93	838	0	20.8	23.9	519	50649	448	9.2	94	116	3.63	.91	.79	1.03	8.98	8.70	D
38	1950	866.89	71.6	1.70	1.70	95	24.7	2390	852.24	8.78	8.93	838	0	20.8	23.9	517	50672	449	9.2	92	116	3.64	.83	.71	1.03	8.98	8.70	D
39	1951	867.18	37.8	1.86	1.86	97	26.5	2400	852.61	8.77	8.82	838	0	20.9	23.7	517	50713	449	9.2	112	116	3.64	1.02	.90	1.03	8.98	8.70	D
40	1951	867.50	75.3	1.81	1.81	95	26.9	2400	852.82	8.77	8.82	838	0	20.9	23.7	517	50735	449	9.2	81	116	3.64	.83	.71	1.03	9.01	8.70	D
41	1951	867.77	52.7	1.80	1.80	96	27.3	2390	853.03	8.77	8.82	839	0	20.9	23.7	516	50761	450	9.2	95	116	3.64	.93	.81	1.03	9.01	8.70	D
42	1951	868.12	81.1	1.78	1.78	95	28.1	2380	853.17	8.77	8.82	839	0	20.9	23.7	515	50782	450	9.2	77	116	3.64	.82	.70	1.03	9.01	8.70	D
43	1952	868.38	43.7	1.84	1.84	97	26.7	2390	853.45	8.77	8.82	839	0	20.9	23.7	515	50809	450	9.2	87	116	3.64	.98	.86	1.03	9.01	8.70	D
44	1952	868.70	55.0	1.69	1.69	95	24.6	2400	853.73	8.77	8.82	840	0	20.9	23.7	514	50842	450	9.3	105	116	3.65	.89	.78	1.03	9.01	8.70	D
45	1952	869.00	43.4	1.61	1.61	95	22.7	2390	854.07	8.75	8.69	839	0	21.0	23.7	513	50879	451	9.3	89	116	3.65	.94	.82	1.03	9.01	8.70	D
46	1953	869.32	52.7	1.64	1.64	96	22.1	2370	854.30	8.75	8.69	839	0	21.0	23.7	512	50911	451	9.3	116	116	3.65	.88	.77	1.03	9.03	8.70	D
47	1953	869.61	41.3	1.75	1.75	96	23.4	2390	854.53	8.75	8.69	840	0	21.0	23.7	513	50948	451	9.3	109	116	3.65	.96	.84	1.03	9.04	8.70	D
48	1953	869.90	77.9	1.69	1.69	96	24.9	2380	854.70	8.75	8.69	839	0	21.0	23.7	513	50968	452	9.3	109	116	3.66	.81	.69	1.03	9.04	8.70	D
49	1954	870.23	52.7	1.68	1.68	95	24.1	2380	854.93	8.75	8.69	839	0	21.0	23.7	512	51000	452	9.3	84	116	3.66	.90	.78	1.03	9.04	8.70	D
50	1954	870.52	50.4	1.76	1.76	96	24.9	2380	855.15	8.75	8.69	838	0	21.0	23.7	512	51032	452	9.3	91	116	3.66	.92	.80	1.03	9.04	8.70	D
51	1954	870.84	65.9	1.76	1.76	95	25.1	2380	855.37	8.77	8.75	838	0	21.1	23.8	510	51058	453	9.3	91	116	3.66	.85	.73	1.03	9.06	8.70	D
52	1955	871.16	47.9	1.83	1.83	96	26.5	2380	855.71	8.77	8.75	838	0	21.1	23.8	510	51093	453	9.3	101	116	3.66	.95	.83	1.03	9.05	8.70	D
53	1955	871.43	81.9	1.65	1.65	95	27.2	2390	855.96	8.77	8.75	839	0	21.1	23.8	508	51110	453	9.3	86	116	3.67	.81	.69	1.03	9.05	8.70	D
54	1956	871.75	22.0	1.75	1.75	97	27.5	2380	856.72	8.77	8.75	839	0	21.1	23.8	509	51189	454	9.3	187	116	3.67	1.17	1.05	1.03	9.05	8.70	D
55	1956	872.04	79.4	1.72	1.72	98	25.9	2380	856.97	8.77	8.75	840	0	21.1	23.8	509	51210	454	9.3	112	116	3.67	.81	.69	1.03	9.05	8.70	D
56	1956	872.36	41.6	1.81	1.81	98	25.7	2370	857.36	8.77	8.80	840	0	21.2	23.9	508	51253	454	9.3	115	116	3.68	.98	.86	1.03	9.07	8.70	D
57	1957	872.65	45.7	1.77	1.77	98	25.4	2380	857.64	8.77	8.80	841	0	21.2	23.9	508	51285	454	9.3	92	116	3.68	.95	.83	1.03	9.07	8.70	D
58	1957	872.98	72.2	1.75	1.75	96	25.1	2400	857.85	8.77	8.80	841	0	21.2	23.9	511	51311	455	9.3	77	116	3.68	.83	.71	1.03	9.08	8.70	D
59	1957	873.27	72.9	1.77	1.77	98	26.0	2390	858.06	8.77	8.80	841	0	21.2	23.9	510	51332	455	9.3	78	116	3.68	.84	.72	1.03	9.08	8.70	D
60	2003	873.66	15.3	.93	.93	96	27.5	2410	859.73	8.76	8.82	830	0	21.3	24.0	526	51366	455	9.3	128	116	3.68	1.26	1.13	1.03	9.09	8.70	D†
62	2004	874.47	30.6	1.48	1.48	96	15.3	2400	859.73	8.76	8.82	843	0	21.3	24.0	520	51414	456	9.4	217	116	3.68	.92	.82	1.03	9.10	8.70	D†
63	2004	875.10	45.6	1.62	1.62	95	20.5	2380	859.83	8.76	8.77	843	0	21.4	24.0	517	51465	457	9.4	103	116	3.69	.89	.78	1.03	9.10	8.70	D
64	2005	875.39	72.9	1.66	1.66	98	23.4	2400	859.87	8.76	8.77	843	0	21.4	24.0	517	51486	457	9.4	68	116	3.69	.81	.69	1.03	9.10	8.70	D
65	2005	875.70	61.6	1.69	1.69	97	24.9	2390	859.96	8.76	8.77	842	0	21.4	24.0	515	51513	457	9.4	90	116	3.69	.86	.75	1.03	9.10	8.70	D
66	2005	876.03	44.4	1.70	1.70	97	24.2	2370	860.06	8.76	8.77	843	0	21.4	24.0	515	51555	458	9.4	114	116	3.69	.94	.82	1.03	9.11	8.70	D
67	2006	876.39	89.1	1.66	1.66	98	23.3	2400	860.11	8.76	8.77	843	0	21.4	24.0	514	51577	458	9.4	63	116	3.69	.76	.64	1.03	9.11	8.70	D
68	2006	876.61	36.5	1.68	1.68	96	24.0	2370	860.28	8.73	8.72	843	0	21.6	23.9	512	51607	458	9.4	91	116	3.70	.99	.87	1.03	9.11	8.70	D
69	2006	876.91	58.5	1.70	1.70	98	25.0	2410	860.55	8.73	8.72	844	0	21.6	23.9	513	51637	459	9.4	102	116	3.70	.88	.76	1.03	9.11	8.70	D

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
270	2007	877.22	58.8	1.73	1.73	97	25.2	2380	860.76	8.73	8.72	844	0	21.6	23.9	510	51666	459	9.4	79	116	3.70	.88	.76	1.03	9.11	8.70	D
271	2007	877.56	71.4	1.75	1.75	98	24.8	2370	861.03	8.73	8.72	844	0	21.6	23.9	511	51692	459	9.4	80	116	3.70	.83	.71	1.03	9.11	8.70	D
272	2007	877.88	72.9	1.78	1.78	98	25.6	2380	861.16	8.73	8.72	844	0	21.6	23.9	510	51713	460	9.4	57	116	3.70	.83	.71	1.03	9.11	8.70	D
273	2007	878.17	37.7	1.72	1.72	97	25.4	2360	861.51	8.72	8.69	844	0	21.7	24.0	510	51755	460	9.4	119	116	3.71	.99	.88	1.03	9.12	8.70	D
274	2008	878.49	75.3	1.74	1.74	97	25.5	2390	861.74	8.72	8.69	844	0	21.7	24.0	509	51778	460	9.4	64	116	3.71	.82	.70	1.03	9.11	8.70	D
275	2008	878.75	56.1	1.80	1.80	97	25.8	2360	861.96	8.72	8.69	844	0	21.7	24.0	508	51802	461	9.4	71	116	3.71	.89	.78	1.03	9.11	8.70	D
276	2008	879.05	42.0	1.84	1.84	98	26.4	2390	862.33	8.72	8.69	843	0	21.7	24.0	508	51843	461	9.4	113	116	3.71	.98	.86	1.03	9.12	8.70	D
277	2009	879.36	56.4	1.93	1.93	97	26.2	2400	862.63	8.72	8.69	843	0	21.7	24.0	508	51873	461	9.4	128	116	3.71	.90	.78	1.03	9.11	8.70	D
278	2009	879.66	47.7	1.78	1.78	98	26.4	2400	862.92	8.72	8.69	843	0	21.7	24.0	509	51909	461	9.4	102	116	3.72	.95	.83	1.03	9.11	8.70	D
279	2009	879.96	47.9	1.88	1.88	97	26.9	2400	863.22	8.72	8.66	842	0	21.7	24.1	509	51941	462	9.4	92	115	3.72	.95	.83	1.03	9.11	8.70	D
280	2010	880.28	48.0	1.82	1.82	97	28.2	2390	863.59	8.72	8.66	842	0	21.7	24.1	509	51977	462	9.5	105	115	3.72	.96	.84	1.03	9.11	8.70	D
281	2010	880.57	72.9	1.85	1.85	96	28.0	2390	863.73	8.72	8.66	842	0	21.7	24.1	509	51998	462	9.5	63	115	3.72	.84	.72	1.03	9.11	8.70	D
282	2010	880.89	67.8	1.83	1.83	96	27.8	2380	864.03	8.72	8.66	843	0	21.7	24.1	507	52024	463	9.5	90	115	3.72	.86	.74	1.03	9.11	8.70	D
283	2011	881.24	46.0	1.89	1.89	98	27.5	2360	864.40	8.72	8.66	843	0	21.7	24.1	508	52066	463	9.5	112	115	3.73	.97	.84	1.03	9.11	8.70	D
284	2011	881.83	57.8	1.82	1.82	98	27.1	2370	864.83	8.74	8.65	843	0	21.8	24.2	509	52116	464	9.5	115	115	3.73	.90	.78	1.03	9.11	8.70	D
285	2011	882.10	50.5	1.78	1.78	98	26.8	2370	865.12	8.74	8.65	843	0	21.8	24.2	507	52145	464	9.5	83	115	3.73	.94	.81	1.03	9.11	8.70	D
286	2012	882.40	39.9	1.78	1.78	96	26.5	2380	865.48	8.74	8.65	844	0	21.8	24.2	510	52186	464	9.5	110	115	3.74	.99	.87	1.03	9.11	8.70	D
287	2018	883.75	76.1	1.41	1.41	101	14.0	2370	868.46	8.75	8.87	842	0	22.0	24.1	517	52249	465	9.5	127	115	3.74	.71	.61	1.03	9.08	8.70	D†
288	2019	884.60	57.3	1.68	1.68	98	22.9	2370	868.65	8.75	8.87	842	0	22.0	24.1	513	52329	466	9.5	101	115	3.74	.87	.75	1.03	9.08	8.70	D
289	2020	884.85	42.2	1.79	1.79	98	25.8	2370	868.71	8.75	8.87	842	0	22.0	24.1	512	52360	467	9.5	85	115	3.75	.98	.85	1.03	9.09	8.70	D
290	2020	885.15	95.9	1.79	1.79	98	25.3	2350	868.76	8.75	8.87	842	0	22.0	24.1	511	52378	467	9.5	71	115	3.75	.76	.64	1.03	9.09	8.70	D
291	2020	885.44	43.5	1.76	1.76	98	25.2	2330	868.84	8.75	8.87	842	0	22.0	24.1	511	52414	467	9.5	86	115	3.75	.96	.84	1.03	9.09	8.70	D
292	2020	885.77	55.5	1.79	1.79	98	25.2	2360	868.85	8.73	8.88	842	0	22.1	23.9	510	52445	468	9.5	87	115	3.75	.90	.78	1.03	9.09	8.70	D
293	2021	886.09	67.8	1.71	1.71	98	24.9	2350	868.85	8.73	8.88	841	0	22.1	23.9	508	52468	468	9.5	88	115	3.75	.84	.72	1.03	9.09	8.70	D
294	2021	886.41	67.7	1.79	1.79	98	24.0	2350	868.85	8.73	8.88	841	0	22.1	23.9	508	52491	468	9.5	62	115	3.76	.84	.72	1.03	9.09	8.70	D
295	2021	886.67	50.5	1.78	1.78	98	24.1	2380	868.85	8.73	8.88	842	0	22.1	23.9	507	52514	468	9.5	69	115	3.76	.91	.79	1.03	9.09	8.70	D
296	2022	887.03	46.7	1.68	1.68	98	23.0	2340	868.85	8.73	8.88	842	0	22.1	23.9	507	52558	469	9.5	120	115	3.76	.92	.80	1.03	9.10	8.70	D
297	2022	887.28	57.0	1.68	1.68	98	22.6	2370	868.85	8.73	8.88	842	0	22.1	23.9	506	52583	469	9.6	91	115	3.76	.86	.75	1.03	9.10	8.70	D
298	2022	887.61	72.2	1.62	1.62	99	21.8	2330	869.00	8.70	8.78	842	0	22.2	24.0	506	52609	469	9.6	77	115	3.76	.80	.68	1.03	9.10	8.70	D
299	2022	887.90	63.2	1.76	1.76	99	21.9	2330	869.23	8.70	8.78	843	0	22.2	24.0	504	52634	470	9.6	102	115	3.76	.84	.72	1.03	9.10	8.70	D
300	2023	888.20	58.2	1.60	1.60	101	20.6	2370	869.46	8.70	8.78	843	0	22.2	24.0	506	52662	470	9.6	78	115	3.76	.85	.73	1.03	9.10	8.70	D
301	2023	888.50	35.8	1.73	1.73	99	20.5	2360	869.92	8.70	8.78	843	0	22.2	24.0	506	52709	470	9.6	114	115	3.77	.96	.85	1.03	9.10	8.70	D
302	2023	888.81	67.7	1.71	1.71	98	24.6	2360	870.15	8.70	8.78	844	0	22.2	24.0	504	52732	471	9.6	97	115	3.77	.84	.72	1.04	9.10	8.70	D
303	2024	889.10	42.2	1.80	1.80	100	25.5	2340	870.46	8.70	8.78	844	0	22.2	24.0	503	52765	471	9.6	100	115	3.77	.98	.85	1.03	9.10	8.70	D
304	2024	889.43	58.8	1.86	1.86	98	27.5	2380	870.78	8.72	8.73	844	0	22.3	24.1	504	52796	471	9.6	95	115	3.77	.90	.78	1.04	9.10	8.70	D
305	2024	889.78	87.8	1.91	1.91	99	29.0	2360	870.96	8.72	8.73	843	0	22.3	24.1	504	52816	472	9.6	80	115	3.77	.81	.69	1.04	9.10	8.70	D
306	2024	890.13	72.5	1.78	1.78	100	28.0	2360	871.23	8.72	8.73	843	0	22.3	24.1	503	52843	472	9.6	61	115	3.78	.86	.73	1.04	9.09	8.70	D
307	2025	890.65	61.8	1.97	1.97	98	28.2	2360	871.78	8.72	8.73	842	0	22.3	24.1	503	52890	472	9.6	63	115	3.78	.90	.77	1.04	9.09	8.70	D
308	2025	890.93	42.7	1.91	1.91	98	27.9	2350	872.14	8.72	8.73	842	0	22.3	24.1	504	52925	473	9.6	103	115	3.78	.99	.87	1.04	9.09	8.70	D
309	2026	891.24	49.2	1.80	1.80	98	27.5	2350	872.41	8.72	8.73	842	0	22.3	24.1	501	52949	473	9.6	96	115	3.78	.95	.83	1.04	9.09	8.70	D
310	2026	891.62	79.0	1.91	1.91	98	27.6	2360	872.66	8.71	8.76	843	0	22.4	24.1	503	52975	473	9.6	72	115	3.79	.83	.70	1.04	9.09	8.70	D
311	2026	892.17	65.1	1.86	1.86	100	27.9	2360	873.14	8.71	8.76	844	0	22.4	24.1	502	53020	474	9.6	63	115	3.79	.89	.76	1.04	9.09	8.70	D
Run survey.																												
313	2102	893.39	62.8	1.63	1.63	95	18.6	2280	878.66	8.73	8.09	833	0	22.8	23.1	541	53119	475	9.6	94	114	3.79	.80	.69	1.04	9.02	8.70	D
314	2102	893.68	55.1	1.72	1.72	94	21.2	2260	878.85	8.73	8.09	833	0	22.8	23.1	538	53147	475	9.7	87	114	3.80	.86	.74	1.04	9.02	8.70	D
315	2103	894.03	101	1.69	1.69	95	21.3	2270	878.95	8.73	8.09	834	0	22.8	23.1	536	53166	476	9.7	91	114	3.80	.71	.59	1.04	9.02	8.70	D
316	2103	894.29	34.8	1.68	1.68	95	17.6	2270	879.19	8.73	8.09	833	0	22.8	23.1	532	53204	476	9.7	110	114	3.80	.93	.82	1.04	9.02	8.70	D
317	2103	894.62	72.1	1.70	1.70	96	19.8	2270	879.34	8.71	8.93	833	0	22.8	22.2	529	53230	476	9.7	92	114	3.80	.78	.67	1.04	9.02	8.70	D
318	2103	894.91	75.5	1.66	1.66	98	21.7	2270	879.61	8.71	8.93	833	0	22.8	22.2	526	53251	477	9.7	96	114	3.80	.79	.67	1.04	9.02	8.70	D
319	2104	895.21	54.9	1.77	1.77	98	20.0	2270	879.87	8.71	8.93	834	0	22.8	22.2	524	53277	477	9.7	70	114	3.80	.85	.74	1.04	9.02	8.70	D

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	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
20	2104	895.52	95.2	1.75	1.75	98	21.2	2270	880.05	8.71	8.93	834	0	22.8	22.2	523	53295	477	9.7	104	114	3.80	.73	.61	1.04	9.02	8.70	D
21	2104	895.81	39.7	1.73	1.73	98	20.8	2270	880.49	8.71	8.93	834	0	22.8	22.2	518	53337	478	9.7	120	114	3.81	.94	.83	1.04	9.02	8.70	D
22	2105	896.17	38.2	1.61	1.61	98	19.2	2230	881.12	8.71	8.93	835	0	22.8	22.2	514	53391	478	9.7	148	114	3.81	.93	.82	1.04	9.01	8.70	D
23	2105	896.46	46.2	1.61	1.61	96	19.0	2260	881.46	8.72	8.90	836	0	22.8	22.9	509	53426	478	9.7	102	114	3.81	.88	.77	1.04	9.01	8.70	D
24	2106	896.73	39.3	1.60	1.60	97	20.1	2270	881.86	8.72	8.90	835	0	22.8	22.9	506	53464	478	9.7	125	114	3.81	.94	.82	1.04	9.01	8.70	D
25	2106	897.08	50.2	1.51	1.51	97	17.6	2260	882.19	8.72	8.90	834	0	22.8	22.9	504	53498	479	9.7	108	114	3.82	.85	.74	1.04	9.01	8.70	D
26	2106	897.37	40.1	1.53	1.53	98	15.8	2280	882.59	8.72	8.90	834	0	22.8	22.9	499	53539	479	9.7	119	114	3.82	.88	.77	1.04	9.00	8.70	D
27	2107	897.66	59.3	1.64	1.64	98	17.5	2260	882.83	8.72	8.90	835	0	22.8	22.9	496	53565	479	9.7	80	114	3.82	.81	.70	1.04	9.00	8.70	D
28	2107	897.96	33.2	1.95	1.95	98	23.2	2260	883.31	8.69	8.87	835	0	22.9	23.5	494	53614	480	9.7	127	114	3.82	1.02	.90	1.04	9.00	8.70	D
29	2107	898.31	52.7	1.86	1.86	98	26.4	2250	883.70	8.69	8.87	835	0	22.9	23.5	491	53649	480	9.7	102	114	3.82	.93	.81	1.04	9.00	8.70	D
30	2108	898.86	43.2	1.62	1.62	99	22.9	2260	884.25	8.69	8.87	835	0	22.9	23.5	486	53713	481	9.7	109	114	3.83	.95	.83	1.04	9.00	8.70	D
31	2223	899.32	39.8	1.26	1.26	99	19.6	2300	903.91	8.74	8.77	833	0	23.8	25.8	470	53740	481	9.8	126	114	3.83	.97	.84	1.04	8.69	8.70	D†
32	2226	908.71	88.0	1.88	1.88	99	21.6	2270	903.91	8.65	8.69	836	0	23.8	25.5	449	53820	490	9.8	95	112	3.83	.78	.65	1.05	8.78	8.70	D
33	2227	909.22	52.9	1.81	1.81	98	24.4	2270	903.91	8.67	8.70	835	0	23.8	25.5	445	53874	491	9.8	90	112	3.84	.93	.81	1.05	8.79	8.70	D
34	2227	909.53	52.9	1.71	1.71	99	20.9	2250	903.91	8.67	8.70	835	0	23.8	25.5	444	53901	491	9.8	81	112	3.84	.90	.78	1.05	8.79	8.70	D
35	2227	909.88	50.3	1.62	1.62	99	18.4	2280	903.91	8.67	8.70	835	0	23.8	25.5	443	53940	492	9.8	98	112	3.84	.88	.76	1.05	8.79	8.70	D
36	2228	910.14	64.1	1.72	1.72	98	18.0	2270	903.91	8.67	8.70	834	0	23.8	25.5	441	53963	492	9.8	81	112	3.84	.82	.70	1.05	8.79	8.70	D
37	2228	910.49	50.0	1.77	1.77	98	21.7	2250	903.91	8.67	8.70	834	0	23.8	25.5	440	54002	492	9.8	138	112	3.85	.92	.80	1.05	8.79	8.70	D
38	2235	911.36	53.3	1.47	1.47	97	21.8	2240	903.91	8.64	8.75	827	0	23.9	25.5	454	54019	493	9.8	75	112	3.85	.91	.80	1.05	8.79	8.70	D†
39	2235	911.72	74.1	1.71	1.71	98	18.0	2240	903.91	8.64	8.75	828	0	23.9	25.5	452	54046	493	9.8	55	112	3.85	.78	.66	1.05	8.79	8.70	D
40	2235	911.98	51.4	1.83	1.97	98	23.5	2220	903.91	8.63	8.75	829	0	23.8	25.4	451	54074	494	9.8	75	112	3.85	.93	.80	1.05	8.80	8.70	D
41	2236	912.30	50.3	1.79	1.79	98	23.4	2250	903.91	8.63	8.75	829	0	23.8	25.4	447	54110	494	9.8	93	112	3.85	.94	.81	1.05	8.80	8.70	D
42	2236	912.59	62.7	1.72	1.72	98	21.3	2240	903.91	8.63	8.75	829	0	23.8	25.4	447	54136	494	9.8	78	112	3.85	.86	.73	1.05	8.80	8.70	D
43	2237	913.21	48.4	1.70	1.70	98	22.1	2240	903.91	8.63	8.75	830	0	23.8	25.4	444	54196	495	9.8	113	112	3.86	.93	.81	1.05	8.80	8.70	D
44	2237	913.50	72.9	1.78	1.78	98	19.5	2230	903.91	8.63	8.75	830	0	23.8	25.4	442	54217	495	9.8	65	112	3.86	.80	.68	1.05	8.81	8.70	D
45	2237	913.82	54.3	1.79	1.79	98	22.1	2240	903.91	8.61	8.76	830	0	23.9	25.3	440	54250	496	9.8	87	112	3.86	.90	.78	1.05	8.81	8.70	D
46	2238	914.12	62.5	1.81	1.81	98	22.8	2240	903.91	8.61	8.76	830	0	23.9	25.3	439	54276	496	9.8	72	112	3.86	.87	.75	1.05	8.81	8.70	D
47	2238	914.41	39.6	1.68	1.68	98	21.0	2240	903.91	8.61	8.76	830	0	23.9	25.3	437	54317	496	9.9	112	112	3.87	.97	.85	1.05	8.82	8.70	D
48	2238	914.79	89.1	1.72	1.72	98	20.3	2250	903.91	8.61	8.76	830	0	23.9	25.3	436	54338	497	9.9	109	112	3.87	.76	.63	1.05	8.82	8.70	D
49	2239	915.32	39.9	1.87	1.87	98	23.6	2250	903.91	8.63	8.76	830	0	23.9	25.2	434	54403	497	9.9	129	112	3.87	.99	.87	1.05	8.82	8.70	D
50	2239	915.67	60.4	1.81	1.81	97	22.6	2240	903.91	8.63	8.76	830	0	23.9	25.2	433	54436	497	9.9	97	112	3.87	.88	.75	1.05	8.83	8.70	D
51	2239	915.93	52.5	1.82	1.82	98	21.9	2230	903.91	8.63	8.76	830	0	23.9	25.2	433	54463	498	9.9	83	112	3.87	.91	.78	1.05	8.83	8.70	D
52	2240	916.31	71.8	1.81	1.81	98	23.6	2240	903.91	8.63	8.76	830	0	23.9	25.2	431	54494	498	9.9	73	112	3.87	.84	.71	1.05	8.83	8.70	D
53	2240	916.54	33.7	1.77	1.77	98	23.8	2250	903.91	8.63	8.76	830	0	23.9	25.2	431	54530	498	9.9	138	112	3.88	1.04	.91	1.05	8.84	8.70	D
54	2240	916.87	77.0	1.77	1.77	98	23.2	2260	903.91	8.63	8.76	829	0	23.9	25.2	430	54555	499	9.9	95	112	3.88	.82	.69	1.05	8.84	8.70	D
55	2241	917.16	48.8	1.74	1.74	97	22.3	2250	903.91	8.61	8.72	830	0	23.9	25.3	429	54587	499	9.9	94	112	3.88	.92	.80	1.05	8.84	8.70	D
56	2241	917.54	57.4	1.76	1.76	98	22.9	2240	903.91	8.61	8.72	830	0	23.9	25.3	429	54625	499	9.9	76	112	3.88	.89	.77	1.05	8.85	8.70	D
57	2241	917.77	65.5	1.74	1.74	98	25.5	2230	903.91	8.61	8.72	831	0	23.9	25.3	428	54644	500	9.9	98	112	3.88	.88	.75	1.05	8.85	8.70	D
58	2242	918.10	52.1	1.79	1.79	98	26.8	2250	903.91	8.61	8.72	831	0	23.9	25.3	429	54678	500	9.9	88	112	3.89	.95	.82	1.05	8.85	8.70	D
59	2242	918.37	43.1	1.70	1.70	98	25.3	2240	903.91	8.61	8.72	830	0	23.9	25.3	428	54714	500	9.9	109	112	3.89	.99	.86	1.05	8.86	8.70	D
60	2242	918.68	45.8	1.76	1.76	98	24.6	2220	903.91	8.63	8.71	831	0	24.0	25.4	428	54752	500	9.9	115	112	3.89	.97	.84	1.05	8.86	8.70	D
61	2243	918.97	62.9	1.73	1.73	98	24.0	2250	903.91	8.63	8.71	831	0	24.0	25.4	427	54777	501	9.9	117	112	3.89	.88	.75	1.05	8.86	8.70	D
62	2243	919.28	47.3	1.70	1.70	98	25.0	2250	903.91	8.63	8.71	831	0	24.0	25.4	426	54815	501	9.9	100	112	3.90	.96	.83	1.05	8.86	8.70	D
63	2243	919.62	82.8	1.68	1.68	98	24.7	2260	903.91	8.63	8.71	831	0	24.0	25.4	427	54838	501	9.9	79	112	3.90	.81	.68	1.05	8.87	8.70	D
64	2244	919.91	42.2	1.69	1.69	98	23.5	2250	903.91	8.63	8.71	831	0	24.0	25.4	427	54875	502	9.9	94	112	3.90	.97	.85	1.05	8.87	8.70	D
65	2306	920.21	62.4	1.09	1.09	98	21.5	2340	908.30	8.60	8.76	842	0	23.8	25.8	432	55741	502	10.1	88	113	3.95	.86	.73	1.05	8.84	8.70	D†
66	2307	920.51	57.3	1.37	1.37	98	22.4	2320	908.41	8.60	8.76	842	0	23.8	26.0	430	55766	502	10.1	116	113	3.95	.88	.76	1.05	8.85	8.70	D†
67	2307	920.86	52.7	1.48	1.48	95	15.9	2320	908.47	8.60	8.76	842	0	23.8	26.0	428	55801	503	10.1	120	113	3.96	.83	.71	1.05	8.85	8.70	D
68	2308	921.44	66.3	1.64	1.64	94	18.6	2320	908.54	8.60	8.76	841	0	23.8	26.0	427	55843	503	10.1	69	113	3.96	.80	.68	1.05	8.86	8.70	D
69	2308	921.74	41.1	1.67	1.67	93	21.9	2290	908.62	8.60	8.76	841	0	23.8	26.0	423	55881	503	10.1	92	113	3.96	.95	.83	1.05	8.86	8.70	D

AMOCO AUST. Tiliana No.1

329094

Data Printed at time 12:56 Date Oct 9 85
Data Recorded at time 23:08 Date Sep 10 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
370	2308	922.03	42.1	1.82	1.82	94	22.6	2310	908.65	8.60	8.77	841	0	23.8	26.0	423	55912	504	10.1	97	113	3.96	.95	.83	1.05	8.86	8.70	D
371	2309	922.38	72.4	1.78	1.78	94	23.9	2320	908.65	8.60	8.77	841	0	23.8	26.0	422	55937	504	10.1	92	113	3.96	.83	.70	1.05	8.87	8.70	D
372	2309	922.67	36.5	1.90	1.90	93	26.0	2330	908.65	8.60	8.77	841	0	23.8	26.0	421	55978	504	10.1	139	113	3.96	1.03	.90	1.05	8.87	8.70	D
373	2309	922.94	61.8	1.78	1.78	93	25.1	2330	908.65	8.60	8.77	841	0	23.8	26.0	418	55996	505	10.1	60	113	3.97	.88	.75	1.05	8.87	8.70	D
374	2310	923.29	70.0	1.63	1.63	94	22.4	2290	908.65	8.60	8.77	841	0	23.8	26.0	417	56025	505	10.1	114	113	3.97	.82	.70	1.05	8.88	8.70	D
375	2310	923.55	52.9	1.80	1.80	93	22.0	2280	908.65	8.60	8.77	841	0	23.8	26.0	418	56050	505	10.1	71	113	3.97	.89	.76	1.05	8.88	8.70	D
376	2310	923.87	44.4	1.65	1.65	94	23.2	2290	908.80	8.57	8.86	841	0	23.8	26.2	416	56090	506	10.2	115	113	3.97	.95	.82	1.05	8.88	8.70	D
377	2311	924.49	59.7	1.66	1.66	93	21.2	2320	908.99	8.57	8.86	840	0	23.8	26.2	414	56137	506	10.2	92	113	3.98	.85	.72	1.05	8.89	8.70	D
378	2311	924.81	40.5	1.66	1.66	93	21.1	2300	909.14	8.57	8.86	841	0	23.8	26.2	414	56178	507	10.2	115	113	3.98	.94	.82	1.05	8.89	8.70	D
379	2311	925.07	53.4	1.64	1.64	95	20.9	2320	909.27	8.57	8.86	842	0	23.8	26.2	414	56204	507	10.2	107	113	3.98	.87	.75	1.06	8.89	8.70	D
380	2312	925.38	55.8	1.70	1.70	93	21.7	2310	909.36	8.57	8.86	841	0	23.8	26.2	414	56234	507	10.2	82	113	3.98	.87	.74	1.05	8.89	8.70	D
381	2312	925.72	60.8	1.67	1.67	94	21.5	2320	909.49	8.59	8.83	841	0	23.7	26.4	413	56264	507	10.2	72	113	3.98	.85	.72	1.06	8.89	8.70	D
382	2312	926.01	43.1	1.75	1.93	93	22.0	2280	909.67	8.59	8.83	841	0	23.7	26.4	412	56298	508	10.2	98	113	3.98	.94	.81	1.06	8.90	8.70	D
383	2313	926.30	55.1	1.78	1.78	94	22.7	2290	909.77	8.59	8.83	841	0	23.7	26.4	412	56325	508	10.2	106	113	3.99	.88	.76	1.06	8.90	8.70	D
384	2313	926.59	52.5	1.81	1.81	94	23.7	2320	909.91	8.59	8.83	840	0	23.7	26.4	412	56356	508	10.2	94	113	3.99	.91	.78	1.06	8.90	8.70	D
385	2313	926.91	53.3	1.81	1.81	93	23.7	2300	910.05	8.59	8.83	840	0	23.7	26.4	411	56386	509	10.2	80	113	3.99	.90	.77	1.06	8.90	8.70	D
386	2314	927.21	94.7	1.71	1.71	93	22.5	2310	910.12	8.59	8.83	841	0	23.7	26.4	412	56403	509	10.2	114	113	3.99	.74	.61	1.06	8.90	8.70	D
387	2314	927.53	40.5	1.73	1.73	94	22.5	2300	910.29	8.59	8.79	841	0	23.7	26.5	410	56444	509	10.2	116	113	3.99	.96	.83	1.06	8.90	8.70	D
388	2314	927.82	33.7	1.65	1.65	94	22.7	2330	910.46	8.59	8.79	841	0	23.7	26.5	411	56483	510	10.2	118	113	3.99	1.01	.88	1.06	8.91	8.70	D
389	2315	928.12	52.7	1.66	1.66	95	21.7	2330	910.55	8.59	8.79	841	0	23.7	26.5	411	56508	510	10.2	92	113	4.00	.89	.76	1.06	8.91	8.70	D
390	2315	928.42	41.6	1.65	1.65	94	21.5	2310	910.72	8.59	8.79	841	0	23.7	26.5	411	56545	510	10.2	114	113	4.00	.94	.82	1.06	8.91	8.70	D
391	2315	928.73	75.7	1.76	1.76	93	24.2	2280	910.82	8.59	8.79	841	0	23.7	26.5	409	56567	511	10.2	89	113	4.00	.81	.68	1.06	8.91	8.70	D
392	2322	929.96	39.4	1.69	1.69	100	17.5	2340	912.20	8.59	8.84	841	0	23.8	26.9	429	56641	512	10.3	99	113	4.00	.92	.80	1.06	8.90	8.70	D
393	2323	930.26	50.6	1.70	1.70	101	20.6	2330	912.28	8.59	8.84	841	0	23.8	26.9	427	56676	512	10.3	104	113	4.01	.90	.77	1.06	8.91	8.70	D
394	2323	930.56	38.3	1.82	1.82	100	23.7	2310	912.38	8.59	8.84	841	0	23.8	26.9	425	56712	512	10.3	107	113	4.01	1.00	.87	1.06	8.91	8.70	D
395	2323	930.88	46.9	1.87	1.87	98	24.7	2320	912.44	8.59	8.84	841	0	23.8	26.9	424	56742	513	10.3	89	112	4.01	.96	.83	1.06	8.91	8.70	D
396	2324	931.17	47.9	1.94	1.94	99	25.0	2310	912.52	8.59	8.86	841	0	23.9	26.9	421	56777	513	10.3	95	112	4.01	.96	.82	1.06	8.91	8.70	D
397	2324	931.52	93.6	1.82	1.82	99	25.9	2330	912.52	8.59	8.86	841	0	23.9	26.9	421	56798	513	10.3	61	112	4.01	.79	.65	1.06	8.91	8.70	D
398	2324	931.81	40.0	1.85	1.85	98	25.5	2320	912.52	8.59	8.86	841	0	23.9	26.9	419	56838	514	10.3	102	112	4.02	1.01	.87	1.06	8.92	8.70	D
399	2325	932.11	53.3	1.81	1.81	99	25.6	2320	912.52	8.59	8.86	842	0	23.9	26.9	417	56869	514	10.3	128	112	4.02	.93	.80	1.06	8.92	8.70	D
400	2325	932.40	41.7	1.78	1.78	99	22.9	2320	912.52	8.59	8.86	842	0	23.9	26.9	416	56909	514	10.3	119	112	4.02	.97	.84	1.06	8.93	8.70	D
401	2325	932.69	35.1	1.83	1.83	100	21.6	2330	912.52	8.59	8.86	841	0	23.9	26.9	414	56944	514	10.3	96	112	4.02	1.00	.87	1.06	8.93	8.70	D
402	2326	933.02	96.4	1.67	1.67	100	20.9	2360	912.60	8.59	8.80	841	0	23.9	27.0	414	56964	515	10.3	30	112	4.03	.74	.61	1.06	8.93	8.70	D
403	2326	933.30	29.9	1.53	1.53	101	18.8	2320	912.99	8.59	8.80	841	0	23.9	27.0	411	57020	515	10.3	143	112	4.03	1.01	.88	1.06	8.93	8.70	D
404	2326	933.63	64.6	1.56	1.56	101	17.1	2330	913.22	8.59	8.80	841	0	23.9	27.0	410	57050	515	10.3	123	112	4.03	.80	.68	1.06	8.93	8.70	D
405	2327	933.92	33.7	1.47	1.47	100	18.1	2340	913.50	8.59	8.80	841	0	23.9	27.0	408	57092	516	10.3	108	112	4.03	.96	.84	1.06	8.93	8.70	D
406	2327	934.22	41.3	1.54	1.54	100	16.3	2340	913.72	8.59	8.80	842	0	23.9	27.0	407	57130	516	10.3	112	112	4.03	.89	.77	1.06	8.93	8.70	D
407	2328	934.54	50.2	1.74	1.74	100	20.6	2340	913.95	8.59	8.80	842	0	23.9	27.0	406	57165	516	10.3	93	112	4.04	.90	.77	1.06	8.93	8.70	D
408	2328	934.83	66.9	1.64	1.64	99	20.0	2320	914.18	8.60	8.83	842	0	23.8	27.1	405	57190	517	10.3	72	112	4.04	.82	.69	1.06	8.93	8.70	D
409	2328	935.15	32.1	1.67	1.67	100	18.5	2320	914.78	8.60	8.83	841	0	23.8	27.1	405	57246	517	10.4	149	112	4.04	.98	.86	1.06	8.93	8.70	D
410	2329	935.45	35.2	1.61	1.61	100	19.0	2360	915.21	8.60	8.83	841	0	23.8	27.1	405	57286	517	10.4	122	112	4.04	.97	.84	1.06	8.93	8.70	D
411	2329	935.80	76.8	1.55	1.55	100	16.6	2360	915.47	8.60	8.83	841	0	23.8	27.1	404	57313	517	10.4	66	112	4.04	.75	.63	1.06	8.93	8.70	D
412	2330	936.06	33.7	1.69	1.69	100	20.5	2330	915.89	8.60	8.86	841	0	23.8	27.3	405	57355	518	10.4	126	112	4.05	.99	.87	1.06	8.92	8.70	D
413	2330	936.35	60.2	1.58	1.58	100	20.3	2360	916.14	8.60	8.86	840	0	23.8	27.3	404	57378	518	10.4	97	112	4.05	.85	.72	1.06	8.92	8.70	D
414	2330	936.66	37.2	1.78	1.78	101	17.7	2310	916.63	8.60	8.86	841	0	23.8	27.3	403	57425	518	10.4	127	112	4.05	.94	.82	1.06	8.92	8.70	D
415	2331	936.97	34.7	1.44	1.44	101	15.8	2300	917.12	8.60	8.86	842	0	23.8	27.3	402	57477	519	10.4	139	112	4.05	.93	.81	1.06	8.92	8.70	D
416	2331	937.26	47.4	1.60	1.60	101	17.7	2320	917.43	8.63	8.86	842	0	23.6	27.5	403	57510	519	10.4	91	112	4.06	.88	.76	1.06	8.92	8.70	D
417	2332	937.58	36.5	1.51	1.51	100	17.2	2280	917.78	8.63	8.86	842	0	23.6	27.5	404	57554	519	10.4	125	112	4.06	.94	.81	1.06	8.91	8.70	D
418	2339	939.09	31.1	1.62	1.62	99	18.4	2280	921.36	8.61	8.87	828	0	23.9	27.5	419	57628	521	10.4	112	112	4.06	.99	.87	1.06	8.88	8.70	D
419	2339	939.41	75.2	1.49	1.49	98	19.3	2290	921.49	8.61	8.87	828	0	23.9	27.5	419	57653	521	10.4	103	112	4.06	.78	.66	1.06	8.88	8.70	D

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TE IN (C)	TE OUT (C)	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXC	ECD	EST FM PR	
20	2339	939.76	39.0	1.39	1.39	98	16.6	2290	921.61	8.63	8.80	828	0	23.9	27.4	417	57697	521	10.4	124	112	4.06	.91	.79	1.06	8.88	8.70	D
21	2340	940.05	44.1	1.59	1.59	98	18.7	2290	921.61	8.63	8.80	828	0	23.9	27.4	414	57735	522	10.4	148	112	4.07	.91	.78	1.06	8.88	8.70	D
22	2340	940.32	37.7	1.49	1.49	98	18.4	2310	921.61	8.63	8.80	827	0	23.9	27.4	413	57774	522	10.4	119	112	4.07	.94	.82	1.06	8.88	8.70	D
23	2341	940.64	40.0	1.59	1.59	98	18.1	2300	921.61	8.63	8.80	828	0	23.9	27.4	412	57819	522	10.5	146	112	4.07	.92	.80	1.06	8.88	8.70	D
24	2341	940.93	48.3	1.43	1.43	98	18.4	2310	921.62	8.62	8.86	828	0	23.9	27.6	410	57854	523	10.5	131	112	4.08	.88	.76	1.06	8.89	8.70	D
25	2341	941.23	36.1	1.65	1.65	98	18.3	2310	921.85	8.62	8.86	828	0	23.9	27.6	408	57899	523	10.5	130	112	4.08	.95	.83	1.06	8.89	8.70	D
26	2342	941.55	37.2	1.46	1.46	98	17.5	2290	922.13	8.62	8.86	827	0	23.9	27.6	405	57950	523	10.5	154	112	4.08	.93	.81	1.06	8.89	8.70	D
27	2342	941.84	39.5	1.62	1.62	96	19.4	2290	922.37	8.62	8.86	827	0	23.9	27.6	404	57989	524	10.5	116	112	4.08	.94	.81	1.06	8.89	8.70	D
28	2343	942.15	42.5	1.57	1.57	98	21.5	2310	922.55	8.62	8.86	827	0	23.9	27.6	404	58023	524	10.5	113	112	4.08	.95	.82	1.06	8.89	8.70	D
29	2343	942.46	37.9	1.58	1.58	98	18.8	2290	922.83	8.62	8.88	827	0	24.0	27.6	402	58064	524	10.5	122	112	4.09	.94	.82	1.06	8.89	8.70	D
30	2344	943.07	38.1	1.62	1.62	97	19.8	2290	923.61	8.62	8.88	828	0	24.0	27.6	399	58140	525	10.5	138	112	4.09	.95	.83	1.06	8.89	8.70	D
31	2344	943.39	46.7	1.58	1.58	98	20.6	2300	924.01	8.62	8.88	828	0	24.0	27.6	399	58179	525	10.5	106	112	4.09	.91	.79	1.07	8.88	8.70	D
32	2345	943.67	33.4	1.58	1.58	98	18.2	2300	924.40	8.62	8.88	828	0	24.0	27.6	397	58225	525	10.5	143	112	4.09	.97	.84	1.06	8.88	8.70	D
33	2345	944.06	63.9	1.57	1.57	98	16.7	2290	924.79	8.59	8.91	828	0	24.0	27.7	396	58261	526	10.5	95	112	4.10	.79	.67	1.07	8.88	8.70	D
34	2346	944.58	45.8	1.54	1.54	98	20.6	2310	925.36	8.59	8.91	828	0	24.0	27.7	395	58323	526	10.5	90	112	4.10	.92	.79	1.07	8.88	8.70	D
35	2346	944.89	36.7	1.74	1.74	98	18.6	2290	925.84	8.59	8.91	828	0	24.0	27.7	396	58370	527	10.5	128	112	4.10	.95	.83	1.07	8.88	8.70	D
36	2347	945.19	41.9	1.58	1.58	98	19.5	2300	926.25	8.59	8.91	828	0	24.0	27.7	394	58412	527	10.6	118	112	4.11	.93	.80	1.07	8.88	8.70	D
37	2347	945.50	29.1	1.57	1.57	98	19.2	2300	926.87	8.59	8.91	829	0	24.1	27.8	395	58472	527	10.6	171	112	4.11	1.02	.89	1.07	8.87	8.70	D
38	2348	945.80	29.0	1.55	1.55	98	18.3	2280	927.25	8.59	8.91	829	0	24.1	27.8	393	58517	528	10.6	108	112	4.11	1.01	.88	1.07	8.87	8.70	D
39	2348	946.11	63.2	1.71	1.71	98	19.9	2290	927.48	8.59	8.91	829	0	24.1	27.8	394	58541	528	10.6	138	112	4.11	.83	.70	1.07	8.87	8.70	D
40	2348	946.44	35.1	1.63	1.63	97	19.8	2300	927.87	8.59	8.91	829	0	24.2	27.8	393	58585	528	10.6	122	112	4.12	.98	.85	1.07	8.87	8.70	D
41	2349	946.73	60.2	1.62	1.62	98	17.8	2290	928.11	8.59	8.91	829	0	24.2	27.8	392	58608	529	10.6	65	112	4.12	.82	.70	1.07	8.87	8.70	D
42	2355	947.06	29.5	1.09	1.09	97	19.6	2270	930.56	8.59	8.94	764	0	24.2	27.9	420	58639	529	10.6	123	112	4.12	1.02	.89	1.07	8.84	8.70	DX
43	2355	947.65	58.5	1.51	1.51	101	15.4	2280	930.76	8.61	8.93	809	0	24.6	27.9	419	58670	529	10.6	166	112	4.12	.81	.69	1.07	8.84	8.70	D
44	2356	947.97	47.9	1.64	1.64	98	19.7	2260	930.76	8.61	8.93	816	0	24.6	27.9	417	58706	530	10.6	99	112	4.12	.90	.77	1.07	8.85	8.70	D
45	2356	948.23	56.4	1.72	1.72	99	20.4	2260	930.76	8.61	8.93	819	0	24.6	27.9	417	58732	530	10.6	119	112	4.12	.87	.74	1.07	8.85	8.70	D
46	2356	948.56	95.8	1.61	1.61	98	20.4	2260	930.76	8.61	8.93	819	0	24.6	27.9	416	58750	530	10.6	72	112	4.12	.74	.61	1.07	8.85	8.70	D
47	2356	948.88	40.9	1.72	1.72	100	18.0	2240	930.76	8.61	8.93	820	0	24.6	27.9	414	58793	531	10.6	108	112	4.13	.92	.80	1.07	8.86	8.70	D
48	2357	949.17	38.3	1.63	1.63	99	16.9	2270	930.81	8.61	8.83	820	0	24.6	27.8	412	58829	531	10.6	115	112	4.13	.92	.80	1.07	8.86	8.70	D
49	2357	949.46	31.7	1.57	1.57	99	19.3	2260	931.14	8.61	8.83	820	0	24.6	27.8	410	58882	531	10.6	148	112	4.13	1.00	.87	1.07	8.86	8.70	D
50	2358	949.77	39.4	1.76	1.76	98	21.6	2250	931.37	8.61	8.83	821	0	24.6	27.8	408	58926	532	10.6	125	112	4.13	.97	.84	1.07	8.86	8.70	D
51	2358	950.08	31.8	1.80	1.80	98	20.1	2240	931.70	8.61	8.83	821	0	24.6	27.8	405	58982	532	10.7	157	112	4.14	1.01	.88	1.07	8.86	8.70	D
52	2359	950.40	43.4	1.65	1.65	99	20.3	2250	932.04	8.65	8.81	821	0	24.6	27.7	405	59025	532	10.7	113	112	4.14	.93	.80	1.07	8.86	8.70	D
53	2359	950.69	43.1	1.52	1.52	99	18.0	2180	932.43	8.65	8.81	821	0	24.6	27.7	402	59061	532	10.7	107	112	4.14	.91	.78	1.07	8.86	8.70	D
	Date Sep 11 '85																											
54	0000	951.01	41.3	1.58	1.58	98	16.5	2270	932.82	8.65	8.81	822	0	24.6	27.7	401	59106	533	10.7	150	112	4.14	.90	.78	1.07	8.86	8.70	D
55	0000	951.29	37.1	1.67	1.67	98	20.4	2250	933.21	8.65	8.81	821	0	24.6	27.7	400	59145	533	10.7	111	112	4.15	.97	.84	1.07	8.86	8.70	D
56	0000	951.63	56.2	1.58	1.58	98	20.1	2260	933.52	8.65	8.81	821	0	24.6	27.7	399	59179	533	10.7	165	112	4.15	.87	.74	1.07	8.86	8.70	D
57	0001	951.89	30.8	1.49	1.49	99	17.4	2260	933.92	8.63	8.83	821	0	24.6	27.7	398	59227	534	10.7	136	112	4.15	.98	.86	1.07	8.85	8.70	D
58	0001	952.22	67.7	1.64	1.64	98	15.6	2270	934.12	8.63	8.83	821	0	24.6	27.7	398	59250	534	10.7	95	112	4.15	.77	.65	1.07	8.85	8.70	D
59	0002	952.51	27.4	1.75	1.75	99	19.4	2260	934.58	8.63	8.83	821	0	24.6	27.7	396	59310	534	10.7	166	112	4.15	1.04	.91	1.07	8.85	8.70	D
60	0002	952.81	31.9	1.66	1.66	98	22.1	2260	934.97	8.63	8.83	821	0	24.6	27.7	393	59360	535	10.7	124	112	4.16	1.03	.90	1.07	8.85	8.70	D
61	0002	953.15	72.4	1.78	1.78	98	21.0	2260	935.17	8.62	8.89	821	0	24.6	28.0	393	59386	535	10.7	77	112	4.16	.81	.68	1.07	8.85	8.70	D
62	0003	953.44	24.6	1.73	1.73	98	22.1	2260	935.67	8.62	8.89	821	0	24.6	28.0	391	59452	535	10.7	153	112	4.16	1.10	.97	1.07	8.85	8.70	D
63	0004	953.74	31.2	1.72	1.72	99	20.5	2250	936.05	8.62	8.89	821	0	24.6	28.0	390	59496	535	10.7	134	112	4.17	1.02	.89	1.07	8.85	8.70	D
64	0004	954.03	59.5	1.83	1.83	98	22.3	2250	936.24	8.62	8.89	821	0	24.6	28.0	388	59523	536	10.7	70	112	4.17	.87	.74	1.07	8.85	8.70	D
65	0004	954.35	31.2	1.59	1.59	99	20.2	2260	936.68	8.64	8.84	821	0	24.7	28.1	387	59583	536	10.8	142	112	4.17	1.02	.89	1.07	8.85	8.70	D
66	0005	954.65	35.1	1.62	1.62	98	21.1	2270	937.10	8.64	8.84	820	0	24.7	28.1	387	59627	536	10.8	127	112	4.18	1.00	.86	1.07	8.85	8.70	D
67	0005	954.96	68.0	1.67	1.67	98	21.9	2270	937.31	8.64	8.84	821	0	24.7	28.1	385	59653	537	10.8	127	112	4.18	.84	.70	1.07	8.85	8.70	D
68	0006	955.25	32.9	1.74	1.74	98	20.7	2270	937.73	8.64	8.84	821	0	24.7	28.1	385	59704	537	10.8	130	112	4.18	1.01	.88	1.07	8.85	8.70	D

EXLOG

AMOCO AUST. Tilana No.1

329096

Data Printed at time 13:17 Date Oct 9 '85
Data Recorded at time 00:06 Date Sep 11 '85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
59	0006	955.55	55.3	1.68	1.68	98	20.7	2250	938.01	8.64	8.84	820	0	24.7	28.1	385	59735	537	10.8	137	112	4.18	.88	.75	1.07	8.85	8.70	D
70	0006	955.87	70.3	1.88	1.88	98	23.0	2270	938.22	8.64	8.84	820	0	24.7	28.1	382	59760	538	10.8	86	112	4.18	.84	.70	1.07	8.85	8.70	D
71	0007	956.17	41.3	1.78	1.99	98	22.9	2260	938.47	8.69	8.87	820	0	24.7	28.2	382	59797	538	10.8	107	112	4.18	.98	.84	1.07	8.85	8.70	D
72	0013	957.12	59.3	1.38	1.38	101	13.5	2390	939.75	8.69	8.93	821	0	24.8	28.0	412	59844	539	10.8	161	112	4.19	.78	.66	1.07	8.85	8.70	D†
73	0013	957.38	35.1	1.67	1.67	99	21.0	2390	939.81	8.78	8.85	831	0	25.1	28.1	409	59884	539	10.8	133	112	4.19	1.00	.87	1.07	8.85	8.70	D
74	0014	957.73	46.4	1.62	1.62	98	20.3	2390	940.01	8.78	8.85	834	0	25.1	28.1	410	59926	539	10.8	163	112	4.19	.92	.79	1.07	8.85	8.70	D
75	0014	957.99	29.1	1.75	1.75	99	19.8	2380	940.25	8.78	8.85	835	0	25.1	28.1	408	59977	540	10.8	169	112	4.19	1.03	.90	1.07	8.86	8.70	D
76	0015	958.30	46.9	1.76	1.76	99	23.1	2380	940.41	8.78	8.85	835	0	25.1	28.1	405	60015	540	10.8	101	112	4.20	.95	.81	1.07	8.86	8.70	D
77	0015	958.67	60.4	1.64	1.64	99	20.3	2380	940.62	8.78	8.85	837	0	25.1	28.1	406	60049	540	10.8	95	112	4.20	.85	.72	1.07	8.86	8.70	D
78	0015	958.90	39.1	1.76	1.76	100	18.1	2390	940.74	8.78	8.85	837	0	25.1	28.1	403	60081	541	10.8	118	112	4.20	.94	.81	1.07	8.86	8.70	D
79	0016	959.22	35.0	1.61	1.61	100	19.5	2390	941.12	8.79	8.83	836	0	25.1	28.1	402	60135	541	10.8	153	112	4.20	.98	.85	1.07	8.86	8.70	D
80	0016	959.52	56.5	1.60	1.60	100	18.3	2400	941.30	8.79	8.83	835	0	25.1	28.1	401	60160	541	10.9	140	112	4.20	.85	.72	1.07	8.86	8.70	D
81	0017	959.82	45.8	1.66	1.66	99	21.3	2390	941.61	8.79	8.83	835	0	25.1	28.1	401	60200	542	10.9	130	112	4.21	.93	.80	1.07	8.86	8.70	D
82	0017	960.19	55.3	1.58	1.58	98	19.6	2380	941.85	8.79	8.83	835	0	25.1	28.1	398	60238	542	10.9	106	112	4.21	.86	.73	1.07	8.86	8.70	D
83	0017	960.45	38.8	1.69	1.69	99	21.3	2400	942.15	8.79	8.83	835	0	25.1	28.1	398	60276	542	10.9	128	112	4.21	.97	.84	1.07	8.86	8.70	D
84	0018	960.75	40.6	1.57	1.57	99	21.5	2380	942.45	8.75	8.78	836	0	25.0	28.1	396	60317	543	10.9	148	112	4.22	.97	.83	1.07	8.86	8.70	D
85	0018	961.04	39.5	1.69	1.69	100	19.1	2390	942.75	8.75	8.78	836	0	25.0	28.1	396	60357	543	10.9	100	112	4.22	.95	.82	1.07	8.86	8.70	D
86	0019	961.34	41.3	1.71	1.71	98	23.7	2390	943.06	8.75	8.78	836	0	25.0	28.1	395	60397	543	10.9	129	112	4.22	.98	.85	1.07	8.86	8.70	D
87	0019	961.65	53.8	1.62	1.62	100	21.6	2390	943.30	8.75	8.78	835	0	25.0	28.1	394	60430	543	10.9	102	112	4.22	.90	.76	1.07	8.86	8.70	D
88	0020	961.96	28.1	1.55	1.55	99	19.6	2400	943.72	8.75	8.75	834	0	25.0	28.3	393	60488	544	10.9	153	112	4.22	1.03	.90	1.07	8.86	8.70	D
89	0020	962.27	51.9	1.72	1.72	101	20.0	2410	943.97	8.75	8.75	834	0	25.0	28.3	392	60523	544	10.9	114	112	4.23	.89	.76	1.07	8.86	8.70	D
90	0020	962.88	67.7	1.57	1.57	100	18.7	2410	944.29	8.75	8.75	835	0	25.0	28.3	390	60569	545	10.9	69	112	4.23	.81	.68	1.07	8.86	8.70	D
91	0021	963.18	27.1	1.88	1.88	99	22.7	2410	944.73	8.75	8.75	836	0	25.0	28.3	389	60627	545	10.9	157	112	4.23	1.08	.95	1.07	8.86	8.70	D
92	0021	963.56	95.9	1.64	1.64	98	21.1	2420	944.92	8.75	8.75	835	0	25.0	28.3	388	60650	545	10.9	29	112	4.23	.74	.61	1.07	8.86	8.70	D
93	0022	963.78	25.8	1.70	1.70	98	20.4	2420	945.32	8.75	8.78	834	0	24.9	28.6	387	60696	546	10.9	121	112	4.24	1.06	.93	1.07	8.87	8.70	D
94	0022	964.08	36.4	1.74	1.74	99	21.2	2430	945.74	8.75	8.78	833	0	24.9	28.6	385	60743	546	10.9	134	112	4.24	.99	.86	1.07	8.87	8.70	D
95	0023	964.41	40.5	1.59	1.59	99	21.9	2440	946.08	8.75	8.78	833	0	24.9	28.6	386	60786	546	11.0	149	112	4.24	.97	.83	1.07	8.86	8.70	D
96	0023	964.73	27.1	1.59	1.59	99	21.2	2400	946.64	8.75	8.78	834	0	24.9	28.6	384	60851	547	11.0	170	112	4.24	1.06	.93	1.07	8.86	8.70	D
97	0024	965.02	43.1	1.55	1.55	98	22.6	2390	946.89	8.81	8.82	831	0	25.1	28.7	383	60887	547	11.0	104	112	4.25	.96	.82	1.07	8.86	8.70	D
98	0024	965.31	25.7	1.38	1.38	96	18.0	2390	947.29	8.81	8.82	828	0	25.1	28.7	382	60948	547	11.0	216	112	4.25	1.03	.90	1.07	8.86	8.70	D†
99	0031	966.26	79.0	1.42	1.42	108	14.1	2280	948.90	8.81	8.77	798	0	25.3	29.0	383	60996	548	11.0	167	112	4.25	.74	.61	1.08	8.85	8.70	D†
00	0032	966.58	43.2	1.54	1.54	104	21.5	2270	949.10	8.81	8.77	803	0	25.3	29.0	377	61040	548	11.0	112	112	4.26	.96	.83	1.08	8.85	8.70	D
01	0032	966.85	64.6	1.55	1.55	104	21.0	2270	949.22	8.81	8.77	804	0	25.3	29.0	373	61064	549	11.0	85	112	4.26	.85	.72	1.08	8.86	8.70	D
02	0032	967.14	39.5	1.57	1.57	104	23.9	2270	949.41	8.81	8.77	804	0	25.3	29.0	365	61107	549	11.0	107	112	4.26	1.01	.87	1.08	8.86	8.70	D
03	0033	967.45	42.6	1.60	1.60	104	21.6	2280	949.57	8.81	8.77	804	0	25.3	29.0	360	61144	549	11.0	98	112	4.26	.97	.83	1.08	8.86	8.70	D
04	0033	967.76	40.9	1.69	1.69	105	22.1	2250	949.76	8.81	8.77	804	0	25.3	29.0	352	61189	550	11.0	110	112	4.27	.98	.85	1.08	8.86	8.70	D
05	0033	968.05	28.4	1.61	1.61	104	21.9	2260	949.96	8.81	8.77	804	0	25.3	29.0	351	61234	550	11.0	146	112	4.27	1.07	.94	1.08	8.86	8.70	D
06	0034	968.40	45.8	1.72	1.72	104	23.1	2270	950.26	8.82	8.72	804	0	25.2	28.8	350	61274	550	11.0	130	112	4.27	.97	.83	1.08	8.87	8.70	D
07	0034	968.66	41.1	1.66	1.66	104	23.4	2250	950.51	8.82	8.72	804	0	25.2	28.8	352	61312	550	11.0	103	112	4.27	1.00	.86	1.08	8.87	8.70	D
08	0035	968.99	34.0	1.70	1.70	104	22.0	2280	950.88	8.82	8.72	804	0	25.2	28.8	354	61366	551	11.1	139	112	4.28	1.03	.89	1.08	8.86	8.70	D
09	0035	969.31	64.8	1.70	1.70	103	24.5	2280	951.07	8.82	8.72	804	0	25.2	28.8	354	61389	551	11.1	75	112	4.28	.89	.74	1.08	8.86	8.70	D
10	0035	969.60	47.1	1.57	1.57	104	22.3	2260	951.32	8.82	8.72	804	0	25.2	28.8	355	61425	551	11.1	97	112	4.28	.95	.81	1.08	8.87	8.70	D
11	0035	969.89	86.2	1.59	1.59	103	20.4	2260	951.45	8.82	8.72	805	0	25.2	28.8	355	61444	552	11.1	64	112	4.28	.77	.64	1.08	8.87	8.70	D
12	0036	970.18	33.7	1.75	1.75	103	24.3	2260	951.82	8.82	8.72	805	0	25.2	28.8	356	61492	552	11.1	116	112	4.29	1.06	.92	1.08	8.87	8.70	D
13	0036	970.50	79.5	1.56	1.56	106	23.5	2280	952.01	8.87	8.78	806	0	25.1	28.8	356	61514	552	11.1	84	112	4.29	.83	.69	1.08	8.87	8.70	D
14	0037	970.83	30.4	1.54	1.54	105	20.7	2280	952.40	8.87	8.78	806	0	25.1	28.8	356	61581	553	11.1	110	112	4.29	1.04	.91	1.08	8.87	8.70	D
15	0037	971.12	46.5	1.72	1.72	103	21.9	2270	952.69	8.87	8.78	807	0	25.1	28.8	357	61618	553	11.1	113	112	4.29	.94	.81	1.08	8.87	8.70	D
16	0037	971.41	59.2	1.62	1.62	101	23.5	2280	952.86	8.87	8.78	807	0	25.1	28.8	357	61647	553	11.1	132	112	4.30	.89	.75	1.08	8.87	8.70	D
17	0038	971.77	46.3	1.67	1.67	102	22.5	2240	953.14	8.87	8.78	806	0	25.1	28.8	357	61692	553	11.1	101	112	4.30	.95	.81	1.08	8.87	8.70	D
18	0038	972.06	35.1	1.61	1.61	104	21.9	2290	953.49	8.92	8.75	806	0	25.3	29.1	358	61739	554	11.1	135	112	4.30	1.02	.88	1.08	8.87	8.70	D

OCO AUST. Tilana No.1 329097 Data Printed at time 13:21 Date Oct 9 '85
Data Recorded at time 00:39 Date Sep 11 '85

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#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
9	0039	972.35	29.1	1.64	1.64	105	22.1	2300	953.89	8.92	8.75	805	0	25.3	29.1	359	61800	554	11.1	156	112	4.31	1.07	.93	1.08	8.87	8.70	D
0	0039	972.63	64.7	1.69	1.69	104	22.4	2300	954.00	8.92	8.75	805	0	25.3	29.1	359	61824	554	11.1	79	112	4.31	.87	.73	1.08	8.87	8.70	D
1	0040	972.94	25.0	1.64	1.64	103	20.5	2300	954.52	8.92	8.75	804	0	25.3	29.1	359	61896	555	11.1	187	112	4.31	1.08	.95	1.08	8.87	8.70	D
2	0040	973.26	37.8	1.74	1.74	103	23.3	2290	954.87	8.92	8.75	804	0	25.3	29.1	359	61948	555	11.1	156	112	4.31	1.01	.87	1.08	8.87	8.70	D
3	0041	973.54	43.6	1.66	1.66	105	21.5	2300	955.09	8.92	8.82	803	0	25.4	29.2	360	61986	555	11.2	104	112	4.32	.96	.82	1.08	8.87	8.70	D
4	0041	973.84	50.8	1.77	1.77	105	20.3	2310	955.31	8.92	8.82	803	0	25.4	29.2	358	62023	556	11.2	90	112	4.32	.91	.77	1.08	8.87	8.70	D
5	0041	974.17	43.9	1.73	1.73	105	23.4	2310	955.59	8.92	8.82	803	0	25.4	29.2	359	62065	556	11.2	107	112	4.32	.98	.84	1.08	8.88	8.70	D
6	0042	974.49	41.3	1.69	1.69	103	21.7	2290	955.92	8.92	8.82	803	0	25.4	29.2	360	62112	556	11.2	141	112	4.32	.97	.83	1.08	8.88	8.70	D
7	0048	974.97	64.1	1.21	1.21	101	21.4	2450	957.71	9.00	8.85	792	0	25.1	29.4	435	62130	557	11.2	92	112	4.32	.85	.72	1.08	8.86	8.70	D↑
8	0048	975.36	264	1.32	1.32	101	11.7	2470	957.82	9.00	8.85	808	0	25.1	29.4	437	62145	557	11.2	93	112	4.32	.43	.31	1.08	8.87	8.70	D↑
9	0048	975.67	45.3	1.60	1.60	97	18.2	2440	957.96	9.00	8.85	818	0	25.1	29.4	439	62183	557	11.2	105	112	4.33	.89	.76	1.08	8.87	8.70	D
0	0049	976.02	52.5	1.72	1.72	95	24.3	2470	958.15	9.00	8.85	821	0	25.1	29.4	443	62221	558	11.2	113	112	4.33	.92	.78	1.08	8.88	8.70	D
1	0049	976.28	32.3	1.64	1.64	97	22.4	2470	958.30	9.07	9.01	821	0	25.2	29.3	445	62264	558	11.2	127	112	4.33	1.03	.89	1.08	8.88	8.70	D
2	0050	976.58	33.9	1.63	1.63	97	22.5	2490	958.51	9.07	9.01	821	0	25.2	29.3	448	62315	558	11.2	152	112	4.34	1.02	.88	1.08	8.89	8.70	D
3	0050	976.89	57.3	1.72	1.72	96	22.0	2460	958.60	9.07	9.01	821	0	25.2	29.3	450	62340	559	11.2	75	112	4.34	.87	.74	1.08	8.89	8.70	D
4	0050	977.19	35.5	1.59	1.59	96	23.0	2510	958.77	9.07	9.01	820	0	25.2	29.3	453	62387	559	11.2	140	112	4.34	1.01	.87	1.08	8.89	8.70	D
5	0051	977.52	35.1	1.67	1.67	95	22.4	2500	958.98	9.11	8.90	819	0	24.9	29.3	456	62430	559	11.2	116	112	4.34	1.00	.86	1.08	8.89	8.70	D
6	0051	977.81	56.6	1.65	1.65	96	23.7	2530	959.20	9.11	8.90	819	0	24.9	29.3	456	62459	560	11.2	99	112	4.34	.89	.75	1.08	8.90	8.70	D
7	0052	978.11	32.4	1.50	1.50	96	21.3	2520	959.54	9.11	8.90	819	0	24.9	29.3	458	62511	560	11.2	129	112	4.35	1.01	.87	1.08	8.90	8.70	D
8	0052	978.42	32.5	1.61	1.61	96	21.3	2530	959.82	9.11	8.90	818	0	24.9	29.3	461	62552	560	11.2	139	112	4.35	1.01	.87	1.08	8.90	8.70	D
9	0052	978.72	45.2	1.52	1.52	96	21.2	2550	960.04	9.11	8.90	819	0	24.9	29.3	463	62586	561	11.3	106	112	4.35	.92	.79	1.08	8.90	8.70	D
0	0053	979.04	39.8	1.63	1.63	97	23.9	2530	960.43	9.20	8.84	818	0	24.6	29.4	464	62631	561	11.3	118	112	4.35	.99	.85	1.08	8.91	8.70	D
1	0054	979.33	24.3	1.61	1.61	96	22.1	2530	960.95	9.20	8.84	817	0	24.6	29.4	467	62694	561	11.3	188	112	4.36	1.09	.95	1.08	8.91	8.70	D
2	0054	979.64	41.5	1.52	1.52	95	20.9	2550	961.28	9.20	8.84	816	0	24.6	29.4	469	62732	561	11.3	110	112	4.36	.94	.80	1.08	8.91	8.70	D
3	0054	979.98	55.9	1.58	1.58	95	19.3	2550	961.55	9.20	8.84	816	0	24.6	29.4	469	62766	562	11.3	135	112	4.36	.85	.71	1.08	8.91	8.70	D
4	0055	980.27	37.9	1.47	1.47	96	20.1	2540	961.87	9.23	8.88	816	0	24.4	29.3	468	62806	562	11.3	122	112	4.36	.95	.82	1.08	8.91	8.70	D
5	0055	980.56	36.3	1.51	1.51	97	22.1	2560	962.18	9.23	8.88	815	0	24.4	29.3	466	62851	562	11.3	149	112	4.37	.99	.85	1.08	8.91	8.70	D
6	0056	980.85	29.5	1.45	1.45	96	20.2	2560	962.50	9.23	8.88	815	0	24.4	29.3	465	62891	563	11.3	139	112	4.37	1.02	.88	1.08	8.91	8.70	D
7	0056	981.18	36.4	1.68	1.68	96	21.0	2560	962.88	9.23	8.88	815	0	24.4	29.3	461	62938	563	11.3	123	112	4.37	.97	.84	1.08	8.91	8.70	D
8	0056	981.47	43.1	1.56	1.56	97	21.8	2560	963.19	9.23	8.88	815	0	24.4	29.3	460	62973	563	11.3	108	112	4.37	.94	.80	1.08	8.91	8.70	D
9	0057	981.76	38.9	1.61	1.61	97	21.9	2560	963.54	9.27	8.92	814	0	24.2	29.5	459	63015	564	11.3	161	112	4.38	.97	.83	1.08	8.92	8.70	D
0	0057	982.08	39.1	1.55	1.55	96	21.3	2570	963.88	9.27	8.92	814	0	24.2	29.5	455	63058	564	11.3	120	112	4.38	.96	.82	1.08	8.92	8.70	D
1	0058	982.38	48.3	1.64	1.64	96	19.3	2570	964.16	9.27	8.92	813	0	24.2	29.5	453	63092	564	11.3	101	112	4.38	.88	.75	1.08	8.92	8.70	D
2	0058	982.68	37.4	1.47	1.47	97	20.8	2580	964.57	9.27	8.92	814	0	24.2	29.5	452	63137	564	11.4	152	112	4.38	.97	.83	1.08	8.92	8.70	D
3	0059	982.99	41.1	1.55	1.55	97	18.6	2580	964.92	9.27	8.92	814	0	24.2	29.5	450	63179	565	11.4	117	112	4.38	.92	.78	1.08	8.92	8.70	D
4	0059	983.28	37.5	1.40	1.40	97	19.6	2580	965.25	9.27	8.96	814	0	24.1	29.7	449	63224	565	11.4	131	112	4.39	.95	.82	1.08	8.93	8.70	D
5	0100	983.60	31.8	1.50	1.50	95	18.9	2540	965.58	9.27	8.96	813	0	24.1	29.7	449	63275	565	11.4	155	112	4.39	.98	.84	1.08	8.93	8.70	D
6	0106	983.94	36.9	1.10	1.10	96	18.9	2530	967.11	8.83	9.02	814	0	24.3	29.7	474	63329	566	11.4	157	112	4.39	.94	.81	1.08	8.92	8.70	D↑
7	0107	984.82	33.6	1.58	1.58	107	15.3	2510	967.18	8.83	9.02	813	0	24.3	29.7	468	63369	567	11.4	186	112	4.39	.94	.81	1.08	8.95	8.70	D↑
8	0107	985.17	58.6	1.68	1.68	104	22.4	2530	967.22	8.83	9.02	814	0	24.3	29.7	465	63405	567	11.4	82	112	4.40	.89	.75	1.08	8.95	8.70	D
9	0108	985.43	23.1	1.67	1.67	104	21.4	2520	967.29	8.83	9.02	798	0	24.3	29.7	463	63461	567	11.4	165	112	4.40	1.11	.97	1.08	8.95	8.70	D
0	0108	985.76	43.7	1.66	1.66	105	24.0	2520	967.40	8.79	8.98	801	0	24.7	29.4	459	63506	568	11.4	115	112	4.40	.98	.84	1.08	8.96	8.70	D
1	0109	986.05	37.4	1.56	1.56	105	21.6	2510	967.54	8.79	8.98	801	0	24.7	29.4	455	63554	568	11.4	130	112	4.40	.99	.85	1.08	8.97	8.70	D
2	0109	986.34	35.1	1.64	1.64	104	20.3	2520	967.68	8.79	8.98	801	0	24.7	29.4	453	63596	568	11.4	152	112	4.41	.99	.85	1.08	8.97	8.70	D
3	0109	986.66	35.1	1.68	1.68	104	23.1	2520	967.83	8.79	8.98	801	0	24.7	29.4	450	63638	568	11.4	-149	112	4.41	1.02	.88	1.08	8.97	8.70	D
4	0110	986.99	41.2	1.61	1.61	104	21.1	2520	967.99	8.78	8.91	802	0	24.8	29.4	448	63678	569	11.4	131	112	4.41	.96	.82	1.08	8.98	8.70	D
5	0110	987.25	60.5	1.71	1.70	103	21.8	2510	968.19	8.78	8.91	802	0	24.8	29.4	447	63702	569	11.4	76	112	4.41	.87	.73	1.08	8.98	8.70	D
6	0111	987.60	36.0	1.54	1.54	104	22.0	2520	968.68	8.78	8.91	802	0	24.8	29.4	446	63763	569	11.5	124	112	4.42	1.00	.86	1.08	8.98	8.70	D
7	0111	987.89	67.7	1.72	1.72	104	20.9	2520	968.89	8.78	8.91	802	0	24.8	29.4	444	63788	570	11.5	143	112	4.42	.83	.69	1.08	8.98	8.70	D
8	0111	988.19	25.0	1.62	1.62	104	22.5	2520	969.44	8.78	8.91	802	0	24.8	29.4	443	63854	570	11.5	177	112	4.42	1.10	.96	1.08	8.98	8.70	D

EKLOG AMOCO AUST. Tilana No.1 329098

Data Printed at time 13:25 Date Oct 9 '85
Data Recorded at time 01:12 Date Sep 11 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NKB	ECD	EST FM PR	
69	0112	988.48	42.9	1.56	1.56	104	19.9	2510	969.68	8.74	8.92	802	0	24.8	29.4	442	63895	570	11.5	135	112	4.43	.93	.79	1.08	9.00	8.70	D
70	0112	988.77	40.6	1.75	1.75	104	22.9	2520	969.97	8.74	8.92	803	0	24.8	29.4	441	63939	571	11.5	110	112	4.43	.98	.84	1.08	9.00	8.70	D
71	0113	989.09	50.2	1.63	1.63	104	22.6	2520	970.26	8.74	8.92	803	0	24.8	29.4	441	63975	571	11.5	120	112	4.43	.92	.78	1.08	9.00	8.70	D
72	0113	989.39	40.3	1.63	1.63	104	20.3	2510	970.56	8.74	8.92	802	0	24.8	29.4	440	64019	571	11.5	115	112	4.43	.95	.81	1.08	9.00	8.70	D
73	0113	989.80	66.9	1.64	1.64	104	21.9	2510	970.79	8.74	8.92	802	0	24.8	29.4	440	64057	571	11.5	112	112	4.44	.84	.70	1.08	9.00	8.70	D
74	0114	990.32	38.9	1.60	1.60	104	20.5	2520	971.43	8.71	8.75	802	0	24.9	29.6	440	64138	572	11.5	131	112	4.44	.96	.82	1.08	9.01	8.70	D
75	0115	990.60	37.7	1.53	1.53	104	21.3	2510	971.79	8.71	8.75	802	0	24.9	29.6	439	64175	572	11.5	95	112	4.44	.98	.84	1.08	9.01	8.70	D
76	0115	990.91	36.5	1.58	1.58	105	19.1	2510	972.15	8.71	8.75	802	0	24.9	29.6	438	64220	573	11.5	156	112	4.45	.96	.82	1.08	9.01	8.70	D
77	0115	991.29	57.5	1.69	1.69	104	22.1	2510	972.44	8.71	8.75	802	0	24.9	29.6	439	64258	573	11.5	59	112	4.45	.88	.74	1.09	9.01	8.70	D
78	0116	991.52	30.7	1.61	1.61	104	21.5	2510	972.77	8.71	8.82	802	0	24.9	29.7	439	64299	573	11.5	130	112	4.45	1.03	.89	1.09	9.03	8.70	D
79	0116	991.84	49.1	1.66	1.66	104	19.3	2520	973.09	8.71	8.82	802	0	24.9	29.7	438	64339	574	11.5	137	112	4.46	.89	.75	1.09	9.03	8.70	D
80	0117	992.14	39.5	1.57	1.57	104	21.7	2510	973.34	8.71	8.82	802	0	24.9	29.7	439	64381	574	11.6	129	112	4.46	.97	.83	1.09	9.03	8.70	D
81	0117	992.75	36.3	1.64	1.64	104	21.5	2490	973.90	8.71	8.82	802	0	24.9	29.7	438	64455	575	11.6	123	112	4.46	.99	.85	1.09	9.03	8.70	D
82	0118	993.05	45.2	1.60	1.60	103	20.2	2470	974.15	8.71	8.82	801	0	24.9	29.7	437	64491	575	11.6	100	112	4.46	.92	.78	1.09	9.03	8.70	D
83	0118	993.37	79.6	1.50	1.50	104	18.2	2460	974.32	8.78	8.80	799	0	25.0	29.7	436	64516	575	11.6	96	112	4.46	.76	.62	1.09	9.04	8.70	D
84	0124	994.26	44.6	1.29	1.29	99	20.7	2530	976.26	8.77	8.86	801	0	25.2	29.9	457	64546	576	11.6	97	112	4.46	.93	.79	1.09	9.04	8.70	D†
85	0125	994.61	50.4	1.66	1.66	96	18.5	2520	976.46	8.77	8.86	799	0	25.2	29.9	454	64583	576	11.6	92	112	4.47	.85	.72	1.09	9.05	8.70	D
86	0125	994.96	48.6	1.61	1.61	95	23.1	2520	976.64	8.77	8.91	797	0	25.6	29.7	451	64623	577	11.6	126	112	4.47	.91	.77	1.09	9.05	8.70	D
87	0126	995.49	39.2	1.76	1.76	98	21.3	2530	976.85	8.77	8.91	800	0	25.6	29.7	446	64693	577	11.6	83	112	4.48	.95	.81	1.09	9.09	8.70	D
88	0126	995.84	55.7	1.75	1.75	101	23.5	2530	976.98	8.77	8.91	801	0	25.6	29.7	444	64730	578	11.6	119	112	4.48	.89	.75	1.09	9.09	8.70	D
89	0127	996.10	30.8	1.68	1.68	101	21.9	2560	977.13	8.77	8.91	803	0	25.6	29.7	442	64779	578	11.6	129	112	4.48	1.02	.88	1.09	9.10	8.70	D
90	0127	996.42	38.3	1.80	1.80	100	23.1	2530	977.24	8.77	8.91	803	0	25.6	29.7	440	64816	578	11.6	125	112	4.48	.98	.84	1.09	9.10	8.70	D
91	0128	996.72	36.3	1.70	1.70	101	23.8	2540	977.50	8.75	8.80	803	0	25.6	29.8	439	64863	578	11.6	137	112	4.48	1.00	.85	1.09	9.12	8.70	D
92	0128	997.01	36.5	1.67	1.67	101	21.8	2520	977.77	8.75	8.80	804	0	25.6	29.8	437	64906	579	11.6	145	112	4.49	.97	.83	1.09	9.12	8.70	D
93	0129	997.32	39.4	1.60	1.60	101	23.3	2510	978.03	8.75	8.80	804	0	25.6	29.8	436	64952	579	11.7	122	112	4.49	.97	.83	1.09	9.12	8.70	D
94	0129	997.62	75.3	1.58	1.58	100	20.8	2510	978.19	8.75	8.80	804	0	25.6	29.8	436	64975	579	11.7	125	112	4.49	.78	.64	1.09	9.13	8.70	D
95	0129	997.92	44.5	1.72	1.72	101	23.6	2520	978.41	8.75	8.80	805	0	25.6	29.8	435	65012	580	11.7	103	112	4.49	.94	.80	1.09	9.13	8.70	D
96	0130	998.22	35.5	1.63	1.63	101	22.8	2510	978.71	8.75	8.81	805	0	25.6	29.8	436	65054	580	11.7	114	112	4.50	.99	.85	1.09	9.15	8.70	D
97	0130	998.53	40.8	1.80	1.80	100	22.2	2500	979.09	8.75	8.81	805	0	25.6	29.8	435	65097	580	11.7	114	112	4.50	.94	.80	1.09	9.15	8.70	D
98	0130	998.84	58.5	1.67	1.67	99	22.6	2510	979.27	8.75	8.81	804	0	25.6	29.8	435	65129	581	11.7	81	112	4.50	.86	.72	1.09	9.15	8.70	D
99	0131	999.47	32.5	1.76	1.76	102	19.2	2510	979.96	8.75	8.81	805	0	25.6	29.8	435	65221	581	11.7	140	112	4.51	.97	.83	1.09	9.15	8.70	D
00	0132	999.76	37.9	1.65	1.65	101	21.6	2510	980.27	8.53	8.85	805	0	25.6	30.0	435	65263	582	11.7	121	112	4.51	.95	.82	1.09	9.18	8.70	D
01	0132	1000.1	39.0	1.59	1.59	101	19.7	2510	980.58	8.53	8.85	805	0	25.6	30.0	434	65308	582	11.7	149	112	4.51	.93	.79	1.09	9.18	8.70	D
02	0133	1000.4	36.5	1.65	1.65	101	21.5	2500	980.84	8.53	8.85	805	0	25.6	30.0	434	65352	582	11.7	134	112	4.51	.96	.82	1.09	9.18	8.70	D
03	0133	1000.7	52.8	1.58	1.58	101	19.6	2490	981.05	8.53	8.85	804	0	25.6	30.0	433	65389	582	11.7	97	112	4.51	.85	.72	1.09	9.18	8.70	D
04	0133	1001.0	35.1	1.63	1.63	99	22.0	2500	981.31	8.53	8.85	804	0	25.6	30.0	434	65429	583	11.7	95	112	4.52	.97	.83	1.09	9.18	8.70	D
05	0134	1001.3	30.4	1.72	1.72	102	20.7	2490	981.67	8.46	9.05	804	0	25.7	30.2	434	65492	583	11.7	173	112	4.52	1.00	.86	1.09	9.18	8.70	D
06	0135	1001.9	40.7	1.57	1.57	102	19.1	2500	982.32	8.46	9.05	805	0	25.7	30.2	434	65577	584	11.8	126	112	4.53	.91	.77	1.09	9.21	8.70	D
07	0135	1002.2	46.8	1.60	1.60	101	20.6	2480	982.56	8.46	9.05	804	0	25.7	30.2	432	65616	584	11.8	76	112	4.53	.89	.75	1.09	9.21	8.70	D
08	0136	1002.5	38.8	1.69	1.69	100	22.1	2440	982.91	8.46	9.05	804	0	25.7	30.2	432	65661	584	11.8	125	112	4.53	.95	.81	1.09	9.21	8.70	D
10	0142	1003.7	50.3	1.33	1.33	101	21.8	2490	985.24	8.43	9.13	804	0	25.9	30.5	449	65691	585	11.8	170	112	4.53	.92	.80	1.09	9.23	8.70	D†
11	0142	1004.0	67.7	1.64	1.64	98	22.2	2470	985.34	8.43	9.13	804	0	25.9	30.5	447	65714	586	11.8	81	112	4.54	.74	.61	1.09	9.25	8.70	D
12	0142	1004.3	30.9	1.68	1.68	97	22.4	2490	985.72	8.43	9.13	794	0	25.9	30.5	445	65766	586	11.8	134	112	4.54	1.00	.86	1.09	9.25	8.70	D
13	0143	1004.6	56.5	1.84	1.84	95	22.0	2480	985.88	8.43	9.13	799	0	25.9	30.5	442	65791	586	11.8	104	112	4.54	.84	.70	1.09	9.25	8.70	D
14	0143	1004.9	26.5	1.62	1.62	98	23.3	2480	985.89	8.44	9.50	802	0	26.3	30.5	438	65853	587	11.8	156	112	4.54	1.05	.91	1.09	9.26	8.70	D
15	0144	1005.2	35.8	1.71	1.71	97	21.2	2490	985.89	8.44	9.50	803	0	26.3	30.5	436	65901	587	11.8	138	112	4.55	.95	.81	1.09	9.26	8.70	D
16	0144	1005.5	37.8	1.77	1.77	97	21.3	2490	985.89	8.44	9.50	804	0	26.3	30.5	434	65947	587	11.8	128	112	4.55	.93	.80	1.09	9.26	8.70	D
17	0145	1005.8	52.7	1.71	1.71	98	25.1	2500	985.89	8.44	9.50	803	0	26.3	30.5	432	65976	588	11.8	100	112	4.55	.89	.75	1.09	9.26	8.70	D
18	0145	1006.2	57.7	1.71	1.71	98	23.7	2480	986.05	8.45	9.52	803	0	26.3	30.7	430	66010	588	11.8	99	112	4.55	.86	.71	1.09	9.27	8.70	D
19	0146	1006.5	23.5	1.70	1.70	96	22.9	2490	986.56	8.45	9.52	803	0	26.3	30.7	428	66071	588	11.8	182	112	4.56	1.07	.93	1.09	9.27	8.70	D

OCO AUST. Tilana No.1

329099

Data Printed at time 13:29 Date Oct 9 '85
Data Recorded at time 01:46 Date Sep 11 '85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
0	0146	1006.8	54.1	1.66	1.66	98	21.5	2470	986.82	8.45	9.52	804	0	26.3	30.7	427	66105	589	11.8	186	112	4.56	.85	.71	1.09	9.27	8.70	D
1	0146	1007.1	32.5	1.68	1.68	98	23.0	2460	987.26	8.45	9.52	803	0	26.3	30.7	425	66161	589	11.9	149	112	4.56	.99	.85	1.09	9.27	8.70	D
2	0147	1007.4	61.3	1.64	1.64	98	22.1	2470	987.45	8.45	9.52	803	0	26.3	30.7	425	66185	589	11.9	81	112	4.56	.83	.69	1.09	9.27	8.70	D
3	0147	1007.7	57.7	1.63	1.63	97	21.6	2480	987.71	8.45	9.52	803	0	26.3	30.7	424	66217	589	11.9	97	112	4.56	.83	.70	1.09	9.27	8.70	D
4	0148	1008.0	26.9	1.64	1.64	98	19.5	2500	988.16	8.45	9.45	803	0	26.2	30.8	424	66274	590	11.9	156	112	4.57	1.00	.86	1.10	9.25	8.70	D
5	0148	1008.3	63.4	1.67	1.67	97	21.0	2480	988.36	8.45	9.45	803	0	26.2	30.8	423	66303	590	11.9	83	112	4.57	.81	.67	1.09	9.25	8.70	D
6	0149	1008.9	31.9	1.60	1.60	97	20.8	2490	989.08	8.45	9.45	804	0	26.2	30.8	423	66389	591	11.9	117	112	4.57	.97	.83	1.10	9.25	8.70	D
7	0149	1009.2	36.4	1.75	1.75	96	20.0	2490	989.48	8.45	9.45	804	0	26.2	30.8	423	66437	591	11.9	119	112	4.58	.93	.79	1.10	9.25	8.70	D
8	0150	1009.5	36.8	1.62	1.62	96	21.3	2480	989.80	8.47	9.59	804	0	26.3	30.8	423	66478	591	11.9	132	112	4.58	.94	.80	1.10	9.25	8.70	D
9	0150	1009.9	30.5	1.80	1.80	96	22.7	2490	990.26	8.47	9.59	803	0	26.3	30.8	424	66539	592	11.9	186	112	4.58	1.00	.86	1.10	9.24	8.70	D
0	0151	1010.2	40.5	1.73	1.73	95	24.3	2500	990.64	8.47	9.59	802	0	26.3	30.8	423	66580	592	11.9	139	112	4.59	.95	.80	1.10	9.24	8.70	D
1	0151	1010.4	50.2	1.74	1.74	96	24.1	2480	990.84	8.47	9.59	802	0	26.3	30.8	423	66606	592	11.9	149	112	4.59	.89	.75	1.10	9.24	8.70	D
2	0152	1010.7	31.8	1.70	1.70	97	21.9	2500	991.29	8.47	9.59	803	0	26.3	30.8	424	66661	593	11.9	134	112	4.59	.99	.85	1.10	9.24	8.70	D
3	0152	1011.0	36.3	1.77	1.77	96	19.6	2500	991.60	8.47	9.59	803	0	26.3	30.8	425	66707	593	11.9	137	112	4.59	.92	.79	1.10	9.24	8.70	D
4	0153	1011.3	40.9	1.69	1.69	96	22.0	2500	991.97	8.48	9.59	803	0	26.4	30.8	425	66749	593	12.0	116	112	4.59	.92	.78	1.10	9.24	8.70	D
5	0153	1011.6	27.9	1.64	1.64	95	20.2	2460	992.28	8.48	9.59	801	0	26.4	30.8	425	66795	593	12.0	141	112	4.60	.99	.86	1.10	9.23	8.70	D
6	0201	1012.0	35.7	1.40	1.40	98	22.6	2550	995.52	8.62	9.41	798	0	26.6	30.6	454	67000	594	12.0	180	112	4.61	.95	.81	1.10	9.18	8.70	D↑
7	0201	1012.5	49.5	1.66	1.66	95	16.8	2700	995.52	8.62	9.41	799	0	26.6	30.6	450	67055	594	12.0	108	112	4.61	.82	.69	1.10	9.18	8.70	D
8	0203	1012.9	27.4	1.78	1.78	94	21.9	2620	995.52	8.62	9.41	799	0	26.6	30.6	445	67173	595	12.0	741	112	4.62	1.04	.90	1.10	9.19	8.70	D
9	0203	1013.2	33.7	1.64	1.64	95	19.9	2660	995.76	8.67	9.54	799	0	26.6	30.5	441	67227	595	12.0	184	112	4.62	.95	.81	1.10	9.18	8.70	D
0	0204	1013.5	17.6	1.86	1.86	98	22.2	2780	996.33	8.67	9.54	786	0	26.6	30.5	439	67320	595	12.1	212	112	4.62	1.14	1.00	1.10	9.18	8.70	D
1	0205	1013.9	37.5	1.73	1.73	99	20.4	2750	996.72	8.67	9.47	798	0	26.4	30.3	437	67380	596	12.1	162	113	4.63	.94	.80	1.10	9.17	8.70	D
2	0205	1014.1	46.9	1.82	1.82	101	22.2	2790	996.96	8.67	9.47	801	0	26.4	30.3	436	67407	596	12.1	173	112	4.63	.91	.77	1.10	9.17	8.70	D
3	0206	1014.4	19.0	1.70	1.70	101	19.8	2810	997.61	8.67	9.47	802	0	26.4	30.3	437	67500	596	12.1	266	113	4.64	1.10	.96	1.10	9.17	8.70	D
4	0207	1014.7	31.7	1.86	1.86	101	20.1	2770	998.03	8.67	9.47	801	0	26.4	30.3	435	67561	596	12.1	189	113	4.64	.98	.84	1.10	9.16	8.70	D
5	0207	1015.0	48.7	1.74	1.74	100	21.1	2780	998.27	8.67	9.47	802	0	26.4	30.3	434	67596	597	12.1	98	113	4.64	.89	.75	1.10	9.16	8.70	D
6	0208	1015.3	30.4	1.58	1.58	101	18.7	2750	998.75	8.68	9.28	803	0	26.4	30.5	433	67660	597	12.1	165	113	4.64	.98	.84	1.10	9.14	8.70	D
7	0208	1015.6	16.1	1.85	1.85	100	19.3	2740	999.29	8.68	9.28	803	0	26.4	30.5	433	67733	597	12.1	212	113	4.65	1.14	1.00	1.10	9.14	8.70	D
8	0209	1015.9	27.2	1.78	1.78	100	21.8	2730	999.64	8.68	9.28	803	0	26.4	30.5	432	67785	598	12.1	212	113	4.65	1.04	.90	1.10	9.14	8.70	D
9	0209	1016.2	37.7	1.84	1.84	101	19.6	2740	1000.0	8.67	9.22	803	0	26.4	30.7	430	67835	598	12.1	126	113	4.66	.94	.80	1.10	9.14	8.70	D
0	0210	1016.6	40.0	1.67	1.67	101	19.6	2720	1000.4	8.67	9.22	803	0	26.4	30.7	431	67884	598	12.2	163	113	4.66	.93	.78	1.10	9.11	8.70	D
1	0211	1017.1	26.3	1.71	1.71	100	20.3	2760	1001.3	8.67	9.22	803	0	26.4	30.7	429	67998	599	12.2	226	113	4.66	1.03	.89	1.10	9.10	8.70	D
2	0211	1017.4	35.5	1.59	1.59	101	18.2	2720	1001.7	8.70	9.20	803	0	26.5	30.9	428	68047	599	12.2	231	113	4.67	.94	.80	1.10	9.06	8.70	D
3	0212	1017.7	23.9	1.64	1.64	101	17.8	2730	1002.2	8.70	9.20	803	0	26.5	30.9	422	68126	600	12.2	196	113	4.67	1.03	.89	1.10	9.06	8.70	D
4	0213	1018.0	34.3	1.67	1.67	100	17.3	2760	1002.5	8.70	9.20	804	0	26.5	30.9	419	68166	600	12.2	114	113	4.67	.94	.80	1.10	9.06	8.70	D
5	0213	1018.4	44.4	1.89	1.89	100	22.5	2750	1002.7	8.70	9.20	805	0	26.5	30.9	416	68209	600	12.2	138	113	4.67	.94	.79	1.10	9.06	8.70	D
6	0214	1018.6	26.1	1.81	1.81	101	21.4	2770	1003.1	8.72	9.21	804	0	26.5	30.9	412	68261	600	12.2	142	113	4.68	1.06	.92	1.10	9.01	8.70	D
7	0214	1019.0	46.7	1.71	1.71	101	19.8	2710	1003.4	8.72	9.21	805	0	26.5	30.9	409	68302	601	12.2	129	113	4.68	.90	.76	1.10	9.01	8.70	D
8	0215	1019.3	19.8	1.73	1.73	100	21.0	2770	1003.8	8.72	9.21	805	0	26.5	30.9	404	68382	601	12.2	221	113	4.68	1.13	.98	1.10	9.01	8.70	D
9	0215	1019.6	32.3	1.65	1.65	101	18.8	2750	1004.2	8.72	9.21	804	0	26.5	30.9	403	68439	601	12.2	152	113	4.69	.98	.84	1.10	9.01	8.70	D
0	0216	1019.9	27.8	1.71	1.71	101	20.8	2750	1004.4	8.71	9.19	803	0	26.6	30.9	400	68504	602	12.3	153	113	4.69	1.04	.89	1.10	9.01	8.70	D
1	0216	1020.2	31.2	1.59	1.59	101	19.6	2740	1004.5	8.71	9.19	804	0	26.6	30.9	398	68548	602	12.3	182	113	4.69	1.00	.86	1.10	8.96	8.70	D
2	0217	1020.5	22.6	1.75	1.75	101	21.7	2770	1004.7	8.71	9.19	803	0	26.6	30.9	396	68627	602	12.3	212	113	4.70	1.11	.96	1.10	8.96	8.70	D
3	0218	1020.8	25.1	2.00	2.00	99	20.1	2720	1004.8	8.71	9.19	803	0	26.6	30.9	393	68700	603	12.3	179	113	4.70	1.06	.91	1.10	8.97	8.70	D
4	0227	1021.1	30.6	1.24	1.24	98	20.6	2400	1009.2	8.70	9.04	762	0	26.7	31.3	409	68741	603	12.3	-175	113	4.71	1.03	.88	1.10	8.79	8.70	D↑
5	0228	1021.7	25.3	1.83	1.83	99	18.8	2390	1009.7	8.70	9.04	759	0	26.7	31.3	407	68798	603	12.3	143	113	4.71	1.06	.91	1.10	8.80	8.70	D
6	0228	1022.1	43.3	1.89	1.89	99	20.3	2390	1010.1	8.70	9.04	755	0	26.7	31.3	404	68849	604	12.3	135	113	4.71	.94	.79	1.10	8.81	8.70	D
	0228	1022.3	56.2	1.82	1.82	98	20.9	2400	1010.2	8.74	8.98	759	0	27.0	31.2	404	68873	604	12.3	91	113	4.71	.88	.73	1.10	8.79	8.70	D
	0229	1022.6	37.5	1.65	1.65	99	18.7	2420	1010.5	8.74	8.98	762	0	27.0	31.2	402	68914	604	12.3	112	113	4.71	.96	.81	1.10	8.79	8.70	D
	0230	1022.9	23.4	1.72	1.72	99	20.0	2400	1011.0	8.74	8.98	762	0	27.0	31.2	401	68990	605	12.3	228	113	4.72	1.09	.95	1.10	8.79	8.70	D

EXLOG® AMOCO AUST. Tilana No.1 329100

Data Printed at time 13:33 Date Oct 9 '85
Data Recorded at time 02:30 Date Sep 11 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
70	0230	1023.2	43.1	1.59	1.59	99	17.5	2400	1011.2	8.74	8.98	762	0	27.0	31.2	399	69026	605	12.3	186	113	4.72	.91	.77	1.10	8.79	8.70	D
71	0231	1023.5	16.0	1.59	1.59	99	19.3	2400	1011.9	8.70	8.97	764	0	27.0	31.2	397	69130	605	12.4	265	113	4.73	1.18	1.03	1.10	8.77	8.70	D
72	0231	1023.8	40.5	1.82	1.82	98	20.7	2400	1012.0	8.70	8.97	764	0	27.0	31.2	395	69168	606	12.4	118	113	4.73	.96	.81	1.10	8.77	8.70	D
73	0232	1024.1	55.2	1.71	1.71	100	20.8	2400	1012.2	8.70	8.97	763	0	27.0	31.2	394	69201	606	12.4	89	113	4.73	.89	.74	1.10	8.77	8.70	D
74	0232	1024.4	30.0	1.79	1.79	98	21.9	2410	1012.6	8.70	8.97	763	0	27.0	31.2	393	69258	606	12.4	157	113	4.73	1.06	.90	1.10	8.77	8.70	D
75	0233	1024.8	43.9	1.76	1.76	98	22.1	2420	1012.8	8.70	8.97	763	0	27.0	31.2	393	69298	606	12.4	142	113	4.74	.96	.81	1.10	8.77	8.70	D
76	0233	1025.0	18.0	2.02	2.02	98	21.2	2420	1013.1	8.73	8.97	763	0	27.0	31.4	391	69360	607	12.4	187	113	4.74	1.18	1.03	1.10	8.76	8.70	D
77	0234	1025.4	36.3	1.80	1.80	99	21.3	2420	1013.4	8.73	8.97	764	0	27.0	31.4	390	69409	607	12.4	149	113	4.74	1.00	.85	1.10	8.76	8.70	D
78	0234	1025.7	37.8	1.70	1.70	100	18.8	2410	1013.6	8.73	8.97	764	0	27.0	31.4	389	69455	607	12.4	124	113	4.74	.96	.82	1.10	8.76	8.70	D
79	0235	1026.0	46.8	1.94	1.94	98	20.6	2400	1013.8	8.73	8.97	764	0	27.0	31.4	388	69493	608	12.4	103	113	4.75	.93	.78	1.10	8.76	8.70	D
80	0235	1026.3	35.0	1.63	1.63	98	19.6	2400	1014.0	8.74	9.01	763	0	27.0	31.5	387	69552	608	12.4	157	113	4.75	.99	.84	1.10	8.77	8.70	D
81	0236	1026.6	23.7	1.52	1.52	98	17.4	2410	1014.0	8.74	9.01	763	0	27.0	31.5	385	69617	608	12.4	206	113	4.75	1.06	.91	1.10	8.75	8.70	D
82	0237	1026.9	31.9	1.72	1.72	98	18.3	2420	1014.0	8.74	9.01	764	0	27.0	31.5	383	69665	609	12.5	130	113	4.76	1.00	.85	1.10	8.76	8.70	D
83	0237	1027.2	31.3	1.62	1.62	99	19.8	2370	1014.0	8.74	9.01	764	0	27.0	31.5	382	69724	609	12.5	163	113	4.76	1.02	.87	1.10	8.76	8.70	D
84	0238	1027.5	31.8	1.81	1.81	99	21.4	2410	1014.1	8.73	9.10	764	0	27.1	31.3	380	69775	609	12.5	154	113	4.76	1.04	.88	1.10	8.76	8.70	D
85	0238	1027.8	36.1	1.75	1.75	100	19.0	2390	1014.3	8.73	9.10	764	0	27.1	31.3	380	69833	610	12.5	131	113	4.77	.98	.83	1.10	8.75	8.70	D
86	0239	1028.1	28.3	1.88	1.88	98	20.9	2400	1014.5	8.73	9.10	764	0	27.1	31.3	380	69874	610	12.5	135	113	4.77	1.06	.91	1.10	8.75	8.70	D
87	0239	1028.4	40.6	1.76	1.76	99	19.2	2400	1014.7	8.73	9.10	765	0	27.1	31.3	379	69917	610	12.5	124	113	4.77	.95	.80	1.10	8.75	8.70	D
88	0239	1028.7	43.2	1.80	1.80	98	21.1	2410	1014.8	8.73	9.10	764	0	27.1	31.3	378	69953	611	12.5	137	113	4.77	.95	.80	1.10	8.76	8.70	D
89	0240	1029.0	25.9	1.76	1.76	98	20.1	2400	1015.1	8.69	9.16	764	0	27.1	31.4	378	70017	611	12.5	174	113	4.77	1.07	.92	1.10	8.75	8.70	D
90	0241	1029.3	21.6	1.75	1.75	98	20.7	2400	1015.2	8.69	9.16	763	0	27.1	31.4	376	70088	611	12.5	204	113	4.78	1.13	.97	1.10	8.75	8.70	D
91	0241	1029.6	33.9	1.82	1.82	97	19.7	2400	1015.4	8.69	9.16	763	0	27.1	31.4	375	70133	611	12.5	166	113	4.78	1.00	.85	1.10	8.75	8.70	D
92	0242	1030.0	37.5	1.77	1.77	98	20.1	2410	1015.5	8.69	9.16	763	0	27.1	31.4	375	70182	612	12.5	135	113	4.78	.98	.83	1.10	8.75	8.70	D
93	0249	1030.5	28.9	1.04	1.04	98	19.4	2420	1017.5	8.70	9.78	603	0	27.2	32.4	401	70248	612	12.6	159	114	4.79	1.04	.89	1.10	8.71	8.70	DX
94	0249	1031.2	36.4	1.71	1.71	104	18.7	2410	1017.7	8.70	9.78	771	0	27.2	32.4	399	70270	613	12.6	166	113	4.79	.99	.85	1.10	8.72	8.70	D†
95	0250	1031.5	24.8	1.67	1.67	103	20.6	2430	1018.0	8.78	9.59	770	0	27.4	32.1	397	70336	613	12.6	180	113	4.79	1.11	.95	1.10	8.73	8.70	D
96	0250	1031.7	35.1	1.77	1.77	103	17.7	2450	1018.3	8.78	9.59	765	0	27.4	32.1	398	70377	614	12.6	124	113	4.80	.98	.83	1.10	8.73	8.70	D
97	0251	1032.1	35.1	1.59	1.59	104	19.2	2440	1018.6	8.78	9.59	770	0	27.4	32.1	396	70442	614	12.6	212	113	4.80	1.00	.85	1.10	8.73	8.70	D
98	0251	1032.4	20.9	1.74	1.74	103	18.4	2440	1018.9	8.78	9.59	770	0	27.4	32.1	395	70502	614	12.6	155	113	4.80	1.12	.97	1.10	8.73	8.70	D
99	0252	1032.7	40.7	1.58	1.58	103	19.9	2440	1019.2	8.78	9.59	770	0	27.4	32.1	393	70555	614	12.6	190	113	4.80	.97	.82	1.10	8.73	8.70	D
00	0252	1033.0	22.1	1.68	1.68	103	18.9	2450	1019.6	8.83	9.56	769	0	27.4	32.1	392	70624	615	12.6	186	114	4.81	1.11	.96	1.10	8.73	8.70	D
01	0253	1033.3	44.3	1.77	1.77	103	19.0	2440	1019.8	8.83	9.56	769	0	27.4	32.1	392	70665	615	12.6	114	114	4.81	.93	.78	1.10	8.75	8.70	D
02	0253	1033.6	38.5	1.73	1.73	102	19.1	2440	1020.1	8.83	9.56	769	0	27.4	32.1	391	70717	615	12.6	171	114	4.81	.97	.82	1.10	8.75	8.70	D
03	0254	1033.9	35.1	1.73	1.73	103	18.6	2440	1020.3	8.83	9.56	769	0	27.4	32.1	390	70763	616	12.6	127	114	4.82	.99	.84	1.11	8.75	8.70	D
04	0254	1034.2	51.1	1.70	1.70	102	17.3	2440	1020.5	8.83	9.56	768	0	27.4	32.1	390	70801	616	12.6	102	114	4.82	.88	.73	1.10	8.75	8.70	D
05	0255	1034.5	29.5	1.70	1.70	103	19.0	2440	1020.9	8.83	9.56	768	0	27.4	32.1	389	70859	616	12.7	144	114	4.82	1.04	.89	1.10	8.75	8.70	D
06	0255	1034.8	33.9	1.80	1.80	102	18.8	2450	1021.1	8.89	9.21	768	0	27.4	32.2	389	70907	617	12.7	191	114	4.82	1.00	.85	1.11	8.77	8.70	D
07	0256	1035.4	30.1	1.64	1.64	103	16.8	2450	1021.5	8.89	9.21	768	0	27.4	32.2	387	71003	617	12.7	109	114	4.83	1.00	.85	1.11	8.77	8.70	D
08	0257	1035.7	39.5	1.65	1.65	103	18.8	2450	1021.7	8.89	9.21	767	0	27.4	32.2	388	71044	617	12.7	154	114	4.83	.96	.81	1.11	8.77	8.70	D
09	0257	1036.0	50.7	1.50	1.50	102	16.7	2460	1021.9	8.89	9.21	768	0	27.4	32.2	387	71079	618	12.7	116	114	4.83	.87	.72	1.11	8.77	8.70	D
10	0257	1036.3	31.7	1.63	1.63	103	18.0	2450	1022.1	8.89	9.10	767	0	27.3	32.3	387	71139	618	12.7	148	114	4.84	1.00	.85	1.11	8.79	8.70	D
11	0258	1036.6	53.8	1.76	1.76	102	17.6	2480	1022.3	8.89	9.10	767	0	27.3	32.3	386	71164	618	12.7	88	114	4.84	.86	.72	1.11	8.79	8.70	D
12	0259	1036.9	15.9	1.84	1.84	101	17.3	2520	1022.8	8.89	9.10	764	0	27.3	32.3	386	71276	619	12.7	353	114	4.84	1.15	1.01	1.11	8.79	8.70	D
13	0259	1037.2	26.0	1.80	1.80	102	17.4	2500	1023.0	8.93	9.14	764	0	27.3	32.5	384	71348	619	12.7	187	114	4.85	1.04	.89	1.11	8.79	8.70	D
14	0300	1037.5	33.7	1.69	1.69	103	18.3	2500	1023.1	8.93	9.14	765	0	27.3	32.5	383	71402	619	12.7	158	114	4.85	.99	.84	1.11	8.81	8.70	D
15	0301	1037.8	21.3	1.70	1.70	103	19.4	2510	1023.2	8.93	9.14	765	0	27.3	32.5	383	71472	620	12.8	191	114	4.85	1.11	.96	1.11	8.82	8.70	D
16	0301	1038.2	28.4	1.79	1.79	103	19.1	2520	1023.3	8.93	9.14	765	0	27.3	32.5	382	71539	620	12.8	185	114	4.86	1.04	.89	1.11	8.82	8.70	D
17	0302	1038.5	26.3	1.79	1.79	103	17.1	2550	1023.3	8.94	9.18	765	0	27.3	32.5	382	71602	620	12.8	196	114	4.86	1.03	.88	1.11	8.82	8.70	D
18	0303	1038.8	15.7	1.39	1.39	103	19.1	2600	1023.3	8.94	9.18	762	0	27.3	32.5	381	71716	621	12.8	469	114	4.87	1.18	1.03	1.11	8.84	8.70	D
19	0304	1039.1	13.8	1.68	1.68	102	18.7	2510	1023.4	8.98	9.23	762	0	27.3	32.6	380	71844	621	12.8	346	114	4.87	1.20	1.05	1.11	8.86	8.70	D

IME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
	0311	1039.4	19.2	1.50	1.50	101	19.5	2530	1025.0	8.98	9.20	761	0	27.3	32.8	377	71961	621	12.8	296	114	4.88	1.13	.98	1.11	8.85	8.70	DX
	0312	1040.3	35.8	1.79	1.79	98	22.6	2490	1025.5	8.98	9.20	751	0	27.3	32.8	364	72036	622	12.8	134	114	4.89	1.01	.85	1.11	8.87	8.70	D
2	0312	1040.6	36.5	1.64	1.64	98	19.8	2520	1025.7	9.00	9.11	758	0	27.5	32.7	358	72076	622	12.9	142	114	4.89	.97	.82	1.11	8.87	8.70	D
	0314	1041.5	32.9	1.72	1.72	98	19.4	2510	1026.5	9.00	9.11	761	0	27.5	32.7	337	72215	623	12.9	175	114	4.89	.99	.84	1.11	8.89	8.70	D
	0315	1041.8	22.8	1.59	1.59	98	18.9	2510	1026.9	9.00	9.11	761	0	27.5	32.7	336	72290	624	12.9	211	114	4.90	1.07	.92	1.11	8.89	8.70	D
5	0315	1042.1	44.3	2.05	2.05	98	21.1	2590	1027.1	9.00	9.11	761	0	27.5	32.7	338	72331	624	12.9	117	114	4.90	.93	.78	1.11	8.89	8.70	D
6	0316	1042.4	22.4	1.83	1.83	97	18.9	2550	1027.5	9.00	9.13	760	0	27.3	32.7	339	72403	624	12.9	206	114	4.90	1.07	.92	1.11	8.90	8.70	D
7	0317	1042.7	16.2	1.70	1.70	97	19.4	2540	1028.3	9.00	9.13	759	0	27.3	32.7	343	72517	625	12.9	235	114	4.91	1.16	1.01	1.11	8.90	8.70	D
8	0318	1043.0	29.2	1.68	1.68	98	18.8	2520	1028.7	9.00	9.13	759	0	27.3	32.7	344	72574	625	12.9	172	114	4.91	1.01	.86	1.11	8.90	8.70	D
9	0318	1043.3	27.1	1.54	1.54	98	19.9	2530	1029.1	9.03	9.15	762	0	27.2	32.9	345	72639	625	12.9	174	114	4.92	1.04	.89	1.11	8.91	8.70	D
0	0319	1043.6	34.4	1.56	1.56	98	20.6	2520	1029.4	9.03	9.15	761	0	27.2	32.9	347	72691	625	13.0	189	114	4.92	.99	.83	1.11	8.91	8.70	D
1	0320	1043.9	17.9	1.71	1.71	98	19.4	2540	1029.8	9.03	9.15	760	0	27.2	32.9	352	72786	626	13.0	248	114	4.92	1.14	.98	1.11	8.91	8.70	D
2	0320	1044.3	23.9	1.59	1.59	98	20.5	2520	1030.3	9.03	9.15	761	0	27.2	32.9	355	72862	626	13.0	234	115	4.93	1.08	.92	1.11	8.91	8.70	D
3	0321	1044.5	25.9	1.78	1.78	98	20.2	2500	1030.6	9.01	9.08	762	0	27.2	33.1	357	72921	626	13.0	163	115	4.93	1.05	.90	1.11	8.91	8.70	D
4	0322	1044.9	38.9	1.67	1.67	98	20.2	2500	1030.8	9.01	9.08	762	0	27.2	33.1	361	72966	627	13.0	129	115	4.93	.95	.80	1.11	8.91	8.70	D
5	0322	1045.2	36.2	1.65	1.65	98	21.8	2480	1031.2	9.01	9.08	762	0	27.2	33.1	362	73018	627	13.0	138	115	4.94	.99	.83	1.11	8.91	8.70	D
6	0322	1045.5	46.8	1.66	1.66	98	20.4	2490	1031.4	9.01	9.08	762	0	27.2	33.1	364	73057	627	13.0	143	115	4.94	.91	.76	1.11	8.91	8.70	D
7	0323	1045.8	30.1	1.50	1.50	98	20.7	2490	1031.7	9.06	9.07	763	0	26.9	33.3	366	73106	628	13.0	160	115	4.94	1.02	.87	1.11	8.91	8.70	D
8	0324	1046.1	29.1	1.66	1.66	97	19.5	2490	1032.1	9.06	9.07	762	0	26.9	33.3	368	73163	628	13.0	151	115	4.95	1.01	.86	1.11	8.91	8.70	D
9	0325	1047.0	55.2	1.64	1.64	98	20.2	2470	1032.7	9.15	9.02	764	0	27.3	33.5	374	73325	629	13.1	92	115	4.95	.86	.71	1.11	8.92	8.70	D
0	0326	1047.3	30.9	1.58	1.58	98	18.5	2480	1032.7	9.15	9.02	764	0	27.3	33.5	375	73381	629	13.1	148	115	4.96	.99	.84	1.11	8.92	8.70	D
1	0326	1047.6	36.7	1.60	1.60	97	20.3	2480	1032.7	9.15	9.02	764	0	27.3	33.5	377	73426	629	13.1	124	115	4.96	.97	.81	1.11	8.92	8.70	D
2	0327	1047.9	22.6	1.53	1.53	98	18.4	2460	1032.7	9.15	9.02	764	0	27.3	33.5	378	73509	630	13.1	217	115	4.96	1.06	.91	1.11	8.93	8.70	D
3	0328	1048.2	29.7	1.59	1.59	98	20.4	2460	1032.8	9.21	9.01	764	0	27.4	33.4	378	73562	630	13.1	174	115	4.97	1.02	.87	1.11	8.93	8.70	D
4	0328	1048.5	39.6	1.69	1.69	97	20.8	2470	1033.1	9.21	9.01	764	0	27.4	33.4	378	73605	630	13.1	121	115	4.97	.95	.80	1.11	8.93	8.70	D
in survey.																											
6	0414	1050.4	55.0	1.52	1.52	99	16.4	2370	1039.1	9.08	9.06	749	0	27.8	33.6	358	73671	632	13.1	95	115	4.97	.82	.68	1.11	8.92	8.70	D
7	0415	1050.7	34.4	1.65	1.65	99	16.3	2370	1039.4	9.08	9.06	757	0	27.8	33.6	352	73719	632	13.1	173	115	4.97	.93	.79	1.11	8.93	8.70	D
8	0415	1051.0	24.4	1.44	1.44	101	13.1	2370	1039.8	9.03	9.08	759	0	28.4	31.1	343	73786	633	13.1	187	115	4.98	.97	.83	1.11	8.95	8.70	D
9	0416	1051.3	44.3	1.63	1.63	98	17.1	2360	1040.0	9.03	9.08	759	0	28.4	31.1	337	73827	633	13.2	117	115	4.98	.88	.73	1.11	8.95	8.70	D
0	0416	1051.6	50.8	1.49	1.49	98	15.4	2370	1040.2	9.03	9.08	759	0	28.4	31.1	332	73866	633	13.2	109	115	4.98	.83	.68	1.11	8.95	8.70	D
1	0417	1051.9	24.4	1.57	1.57	98	15.8	2390	1040.5	9.03	9.08	760	0	28.4	31.1	332	73922	634	13.2	160	115	4.98	1.00	.86	1.11	8.95	8.70	D
2	0417	1052.2	25.0	1.58	1.58	98	16.4	2390	1040.7	8.95	9.25	762	0	28.0	31.6	333	73970	634	13.2	149	115	4.99	1.00	.86	1.11	8.95	8.70	D
3	0418	1052.5	44.4	1.52	1.52	98	17.2	2390	1040.9	8.95	9.25	763	0	28.0	31.6	335	74013	634	13.2	103	115	4.99	.88	.73	1.11	8.95	8.70	D
4	0418	1052.8	21.2	1.54	1.54	98	16.8	2390	1041.1	8.95	9.25	763	0	28.0	31.6	338	74088	635	13.2	213	115	4.99	1.05	.90	1.11	8.95	8.70	D
5	0419	1053.1	33.5	1.54	1.54	99	15.6	2400	1041.3	8.91	9.45	764	0	27.7	32.2	339	74146	635	13.2	165	115	5.00	.93	.78	1.11	8.95	8.70	D
6	0419	1053.4	58.0	1.80	1.80	99	17.7	2400	1041.3	8.91	9.45	765	0	27.7	32.2	340	74169	635	13.2	69	115	5.00	.82	.67	1.11	8.97	8.70	D
7	0420	1053.7	37.5	1.52	1.52	98	17.4	2390	1041.4	8.91	9.45	765	0	27.7	32.2	341	74215	635	13.2	120	115	5.00	.92	.77	1.11	8.97	8.70	D
8	0420	1054.3	36.6	1.63	1.63	98	16.3	2380	1041.6	8.91	9.45	765	0	27.7	32.2	345	74295	636	13.2	137	115	5.00	.91	.77	1.11	8.98	8.70	D
9	0421	1054.6	34.0	1.61	1.61	98	16.8	2380	1041.7	8.91	9.45	765	0	27.7	32.2	346	74342	636	13.2	132	115	5.00	.93	.79	1.11	8.98	8.70	D
0	0421	1055.0	59.0	1.61	1.61	98	17.3	2380	1041.8	8.90	9.50	765	0	27.6	32.2	348	74378	637	13.2	100	115	5.00	.81	.66	1.11	9.00	8.70	D
1	0422	1055.2	26.0	1.61	1.61	98	17.7	2390	1041.8	8.90	9.50	765	0	27.6	32.2	350	74427	637	13.3	146	115	5.01	1.01	.86	1.11	9.00	8.70	D
2	0422	1055.5	36.1	1.56	1.56	98	14.9	2390	1041.8	8.90	9.50	766	0	27.6	32.2	351	74480	637	13.3	125	115	5.01	.89	.75	1.11	9.00	8.70	D
3	0423	1055.8	23.7	1.67	1.67	97	16.4	2380	1041.8	8.90	9.50	767	0	27.6	32.2	353	74548	638	13.3	183	115	5.01	1.01	.86	1.11	9.01	8.70	D
4	0423	1056.1	55.6	1.69	1.69	98	14.6	2390	1041.9	8.93	9.52	767	0	27.5	32.9	355	74581	638	13.3	109	115	5.02	.79	.65	1.11	9.03	8.70	D
5	0424	1056.5	25.1	1.46	1.46	98	15.3	2400	1042.3	8.93	9.52	766	0	27.5	32.9	358	74655	638	13.3	195	115	5.02	.98	.84	1.11	9.03	8.70	D
6	0424	1056.8	36.6	1.56	1.56	98	15.0	2380	1042.5	8.93	9.52	767	0	27.5	32.9	359	74693	639	13.3	132	115	5.02	.89	.74	1.11	9.03	8.70	D
7	0425	1057.1	30.8	1.67	1.67	98	16.7	2380	1042.8	8.93	9.52	766	0	27.5	32.9	360	74747	639	13.3	203	115	5.02	.95	.80	1.12	9.03	8.70	D
8	0426	1057.4	31.0	1.52	1.52	97	15.9	2380	1043.1	8.89	9.57	766	0	27.5	32.8	362	74800	639	13.3	155	115	5.03	.94	.79	1.11	9.03	8.70	D
9	0426	1057.7	26.3	1.65	1.65	98	15.8	2390	1043.5	8.89	9.57	766	0	27.5	32.8	365	74865	639	13.3	194	115	5.03	.98	.83	1.12	9.03	8.70	D

EKLOG

329102

AMOCO AUST. Tilana No.1

Data Printed at time 13:49 Date Oct 9 '85
Data Recorded at time 04:27 Date Sep 11 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DKC	NX	NKB	ECD	EST FM PR	
70	0427	1058.0	27.3	1.49	1.49	98	15.9	2400	1043.8	8.89	9.57	766	0	27.5	32.8	365	74909	640	13.3	158	115	5.03	.97	.82	1.12	9.03	8.70	D
71	0427	1058.3	25.1	1.52	1.52	98	14.4	2390	1044.2	8.89	9.57	767	0	27.5	32.8	367	74976	640	13.3	173	115	5.04	.96	.82	1.12	9.03	8.70	D
72	0436	1058.6	26.6	1.00	1.00	98	13.8	2340	1046.4	8.93	9.54	755	0	27.6	33.4	373	75020	640	13.4	151	115	5.04	.94	.80	1.12	9.05	8.70	DX
73	0436	1059.2	38.7	1.72	1.72	97	13.5	2320	1046.6	8.94	9.43	758	0	27.7	33.1	369	75033	641	13.4	172	115	5.04	.89	.74	1.12	9.05	8.70	D
74	0437	1059.5	42.1	1.86	1.86	94	17.9	2330	1046.7	8.94	9.43	759	0	27.7	33.1	365	75065	641	13.4	90	115	5.04	.88	.73	1.12	9.08	8.70	D
75	0437	1059.9	43.6	1.64	1.64	101	17.8	2340	1047.0	8.94	9.43	760	0	27.7	33.1	358	75114	642	13.4	141	115	5.04	.89	.74	1.12	9.08	8.70	D
76	0438	1060.4	35.9	1.66	1.66	101	18.3	2340	1047.4	8.94	9.43	761	0	27.7	33.1	349	75193	642	13.4	116	115	5.05	.94	.79	1.12	9.08	8.70	D
77	0439	1060.8	36.1	1.70	1.70	101	16.0	2340	1047.8	8.94	9.43	761	0	27.7	33.1	350	75250	642	13.4	142	115	5.05	.91	.76	1.12	9.08	8.70	D
78	0439	1061.0	27.6	1.62	1.62	101	16.1	2340	1048.0	8.89	9.48	761	0	27.4	33.3	353	75297	643	13.4	148	115	5.05	.97	.82	1.12	9.08	8.70	D
79	0440	1061.3	35.4	1.59	1.59	101	14.5	2340	1048.3	8.89	9.48	761	0	27.4	33.3	354	75345	643	13.4	128	115	5.05	.89	.75	1.12	9.10	8.70	D
80	0440	1062.0	39.2	1.55	1.55	101	15.5	2340	1048.7	8.89	9.48	761	0	27.4	33.3	356	75433	644	13.4	152	115	5.06	.88	.73	1.12	9.10	8.70	D
81	0441	1062.3	26.7	1.73	1.73	101	15.1	2340	1049.1	8.89	9.48	762	0	27.4	33.3	356	75496	644	13.4	179	115	5.06	.96	.82	1.12	9.11	8.70	D
82	0442	1062.6	31.5	1.68	1.68	101	15.6	2340	1049.4	8.87	9.56	762	0	27.3	33.5	358	75557	644	13.4	171	115	5.06	.93	.78	1.12	9.14	8.70	D
83	0442	1062.9	60.1	1.71	1.71	101	16.9	2330	1049.6	8.87	9.56	762	0	27.3	33.5	359	75585	645	13.4	78	115	5.07	.79	.65	1.12	9.14	8.70	D
84	0442	1063.2	31.2	1.68	1.68	101	16.2	2340	1049.8	8.87	9.56	761	0	27.3	33.5	360	75631	645	13.5	160	115	5.07	.94	.79	1.12	9.14	8.70	D
85	0443	1063.5	37.9	1.72	1.72	101	15.6	2340	1050.1	8.87	9.56	762	0	27.3	33.5	360	75676	645	13.5	108	115	5.07	.88	.74	1.12	9.14	8.70	D
86	0443	1063.8	43.1	1.60	1.60	101	17.4	2340	1050.3	8.87	9.56	762	0	27.3	33.5	362	75713	646	13.5	109	115	5.07	.88	.73	1.12	9.14	8.70	D
87	0444	1064.1	39.9	1.67	1.67	101	17.1	2350	1050.5	8.87	9.56	762	0	27.3	33.5	362	75760	646	13.5	150	115	5.07	.89	.74	1.12	9.14	8.70	D
88	0444	1064.4	60.2	1.52	1.52	99	16.0	2350	1050.7	8.87	9.56	762	0	27.3	33.5	363	75783	646	13.5	131	115	5.08	.78	.63	1.12	9.14	8.70	D
89	0445	1064.7	25.6	1.43	1.43	101	13.8	2350	1051.0	8.88	9.05	762	0	27.4	33.8	364	75855	646	13.5	199	115	5.08	.94	.80	1.12	9.17	8.70	D
90	0445	1065.0	30.6	1.79	1.79	100	15.8	2350	1051.2	8.88	9.05	762	0	27.4	33.8	365	75907	647	13.5	148	115	5.08	.93	.79	1.12	9.17	8.70	D
91	0446	1065.3	37.7	1.75	1.75	100	17.9	2350	1051.3	8.88	9.05	762	0	27.4	33.8	366	75954	647	13.5	125	115	5.08	.91	.76	1.12	9.18	8.70	D
92	0446	1065.6	43.1	1.64	1.64	100	17.9	2340	1051.5	8.88	9.05	762	0	27.4	33.8	366	75991	647	13.5	110	115	5.09	.88	.73	1.12	9.18	8.70	D
93	0446	1065.9	53.1	1.58	1.58	101	15.7	2350	1051.6	8.91	8.86	762	0	27.5	34.0	367	76026	648	13.5	109	115	5.09	.81	.66	1.12	9.18	8.70	D
94	0447	1066.2	32.3	1.55	1.55	100	17.0	2340	1051.6	8.91	8.86	762	0	27.5	34.0	368	76077	648	13.5	146	115	5.09	.93	.79	1.12	9.21	8.70	D
95	0447	1066.5	31.7	1.71	1.71	101	16.3	2340	1051.6	8.91	8.86	762	0	27.5	34.0	369	76126	648	13.5	131	115	5.09	.93	.78	1.12	9.21	8.70	D
96	0448	1066.8	23.9	1.65	1.65	100	18.2	2350	1051.6	8.91	8.86	762	0	27.5	34.0	370	76201	649	13.6	205	115	5.10	1.02	.87	1.12	9.21	8.70	D
97	0449	1067.1	29.6	1.62	1.62	101	17.4	2360	1051.6	8.91	8.86	761	0	27.5	34.0	371	76270	649	13.6	172	115	5.10	.96	.81	1.12	9.22	8.70	D
98	0449	1067.4	61.5	1.73	1.73	101	17.9	2360	1051.6	8.91	8.86	761	0	27.5	34.0	371	76294	649	13.6	181	115	5.10	.79	.64	1.12	9.22	8.70	D
99	0450	1067.7	21.4	1.61	1.61	100	17.6	2320	1051.6	8.92	8.97	760	0	27.6	34.1	372	76384	650	13.6	242	115	5.11	1.03	.88	1.12	9.24	8.70	D
00	0456	1068.0	21.9	1.09	1.09	100	17.5	2380	1052.2	8.99	8.86	761	0	27.7	34.1	395	76391	650	13.6	227	115	5.11	1.07	.93	1.12	9.24	8.70	DX
01	0456	1068.6	36.9	1.93	1.93	102	17.6	2370	1052.4	8.99	8.86	761	0	27.7	34.1	391	76410	650	13.6	81	115	5.11	.91	.75	1.12	9.25	8.70	D†
02	0457	1069.0	57.7	1.80	1.80	101	20.3	2370	1052.6	8.99	8.86	736	0	27.7	34.1	386	76444	651	13.6	97	115	5.11	.83	.68	1.12	9.26	8.70	D
03	0457	1069.3	25.6	1.61	1.61	101	16.1	2370	1053.0	8.99	8.82	757	0	28.0	33.9	377	76516	651	13.6	197	115	5.11	.97	.82	1.12	9.26	8.70	D
04	0458	1069.6	25.0	1.75	1.75	100	18.9	2380	1053.5	8.99	8.82	760	0	28.0	33.9	367	76579	651	13.6	181	115	5.11	1.01	.86	1.12	9.27	8.70	D
05	0459	1070.2	27.6	1.66	1.66	100	15.9	2380	1054.2	8.99	8.82	761	0	28.0	33.9	366	76691	652	13.6	169	115	5.12	.95	.80	1.12	9.27	8.70	D
06	0459	1070.5	32.9	1.58	1.58	100	15.7	2380	1054.6	9.00	8.86	761	0	27.8	33.9	367	76737	652	13.6	188	115	5.12	.90	.76	1.12	9.27	8.70	D
07	0500	1070.8	33.7	1.64	1.64	101	15.0	2380	1054.8	9.00	8.86	761	0	27.8	33.9	367	76779	653	13.6	108	115	5.12	.89	.75	1.12	9.27	8.70	D
08	0500	1071.1	34.1	1.56	1.56	101	15.5	2380	1055.1	9.00	8.86	761	0	27.8	33.9	368	76834	653	13.7	141	115	5.13	.89	.75	1.12	9.27	8.70	D
09	0501	1071.4	36.9	1.66	1.66	102	15.4	2360	1055.4	9.00	8.86	761	0	27.8	33.9	368	76880	653	13.7	119	115	5.13	.88	.73	1.12	9.27	8.70	D
10	0502	1071.7	26.2	1.57	1.57	101	16.6	2360	1055.8	9.00	8.86	759	0	27.8	33.9	370	76954	653	13.7	207	115	5.13	.97	.82	1.12	9.27	8.70	D
11	0502	1072.0	40.5	1.73	1.73	101	18.0	2380	1056.1	9.00	8.86	759	0	27.8	33.9	371	77001	654	13.7	188	115	5.14	.89	.74	1.12	9.27	8.70	D
12	0503	1072.3	26.5	1.64	1.64	100	18.2	2380	1056.5	8.97	8.88	759	0	27.8	34.3	372	77058	654	13.7	154	115	5.14	.99	.84	1.12	9.27	8.70	D
13	0503	1072.6	31.0	1.66	1.66	101	15.9	2370	1056.9	8.97	8.88	760	0	27.8	34.3	372	77116	654	13.7	153	115	5.14	.92	.78	1.12	9.27	8.70	D
14	0504	1072.9	24.5	1.62	1.62	100	18.2	2380	1057.3	8.97	8.88	760	0	27.8	34.3	373	77187	655	13.7	202	115	5.15	1.00	.85	1.12	9.27	8.70	D
15	0504	1073.2	39.0	1.67	1.67	100	17.8	2380	1057.6	8.97	8.88	759	0	27.8	34.3	374	77232	655	13.7	238	115	5.15	.89	.74	1.13	9.27	8.70	D
16	0505	1073.5	24.8	1.55	1.55	100	17.1	2370	1058.0	9.00	8.82	760	0	27.9	34.4	374	77300	655	13.7	176	115	5.15	.99	.84	1.13	9.26	8.70	D
17	0506	1073.8	20.5	1.70	1.70	100	17.0	2380	1058.4	9.00	8.82	759	0	27.9	34.4	375	77360	656	13.7	180	115	5.16	1.03	.88	1.13	9.25	8.70	D
18	0506	1074.1	34.5	1.58	1.58	99	17.2	2380	1058.7	9.00	8.82	760	0	27.9	34.4	377	77415	656	13.8	157	115	5.16	.91	.75	1.13	9.25	8.70	D
19	0507	1074.4	18.3	1.70	1.70	101	15.7	2390	1059.1	9.00	8.82	760	0	27.9	34.4	376	77478	656	13.8	186	115	5.16	1.03	.89	1.13	9.25	8.70	D

329103

AMOCO AUST. Tilana No.1 Data Printed at time 14:31 Date Sep 21'85 Data Recorded at time 05:38 Date Sep 21'85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MK	MKB	ECD	EST PP	
0	0508	1074.7	17.9	1.57	1.57	101	15.9	2390	1059.7	9.05	8.69	760	0	28.0	34.5	377	77579	657	13.8	246	115	5.17	1.05	.90	1.13	9.25	8.70	D
1	0508	1075.0	111	1.75	1.75	101	17.8	2390	1059.7	9.05	8.69	760	0	28.0	34.5	377	77596	657	13.8	54	115	5.17	.65	.50	1.13	9.25	8.70	D
2	0509	1075.3	30.9	1.58	1.58	101	15.9	2390	1060.1	9.05	8.69	761	0	28.0	34.5	377	77652	657	13.8	152	115	5.17	.92	.78	1.13	9.25	8.70	D
3	0509	1075.7	26.9	1.56	1.56	100	17.3	2390	1060.5	9.05	8.69	760	0	28.0	34.5	379	77722	657	13.8	134	116	5.17	.97	.82	1.13	9.25	8.70	D
4	0510	1076.0	27.8	1.46	1.46	101	15.0	2380	1060.8	9.05	8.69	760	0	28.0	34.5	379	77784	658	13.8	162	116	5.18	.93	.79	1.13	9.25	8.70	D
5	0510	1076.3	44.6	1.61	1.61	101	16.3	2390	1061.1	9.05	8.69	760	0	28.0	34.5	379	77827	658	13.9	96	116	5.18	.85	.70	1.13	9.25	8.70	D
6	0511	1076.6	26.4	1.72	1.72	102	14.8	2350	1061.3	9.06	8.79	760	0	28.1	34.4	380	77883	658	13.9	131	116	5.18	.95	.80	1.13	9.24	8.70	D
7	0511	1076.9	30.0	1.52	1.52	99	14.4	2350	1061.5	9.06	8.79	756	0	28.1	34.4	380	77935	659	13.8	156	116	5.18	.91	.76	1.13	9.24	8.70	D
8	0517	1077.8	35.7	1.78	1.78	104	14.8	2390	1062.2	9.07	8.81	756	0	28.2	34.3	409	77964	660	13.8	97	115	5.18	.92	.78	1.13	9.22	8.70	DT
9	0513	1078.2	31.2	1.70	1.70	103	17.9	2390	1062.2	9.07	8.81	750	0	28.2	34.3	409	78032	660	13.9	156	115	5.19	.95	.80	1.13	9.24	8.70	D
0	0519	1078.5	27.7	1.72	1.72	103	15.8	2390	1062.3	9.04	8.78	756	0	28.4	34.0	407	78096	660	13.9	198	115	5.19	.95	.81	1.13	9.24	8.70	D
1	0519	1079.0	37.6	1.71	1.71	102	18.3	2400	1062.7	9.04	8.78	756	0	28.4	34.0	406	78167	661	13.9	112	115	5.20	.91	.76	1.13	9.24	8.70	D
2	0520	1079.4	26.7	1.64	1.64	102	17.1	2400	1063.1	9.04	8.78	756	0	28.4	34.0	403	78246	661	13.9	210	116	5.20	.98	.83	1.13	9.24	8.70	D
3	0521	1079.6	22.6	1.71	1.71	102	18.3	2390	1063.4	9.04	8.78	756	0	28.4	34.0	403	78304	661	13.9	169	116	5.20	1.03	.88	1.13	9.24	8.70	D
4	0521	1079.9	48.0	1.83	1.83	102	17.3	2400	1063.6	9.04	8.78	756	0	28.4	34.0	402	78343	662	13.9	142	116	5.20	.85	.70	1.13	9.24	8.70	D
5	0522	1080.3	34.1	1.87	1.87	101	18.0	2400	1063.9	9.02	8.79	757	0	28.4	33.9	401	78401	662	13.9	154	116	5.21	.93	.78	1.13	9.23	8.70	D
6	0522	1080.5	27.7	1.75	1.75	102	19.3	2400	1064.3	9.02	8.79	758	0	28.4	33.9	400	78457	662	13.9	173	116	5.21	1.00	.84	1.13	9.23	8.70	D
7	0523	1080.3	34.2	1.74	1.74	104	16.9	2400	1064.6	9.02	8.79	758	0	28.4	33.9	397	78509	663	13.9	138	116	5.21	.92	.77	1.13	9.23	8.70	D
8	0523	1081.1	70.2	1.70	1.70	104	19.1	2400	1064.7	9.02	8.79	758	0	28.4	33.9	398	78530	663	13.9	100	116	5.21	.73	.63	1.13	9.23	8.70	D
9	0524	1081.4	24.2	1.75	1.75	102	18.2	2390	1065.2	9.02	8.79	758	0	28.4	33.9	397	78598	663	13.9	178	116	5.22	1.02	.86	1.13	9.23	8.70	D
0	0524	1081.8	46.2	1.79	1.79	102	17.5	2400	1065.4	9.02	8.49	753	0	28.4	34.1	396	78641	664	14.0	139	116	5.22	.86	.71	1.13	9.23	8.70	D
1	0524	1082.1	45.6	1.81	1.81	102	18.9	2400	1065.7	9.02	8.49	758	0	28.4	34.1	395	78678	664	14.0	109	116	5.22	.88	.72	1.13	9.22	8.70	D
2	0525	1082.3	45.6	1.63	1.63	103	16.2	2390	1065.9	9.02	8.49	753	0	28.4	34.1	396	78717	664	14.0	142	116	5.23	.85	.70	1.13	9.22	8.70	D
3	0526	1082.7	19.4	1.79	1.79	102	13.0	2380	1066.4	9.02	8.49	757	0	28.4	34.1	395	78802	664	14.0	220	116	5.23	1.37	.91	1.13	9.22	8.70	D
4	0526	1083.0	42.2	1.68	1.68	103	13.5	2390	1066.7	9.04	8.55	756	0	28.4	34.2	395	78844	665	14.0	111	116	5.23	.89	.74	1.13	9.21	8.70	D
5	0526	1083.3	34.0	1.64	1.64	103	16.3	2390	1067.0	9.04	8.55	757	0	28.4	34.2	395	78889	665	14.0	127	116	5.23	.92	.77	1.13	9.21	8.70	D
6	0527	1083.6	42.5	1.74	1.74	102	17.8	2380	1067.3	9.04	8.55	757	0	28.4	34.2	394	78936	665	14.0	133	116	5.24	.88	.73	1.13	9.21	8.70	D
7	0527	1083.9	29.7	1.69	1.69	102	16.0	2380	1067.6	9.04	8.55	757	0	28.4	34.2	394	78979	666	14.0	125	116	5.24	.94	.79	1.13	9.21	8.70	D
8	0528	1084.2	72.2	1.84	1.84	103	18.9	2380	1067.7	9.04	8.55	756	0	28.4	34.2	393	79006	666	14.0	69	116	5.24	.77	.62	1.13	9.21	8.70	D
9	0528	1084.5	54.5	1.61	1.61	102	19.6	2390	1068.3	9.04	8.55	756	0	28.4	34.2	393	79037	666	14.0	79	116	5.24	.84	.69	1.13	9.21	8.70	D
0	0529	1084.8	18.2	1.66	1.66	102	16.7	2390	1068.4	9.04	8.55	757	0	28.4	34.2	393	79138	667	14.0	200	116	5.24	1.36	.91	1.13	9.21	8.70	D
1	0529	1085.2	71.6	1.42	1.42	103	13.9	2390	1068.6	9.00	8.51	757	0	28.5	34.2	393	79143	667	14.0	54	116	5.25	.72	.57	1.13	9.19	8.70	D
2	0530	1085.7	34.7	1.66	1.66	102	16.0	2350	1069.2	9.00	8.51	757	0	28.5	34.2	392	79230	668	14.1	119	116	5.25	.91	.76	1.13	9.19	8.70	D
3	0538	1086.0	26.4	1.09	1.09	101	16.9	2370	1071.4	8.99	8.58	632	0	28.6	34.4	429	79234	668	14.1	179	116	5.25	.99	.84	1.13	9.12	8.70	DX
4	0538	1086.9	104	1.93	1.93	105	16.0	2360	1071.4	8.99	8.58	699	0	28.6	34.4	429	79306	669	14.1	108	116	5.25	.67	.52	1.13	9.14	8.70	DT
5	0539	1087.2	58.5	1.81	1.81	103	21.6	2370	1071.5	8.99	8.58	730	0	28.6	34.4	427	79339	669	14.1	85	116	5.26	.86	.69	1.13	9.15	8.70	D
6	0539	1087.5	31.4	1.78	1.78	103	17.7	2380	1071.6	8.36	8.88	747	0	29.0	34.0	427	79389	669	14.1	159	116	5.26	.96	.81	1.13	9.15	8.70	D
7	0539	1087.9	55.1	1.76	1.76	104	18.2	2370	1071.8	8.36	8.38	752	0	29.0	34.0	426	79432	670	14.1	107	116	5.26	.34	.63	1.13	9.15	8.70	D
8	0540	1088.2	33.7	1.71	1.71	104	19.2	2370	1072.1	8.36	8.38	753	0	29.0	34.0	425	79475	670	14.1	117	116	5.26	.96	.81	1.13	9.15	8.70	D
9	0540	1088.4	45.1	1.67	1.67	104	16.6	2360	1072.3	8.36	8.38	753	0	29.0	34.0	424	79510	670	14.1	116	116	5.27	.86	.71	1.13	9.15	8.70	D
0	0541	1088.8	60.3	1.88	1.88	102	18.6	2360	1072.5	8.36	8.38	754	0	29.0	34.0	424	79542	671	14.1	112	116	5.27	.81	.66	1.13	9.15	8.70	D
1	0541	1089.1	49.6	1.79	1.79	101	21.0	2370	1072.7	8.36	8.38	753	0	29.0	34.0	422	79577	671	14.1	95	116	5.27	.89	.72	1.13	9.15	8.70	D
2	0541	1089.4	45.6	1.71	1.71	104	18.5	2360	1072.9	8.36	8.38	753	0	29.0	34.0	422	79614	671	14.1	104	116	5.27	.88	.73	1.14	9.15	8.70	D
3	0542	1089.7	36.5	1.76	1.76	104	18.0	2370	1073.1	8.30	8.97	753	0	29.0	33.7	421	79659	671	14.1	142	116	5.27	.93	.77	1.14	9.15	8.70	D
4	0542	1090.0	27.2	1.81	1.81	103	17.7	2370	1073.4	8.30	8.97	754	0	29.0	33.7	419	79713	672	14.1	164	116	5.28	.99	.84	1.14	9.15	8.70	D
5	0543	1090.3	36.5	1.73	1.73	104	18.2	2370	1073.7	8.30	8.97	754	0	29.0	33.7	419	79766	672	14.1	143	116	5.28	.93	.78	1.14	9.15	8.70	D
6	0543	1090.6	42.7	1.90	1.90	103	16.6	2360	1073.9	8.30	8.97	754	0	29.0	33.7	418	79804	672	14.1	107	116	5.28	.87	.72	1.14	9.15	8.70	D
7	0543	1090.9	59.2	1.95	1.95	103	20.8	2360	1074.1	8.30	8.97	754	0	29.0	33.7	417	79836	673	14.1	103	116	5.28	.84	.68	1.14	9.15	8.70	D
8	0544	1091.2	41.2	1.93	1.93	102	22.4	2350	1074.3	8.30	8.97	755	0	29.0	33.7	416	79876	673	14.2	119	116	5.29	.95	.78	1.14	9.15	8.70	D
9	0544	1091.5	67.7	1.92	1.92	102	23.2	2350	1074.4	8.30	8.97	755	0	29.0	33.7	416	79899	673	14.2	99	116	5.29	.83	.67	1.14	9.15	8.70	D

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	MX	MXB	ECD	EST PM PR	
70	0544	1091.8	47.5	1.93	1.93	103	21.2	2350	1074.6	8.80	9.09	754	0	29.0	33.8	415	79939	674	14.2	98	116	5.29	.90	.74	1.14	9.15	8.70	D
71	0545	1092.1	42.3	1.85	1.85	102	21.2	2350	1074.3	8.80	9.09	753	0	29.0	33.8	414	79976	674	14.2	102	116	5.29	.93	.76	1.14	9.15	8.70	D
72	0545	1092.4	72.2	2.02	2.02	103	22.4	2360	1075.0	8.80	9.09	753	0	29.0	33.8	415	80004	674	14.2	109	116	5.29	.81	.65	1.14	9.15	8.70	D
73	0545	1092.7	42.2	1.94	1.94	102	21.7	2360	1075.2	8.80	9.09	753	0	29.0	33.8	413	80038	675	14.2	86	115	5.29	.94	.77	1.14	9.15	8.70	D
74	0546	1093.0	47.4	1.86	1.86	103	20.1	2370	1075.3	8.80	9.09	754	0	29.0	33.8	413	80072	675	14.2	91	115	5.30	.89	.73	1.14	9.15	8.70	D
75	0546	1093.3	25.3	1.83	1.83	102	20.7	2360	1075.7	8.80	9.09	754	0	29.0	33.8	412	80139	675	14.2	178	116	5.30	1.04	.88	1.14	9.15	8.70	D
76	0547	1093.7	37.6	1.93	1.93	103	21.8	2360	1076.0	8.78	8.95	755	0	29.0	34.1	411	80195	675	14.2	156	116	5.30	.97	.80	1.14	9.16	8.70	D
77	0547	1094.0	53.4	1.85	1.85	103	20.1	2360	1076.1	8.78	8.95	755	0	29.0	34.1	410	80231	676	14.2	86	116	5.31	.86	.70	1.14	9.16	8.70	D
78	0548	1094.2	28.0	2.07	2.07	102	20.8	2360	1076.4	8.78	8.95	755	0	29.0	34.1	410	80278	676	14.2	138	116	5.31	1.02	.86	1.14	9.16	8.70	D
79	0548	1094.5	30.3	1.77	1.77	103	21.5	2310	1076.6	8.78	8.95	754	0	29.0	34.1	409	80337	676	14.2	167	116	5.31	1.02	.85	1.14	9.16	8.70	D
80	0549	1094.9	32.4	1.82	1.82	101	19.7	2320	1076.9	8.78	8.92	751	0	29.0	34.2	409	80381	677	14.2	154	116	5.31	.97	.81	1.14	9.16	8.70	D
81	0556	1095.3	31.4	1.89	1.92	101	18.4	2400	1078.3	8.78	8.97	751	0	29.0	34.2	424	80446	677	14.2	211	116	5.32	.97	.81	1.14	9.15	8.70	DX
82	0557	1095.8	29.3	1.97	1.97	91	21.0	2390	1079.0	8.75	9.09	755	0	29.2	34.0	417	80480	678	14.3	56	116	5.32	1.03	.85	1.14	9.16	8.70	D
83	0558	1096.1	25.6	1.74	1.74	100	19.6	2410	1079.4	8.75	9.09	755	0	29.2	34.0	407	80553	678	14.3	198	116	5.32	1.02	.86	1.14	9.17	8.70	D
84	0558	1096.4	35.1	1.76	1.76	99	18.4	2410	1079.7	8.75	9.09	758	0	29.2	34.0	401	80598	678	14.3	193	116	5.33	.93	.77	1.14	9.17	8.70	D
85	0559	1096.7	28.5	1.65	1.65	98	16.4	2420	1080.0	8.75	9.09	759	0	29.2	34.0	400	80659	678	14.3	183	116	5.33	.95	.80	1.14	9.17	8.70	D
86	0559	1097.0	63.3	1.83	1.83	100	21.0	2410	1080.2	8.75	9.09	759	0	29.2	34.0	401	80683	679	14.3	139	116	5.33	.80	.64	1.14	9.17	8.70	D
87	0559	1097.3	41.2	1.85	1.85	99	21.8	2420	1080.3	8.76	9.32	759	0	29.1	33.8	400	80721	679	14.3	107	116	5.33	.93	.77	1.14	9.17	8.70	D
88	0600	1097.6	43.0	1.84	1.84	98	18.9	2410	1080.4	8.76	9.32	759	0	29.1	33.8	400	80764	679	14.3	175	116	5.34	.89	.73	1.14	9.18	8.70	D
89	0600	1098.0	35.9	1.76	1.76	99	19.7	2410	1080.4	8.76	9.32	759	0	29.1	33.8	399	80825	680	14.3	155	116	5.34	.94	.78	1.14	9.18	8.70	D
90	0601	1098.2	20.7	1.82	1.82	100	17.4	2400	1080.5	8.76	9.32	758	0	29.1	33.8	399	80890	680	14.3	195	116	5.34	1.04	.89	1.14	9.18	8.70	D
91	0601	1098.5	45.1	1.82	1.82	98	20.0	2400	1080.6	8.76	9.32	758	0	29.1	33.8	400	80925	680	14.3	109	116	5.34	.89	.73	1.14	9.18	8.70	D
92	0602	1098.8	31.3	1.80	1.80	98	19.0	2410	1080.8	8.76	9.31	758	0	29.0	33.8	399	80974	681	14.3	153	116	5.35	.96	.80	1.14	9.19	8.70	D
93	0603	1099.1	25.1	1.72	1.72	98	20.0	2410	1081.2	8.76	9.31	758	0	29.0	33.8	399	81050	681	14.4	131	116	5.35	1.03	.87	1.14	9.19	8.70	D
94	0603	1099.4	27.8	1.81	1.81	99	19.6	2400	1081.5	8.76	9.31	759	0	29.0	33.8	399	81111	681	14.4	200	116	5.35	1.00	.84	1.14	9.19	8.70	D
95	0604	1099.7	51.4	1.79	1.79	99	17.1	2400	1081.7	8.76	9.31	759	0	29.0	33.8	397	81147	682	14.4	104	116	5.35	.82	.67	1.14	9.19	8.70	D
96	0604	1100.1	33.7	1.76	1.76	98	19.0	2400	1081.9	8.76	9.31	758	0	29.0	33.8	397	81189	682	14.4	140	116	5.36	.94	.79	1.14	9.19	8.70	D
97	0605	1100.7	38.7	1.78	1.78	98	19.4	2400	1082.4	8.73	9.26	758	0	28.9	33.8	396	81269	682	14.4	109	116	5.36	.91	.76	1.14	9.20	8.70	D
98	0605	1101.0	52.7	1.86	1.86	99	19.1	2400	1082.6	8.73	9.26	758	0	28.9	33.8	397	81302	683	14.4	134	116	5.36	.84	.68	1.14	9.20	8.70	D
99	0606	1101.3	22.2	1.75	1.75	98	20.5	2400	1083.0	8.73	9.26	759	0	28.9	33.8	397	81364	683	14.4	191	116	5.37	1.06	.90	1.14	9.20	8.70	D
00	0606	1101.6	53.9	1.88	1.88	98	18.2	2400	1083.2	8.73	9.26	759	0	28.9	33.8	396	81405	683	14.4	141	116	5.37	.82	.67	1.14	9.21	8.70	D
01	0607	1102.2	39.0	1.90	1.90	98	19.6	2390	1083.7	8.77	9.09	753	0	29.0	34.0	396	81481	684	14.4	108	116	5.37	.91	.75	1.14	9.21	8.70	D
02	0607	1102.5	60.5	1.92	1.92	98	19.6	2400	1083.8	8.77	9.09	758	0	29.0	34.0	395	81504	684	14.4	84	116	5.38	.81	.65	1.14	9.21	8.70	D
03	0608	1102.8	46.7	1.84	1.84	100	18.4	2400	1084.2	8.77	9.09	758	0	29.0	34.0	396	81543	685	14.4	158	116	5.38	.86	.70	1.14	9.21	8.70	D
04	0608	1103.1	29.6	1.78	1.78	100	17.5	2400	1084.5	8.77	9.09	759	0	29.0	34.0	397	81602	685	14.4	145	116	5.38	.96	.80	1.14	9.21	8.70	D
05	0609	1103.7	38.7	1.96	1.96	98	23.3	2400	1084.9	8.77	9.09	758	0	29.0	34.0	396	81678	685	14.5	107	116	5.38	.92	.76	1.14	9.21	8.70	D
06	0609	1104.0	47.3	1.84	1.84	99	18.5	2410	1085.2	8.75	9.05	757	0	29.0	34.4	397	81715	686	14.5	135	116	5.39	.86	.70	1.14	9.21	8.70	D
07	0610	1104.3	56.0	1.93	1.93	100	19.3	2410	1085.4	8.75	9.05	757	0	29.0	34.4	396	81747	686	14.5	114	116	5.39	.83	.67	1.14	9.22	8.70	D
08	0610	1104.6	35.6	1.80	1.80	100	20.1	2410	1085.7	8.75	9.05	757	0	29.0	34.4	396	81793	686	14.5	139	116	5.39	.95	.78	1.15	9.22	8.70	D
09	0620	1104.9	27.9	1.08	1.08	99	18.9	2420	1089.3	8.72	9.34	756	0	29.1	34.4	442	81816	687	14.5	124	116	5.39	.99	.83	1.15	9.21	8.70	D†
10	0621	1105.5	43.1	1.85	1.85	95	17.9	2430	1089.6	8.72	9.34	761	0	29.1	34.4	440	81846	687	14.5	148	116	5.39	.86	.71	1.15	9.22	8.70	D
11	0621	1105.9	50.4	1.79	1.79	94	19.1	2430	1089.7	8.71	9.32	763	0	29.3	34.2	438	81882	688	14.5	99	116	5.39	.84	.68	1.15	9.22	8.70	D
12	0622	1106.1	27.3	1.66	1.66	95	16.2	2430	1089.7	8.71	9.32	763	0	29.3	34.2	437	81928	688	14.5	158	116	5.40	.94	.79	1.15	9.23	8.70	D
13	0622	1106.4	44.6	1.84	1.84	94	16.9	2420	1089.7	8.71	9.32	763	0	29.3	34.2	435	81964	688	14.5	151	116	5.40	.84	.68	1.15	9.23	8.70	D
14	0623	1106.8	35.8	1.78	1.78	94	19.8	2420	1089.7	8.71	9.32	762	0	29.3	34.2	433	82021	689	14.5	167	116	5.40	.92	.76	1.15	9.23	8.70	D
15	0623	1107.1	30.1	1.78	1.78	94	16.7	2410	1089.7	8.71	9.32	762	0	29.3	34.2	433	82065	689	14.5	121	116	5.40	.93	.77	1.15	9.23	8.70	D
16	0623	1107.4	85.3	1.80	1.80	94	19.2	2420	1089.7	8.71	9.32	762	0	29.3	34.2	431	82084	689	14.5	82	116	5.40	.71	.55	1.15	9.23	8.70	D
17	0624	1107.7	45.8	1.86	1.86	94	19.1	2420	1089.7	8.71	9.32	762	0	29.3	34.2	430	82120	689	14.5	92	116	5.40	.86	.70	1.15	9.24	8.70	D
18	0624	1108.0	23.7	1.84	1.84	94	18.8	2410	1090.1	8.65	9.21	763	0	29.2	34.3	429	82181	690	14.5	176	116	5.41	1.01	.85	1.15	9.24	8.70	D
19	0624	1108.3	129	1.72	1.72	93	19.8	2420	1090.2	8.65	9.21	763	0	29.2	34.3	428	82195	690	14.5	117	116	5.41	.62	.46	1.15	9.24	8.70	D

329105

MOCO AUST. Tilana No.1

Data Printed at time 14:39 Date Oct 9 '85
Data Recorded at time 06:25 Date Sep 11 '35

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR	
0	3625	1108.6	21.5	1.79	1.79	94	19.5	2410	1090.7	8.65	9.21	763	0	29.2	34.3	426	82256	690	14.6	178	116	5.41	1.04	.88	1.15	9.24	8.70	D
1	3626	1108.9	38.0	1.73	1.73	97	20.2	2430	1091.0	8.65	9.21	763	0	29.2	34.3	425	82295	691	14.6	149	116	5.41	.92	.76	1.15	9.24	8.70	D
2	3626	1109.2	44.3	1.74	1.74	101	17.4	2430	1091.3	8.65	9.21	764	0	29.2	34.3	424	82338	691	14.6	111	116	5.42	.86	.70	1.15	9.24	8.70	D
3	3626	1109.5	30.2	1.89	1.89	101	19.4	2440	1091.7	8.65	9.21	765	0	29.2	34.3	422	82386	691	14.6	147	116	5.42	.99	.82	1.15	9.24	8.70	D
4	3627	1109.8	54.8	1.76	1.76	101	19.6	2430	1092.0	8.65	9.29	765	0	29.2	34.2	422	82420	692	14.6	87	116	5.42	.84	.68	1.15	9.23	8.70	D
5	3627	1110.1	67.7	1.87	1.87	99	18.2	2430	1092.2	8.65	9.29	765	0	29.2	34.2	421	82443	692	14.6	99	116	5.42	.77	.61	1.15	9.23	8.70	D
6	3627	1110.4	52.7	1.81	1.81	100	20.1	2430	1092.4	8.65	9.29	764	0	29.2	34.2	420	82477	692	14.6	90	116	5.42	.85	.69	1.15	9.24	8.70	D
7	3628	1110.7	38.5	2.03	2.03	100	20.4	2430	1092.8	8.65	9.29	764	0	29.2	34.2	420	82520	692	14.6	119	116	5.42	.93	.77	1.15	9.24	8.70	D
8	3628	1111.0	63.3	2.00	2.00	100	22.1	2440	1093.0	8.65	9.29	764	0	29.2	34.2	419	82542	693	14.6	62	116	5.43	.83	.66	1.15	9.24	8.70	D
9	3629	1111.3	34.0	1.93	1.93	100	19.4	2440	1093.4	8.65	9.29	764	0	29.2	34.2	418	82599	693	14.6	143	116	5.43	.95	.79	1.15	9.24	8.70	D
10	3629	1111.6	61.5	1.98	1.98	100	20.0	2440	1093.6	8.65	9.29	764	0	29.2	34.2	417	82618	693	14.6	85	116	5.43	.81	.65	1.15	9.24	8.70	D
11	3629	1112.0	45.8	1.96	1.96	100	21.0	2430	1093.9	8.61	9.20	764	0	29.1	34.5	417	82657	694	14.6	133	116	5.43	.89	.73	1.15	9.24	8.70	D
12	3630	1112.2	36.1	1.94	1.94	100	20.0	2440	1094.2	8.61	9.20	765	0	29.1	34.5	416	82695	694	14.6	112	116	5.44	.94	.78	1.15	9.22	8.70	D
13	3630	1112.5	35.2	1.89	1.89	100	19.3	2440	1094.6	8.61	9.20	764	0	29.1	34.5	414	82747	694	14.6	132	116	5.44	.94	.78	1.15	9.22	8.70	D
14	3630	1112.8	63.6	1.87	1.87	100	18.9	2440	1094.9	8.61	9.20	764	0	29.1	34.5	414	82775	695	14.6	111	116	5.44	.80	.63	1.15	9.22	8.70	D
15	3631	1113.1	35.1	2.05	2.05	101	16.9	2440	1095.2	8.61	9.20	764	0	29.1	34.5	414	82820	695	14.7	130	116	5.44	.91	.75	1.15	9.22	8.70	D
16	3631	1113.5	70.3	1.94	1.94	101	21.5	2440	1095.4	8.61	9.20	764	0	29.1	34.5	413	82846	695	14.7	65	116	5.44	.80	.63	1.15	9.22	8.70	D
17	3641	1113.9	37.3	2.34	2.42	101	19.5	2260	1098.7	8.57	9.03	764	0	28.9	34.3	454	82871	696	14.7	102	116	5.44	.93	.77	1.15	9.16	8.70	DX
19	3642	1115.0	47.4	1.70	1.70	67	20.4	2480	1099.0	8.56	9.04	746	0	28.9	34.4	449	82915	697	14.7	99	115	5.45	.79	.63	1.15	9.15	8.70	D
20	3642	1115.3	40.9	1.74	1.74	67	18.4	2480	1099.0	8.56	9.04	757	0	28.9	34.4	448	82939	697	14.7	96	115	5.45	.81	.65	1.15	9.15	8.70	D
21	3643	1115.6	27.1	1.74	1.74	66	21.0	2490	1099.2	8.56	9.04	766	0	28.9	34.4	447	82978	697	14.7	171	115	5.45	.93	.77	1.15	9.16	8.70	D
22	3643	1115.9	41.9	2.19	2.19	70	20.0	2470	1099.3	8.56	9.04	768	0	28.9	34.4	445	83008	698	14.7	121	115	5.45	.82	.67	1.15	9.16	8.70	D
23	3644	1116.2	31.5	1.95	1.95	100	19.3	2480	1099.3	8.56	9.04	768	0	28.9	34.4	444	83025	698	14.7	66	115	5.45	.74	.58	1.15	9.16	8.70	D
24	3644	1116.5	39.4	2.21	2.21	101	21.8	2490	1099.5	8.55	9.28	769	0	29.0	34.5	444	83079	698	14.7	147	115	5.45	.95	.78	1.15	9.14	8.70	D
25	3644	1116.8	41.3	2.03	2.03	101	20.4	2490	1099.7	8.55	9.28	768	0	29.0	34.5	441	83116	699	14.7	105	115	5.46	.92	.76	1.15	9.14	8.70	D
26	3645	1117.1	42.1	2.06	2.06	101	22.7	2480	1099.9	8.55	9.28	768	0	29.0	34.5	441	83158	699	14.7	136	115	5.46	.94	.77	1.15	9.15	8.70	D
27	3645	1117.4	41.6	1.94	1.94	100	20.1	2480	1100.2	8.55	9.28	769	0	29.0	34.5	438	83190	699	14.7	94	115	5.46	.92	.75	1.15	9.15	8.70	D
28	3646	1117.7	61.6	2.03	2.03	101	19.2	2480	1100.4	8.55	9.28	769	0	29.0	34.5	439	83222	699	14.7	110	115	5.46	.81	.65	1.15	9.15	8.70	D
29	3646	1118.1	50.4	2.01	2.01	101	21.7	2480	1100.6	8.55	9.28	769	0	29.0	34.5	437	83261	700	14.7	109	115	5.46	.89	.72	1.15	9.15	8.70	D
30	3646	1118.3	56.6	2.06	2.06	99	21.7	2480	1100.7	8.55	9.28	769	0	29.0	34.5	437	83284	700	14.7	95	115	5.47	.85	.69	1.15	9.15	8.70	D
31	3647	1118.6	30.7	1.93	1.93	100	23.3	2470	1101.1	8.55	9.28	769	0	29.0	34.5	435	83336	700	14.8	137	115	5.47	1.03	.86	1.15	9.15	8.70	D
32	3647	1119.0	39.7	1.96	1.96	101	20.8	2480	1101.4	8.52	9.02	768	0	28.9	34.5	434	83383	701	14.8	198	115	5.47	.94	.77	1.15	9.15	8.70	D
33	3648	1119.3	50.4	1.95	1.95	101	22.1	2480	1101.6	8.52	9.02	769	0	28.9	34.5	433	83426	701	14.8	123	115	5.47	.89	.72	1.15	9.13	8.70	D
34	3648	1119.5	27.0	1.78	1.78	101	20.4	2480	1101.8	8.52	9.02	769	0	28.9	34.5	432	83472	701	14.8	113	115	5.48	1.03	.86	1.15	9.13	8.70	D
35	3648	1119.8	49.6	1.89	1.89	101	17.9	2480	1102.0	8.52	9.02	769	0	28.9	34.5	431	83509	702	14.8	88	115	5.48	.85	.69	1.16	9.13	8.70	D
36	3649	1120.2	75.2	2.00	2.00	99	21.1	2490	1102.1	8.52	9.02	769	0	28.9	34.5	430	83532	702	14.8	98	115	5.48	.78	.61	1.16	9.13	8.70	D
37	3649	1120.5	32.7	1.95	1.95	101	20.5	2480	1102.4	8.52	9.02	769	0	28.9	34.5	428	83531	702	14.8	136	115	5.48	.98	.81	1.16	9.14	8.70	D
38	3649	1120.8	47.7	2.34	2.34	100	22.0	2490	1102.6	8.52	9.02	768	0	28.9	34.5	423	83613	702	14.8	83	115	5.48	.90	.73	1.16	9.14	8.70	D
39	3650	1121.1	30.1	1.99	1.99	100	21.3	2490	1102.9	8.52	9.02	768	0	28.9	34.5	426	83665	703	14.8	124	115	5.49	1.01	.84	1.16	9.14	8.70	D
40	3650	1121.4	56.2	1.89	1.89	101	21.2	2490	1103.0	8.52	9.02	768	0	28.9	34.5	425	83690	703	14.8	93	115	5.49	.86	.69	1.16	9.14	8.70	D
41	3651	1121.7	29.5	1.80	1.80	101	18.9	2500	1103.3	8.52	8.99	769	0	28.8	34.5	425	83740	703	14.8	134	115	5.49	.99	.83	1.16	9.11	8.70	D
42	3651	1122.0	54.9	1.83	1.83	100	20.6	2490	1103.6	8.52	8.99	769	0	28.8	34.5	424	83772	704	14.8	91	115	5.49	.86	.69	1.16	9.11	8.70	D
43	3651	1122.3	43.7	2.04	2.04	101	20.7	2490	1103.8	8.52	8.99	769	0	28.8	34.5	423	83812	704	14.8	122	115	5.49	.92	.75	1.16	9.11	8.70	D
44	3652	1122.6	31.9	1.81	1.81	101	19.3	2490	1104.2	8.52	8.99	769	0	28.8	34.5	421	83871	704	14.8	140	115	5.50	.98	.81	1.16	9.11	8.70	D
45	3652	1122.9	42.1	1.73	1.73	101	18.1	2500	1104.5	8.52	8.99	770	0	28.8	34.5	421	83913	705	14.8	115	115	5.50	.89	.73	1.16	9.11	8.70	D
46	3653	1123.5	54.2	1.63	1.63	101	17.5	2490	1104.9	8.49	9.03	769	0	28.6	34.7	419	83971	705	14.9	69	115	5.50	.83	.67	1.16	9.10	8.70	D
47	3703	1123.8	55.5	1.46	1.46	98	16.4	2380	1105.5	8.50	9.10	758	0	28.6	34.7	447	83980	706	14.9	101	115	5.50	.83	.66	1.16	9.03	8.70	D†
48	3704	1124.7	57.6	1.99	1.99	103	17.0	2460	1106.5	8.50	9.01	749	0	28.7	34.4	443	84033	707	14.9	76	115	5.51	.82	.66	1.16	9.04	8.70	D
49	3705	1125.0	57.7	1.77	1.77	103	18.3	2460	1106.5	8.50	9.01	757	0	28.7	34.4	442	84067	707	14.9	96	115	5.51	.84	.67	1.16	9.03	8.70	D
50	3705	1125.4	38.9	1.67	1.67	102	15.4	2450	1106.5	8.50	9.01	762	0	28.7	34.4	439	84120	707	14.9	126	115	5.51	.89	.73	1.16	9.03	8.70	D

EKLOG

AMOCO AUST. Tilana No.1 329106 38

Data Printed at time 14:13 Date Oct 9 '85
Data Recorded at time 07:06 Date Sep 11 '85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR	
71	0706	1125.9	31.2	1.54	1.54	102	11.7	2440	1108.5	8.50	9.01	765	0	28.7	34.4	437	84216	708	14.9	175	115	5.51	.38	.73	1.16	9.04	8.70	D
72	0706	1126.2	38.3	1.55	1.55	104	11.2	2460	1108.5	8.50	9.01	768	0	28.7	34.4	435	84236	708	14.9	96	115	5.52	.65	.51	1.16	9.04	8.70	D†
73	0707	1126.6	35.6	1.83	1.83	103	19.6	2470	1108.5	8.50	9.01	765	0	28.7	34.4	436	84293	708	14.9	113	115	5.52	.96	.80	1.16	9.04	8.70	D
74	0707	1126.9	36.5	1.81	1.81	102	13.8	2460	1108.7	8.46	9.05	763	0	28.7	34.4	433	84335	709	14.9	116	115	5.52	.95	.78	1.16	9.03	8.70	D
75	0708	1127.2	37.4	1.69	1.69	103	16.0	2460	1109.0	8.46	9.05	763	0	28.7	34.4	431	84388	709	14.9	138	115	5.53	.91	.75	1.16	9.03	8.70	D
76	0708	1127.5	37.3	1.74	1.74	102	13.7	2460	1109.3	8.46	9.05	763	0	28.7	34.4	430	84429	709	14.9	116	115	5.53	.88	.72	1.16	9.03	8.70	D
77	0709	1127.8	35.0	1.59	1.59	102	12.4	2450	1109.6	8.46	9.05	763	0	28.7	34.4	427	84480	709	14.9	134	115	5.53	.87	.72	1.16	9.03	8.70	D
78	0709	1128.1	33.7	1.89	1.89	102	17.6	2450	1109.8	8.46	9.05	762	0	28.7	34.4	426	84523	710	14.9	120	115	5.53	.95	.79	1.16	9.03	8.70	D
79	0710	1128.4	33.1	1.87	1.87	101	19.5	2450	1110.3	8.45	9.17	762	0	28.5	34.4	425	84580	710	15.0	175	115	5.53	.98	.81	1.16	9.01	8.70	D
80	0710	1128.8	53.5	1.79	1.79	103	19.6	2460	1110.5	8.45	9.17	763	0	28.5	34.4	425	84619	710	15.0	116	115	5.54	.87	.70	1.16	9.01	8.70	D
81	0711	1129.3	43.7	1.94	1.94	101	13.9	2460	1111.0	8.45	9.17	762	0	28.5	34.4	423	84684	711	15.0	65	115	5.54	.91	.74	1.16	9.01	8.70	D
82	0711	1129.6	35.0	1.74	1.74	102	17.9	2460	1111.3	8.45	9.17	762	0	28.5	34.4	421	84735	711	15.0	126	115	5.54	.95	.78	1.16	9.01	8.70	D
83	0712	1129.9	45.4	1.64	1.64	102	15.8	2460	1111.5	8.45	9.17	763	0	28.5	34.4	420	84771	712	15.0	92	115	5.54	.86	.70	1.16	9.01	8.70	D
84	0713	1130.2	17.8	1.77	1.77	101	17.0	2460	1112.4	8.42	9.13	763	0	28.3	34.4	417	84881	712	15.0	309	115	5.55	1.10	.93	1.16	8.99	8.70	D
85	0713	1130.5	71.4	1.69	1.69	101	14.8	2450	1112.5	8.42	9.18	763	0	28.3	34.4	416	84903	712	15.0	128	115	5.55	.74	.58	1.16	8.99	8.70	D
86	0713	1130.8	28.5	1.97	1.97	103	19.0	2410	1113.1	8.42	9.18	763	0	28.3	34.4	414	84967	713	15.0	169	115	5.55	1.02	.85	1.16	8.99	8.70	D
87	0714	1131.2	63.3	1.80	1.80	102	13.3	2460	1113.3	8.42	9.18	762	0	28.3	34.4	414	84999	713	15.0	102	115	5.56	.82	.65	1.16	8.99	8.70	D
88	0714	1131.4	39.5	1.89	1.89	101	16.5	2470	1113.6	8.42	9.18	763	0	28.3	34.4	413	85040	713	15.0	112	115	5.56	.90	.74	1.16	8.99	8.70	D
89	0715	1131.7	32.7	1.91	1.91	103	19.6	2450	1114.0	8.41	9.05	763	0	28.2	34.7	412	85086	714	15.0	139	115	5.56	.99	.82	1.16	8.99	8.70	D
90	0715	1132.0	47.4	1.73	1.73	102	17.3	2460	1114.3	8.41	9.05	764	0	28.2	34.7	411	85120	714	15.0	111	115	5.56	.87	.71	1.16	8.97	8.70	D
91	0715	1132.4	47.2	1.67	1.67	102	14.3	2460	1114.6	8.41	9.05	763	0	28.2	34.7	411	85167	714	15.1	96	115	5.56	.84	.68	1.16	8.97	8.70	D
92	0716	1132.6	26.5	1.57	1.57	102	12.3	2460	1115.0	8.41	9.05	763	0	28.2	34.7	410	85218	714	15.1	155	115	5.57	.94	.79	1.16	8.97	8.70	D
93	0716	1133.0	33.2	1.74	1.74	102	15.2	2450	1115.5	8.41	9.05	763	0	28.2	34.7	409	85272	715	15.1	169	115	5.57	.93	.77	1.16	8.97	8.70	D
94	0717	1133.3	21.8	1.63	1.63	101	13.2	2420	1116.1	8.43	9.01	762	0	28.1	34.7	408	85357	715	15.1	202	115	5.57	1.07	.90	1.16	8.96	8.70	D
95	0729	1133.6	69.8	1.62	1.62	93	14.3	2490	1117.4	8.49	9.00	765	0	28.3	34.9	460	85430	715	15.1	149	116	5.53	.73	.57	1.16	8.92	8.70	D†
96	0730	1133.9	43.9	1.76	1.95	92	12.9	2490	1117.7	8.52	9.07	765	0	28.6	34.3	456	85517	716	15.1	139	116	5.58	.81	.66	1.16	8.91	8.70	D
97	0730	1134.3	38.1	1.78	1.78	92	16.0	2470	1118.1	8.52	9.07	767	0	28.6	34.3	453	85572	716	15.1	91	116	5.58	.89	.73	1.16	8.91	8.70	D
98	0731	1134.9	35.1	1.88	1.88	92	13.2	2450	1118.8	8.52	9.07	764	0	28.6	34.3	449	85645	717	15.1	189	116	5.59	.94	.77	1.16	8.90	8.70	D
99	0732	1135.4	44.4	1.68	1.68	91	13.4	2460	1119.3	8.52	9.07	764	0	28.6	34.3	448	85703	717	15.1	141	116	5.59	.88	.71	1.17	8.91	8.70	D
00	0732	1135.7	34.3	1.91	1.91	91	19.8	2460	1119.6	8.52	9.23	764	0	28.7	34.6	446	85747	717	15.2	121	116	5.59	.96	.79	1.17	8.89	8.70	D
01	0733	1136.0	40.9	1.86	1.86	91	13.4	2450	1119.9	8.52	9.23	764	0	28.7	34.6	443	85736	718	15.2	116	116	5.59	.90	.74	1.17	8.89	8.70	D
02	0734	1136.4	13.2	1.70	1.70	91	13.8	2450	1120.9	8.52	9.23	764	0	28.7	34.6	439	85900	718	15.2	241	116	5.60	1.11	.94	1.17	8.89	8.70	D
03	0735	1136.6	16.5	1.74	1.74	91	20.0	2440	1121.5	8.52	9.25	765	0	28.7	34.6	436	85977	718	15.2	270	116	5.60	1.15	.98	1.17	8.88	8.70	D
04	0736	1137.0	14.0	1.86	1.86	91	20.4	2440	1122.6	8.52	9.25	766	0	28.7	34.6	430	86112	719	15.2	364	116	5.61	1.20	1.02	1.16	8.87	8.70	D
05	0737	1137.2	13.1	1.97	1.97	92	19.6	2450	1123.2	8.54	9.25	766	0	28.6	34.7	428	86188	719	15.2	259	116	5.61	1.13	.95	1.16	8.85	8.70	D
06	0738	1137.5	14.3	2.03	2.03	91	21.0	2450	1124.0	8.54	9.25	767	0	28.6	34.7	424	86314	719	15.3	341	116	5.62	1.21	1.03	1.16	8.85	8.70	D
07	0739	1137.8	40.8	2.01	2.01	95	20.9	2460	1124.4	8.54	9.25	766	0	28.6	34.7	423	86354	720	15.3	257	116	5.62	.95	.78	1.16	8.85	8.70	D
08	0739	1138.2	32.8	2.11	2.11	97	19.9	2460	1124.8	8.55	9.17	767	0	28.5	35.0	421	86411	720	15.3	170	116	5.62	1.00	.83	1.16	8.83	8.70	D
09	0740	1138.5	33.1	2.11	2.11	97	20.5	2450	1125.1	8.55	9.17	768	0	28.5	35.0	421	86466	720	15.3	157	116	5.63	1.00	.83	1.17	8.83	8.70	D
10	0740	1138.7	60.3	1.91	1.91	98	20.4	2450	1125.3	8.55	9.17	769	0	28.5	35.0	420	86489	721	15.3	75	116	5.63	.95	.68	1.17	8.83	8.70	D
11	0740	1139.1	90.8	1.81	1.81	97	17.6	2450	1125.5	8.55	9.17	769	0	28.5	35.0	420	86508	721	15.3	50	116	5.63	.72	.55	1.17	8.83	8.70	D
12	0741	1139.4	148	1.92	1.92	96	17.1	2450	1125.6	8.55	9.17	769	0	28.5	35.0	420	86521	721	15.3	23	116	5.63	.60	.43	1.17	8.83	8.70	D
13	0741	1139.6	69.5	2.03	2.03	97	20.3	2450	1125.7	8.55	9.17	769	0	28.5	35.0	419	86537	721	15.3	50	116	5.63	.31	.64	1.17	8.83	8.70	D
14	0741	1140.3	138	1.58	1.58	97	17.4	2450	1125.9	8.55	9.17	769	0	28.5	35.0	420	86558	722	15.3	45	116	5.63	.62	.45	1.17	8.83	8.70	D
15	0741	1140.6	113	1.61	1.61	98	14.0	2450	1126.0	8.55	9.17	769	0	28.5	35.0	419	86573	722	15.3	40	116	5.63	.63	.47	1.17	8.84	8.70	D
16	0741	1141.1	175	1.47	1.47	95	10.7	2460	1126.1	8.55	9.17	769	0	28.5	35.0	419	86587	723	15.3	43	116	5.63	.50	.35	1.17	8.84	8.70	D†
17	0751	1144.2	300	1.41	1.41	97	10.2	2350	1127.1	8.46	9.01	755	0	28.8	34.9	450	86592	726	15.3	56	115	5.63	.25	.22	1.17	8.81	8.70	D†
18	0751	1144.7	285	1.55	1.55	98	10.8	2350	1127.1	8.46	9.01	756	0	28.8	34.9	451	86632	727	15.3	37	115	5.63	.40	.25	1.17	8.31	8.70	D†
19	0752	1145.3	140	1.61	1.61	95	14.6	2340	1127.3	8.46	9.01	757	0	28.8	34.9	450	86622	727	15.3	29	115	5.64	.58	.42	1.17	8.82	8.70	D
20	0752	1145.8	123	1.83	1.83	96	16.7	2360	1127.3	8.46	9.01	757	0	28.8	34.9	448	86645	728	15.3	43	115	5.64	.63	.46	1.17	8.82	8.70	D

AMOCO AUST. Tilana No.1 329107

Data Printed at time 14:19 Date Oct 9 '85
Data Recorded at time 07:53 Date Sep 11 '85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DKC	NX	NXB	ECD	EST FM PR	
2	0753	1148.8	201	1.81	1.81	102	13.9	2350	1127.7	8.46	9.01	758	0	28.8	34.9	444	86723	731	15.3	25	115	5.64	.51	.35	1.17	8.84	8.70	D
3	0753	1149.4	192	1.78	1.78	101	13.6	2340	1127.8	8.46	9.01	758	0	28.8	34.9	444	86742	731	15.3	21	115	5.64	.52	.35	1.17	8.84	8.70	D
4	0757	1150.3	130	1.68	1.68	102	15.9	2350	1130.2	8.37	9.08	758	0	28.6	34.7	438	86752	732	15.3	46	115	5.64	.64	.47	1.17	8.74	8.70	D‡
5	0803	1151.6	107	1.58	1.58	95	13.0	1260	1131.4	8.33	8.98	552	0	28.6	34.8	465	86771	733	15.3	66	114	5.64	.63	.47	1.17	8.78	8.70	D
6	0804	1151.9	55.2	1.42	1.42	94	12.2	1260	1131.5	8.33	8.98	550	0	28.6	34.8	465	86801	734	15.3	92	114	5.64	.77	.61	1.17	8.78	8.70	D
7	0804	1152.2	35.1	1.50	1.50	95	12.5	1260	1131.7	8.33	8.98	549	0	28.6	34.8	463	86844	734	15.3	128	114	5.65	.88	.72	1.17	8.78	8.70	D
8	0804	1152.5	42.9	1.38	1.38	97	9.9	1270	1131.8	8.33	8.98	548	0	28.6	34.8	464	86879	734	15.4	100	114	5.65	.79	.64	1.17	8.78	8.70	D
9	0805	1152.8	61.7	1.24	1.24	97	7.2	1270	1131.9	8.33	8.98	548	0	28.6	34.8	463	86907	735	15.4	116	114	5.65	.67	.53	1.17	8.79	8.70	D
0	0805	1153.1	100	1.42	1.42	99	8.7	1270	1132.0	8.33	8.98	548	0	28.6	34.8	463	86926	735	15.4	44	114	5.65	.60	.45	1.17	8.79	8.70	D
1	0806	1153.4	30.1	1.38	1.38	95	10.6	1260	1132.2	8.33	8.98	548	0	28.6	34.8	462	86982	735	15.4	144	114	5.65	.88	.73	1.17	8.79	8.70	D
2	0806	1154.0	45.8	1.63	1.63	93	15.1	1260	1132.5	8.33	8.98	548	0	28.6	34.8	461	87032	736	15.4	56	114	5.65	.85	.69	1.18	8.79	8.70	D
3	0806	1154.3	105	1.45	1.45	95	11.5	1270	1132.5	8.33	8.98	548	0	28.6	34.8	461	87051	736	15.4	62	114	5.65	.62	.46	1.18	8.79	8.70	D
4	0807	1154.6	22.2	1.42	1.42	96	9.8	1260	1132.8	8.30	8.92	548	0	28.8	34.7	459	87108	736	15.4	167	114	5.66	.93	.78	1.18	8.78	8.70	D
5	0808	1154.9	24.4	1.61	1.61	95	8.4	1260	1133.2	8.30	8.92	548	0	28.8	34.7	460	87178	737	15.4	236	114	5.66	.88	.74	1.18	8.78	8.70	D
6	0808	1155.2	19.5	1.91	1.91	90	13.5	1260	1133.7	8.30	8.92	550	0	28.8	34.7	459	87254	737	15.4	216	114	5.66	1.02	.86	1.18	8.78	8.70	D
7	0809	1155.6	88.3	1.69	1.69	89	16.3	1260	1133.8	8.30	8.92	559	0	28.8	34.7	458	87276	737	15.4	239	114	5.66	.70	.53	1.18	8.78	8.70	D
8	0809	1156.1	82.4	1.45	1.45	92	11.6	1260	1134.0	8.30	8.92	563	0	28.8	34.7	458	87309	738	15.4	38	114	5.67	.67	.51	1.18	8.78	8.70	D
9	0809	1156.4	105	1.41	1.41	96	7.5	1260	1134.1	8.30	8.92	561	0	28.8	34.7	458	87326	738	15.4	47	114	5.67	.57	.43	1.18	8.78	8.70	D
20	0809	1156.8	95.8	1.43	1.43	95	7.9	1260	1134.2	8.30	8.92	557	0	28.8	34.7	458	87343	738	15.4	64	114	5.67	.59	.45	1.18	8.78	8.70	D
21	0810	1157.4	105	1.24	1.24	95	4.5	1270	1134.3	8.30	8.92	554	0	28.8	34.7	457	87365	739	15.4	52	114	5.67	.51	.38	1.18	8.79	8.70	D
[illegible]	0811	1158.1	805	1.08	1.08	95	3.7	2190	1134.7	8.29	8.90	585	0	28.7	34.8	457	87370	739	15.4	12	114	5.67	.14	.01	1.18	8.77	8.70	D†
[illegible]	0812	1158.5	17.4	1.29	1.29	94	7.1	2430	1135.2	8.29	8.90	840	0	28.7	34.8	450	87485	740	15.5	351	114	5.67	.91	.77	1.18	8.79	8.70	FD
[illegible]	0813	1158.9	19.9	1.58	1.58	89	14.8	2420	1135.6	8.27	8.86	899	0	28.6	34.8	445	87594	741	15.5	297	114	5.68	1.03	.87	1.18	8.78	8.70	D
25	0814	1159.2	24.5	1.55	1.55	90	11.5	2430	1135.6	8.27	8.86	969	0	28.6	34.8	442	87658	741	15.5	208	114	5.68	.93	.77	1.18	8.79	8.70	D
26	0814	1159.5	245	1.33	1.33	90	9.0	2430	1135.6	8.27	8.86	985	0	28.6	34.8	443	87664	741	15.5	149	114	5.68	.40	.25	1.18	8.79	8.70	D
32	0820	1159.8	44.5	.87	.87	90	9.7	2370	1136.6	8.24	8.83	685	0	28.4	34.9	456	87698	741	15.5	46	114	5.68	.77	.62	1.18	8.76	8.70	DX
[illegible]	0820	1160.4	184	1.09	1.09	102	3.8	2360	1136.7	8.24	8.88	733	0	28.4	34.9	453	87711	742	15.5	88	114	5.68	.41	.28	1.18	8.77	8.70	D†
[illegible]	0821	1160.8	210	1.09	1.09	98	6.9	2350	1136.8	8.24	8.88	740	0	28.4	34.9	452	87723	742	15.5	44	114	5.68	.43	.29	1.18	8.77	8.70	D
[illegible]	0821	1161.3	90.7	1.26	1.26	97	9.0	2360	1137.0	8.24	8.88	758	0	28.4	34.9	451	87749	743	15.5	59	114	5.68	.62	.48	1.18	8.77	8.70	D
36	0821	1161.6	192	1.12	1.12	95	10.4	2360	1137.1	8.24	8.88	760	0	28.4	34.9	450	87758	743	15.5	58	114	5.68	.48	.32	1.18	8.77	8.70	D
37	0821	1162.0	96.2	1.26	1.26	95	11.2	2350	1137.2	8.24	8.88	764	0	28.4	34.9	450	87777	744	15.5	50	114	5.68	.64	.48	1.18	8.77	8.70	D
38	0821	1162.2	94.7	1.22	1.22	93	13.1	2350	1137.3	8.24	8.88	766	0	28.4	34.9	448	87792	744	15.5	70	114	5.69	.66	.50	1.18	8.78	8.70	D
39	0821	1163.0	249	1.20	1.20	97	7.4	2360	1137.5	8.24	8.88	767	0	28.4	34.9	447	87809	745	15.5	11	114	5.69	.39	.25	1.18	8.78	8.70	D
40	0822	1163.4	58.8	.97	.97	98	5.0	2360	1137.7	8.24	8.88	769	0	28.4	34.9	444	87850	745	15.5	46	114	5.69	.64	.50	1.18	8.78	8.70	D
41	0822	1164.1	153	1.08	1.08	99	5.2	2350	1137.9	8.24	8.88	769	0	28.4	34.9	443	87870	746	15.5	33	114	5.69	.46	.33	1.18	8.79	8.70	D
42	0822	1164.4	105	1.06	1.06	98	6.3	2360	1138.0	8.24	8.88	769	0	28.4	34.9	443	87885	746	15.5	42	114	5.69	.55	.41	1.18	8.79	8.70	D
43	0822	1164.7	232	1.01	1.01	98	5.8	2360	1138.0	8.24	8.88	769	0	28.4	34.9	443	87893	746	15.5	21	114	5.69	.39	.26	1.18	8.79	8.70	D
44	0823	1165.3	126	1.09	1.09	99	8.2	2370	1138.2	8.24	8.88	769	0	28.4	34.9	442	87918	747	15.5	44	114	5.69	.55	.40	1.18	8.80	8.70	D
45	0823	1165.9	94.3	1.21	1.21	97	11.6	2370	1138.5	8.24	8.88	769	0	28.4	34.9	441	87949	748	15.5	51	114	5.69	.65	.49	1.18	8.80	8.70	D
46	0823	1166.3	129	1.20	1.20	97	13.1	2370	1138.6	8.27	9.01	768	0	28.4	34.7	441	87963	748	15.6	52	114	5.69	.60	.44	1.18	8.80	8.70	D
47	0823	1166.8	132	1.27	1.27	96	13.2	2370	1138.6	8.27	9.01	768	0	28.4	34.7	440	87982	749	15.6	41	114	5.69	.59	.43	1.18	8.80	8.70	D
[illegible]	0823	1167.1	119	1.55	1.55	97	14.6	2360	1138.7	8.27	9.01	769	0	28.4	34.7	439	87995	749	15.6	37	114	5.69	.63	.46	1.18	8.81	8.70	D
[illegible]	0824	1167.4	41.3	1.38	1.38	94	16.7	2350	1139.0	8.27	9.01	769	0	28.4	34.7	439	88039	749	15.6	129	114	5.70	.90	.73	1.18	8.81	8.70	D
50	0824	1167.7	41.2	1.12	1.12	93	17.0	2340	1139.2	8.27	9.01	768	0	28.4	34.7	438	88073	749	15.6	124	114	5.70	.90	.73	1.18	8.81	8.70	D
51	0824	1168.0	62.0	1.22	1.22	94	13.5	2350	1139.4	8.27	9.01	767	0	28.4	34.7	438	88100	750	15.6	82	114	5.70	.76	.60	1.18	8.81	8.70	D
52	0825	1168.3	60.1	1.00	1.00	95	7.0	2320	1139.5	8.27	9.01	767	0	28.4	34.7	437	88119	750	15.6	73	114	5.70	.67	.53	1.19	8.81	8.70	D
[illegible]	0832	1168.9	61.8	1.24	1.24	104	9.2	2360	1140.7	8.27	8.90	727	0	28.2	34.7	465	88160	751	15.6	57	114	5.70	.72	.57	1.19	8.80	8.70	D
[illegible]	0833	1169.2	138	1.31	1.31	104	12.8	2360	1140.8	8.27	8.90	740	0	28.2	34.7	464	88172	751	15.6	58	114	5.70	.59	.43	1.19	8.80	8.70	D
[illegible]	0833	1169.6	120	1.33	1.33	101	15.5	2360	1140.8	8.27	8.90	750	0	28.2	34.7	464	88187	751	15.6	40	113	5.70	.64	.48	1.19	8.81	8.70	D
[illegible]	0833	1169.9	97.2	1.37	1.37	101	16.4	2360	1140.9	8.27	8.90	756	0	28.2	34.7	463	88209	752	15.6	22	113	5.70	.70	.53	1.19	8.81	8.70	D

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
57	0833	1170.3	89.2	1.35	1.35	100	13.5	2360	1140.9	8.27	8.90	761	0	28.2	34.7	462	88231	752	15.6	41	113	5.70	.69	.53	1.19	8.81	8.70	D
58	0834	1170.7	28.0	1.66	1.66	101	15.3	2360	1141.4	8.29	8.97	766	0	28.5	34.5	455	88336	753	15.6	237	113	5.71	.98	.81	1.19	8.82	8.70	D
59	0834	1171.1	57.7	1.34	1.34	99	15.6	2360	1141.6	8.29	8.97	766	0	28.5	34.5	453	88369	753	15.6	92	113	5.71	.81	.64	1.19	8.82	8.70	D
60	0835	1171.7	89.0	1.53	1.53	99	15.8	2350	1141.8	8.29	8.97	766	0	28.5	34.5	452	88400	753	15.6	56	113	5.71	.71	.55	1.19	8.82	8.70	D
61	0835	1172.0	80.5	1.44	1.44	101	17.3	2350	1142.0	8.29	8.97	766	0	28.5	34.5	451	88424	754	15.6	56	113	5.71	.76	.58	1.19	8.82	8.70	D
62	0835	1172.3	69.9	1.45	1.45	99	16.3	2350	1142.1	8.29	8.97	767	0	28.5	34.5	450	88448	754	15.6	100	113	5.71	.77	.60	1.19	8.82	8.70	D
63	0835	1172.7	151	1.32	1.32	101	13.6	2350	1142.2	8.29	8.97	766	0	28.5	34.5	449	88465	754	15.6	46	113	5.71	.57	.41	1.19	8.82	8.70	D
64	0836	1173.2	61.5	1.32	1.32	101	11.2	2350	1142.5	8.29	8.97	766	0	28.5	34.5	448	88505	755	15.6	92	113	5.72	.74	.59	1.19	8.83	8.70	D
65	0836	1173.8	84.3	1.28	1.28	100	14.9	2350	1142.7	8.29	8.97	766	0	28.5	34.5	446	88539	756	15.6	61	113	5.72	.72	.55	1.19	8.83	8.70	D
66	0837	1174.1	48.9	1.51	1.51	99	15.2	2350	1142.9	8.29	8.97	766	0	28.5	34.5	444	88575	756	15.7	83	113	5.72	.84	.68	1.19	8.83	8.70	D
67	0837	1174.4	60.8	1.41	1.41	98	14.2	2350	1143.0	8.29	8.97	766	0	28.5	34.5	445	88601	756	15.7	73	113	5.72	.78	.62	1.19	8.83	8.70	D
68	0837	1174.7	70.2	1.43	1.43	98	14.0	2350	1143.2	8.29	8.92	767	0	28.6	34.5	443	88626	756	15.7	74	113	5.72	.74	.58	1.19	8.83	8.70	D
69	0837	1175.0	54.1	1.40	1.40	98	16.8	2340	1143.4	8.29	8.92	767	0	28.6	34.5	443	88651	757	15.7	67	113	5.72	.84	.67	1.19	8.84	8.70	D
70	0837	1175.4	124	1.31	1.31	98	14.2	2340	1143.6	8.29	8.92	767	0	28.6	34.5	442	88669	757	15.7	56	113	5.73	.61	.45	1.19	8.84	8.70	D
71	0838	1175.9	84.3	1.10	1.10	102	10.4	2350	1143.8	8.29	8.92	767	0	28.6	34.5	441	88703	758	15.7	77	113	5.73	.66	.51	1.19	8.84	8.70	D
72	0838	1176.2	55.8	1.06	1.06	104	8.0	2340	1144.0	8.29	8.92	767	0	28.6	34.5	442	88732	758	15.7	68	113	5.73	.72	.57	1.19	8.84	8.70	D
73	0838	1176.5	53.0	1.23	1.23	102	11.2	2340	1144.3	8.29	8.92	767	0	28.6	34.5	441	88763	758	15.7	85	113	5.73	.78	.62	1.19	8.84	8.70	D
74	0839	1176.8	134	1.12	1.12	103	11.3	2350	1144.3	8.29	8.92	767	0	28.6	34.5	440	88777	759	15.7	35	113	5.73	.58	.42	1.19	8.84	8.70	D
75	0839	1177.2	100	1.06	1.06	104	8.6	2350	1144.5	8.29	8.92	767	0	28.6	34.5	440	88796	759	15.7	48	113	5.73	.61	.46	1.19	8.84	8.70	D
76	0846	1177.8	237	1.05	1.05	104	3.8	2380	1145.0	8.29	8.92	709	0	28.2	34.4	465	88824	759	15.7	44	113	5.73	.37	.24	1.19	8.84	8.70	D
77	0846	1178.1	76.2	1.11	1.11	103	6.5	2370	1145.0	8.29	8.92	730	0	28.2	34.4	463	88843	760	15.7	51	113	5.73	.62	.48	1.19	8.85	8.70	D
78	0846	1178.4	105	1.22	1.22	101	9.9	2370	1145.0	8.27	9.00	745	0	28.2	34.6	463	88860	760	15.7	59	113	5.73	.61	.46	1.19	8.85	8.70	D
79	0846	1178.8	97.3	1.27	1.27	98	12.3	2370	1145.5	8.27	9.00	758	0	28.2	34.6	461	88881	760	15.7	51	113	5.73	.65	.49	1.19	8.85	8.70	D
80	0847	1179.3	57.0	1.30	1.30	100	11.0	2370	1146.4	8.27	9.00	767	0	28.2	34.6	459	88921	761	15.7	92	113	5.74	.75	.60	1.19	8.85	8.70	D
81	0847	1180.0	128	1.30	1.30	98	14.9	2360	1147.1	8.27	9.00	769	0	28.2	34.6	456	88952	762	15.7	42	113	5.74	.61	.45	1.19	8.85	8.70	D
82	0847	1180.5	97.3	1.17	1.17	98	12.7	2360	1147.6	8.27	9.00	770	0	28.2	34.6	455	88979	762	15.7	54	113	5.74	.65	.49	1.19	8.85	8.70	D
83	0847	1180.8	72.1	1.07	1.07	101	9.0	2360	1148.2	8.27	9.00	770	0	28.2	34.6	454	89006	763	15.7	66	113	5.74	.67	.52	1.19	8.85	8.70	D
84	0848	1181.1	75.5	1.19	1.19	101	7.6	2360	1148.7	8.27	9.00	771	0	28.2	34.6	452	89028	763	15.7	70	113	5.74	.64	.50	1.19	8.85	8.70	D
85	0848	1181.4	211	1.21	1.21	101	9.5	2360	1148.9	8.27	9.00	771	0	28.2	34.6	452	89035	763	15.7	36	113	5.74	.46	.31	1.19	8.85	8.70	D
86	0848	1181.7	63.3	1.42	1.42	98	14.9	2360	1149.4	8.27	9.00	771	0	28.2	34.6	449	89060	763	15.7	63	113	5.74	.78	.61	1.19	8.85	8.70	D
87	0848	1182.1	115	1.59	1.59	97	18.8	2350	1149.7	8.27	9.00	770	0	28.2	34.6	448	89078	764	15.7	62	113	5.74	.67	.50	1.19	8.85	8.70	D
88	0849	1182.7	31.8	1.48	1.48	96	18.5	2360	1151.2	8.31	9.14	771	0	28.5	34.8	445	89162	764	15.8	218	113	5.75	.98	.81	1.19	8.83	8.70	D
89	0849	1182.9	67.6	1.44	1.44	95	19.3	2350	1151.6	8.31	9.14	771	0	28.5	34.8	443	89181	765	15.8	220	113	5.75	.81	.63	1.19	8.83	8.70	D
90	0850	1183.3	32.1	1.54	1.54	96	18.8	2350	1152.5	8.31	9.14	770	0	28.5	34.8	440	89236	765	15.8	155	113	5.75	.99	.81	1.20	8.83	8.70	D
91	0850	1183.5	44.3	1.35	1.35	95	17.4	2340	1153.0	8.31	9.14	770	0	28.5	34.8	437	89272	765	15.8	104	113	5.75	.89	.72	1.20	8.82	8.70	D
92	0850	1183.9	55.2	1.41	1.41	95	16.3	2360	1153.6	8.31	9.14	770	0	28.5	34.8	436	89305	766	15.8	87	113	5.75	.82	.65	1.20	8.82	8.70	D
93	0851	1184.2	35.0	1.33	1.33	96	15.4	2360	1154.1	8.28	9.19	772	0	28.4	34.8	433	89353	766	15.8	133	113	5.76	.92	.75	1.20	8.82	8.70	D
94	0851	1184.5	87.8	1.38	1.38	98	14.2	2360	1154.2	8.28	9.19	772	0	28.4	34.8	431	89375	766	15.8	107	113	5.76	.70	.53	1.20	8.82	8.70	D
95	0852	1184.8	55.4	1.49	1.49	95	17.9	2350	1154.4	8.28	9.19	773	0	28.4	34.8	429	89406	767	15.8	78	113	5.76	.84	.67	1.20	8.82	8.70	D
96	0852	1185.4	38.1	1.28	1.28	96	15.8	2360	1154.9	8.28	9.19	772	0	28.4	34.8	426	89481	767	15.8	139	113	5.76	.91	.74	1.20	8.82	8.70	D
97	0853	1185.7	76.3	1.48	1.48	95	16.6	2350	1155.0	8.28	9.19	772	0	28.4	34.8	425	89502	767	15.8	102	113	5.76	.75	.58	1.20	8.82	8.70	D
98	0853	1186.0	28.4	1.40	1.40	95	18.0	2350	1155.4	8.28	9.19	771	0	28.4	34.8	422	89560	768	15.8	155	113	5.77	1.00	.83	1.20	8.82	8.70	D
99	0859	1186.3	29.2	.94	.94	95	16.2	2420	1157.4	8.26	9.07	555	0	28.1	34.8	445	89594	768	15.8	167	113	5.77	.98	.81	1.20	8.78	8.70	D
100	0859	1186.6	56.1	1.06	1.06	105	4.9	2420	1157.6	8.26	9.07	647	0	28.1	34.8	443	89620	768	15.8	137	113	5.77	.66	.52	1.20	8.78	8.70	D
101	0900	1186.9	33.9	1.21	1.21	100	11.5	2410	1158.0	8.26	9.07	732	0	28.1	34.8	441	89663	769	15.8	132	113	5.77	.88	.72	1.20	8.79	8.70	D
102	0900	1187.2	95.8	1.46	1.46	97	15.1	2410	1158.3	8.26	9.07	755	0	28.1	34.8	439	89680	769	15.8	99	113	5.77	.69	.52	1.20	8.79	8.70	D
103	0900	1187.5	44.3	1.53	1.53	96	19.1	2410	1158.7	8.26	9.07	771	0	28.1	34.8	438	89719	769	15.9	112	113	5.77	.92	.74	1.20	8.79	8.70	D
104	0901	1187.8	49.6	1.44	1.44	95	17.3	2400	1159.0	8.26	9.07	778	0	28.1	34.8	436	89746	770	15.9	67	113	5.78	.86	.69	1.20	8.79	8.70	D
105	0901	1188.2	48.2	1.68	1.68	95	20.4	2390	1159.4	8.26	9.07	780	0	28.1	34.8	433	89782	770	15.9	115	113	5.78	.91	.73	1.20	8.79	8.70	D
106	0901	1188.4	46.1	1.58	1.58	97	19.7	2390	1159.8	8.26	9.07	781	0	28.1	34.8	433	89808	770	15.9	103	113	5.78	.91	.73	1.20	8.79	8.70	D

SAMOCO AUST. Tilana No.1 329109

Data Printed at time 14:27 Date Oct 9 '85
Data Recorded at time 09:02 Date Sep 11 '85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DKC	NK	NKB	ECD	EST FM PR	
7	0902	1188.7	92.2	1.61	1.61	95	18.2	2410	1159.9	8.26	9.07	782	0	28.1	34.8	431	89827	771	15.9	88	113	5.78	.72	.55	1.20	8.79	8.70	D
8	0902	1189.0	94.6	1.60	1.60	95	18.9	2410	1160.1	8.26	9.07	782	0	28.1	34.8	430	89845	771	15.9	51	113	5.78	.72	.54	1.20	8.79	8.70	D
9	0902	1189.3	70.0	1.48	1.48	95	16.5	2400	1160.4	8.27	9.05	782	0	28.3	34.6	430	89870	771	15.9	70	113	5.78	.77	.60	1.20	8.78	8.70	D
0	0902	1189.6	36.2	1.37	1.37	97	14.1	2410	1161.1	8.27	9.05	783	0	28.3	34.6	427	89917	771	15.9	133	113	5.78	.90	.73	1.20	8.78	8.70	D
1	0903	1189.9	59.8	1.53	1.53	97	17.7	2410	1161.6	8.27	9.05	783	0	28.3	34.6	427	89944	772	15.9	116	113	5.79	.83	.65	1.20	8.78	8.70	D
2	0903	1190.3	56.2	1.43	1.43	95	16.6	2410	1161.9	8.27	9.05	782	0	28.3	34.6	424	89968	772	15.9	76	113	5.79	.82	.65	1.20	8.78	8.70	D
3	0903	1190.6	69.0	1.34	1.34	96	14.0	2400	1162.1	8.27	9.05	782	0	28.3	34.6	424	89989	772	15.9	71	112	5.79	.75	.58	1.20	8.78	8.70	D
4	0903	1190.9	66.4	1.49	1.49	98	13.1	2410	1162.6	8.27	9.05	782	0	28.3	34.6	423	90017	773	15.9	64	112	5.79	.75	.58	1.20	8.78	8.70	D
5	0904	1191.2	169	1.57	1.57	97	17.9	2410	1162.7	8.27	9.05	782	0	28.3	34.6	421	90027	773	15.9	53	112	5.79	.58	.40	1.20	8.78	8.70	D
6	0904	1191.5	55.5	1.47	1.47	96	16.9	2400	1163.1	8.27	9.05	782	0	28.3	34.6	420	90054	773	15.9	78	112	5.79	.83	.66	1.20	8.78	8.70	D
7	0904	1191.8	75.3	1.32	1.32	96	13.9	2400	1163.4	8.27	9.05	782	0	28.3	34.6	421	90076	774	15.9	83	112	5.79	.73	.56	1.20	8.78	8.70	D
8	0904	1192.1	80.9	1.30	1.30	97	11.6	2400	1163.6	8.27	9.05	782	0	28.3	34.6	419	90096	774	15.9	51	112	5.79	.68	.52	1.20	8.78	8.70	D
9	0905	1192.4	90.0	1.52	1.52	96	15.6	2380	1163.7	8.27	9.02	783	0	28.1	34.6	419	90118	774	15.9	52	112	5.79	.71	.53	1.20	8.77	8.70	D
0	0905	1192.7	70.2	1.52	1.52	95	17.8	2390	1163.8	8.27	9.02	783	0	28.1	34.6	419	90137	774	15.9	57	112	5.79	.79	.61	1.20	8.77	8.70	D
1	0905	1193.1	87.8	1.41	1.41	95	14.9	2410	1163.8	8.27	9.02	783	0	28.1	34.6	418	90157	775	15.9	58	112	5.79	.70	.53	1.20	8.78	8.70	D
2	0905	1193.6	70.2	1.45	1.45	97	13.4	2410	1163.9	8.27	9.02	783	0	28.1	34.6	417	90195	775	15.9	91	112	5.80	.74	.57	1.20	8.78	8.70	D
3	0906	1193.9	80.0	1.54	1.54	96	18.4	2410	1163.9	8.27	9.02	783	0	28.1	34.6	418	90216	776	15.9	55	112	5.80	.76	.58	1.20	8.78	8.70	D
4	0906	1194.2	79.1	1.46	1.46	96	16.7	2420	1164.0	8.27	9.02	783	0	28.1	34.6	417	90236	776	15.9	56	112	5.80	.74	.57	1.20	8.79	8.70	D
5	0906	1194.6	74.3	1.59	1.59	97	14.4	2420	1164.0	8.27	9.02	783	0	28.1	34.6	417	90263	776	15.9	61	112	5.80	.74	.57	1.20	8.79	8.70	D
6	0906	1194.8	58.0	1.61	1.61	96	18.4	2420	1164.1	8.27	9.02	784	0	28.1	34.6	418	90282	777	15.9	83	112	5.80	.84	.66	1.20	8.79	8.70	D
7	0907	1195.1	19.8	1.38	1.38	95	17.2	2410	1164.3	8.29	8.92	783	0	28.1	34.6	418	90367	777	16.0	242	112	5.80	1.08	.91	1.20	8.79	8.70	D
8	0914	1196.3	22.4	1.45	1.45	96	15.5	2420	1166.2	8.27	8.88	784	0	28.1	34.8	444	90414	778	16.0	252	112	5.81	1.04	.87	1.20	8.69	8.70	DR
un survey.																												
0	0949	1198.5	46.0	1.69	1.69	95	14.6	2380	1168.9	8.32	8.91	765	0	28.6	34.5	441	90459	780	16.0	159	112	5.81	.85	.68	1.21	8.74	8.70	D†
1	0950	1198.8	22.3	1.50	1.50	94	18.9	2390	1170.6	8.32	8.91	774	0	28.6	34.5	436	90532	781	16.0	190	112	5.81	1.08	.90	1.21	8.73	8.70	D
2	0950	1199.1	33.0	1.53	1.53	100	17.3	2390	1171.7	8.37	9.08	776	0	29.5	31.3	433	90587	781	16.0	347	112	5.82	.98	.81	1.21	8.71	8.70	D
3	0952	1199.4	11.5	1.61	1.61	100	19.0	2410	1173.5	8.37	9.08	780	0	29.5	31.3	425	90753	781	16.0	413	112	5.82	1.27	1.09	1.21	8.70	8.70	D
4	0952	1199.7	52.0	1.55	1.55	98	18.2	2410	1173.8	8.37	9.08	780	0	29.5	31.3	422	90784	782	16.0	97	112	5.83	.88	.70	1.21	8.69	8.70	D
5	0953	1200.0	22.0	1.55	1.55	101	17.8	2400	1174.2	8.33	9.12	781	0	29.3	31.4	417	90865	782	16.0	210	112	5.83	1.10	.92	1.21	8.68	8.70	D
6	0954	1200.3	22.3	1.65	1.65	102	20.5	2410	1174.2	8.33	9.12	781	0	29.3	31.4	413	90951	782	16.1	220	112	5.83	1.14	.95	1.21	8.68	8.70	D
7	0955	1200.6	18.2	1.44	1.44	101	17.3	2420	1174.4	8.36	9.05	781	0	29.2	32.6	409	91041	782	16.1	270	112	5.84	1.14	.96	1.21	8.67	8.70	D
8	0955	1200.9	24.3	1.54	1.54	101	19.3	2420	1175.1	8.36	9.05	782	0	29.2	32.6	407	91107	783	16.1	209	112	5.84	1.09	.91	1.21	8.67	8.70	D
9	0956	1201.2	27.0	1.44	1.44	102	17.7	2410	1175.9	8.36	9.05	782	0	29.2	32.6	403	91178	783	16.1	181	112	5.85	1.05	.86	1.21	8.67	8.70	D
0	0957	1201.5	35.4	1.57	1.57	101	17.9	2380	1176.5	8.36	9.05	783	0	29.2	32.6	401	91227	783	16.1	207	112	5.85	.98	.80	1.21	8.66	8.70	D
1	0957	1201.8	37.9	1.64	1.64	101	19.6	2370	1176.9	8.36	9.05	783	0	29.2	32.6	399	91273	784	16.1	125	112	5.85	.99	.80	1.21	8.66	8.70	D
2	0958	1202.2	27.4	1.59	1.59	101	18.3	2400	1178.0	8.34	8.98	782	0	29.1	33.8	396	91351	784	16.1	193	112	5.86	1.05	.87	1.21	8.64	8.70	D
3	0958	1202.4	27.1	1.60	1.60	101	20.0	2410	1178.8	8.34	8.98	781	0	29.1	33.8	395	91408	784	16.1	162	112	5.86	1.08	.89	1.21	8.64	8.70	D
4	0959	1202.7	31.3	1.63	1.63	99	20.3	2400	1179.7	8.34	8.98	782	0	29.1	33.8	394	91465	785	16.1	140	112	5.86	1.05	.86	1.21	8.63	8.70	D
5	1000	1203.1	29.5	1.56	1.56	100	19.7	2410	1180.5	8.34	8.98	782	0	29.1	33.8	392	91527	785	16.2	174	112	5.87	1.05	.87	1.21	8.63	8.70	D
6	1000	1203.5	43.8	1.62	1.62	100	18.5	2390	1181.3	8.33	8.92	782	0	28.9	34.2	391	91582	785	16.2	189	112	5.87	.94	.76	1.21	8.60	8.70	D
7	1001	1204.0	60.7	1.52	1.52	101	19.4	2390	1181.7	8.33	8.92	783	0	28.9	34.2	391	91626	786	16.2	106	112	5.87	.87	.68	1.21	8.60	8.70	D
8	1001	1204.3	33.2	1.94	1.94	101	18.7	2380	1182.4	8.33	8.92	782	0	28.9	34.2	388	91690	786	16.2	194	112	5.88	1.02	.83	1.21	8.60	8.70	D
9	1001	1204.6	124	1.53	1.53	101	17.2	2390	1182.5	8.33	8.92	782	0	28.9	34.2	388	91700	786	16.2	112	112	5.88	.67	.49	1.21	8.60	8.70	D
0	1002	1204.9	22.5	1.58	1.58	101	18.7	2400	1183.4	8.33	8.92	781	0	28.9	34.2	379	91781	787	16.2	211	112	5.88	1.11	.93	1.21	8.60	8.70	D
1	1003	1205.2	37.0	1.56	1.56	100	21.0	2390	1183.9	8.32	8.91	781	0	28.7	34.4	374	91831	787	16.2	134	112	5.88	1.02	.82	1.21	8.60	8.70	D
2	1003	1205.5	27.9	1.51	1.51	102	19.1	2400	1184.1	8.32	8.91	780	0	28.7	34.4	367	91888	787	16.2	196	112	5.89	1.07	.88	1.21	8.58	8.70	D
3	1004	1205.8	40.6	1.57	1.57	101	19.1	2410	1184.3	8.32	8.91	780	0	28.7	34.4	362	91932	788	16.2	152	112	5.89	.97	.79	1.21	8.58	8.70	D
4	1004	1206.1	20.7	1.55	1.55	101	18.0	2410	1184.6	8.32	8.91	781	0	28.7	34.4	353	92015	788	16.2	223	113	5.89	1.13	.94	1.21	8.58	8.70	D
5	1005	1206.4	23.7	1.67	1.67	101	15.5	2400	1185.1	8.27	8.86	781	0	28.4	34.3	345	92095	788	16.3	213	113	5.90	1.06	.88	1.21	8.57	8.70	D
6	1006	1206.7	27.3	1.91	1.91	100	19.6	2390	1186.2	8.27	8.86	782	0	28.4	34.3	345	92152	789	16.3	179	113	5.90	1.08	.89	1.21	8.56	8.70	D

EKLOG

AMOCO AUST. Tilana No.1 329110

Data Printed at time 14:31 Date Oct 9 '85
Data Recorded at time 10:07 Date Sep 11 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
57	1007	1207.0	26.3	2.00	2.00	101	19.4	2340	1187.4	8.27	8.86	781	0	28.4	34.3	342	92218	789	16.3	187	113	5.90	1.09	.90	1.21	8.55	8.70	D
58	1007	1207.3	115	1.91	1.91	101	17.9	2350	1187.7	8.27	8.86	780	0	28.4	34.3	344	92235	789	16.3	120	113	5.91	.70	.51	1.21	8.55	8.70	D
59	1007	1207.7	74.9	1.52	1.52	101	15.6	2370	1188.1	8.27	8.86	778	0	28.4	34.3	346	92259	789	16.3	65	113	5.91	.78	.60	1.21	8.55	8.70	D
60	1014	1208.0	8.71	1.05	1.05	99	16.0	2350	1191.9	8.33	8.85	622	0	27.9	34.6	485	92292	790	16.3	66	113	5.91	1.32	1.13	1.21	8.49	8.70	DX
61	1014	1208.6	70.2	1.67	1.67	100	8.6	2360	1192.2	8.46	8.86	713	0	26.7	34.6	490	92331	790	16.3	131	113	5.91	.70	.54	1.21	8.49	8.70	D
62	1014	1209.2	64.0	1.79	1.79	101	20.3	2360	1192.4	8.46	8.86	739	0	26.7	34.6	495	92378	791	16.3	94	112	5.91	.88	.69	1.21	8.50	8.70	D
63	1015	1209.4	16.4	1.59	1.59	101	20.7	2380	1193.0	8.46	8.86	751	0	26.7	34.6	494	92479	791	16.3	253	113	5.92	1.24	1.04	1.21	8.50	8.70	D
64	1016	1209.8	163	1.48	1.48	101	17.5	2380	1193.1	8.46	8.86	751	0	26.7	34.6	494	92491	792	16.3	53	113	5.92	.61	.42	1.21	8.50	8.70	D
65	1016	1210.1	94.7	1.49	1.49	101	14.9	2370	1193.2	8.46	8.86	751	0	26.7	34.6	493	92509	792	16.3	48	112	5.92	.72	.54	1.21	8.50	8.70	D
66	1016	1210.4	29.4	1.99	1.99	101	17.8	2380	1193.5	8.46	8.86	750	0	26.7	34.6	490	92567	792	16.3	152	113	5.92	1.05	.86	1.21	8.51	8.70	D
67	1017	1210.7	54.8	1.60	1.60	100	21.7	2380	1193.6	8.58	8.93	750	0	25.3	34.5	488	92600	792	16.3	101	113	5.92	.93	.74	1.21	8.50	8.70	D
68	1018	1211.0	13.8	1.60	1.60	101	21.4	2400	1193.9	8.58	8.93	749	0	25.3	34.5	482	92717	793	16.4	342	113	5.93	1.30	1.10	1.21	8.50	8.70	D
69	1018	1211.3	26.3	1.83	1.83	100	22.0	2410	1194.1	8.58	8.93	750	0	25.3	34.5	481	92784	793	16.4	183	113	5.93	1.13	.93	1.21	8.50	8.70	D
70	1019	1211.6	206	1.64	1.64	98	19.3	2410	1194.1	8.58	8.93	750	0	25.3	34.5	481	92792	793	16.4	31	113	5.93	.56	.37	1.21	8.50	8.70	D
71	1020	1211.9	17.9	1.67	1.67	100	20.3	2410	1194.8	8.59	8.96	750	0	24.8	34.5	485	92892	794	16.4	270	113	5.94	1.21	1.02	1.21	8.50	8.70	D
72	1020	1212.2	22.4	1.76	1.76	101	21.6	2420	1195.7	8.59	8.96	750	0	24.8	34.5	490	92971	794	16.4	226	113	5.95	1.17	.97	1.21	8.49	8.70	D
73	1021	1212.5	13.6	1.66	1.66	100	21.8	2410	1196.7	8.59	8.96	750	0	24.8	34.5	499	93075	794	16.4	314	113	5.95	1.31	1.11	1.21	8.48	8.70	D
74	1022	1212.8	18.2	1.55	1.55	101	23.0	2410	1197.9	8.55	8.95	748	0	24.7	34.6	499	93172	795	16.4	266	113	5.96	1.25	1.05	1.21	8.48	8.70	D
75	1024	1213.2	14.7	1.43	1.43	101	20.2	2410	1199.7	8.55	8.95	748	0	24.7	34.6	496	93305	795	16.5	482	113	5.97	1.27	1.07	1.21	8.46	8.70	D
76	1024	1213.5	25.0	1.72	1.72	99	20.9	2410	1200.5	8.55	8.95	748	0	24.7	34.6	496	93368	795	16.5	174	113	5.97	1.13	.94	1.21	8.46	8.70	D
77	1025	1213.7	25.0	1.54	1.54	99	20.7	2420	1201.4	8.55	8.95	748	0	24.7	34.6	495	93430	796	16.5	165	113	5.97	1.13	.93	1.21	8.45	8.70	D
78	1025	1214.0	42.2	1.76	1.76	100	20.5	2420	1201.8	8.52	8.97	748	0	24.6	35.1	494	93472	796	16.5	157	113	5.97	.99	.80	1.21	8.45	8.70	D
79	1026	1214.4	43.6	1.62	1.62	100	20.7	2410	1202.1	8.52	8.97	749	0	24.6	35.1	493	93521	796	16.5	138	113	5.98	.99	.79	1.21	8.45	8.70	D
80	1026	1214.6	31.6	1.70	1.70	101	18.2	2420	1202.4	8.52	8.97	749	0	24.6	35.1	494	93558	796	16.5	117	113	5.98	1.04	.85	1.21	8.45	8.70	D
81	1027	1215.0	37.6	1.69	1.69	101	22.4	2420	1202.8	8.52	8.97	749	0	24.6	35.1	495	93608	797	16.5	155	113	5.98	1.05	.85	1.21	8.45	8.70	D
82	1027	1215.3	112	1.59	1.59	101	21.9	2420	1202.9	8.52	8.97	749	0	24.6	35.1	495	93625	797	16.5	146	113	5.98	.75	.55	1.21	8.45	8.70	D
83	1027	1215.6	95.4	1.45	1.45	101	19.0	2430	1203.1	8.52	8.97	749	0	24.6	35.1	494	93641	797	16.5	42	113	5.98	.77	.57	1.21	8.45	8.70	D
84	1027	1215.9	59.3	1.40	1.40	100	16.5	2430	1203.2	8.52	8.97	749	0	24.6	35.1	494	93668	798	16.5	63	113	5.99	.86	.67	1.21	8.45	8.70	D
85	1028	1216.2	33.1	1.66	1.66	100	21.6	2430	1203.6	8.52	8.97	749	0	24.6	35.1	493	93718	798	16.5	162	113	5.99	1.07	.87	1.21	8.45	8.70	D
86	1028	1216.5	29.6	1.55	1.55	100	22.7	2410	1203.6	8.50	8.98	749	0	24.9	35.0	492	93782	798	16.5	188	113	5.99	1.11	.91	1.21	8.45	8.70	D
87	1037	1216.8	12.0	1.42	1.42	98	22.9	2400	1205.2	8.50	8.88	726	0	25.7	35.3	506	93857	799	16.5	177	113	6.00	1.36	1.16	1.21	8.44	8.70	D†
88	1037	1217.1	65.1	1.40	1.40	101	8.7	2460	1205.2	8.50	8.88	739	0	25.7	35.3	505	93885	799	16.6	110	113	6.00	.72	.56	1.22	8.45	8.70	D
89	1037	1217.4	47.1	1.68	1.68	102	20.5	2450	1205.3	8.50	8.88	749	0	25.7	35.3	501	93921	799	16.6	112	113	6.00	.97	.77	1.22	8.45	8.70	D
90	1038	1217.7	26.3	1.38	1.38	102	20.4	2450	1205.5	8.50	8.88	755	0	25.7	35.3	498	93969	799	16.6	159	113	6.00	1.12	.92	1.22	8.46	8.70	D
91	1043	1218.0	3.13	1.52	1.52	103	21.3	1460	1207.1	8.47	8.89	583	0	26.4	35.2	489	94488	800	16.7	1454	113	6.03	1.70	1.50	1.22	8.45	8.70	D
92	1044	1218.3	18.0	1.59	1.59	98	18.7	1450	1207.4	8.44	8.92	583	0	26.9	35.3	488	94579	800	16.7	257	114	6.04	1.18	.99	1.22	8.45	8.70	D
93	1045	1218.6	23.0	1.46	1.46	97	16.9	1450	1207.7	8.44	8.92	583	0	26.9	35.3	487	94655	800	16.7	236	114	6.04	1.09	.90	1.22	8.45	8.70	D
94	1045	1218.9	33.4	1.64	1.64	97	17.9	1450	1207.9	8.44	8.92	584	0	26.9	35.3	487	94711	801	16.7	226	114	6.04	1.01	.82	1.22	8.45	8.70	D
95	1046	1219.2	15.5	1.58	1.58	97	17.5	1450	1208.3	8.44	8.92	583	0	26.9	35.3	486	94813	801	16.7	250	114	6.05	1.20	1.01	1.22	8.45	8.70	D
96	1047	1219.5	20.9	1.54	1.54	97	17.5	1460	1208.6	8.44	8.92	583	0	26.9	35.3	486	94904	801	16.7	283	114	6.05	1.12	.93	1.22	8.45	8.70	D
97	1048	1219.8	23.0	1.44	1.44	98	17.3	1460	1209.0	8.44	8.94	582	0	27.2	35.2	485	94977	802	16.7	217	114	6.06	1.10	.91	1.22	8.45	8.70	D
98	1049	1220.1	18.6	1.68	1.68	97	17.0	1460	1209.4	8.44	8.94	582	0	27.2	35.2	485	95060	802	16.7	237	114	6.06	1.14	.96	1.22	8.45	8.70	D
99	1049	1220.4	94.4	1.73	1.73	94	16.0	1460	1209.5	8.44	8.94	582	0	27.2	35.2	485	95079	802	16.8	54	114	6.06	.72	.53	1.22	8.45	8.70	D
200	1050	1220.7	15.7	1.56	1.56	94	14.6	2400	1210.1	8.44	8.94	585	0	27.2	35.2	485	95184	803	16.8	292	114	6.07	1.14	.95	1.22	8.45	8.70	D
201	1051	1221.1	36.6	1.72	1.72	91	20.5	1530	1210.4	8.44	8.94	681	0	27.2	35.2	483	95239	803	16.8	289	114	6.07	1.01	.81	1.22	8.45	8.70	D
202	1051	1221.7	44.8	1.51	1.51	94	15.0	1490	1210.8	8.44	8.94	638	0	27.2	35.2	483	95302	803	16.8	41	114	6.07	.89	.71	1.22	8.46	8.70	D
203	1052	1222.0	59.3	1.48	1.48	98	11.6	1500	1211.0	8.44	8.94	619	0	27.2	35.2	483	95329	804	16.8	104	114	6.07	.78	.61	1.22	8.46	8.70	D
204	1054	1222.3	7.24	1.45	1.45	96	16.7	1490	1211.8	8.43	8.94	590	0	27.6	35.3	483	95539	804	16.8	2825	114	6.08	1.37	1.18	1.22	8.45	8.70	D
205	1056	1222.6	9.53	1.52	1.52	95	17.3	1490	1212.7	8.44	8.96	590	0	27.8	35.3	483	95768	804	16.9	457	114	6.09	1.31	1.12	1.22	8.45	8.70	D
206	1059	1223.2	8.74	1.67	1.67	98	17.2	1460	1213.9	8.44	9.00	591	0	28.1	35.4	481	96087	805	16.9	309	114	6.11	1.34	1.15	1.22	8.44	8.70	D

...OCO AUST. Tilana No.1

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Data Printed at time 14:35 Date Oct 9 '85
Data Recorded at time 11:00 Date Sep 11 '85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
7	1100	1223.5	20.9	1.50	1.50	100	18.0	1480	1214.0	8.44	9.00	591	0	28.1	35.4	481	96179	805	16.9	249	115	6.12	1.14	.94	1.22	8.45	8.70	D
8	1101	1223.8	22.0	1.58	1.58	103	15.6	1480	1214.0	8.44	9.00	591	0	28.1	35.4	482	96258	806	17.0	243	115	6.12	1.10	.91	1.22	8.45	8.70	D
9	1102	1224.1	17.9	1.36	1.36	98	17.4	2430	1214.1	8.44	9.00	610	0	28.1	35.4	479	96364	806	17.0	284	115	6.13	1.16	.97	1.22	8.45	8.70	D
0	1103	1224.4	18.2	1.51	1.51	92	21.5	2420	1214.5	8.45	9.06	739	0	28.3	35.4	476	96452	806	17.0	263	115	6.13	1.21	1.00	1.22	8.47	8.70	D
1	1104	1224.7	16.7	1.65	1.65	95	19.9	2420	1215.2	8.45	9.06	764	0	28.3	35.4	474	96548	806	17.0	284	115	6.14	1.21	1.01	1.22	8.47	8.70	D
2	1105	1225.0	28.2	1.58	1.58	101	18.5	2420	1215.7	8.43	9.20	767	0	28.6	35.3	473	96617	807	17.0	209	115	6.14	1.07	.87	1.22	8.46	8.70	D
3	1106	1225.3	15.5	1.42	1.42	101	17.4	2380	1216.3	8.43	9.20	769	0	28.6	35.3	473	96731	807	17.0	276	115	6.14	1.21	1.01	1.22	8.46	8.70	D
4	1107	1225.7	21.1	1.52	1.52	99	17.2	2380	1216.9	8.43	9.20	764	0	28.6	35.3	471	96823	807	17.1	234	115	6.15	1.12	.93	1.22	8.46	8.70	D
5	1133	1226.2	29.1	1.25	1.25	102	11.6	2410	1225.8	8.48	9.06	739	0	29.4	36.1	464	96954	808	17.1	96	115	6.15	.95	.77	1.22	8.51	8.70	DT
6	1133	1226.5	67.9	1.59	1.59	97	15.8	2400	1226.0	8.48	9.06	753	0	29.4	36.1	461	96985	808	17.1	78	115	6.15	.80	.61	1.22	8.52	8.70	D
7	1134	1226.9	39.4	1.38	1.38	96	22.9	2410	1226.2	8.48	9.06	761	0	29.4	36.1	459	97038	809	17.1	191	115	6.16	1.02	.81	1.22	8.52	8.70	D
8	1134	1227.5	158	1.35	1.35	98	18.2	2410	1226.3	8.48	9.06	761	0	29.4	36.1	458	97054	809	17.1	36	115	6.16	.62	.42	1.22	8.52	8.70	D
9	1134	1227.7	162	1.29	1.29	98	15.0	2410	1226.3	8.48	9.06	762	0	29.4	36.1	458	97062	809	17.1	18	115	6.16	.58	.40	1.22	8.52	8.70	D
0	1134	1228.1	114	1.59	1.59	98	16.2	2420	1226.4	8.48	9.06	762	0	29.4	36.1	457	97082	810	17.1	16	115	6.16	.68	.49	1.22	8.52	8.70	D
1	1136	1228.7	26.6	1.65	1.65	101	23.0	2420	1227.1	8.50	9.08	763	0	30.0	35.4	452	97201	810	17.1	181	115	6.17	1.14	.93	1.22	8.54	8.70	D
2	1136	1229.0	23.6	1.63	1.63	102	20.1	2420	1227.7	8.50	9.08	763	0	30.0	35.4	451	97282	811	17.1	239	115	6.17	1.13	.93	1.22	8.53	8.70	D
3	1137	1229.3	19.5	1.61	1.61	101	21.7	2420	1228.1	8.50	9.08	763	0	30.0	35.4	450	97353	811	17.1	220	115	6.18	1.20	1.00	1.22	8.53	8.70	D
4	1137	1229.6	54.7	1.58	1.58	101	21.8	2420	1228.4	8.50	9.08	763	0	30.0	35.4	449	97387	811	17.2	91	115	6.18	.93	.73	1.22	8.53	8.70	D
5	1138	1229.9	233	1.56	1.56	101	18.1	2420	1228.4	8.50	9.08	763	0	30.0	35.4	449	97395	812	17.2	18	115	6.18	.52	.33	1.22	8.53	8.70	D
6	1138	1230.4	98.3	1.33	1.33	103	14.5	2420	1228.6	8.50	9.11	763	0	29.9	35.5	449	97421	812	17.2	31	115	6.18	.71	.52	1.22	8.53	8.70	D
7	1138	1231.0	125	1.23	1.23	103	10.3	2420	1228.6	8.50	9.11	763	0	29.9	35.5	449	97448	813	17.2	54	115	6.18	.60	.43	1.22	8.54	8.70	D
8	1138	1231.4	105	1.22	1.22	104	10.8	2430	1228.6	8.50	9.11	763	0	29.9	35.5	447	97474	813	17.2	29	115	6.18	.65	.47	1.22	8.55	8.70	D
9	1139	1232.4	92.5	1.23	1.23	107	6.8	2430	1228.7	8.50	9.11	764	0	29.9	35.5	447	97537	814	17.2	63	115	6.18	.62	.46	1.22	8.56	8.70	D
0	1139	1233.0	145	1.36	1.36	104	11.5	2430	1228.7	8.50	9.11	764	0	29.9	35.5	446	97564	815	17.2	31	115	6.19	.58	.41	1.22	8.56	8.70	D
1	1139	1233.3	75.2	1.87	1.87	101	18.9	2430	1228.8	8.50	9.11	764	0	29.9	35.5	446	97588	815	17.2	54	115	6.19	.81	.62	1.22	8.56	8.70	D
2	1140	1233.8	105	1.47	1.47	101	22.0	2420	1228.8	8.50	9.11	764	0	29.9	35.5	446	97615	816	17.2	85	115	6.19	.76	.55	1.22	8.57	8.70	D
3	1140	1234.3	122	1.32	1.32	101	16.9	2430	1228.8	8.50	9.11	763	0	29.9	35.5	446	97637	816	17.2	46	115	6.19	.67	.48	1.22	8.57	8.70	D
4	1140	1234.9	133	1.17	1.17	104	12.4	2430	1228.8	8.50	9.11	763	0	29.9	35.5	445	97663	817	17.2	43	115	6.19	.61	.43	1.22	8.58	8.70	D
5	1206	1235.4	57.1	1.07	1.07	105	6.5	2430	1232.4	8.49	9.24	731	0	29.7	37.0	472	97682	817	17.2	74	115	6.19	.71	.55	1.22	8.54	8.70	DX
6	1206	1235.7	105	1.24	1.24	107	4.5	2430	1232.4	8.49	9.19	751	0	29.6	36.8	470	97700	817	17.2	95	114	6.19	.55	.40	1.23	8.54	8.70	D
7	1206	1236.0	86.2	1.33	1.33	105	7.6	2420	1232.4	8.49	9.19	757	0	29.6	36.8	470	97719	818	17.2	59	114	6.20	.64	.48	1.22	8.54	8.70	D
8	1206	1236.6	138	1.35	1.35	105	9.7	2420	1232.4	8.49	9.19	760	0	29.6	36.8	469	97742	818	17.2	40	114	6.20	.58	.41	1.23	8.55	8.70	D
9	1207	1236.9	93.9	1.41	1.41	103	12.3	2420	1232.4	8.49	9.19	763	0	29.6	36.8	469	97763	819	17.2	45	114	6.20	.69	.51	1.23	8.55	8.70	D
0	1207	1237.5	138	1.46	1.46	104	12.8	2420	1232.4	8.49	9.19	764	0	29.6	36.8	468	97785	819	17.2	37	114	6.20	.61	.43	1.23	8.56	8.70	D
1	1207	1237.8	128	1.36	1.36	103	14.0	2420	1232.4	8.49	9.19	765	0	29.6	36.8	468	97799	820	17.2	29	114	6.20	.64	.45	1.23	8.56	8.70	D
2	1207	1238.1	106	1.47	1.47	103	14.5	2420	1232.4	8.49	9.19	765	0	29.6	36.8	468	97813	820	17.2	28	114	6.20	.69	.50	1.23	8.56	8.70	D
3	1207	1238.8	175	1.45	1.45	103	15.0	2420	1232.4	8.49	9.19	766	0	29.6	36.8	468	97833	821	17.2	26	114	6.20	.57	.38	1.23	8.57	8.70	D
4	1207	1239.3	149	1.46	1.46	103	16.2	2420	1232.4	8.49	9.19	765	0	29.6	36.8	466	97856	821	17.2	20	114	6.20	.62	.43	1.23	8.57	8.70	D
5	1208	1239.8	123	1.79	1.79	103	17.9	2410	1232.4	8.49	9.19	765	0	29.6	36.8	466	97876	822	17.2	48	114	6.20	.68	.49	1.23	8.58	8.70	D
6	1208	1240.2	40.6	1.62	1.62	102	19.6	2400	1232.4	8.49	9.19	766	0	29.6	36.8	466	97951	822	17.2	157	114	6.21	.98	.78	1.23	8.58	8.70	D
7	1209	1240.5	48.7	1.56	1.56	102	16.2	2410	1232.4	8.48	9.11	767	0	29.5	36.5	466	97983	822	17.2	82	114	6.21	.89	.70	1.23	8.59	8.70	D
8	1209	1240.9	23.6	1.65	1.65	102	18.4	2400	1232.4	8.48	9.11	767	0	29.5	36.5	466	98066	823	17.3	214	114	6.21	1.10	.91	1.23	8.59	8.70	D
9	1210	1241.2	18.1	1.76	1.76	101	23.0	2400	1232.4	8.48	9.11	766	0	29.5	36.5	466	98153	823	17.3	244	114	6.22	1.24	1.03	1.23	8.59	8.70	D
0	1211	1241.5	42.4	1.85	1.85	101	21.2	2410	1232.4	8.48	9.11	766	0	29.5	36.5	466	98195	823	17.3	135	114	6.22	.99	.78	1.23	8.59	8.70	D
1	1211	1241.8	48.2	1.79	1.79	101	23.3	2400	1232.4	8.48	9.11	767	0	29.5	36.5	467	98232	824	17.3	138	114	6.22	.98	.77	1.23	8.59	8.70	D
2	1212	1242.1	44.2	1.72	1.72	101	22.6	2410	1232.4	8.44	9.08	767	0	29.4	36.3	467	98272	824	17.3	138	114	6.23	.99	.78	1.23	8.59	8.70	D
3	1212	1242.4	25.7	1.82	1.82	100	23.7	2400	1232.4	8.44	9.08	767	0	29.4	36.3	468	98340	824	17.3	183	114	6.23	1.15	.94	1.23	8.60	8.70	D
4	1213	1242.7	27.9	1.73	1.73	101	24.4	2400	1232.4	8.44	9.08	767	0	29.4	36.3	470	98397	824	17.3	156	114	6.23	1.14	.92	1.23	8.60	8.70	D
5	1213	1243.0	96.6	1.93	1.93	101	24.2	2400	1232.4	8.44	9.08	767	0	29.4	36.3	470	98418	825	17.3	47	114	6.23	.80	.59	1.23	8.60	8.70	D
6	1213	1243.3	38.4	1.94	1.94	101	24.3	2400	1232.4	8.44	9.08	768	0	29.4	36.3	469	98448	825	17.3	78	114	6.24	1.05	.84	1.23	8.60	8.70	D

EKLOG

AMOCO AUST. Tilana No.1

329112

Data Printed at time 14:39 Date Oct 9 '85
Data Recorded at time 12:13 Date Sep 11 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
57	1213	1243.6	86.2	1.80	1.80	100	23.5	2390	1232.4	8.44	9.08	768	0	29.4	36.3	470	98466	825	17.3	107	114	6.24	.82	.61	1.23	8.61	8.70	D
58	1215	1243.9	14.0	1.90	1.90	101	26.3	2390	1232.4	8.43	9.16	767	0	29.3	36.8	474	98579	826	17.3	264	114	6.25	1.35	1.13	1.23	8.61	8.70	D
59	1216	1244.2	17.8	2.02	2.02	101	28.8	2370	1232.4	8.43	9.16	768	0	29.3	36.8	474	98675	826	17.4	267	114	6.25	1.31	1.09	1.23	8.61	8.70	D
60	1222	1244.5	20.8	1.06	1.06	101	30.0	2360	1234.1	8.42	9.07	753	0	29.2	36.9	502	98727	826	17.4	259	114	6.26	1.29	1.06	1.23	8.60	8.70	DX
61	1223	1245.1	34.5	2.11	2.11	95	14.0	2340	1234.9	8.42	9.07	764	0	29.2	36.9	500	98802	827	17.4	193	114	6.26	.92	.74	1.23	8.60	8.70	D†
62	1223	1245.4	28.9	1.84	1.84	93	30.6	2320	1235.6	8.41	9.08	764	0	29.0	37.0	501	98864	827	17.4	226	114	6.27	1.18	.95	1.23	8.60	8.70	D
63	1225	1245.7	14.4	1.91	1.91	99	26.4	2350	1237.1	8.41	9.08	765	0	29.0	37.0	500	98979	828	17.4	378	114	6.27	1.34	1.12	1.23	8.60	8.70	D
64	1226	1246.1	14.7	1.96	1.96	104	25.9	2340	1238.6	8.41	9.08	766	0	29.0	37.0	498	99113	828	17.4	390	115	6.28	1.34	1.12	1.23	8.58	8.70	D
65	1227	1246.3	15.2	1.92	1.92	102	26.1	2340	1239.9	8.69	9.09	768	0	29.0	37.2	499	99221	828	17.5	296	115	6.29	1.33	1.11	1.23	8.58	8.70	D
66	1228	1246.6	16.8	1.96	1.96	103	25.8	2330	1240.6	8.69	9.09	767	0	29.0	37.2	500	99336	828	17.5	324	115	6.30	1.30	1.08	1.23	8.57	8.70	D
67	1229	1246.9	14.4	2.00	2.00	103	24.8	2330	1241.4	8.69	9.09	767	0	29.0	37.2	501	99458	829	17.5	432	115	6.31	1.33	1.11	1.23	8.57	8.70	D
68	1230	1247.3	18.9	2.00	2.00	102	22.8	2320	1241.6	8.97	8.87	766	0	29.1	37.1	503	99571	829	17.5	314	115	6.31	1.22	1.01	1.23	8.57	8.70	D
69	1231	1247.5	16.0	1.96	1.96	102	23.0	2320	1241.6	8.97	8.87	765	0	29.1	37.1	506	99668	829	17.5	285	115	6.32	1.27	1.06	1.23	8.57	8.70	D
70	1232	1247.9	16.8	2.00	2.00	102	22.4	2310	1241.6	8.98	8.79	765	0	29.1	37.1	507	99785	830	17.5	249	115	6.33	1.25	1.04	1.23	8.58	8.70	D
71	1233	1248.2	15.5	2.06	2.06	103	23.3	2320	1241.6	8.98	8.79	766	0	29.1	37.1	510	99900	830	17.6	344	115	6.33	1.29	1.07	1.23	8.58	8.70	D
72	1235	1248.5	19.2	1.94	1.94	102	21.7	2300	1241.6	8.98	8.79	765	0	29.1	37.1	511	100010	830	17.6	302	115	6.34	1.20	.99	1.23	8.59	8.70	D
73	1235	1249.1	34.4	2.04	2.04	102	21.9	2310	1241.6	8.99	8.77	764	0	29.2	37.1	513	100093	831	17.6	162	115	6.35	1.05	.84	1.23	8.59	8.70	D
74	1236	1249.4	29.6	1.97	1.97	101	22.4	2300	1241.6	8.99	8.77	764	0	29.2	37.1	514	100157	831	17.6	173	115	6.35	1.10	.89	1.23	8.59	8.70	D
75	1237	1249.7	28.1	2.01	2.01	102	23.4	2300	1241.6	8.99	8.77	764	0	29.2	37.1	515	100218	831	17.6	166	115	6.35	1.12	.91	1.23	8.60	8.70	D
76	1237	1250.0	38.8	1.88	1.88	101	22.0	2290	1241.6	8.99	8.77	763	0	29.2	37.1	517	100265	832	17.6	167	115	6.36	1.02	.81	1.23	8.60	8.70	D
77	1238	1250.3	42.4	1.81	1.81	102	22.8	2300	1241.6	8.98	8.73	763	0	29.2	37.2	518	100313	832	17.6	132	115	6.36	1.00	.79	1.23	8.60	8.70	D
78	1238	1250.6	21.0	1.89	1.89	101	22.6	2300	1241.6	8.98	8.73	763	0	29.2	37.2	518	100385	832	17.6	187	115	6.36	1.19	.98	1.23	8.61	8.70	D
79	1239	1250.9	13.7	1.90	1.90	101	23.2	2310	1241.6	8.98	8.73	764	0	29.2	37.2	520	100482	833	17.7	258	115	6.37	1.31	1.10	1.23	8.61	8.70	D
80	1240	1251.2	16.2	1.98	1.98	101	23.3	2300	1241.6	8.98	8.73	763	0	29.2	37.2	524	100596	833	17.7	407	115	6.38	1.27	1.05	1.23	8.61	8.70	D
81	1242	1251.6	17.8	1.93	2.03	102	23.2	2300	1241.6	8.98	8.73	764	0	29.3	37.4	525	100715	833	17.7	315	115	6.38	1.24	1.03	1.23	8.62	8.70	D
82	1242	1251.8	17.8	2.06	2.06	102	21.6	2290	1241.6	8.98	8.73	763	0	29.3	37.4	527	100793	834	17.7	236	115	6.39	1.22	1.01	1.23	8.62	8.70	D
83	1243	1252.1	44.7	2.01	2.01	101	19.6	2290	1241.6	8.98	8.73	763	0	29.3	37.4	528	100837	834	17.7	120	115	6.39	.95	.75	1.23	8.62	8.70	D
84	1243	1252.4	67.0	1.82	1.82	101	17.6	2300	1241.6	8.98	8.73	762	0	29.3	37.4	528	100856	834	17.7	71	115	6.39	.82	.63	1.23	8.62	8.70	D
85	1243	1252.7	29.0	1.83	1.83	102	17.8	2290	1241.6	8.98	8.94	762	0	29.3	37.3	529	100905	835	17.7	145	115	6.40	1.04	.84	1.23	8.63	8.70	D
86	1244	1253.0	26.6	1.74	1.74	103	18.5	2260	1241.6	8.98	8.94	763	0	29.3	37.3	529	100968	835	17.7	160	115	6.40	1.07	.87	1.23	8.63	8.70	D
87	1245	1253.3	17.5	1.87	1.87	102	20.5	2280	1241.6	8.98	8.94	762	0	29.3	37.3	532	101071	835	17.8	352	115	6.40	1.20	1.00	1.23	8.63	8.70	D
88	1246	1253.7	18.2	1.84	1.84	103	20.2	2290	1241.6	8.98	8.94	763	0	29.3	37.3	533	101159	835	17.8	244	115	6.41	1.19	.98	1.23	8.64	8.70	D
89	1257	1254.0	43.9	1.98	1.98	98	20.0	2280	1244.3	8.97	9.25	745	0	29.5	37.0	558	101200	836	17.8	134	116	6.41	.95	.75	1.23	8.62	8.70	DX
90	1257	1254.3	52.7	2.02	2.02	91	22.8	2280	1244.7	8.96	9.31	756	0	29.3	36.9	553	101233	836	17.8	99	115	6.41	.92	.71	1.23	8.62	8.70	D
91	1258	1254.6	13.8	1.87	1.87	97	22.1	2280	1245.7	8.96	9.31	762	0	29.3	36.9	546	101337	836	17.8	308	116	6.42	1.28	1.07	1.23	8.62	8.70	D
92	1259	1254.9	24.8	1.95	1.95	97	20.9	2280	1246.4	8.96	9.31	763	0	29.3	36.9	539	101410	837	17.8	217	116	6.42	1.11	.90	1.23	8.61	8.70	D
93	1300	1255.2	27.3	1.94	1.94	97	21.4	2280	1247.1	8.96	9.31	763	0	29.3	36.9	535	101472	837	17.8	223	116	6.43	1.09	.88	1.23	8.61	8.70	D
94	1300	1255.5	26.9	2.15	2.15	96	21.8	2270	1247.6	8.92	9.27	764	0	29.2	36.9	528	101540	837	17.8	174	116	6.43	1.10	.89	1.23	8.61	8.70	D
95	1301	1255.8	31.4	2.08	2.08	99	22.5	2270	1247.9	8.92	9.27	764	0	29.2	36.9	526	101599	838	17.8	154	116	6.43	1.07	.86	1.23	8.61	8.70	D
96	1301	1256.1	46.2	2.20	2.20	98	22.4	2270	1248.2	8.92	9.27	765	0	29.2	36.9	524	101633	838	17.9	94	116	6.44	.97	.76	1.23	8.61	8.70	D
97	1302	1256.5	106	2.15	2.15	98	20.6	2270	1248.3	8.92	9.27	764	0	29.2	36.9	523	101653	838	17.9	65	116	6.44	.73	.52	1.23	8.61	8.70	D
98	1303	1257.1	19.6	1.85	1.85	100	21.5	2260	1249.3	8.88	9.04	763	0	29.3	37.2	516	101821	839	17.9	265	116	6.45	1.19	.98	1.23	8.61	8.70	D
99	1304	1257.3	13.4	1.92	1.92	98	23.7	2250	1249.9	8.88	9.04	764	0	29.3	37.2	515	101910	839	17.9	286	116	6.45	1.32	1.10	1.23	8.61	8.70	D
00	1306	1257.6	13.6	1.97	1.97	99	23.1	2250	1250.5	8.86	9.39	764	0	29.3	36.9	514	102050	839	17.9	419	116	6.46	1.31	1.09	1.23	8.60	8.70	D
01	1306	1257.9	52.9	2.07	2.07	99	21.8	2250	1250.5	8.86	9.39	764	0	29.3	36.9	514	102073	840	17.9	134	116	6.46	.93	.72	1.23	8.61	8.70	D
02	1307	1258.2	21.5	2.10	2.20	98	23.2	2260	1250.7	8.86	9.39	763	0	29.3	36.9	514	102155	840	17.9	220	116	6.47	1.18	.97	1.23	8.61	8.70	D
03	1307	1258.6	31.2	2.02	2.02	99	22.3	2260	1250.8	8.86	9.39	764	0	29.3	36.9	514	102219	840	17.9	181	116	6.47	1.07	.86	1.23	8.61	8.70	D
04	1307	1258.8	56.6	1.98	1.98	98	21.6	2250	1250.8	8.86	9.39	764	0	29.3	36.9	515	102240	841	18.0	73	116	6.47	.90	.69	1.23	8.61	8.70	D
05	1309	1259.1	14.3	1.87	1.87	99	22.6	2260	1251.0	8.85	9.31	763	0	28.4	37.0	517	102367	841	18.0	318	116	6.48	1.28	1.07	1.23	8.61	8.70	D
06	1310	1259.4	15.5	1.85	1.85	99	23.2	2250	1251.2	8.86	9.23	764	0	26.8	37.1	518	102478	841	18.0	354	116	6.49	1.27	1.05	1.23	8.61	8.70	D

MOCO AUST. Tilana No.1 329113

Data Printed at time 14:43 Date Oct 9 '85
Data Recorded at time 13:11 Date Sep 11 '85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DKC	NK	NKB	ECD	EST FM PR	
07	1311	1259.8	18.4	1.84	1.84	99	22.4	2220	1251.6	8.86	9.23	764	0	26.8	37.1	518	102580	842	18.0	283	116	6.49	1.21	1.00	1.23	8.61	8.70	D
08	1312	1260.0	11.7	1.86	1.86	98	23.4	2240	1252.2	8.86	9.23	765	0	26.8	37.1	518	102722	842	18.0	457	116	6.50	1.35	1.13	1.23	8.61	8.70	D
09	1314	1260.3	10.1	1.85	1.85	99	23.0	2260	1252.7	8.88	9.17	766	0	28.6	37.1	519	102898	842	18.1	468	116	6.51	1.38	1.17	1.23	8.60	8.70	D
10	1315	1260.7	17.0	1.95	1.95	100	21.2	2250	1252.9	8.88	9.17	765	0	28.6	37.1	518	103005	842	18.1	325	116	6.52	1.22	1.01	1.23	8.60	8.70	D
11	1317	1261.0	11.2	1.78	1.78	99	22.5	2230	1253.3	8.87	9.17	765	0	29.2	36.9	511	103164	843	18.1	605	117	6.53	1.35	1.13	1.23	8.61	8.70	D
12	1318	1261.3	15.8	1.87	1.87	99	23.6	2250	1253.7	8.87	9.17	765	0	29.2	36.9	503	103283	843	18.1	339	117	6.54	1.27	1.05	1.23	8.61	8.70	D
13	1319	1261.6	12.5	1.87	1.87	99	22.6	2260	1254.0	8.92	9.17	765	0	29.5	36.8	505	103407	843	18.1	369	117	6.54	1.31	1.10	1.23	8.64	8.70	D
14	1320	1261.9	17.5	1.93	1.93	98	22.7	2260	1254.3	8.92	9.17	765	0	29.5	36.8	504	103509	844	18.2	356	117	6.55	1.22	1.01	1.23	8.64	8.70	D
15	1323	1262.2	7.75	1.90	1.90	98	24.1	2270	1255.3	8.96	9.16	765	0	30.0	36.9	505	103738	844	18.2	358	117	6.56	1.46	1.24	1.23	8.67	8.70	D
16	1324	1262.5	11.2	1.92	1.92	99	24.2	2280	1256.0	8.98	9.14	765	0	30.1	37.0	505	103898	844	18.2	419	117	6.57	1.36	1.14	1.23	8.70	8.70	D
17	1326	1262.8	12.5	1.73	1.73	99	23.9	2280	1256.8	8.98	9.14	765	0	30.1	37.0	506	104046	845	18.3	480	117	6.58	1.33	1.11	1.23	8.70	8.70	D
18	1334	1263.1	23.4	1.41	1.41	99	14.0	2310	1259.0	8.94	9.14	763	0	30.4	36.8	526	104114	845	18.3	237	117	6.58	1.01	.82	1.23	8.75	8.70	DT
19	1334	1263.5	27.3	1.90	1.90	98	19.4	2310	1259.4	8.94	9.14	769	0	30.4	36.8	522	104196	845	18.3	246	117	6.59	1.05	.84	1.23	8.75	8.70	D
20	1337	1264.0	10.5	1.97	1.97	101	24.4	2300	1260.0	8.97	9.13	770	0	30.5	36.3	516	104469	846	18.3	316	117	6.61	1.37	1.15	1.23	8.78	8.70	D
21	1338	1264.3	17.3	2.01	2.01	101	24.0	2300	1260.2	8.95	9.13	769	0	30.6	36.4	509	104578	846	18.3	288	117	6.61	1.23	1.01	1.23	8.82	8.70	D
22	1340	1264.6	14.2	1.95	1.95	99	23.5	2290	1260.2	8.95	9.13	771	0	30.6	36.4	509	104702	846	18.4	459	118	6.62	1.27	1.05	1.23	8.82	8.70	D
23	1341	1265.0	16.2	2.04	2.04	100	23.6	2310	1260.2	8.95	9.13	770	0	30.6	36.4	508	104828	847	18.4	306	118	6.63	1.24	1.02	1.23	8.82	8.70	D
24	1342	1265.2	19.9	2.06	2.06	100	22.9	2300	1260.4	8.91	9.12	770	0	30.8	36.7	508	104906	847	18.4	256	118	6.63	1.17	.96	1.23	8.85	8.70	D
25	1343	1265.5	13.3	1.91	1.91	100	22.5	2310	1260.8	8.91	9.12	769	0	30.8	36.7	507	105003	847	18.4	270	118	6.64	1.27	1.05	1.23	8.85	8.70	D
26	1344	1265.8	18.8	1.90	1.90	99	22.6	2300	1261.1	8.91	9.12	770	0	30.8	36.7	507	105101	848	18.4	321	118	6.65	1.18	.96	1.23	8.85	8.70	D
27	1345	1266.1	10.5	1.89	1.89	100	22.0	2310	1261.9	8.91	9.10	770	0	30.8	36.8	507	105254	848	18.5	409	118	6.65	1.32	1.11	1.23	8.88	8.70	D
28	1346	1266.5	20.2	1.76	1.76	101	20.5	2300	1262.3	8.91	9.10	770	0	30.8	36.8	509	105347	848	18.5	309	118	6.66	1.13	.92	1.23	8.88	8.70	D
29	1348	1266.7	9.90	1.89	1.94	100	21.5	2310	1263.1	8.94	9.08	769	0	30.9	36.9	510	105521	849	18.5	489	118	6.67	1.32	1.11	1.23	8.91	8.70	D
30	1349	1267.1	17.4	2.02	2.02	100	21.1	2300	1263.5	8.94	9.08	769	0	30.9	36.9	511	105626	849	18.5	288	118	6.67	1.17	.96	1.23	8.91	8.70	D
31	1350	1267.4	14.9	1.93	1.93	100	21.9	2300	1264.0	8.95	9.05	770	0	30.9	37.0	512	105747	849	18.5	387	118	6.68	1.22	1.01	1.23	8.93	8.70	D
32	1351	1267.7	11.2	1.81	1.81	99	22.0	2310	1264.6	8.95	9.05	771	0	30.9	37.0	512	105889	849	18.6	453	118	6.69	1.29	1.08	1.23	8.93	8.70	D
33	1353	1268.0	14.9	1.86	1.86	100	21.5	2300	1265.1	9.04	9.05	770	0	29.9	36.8	511	106006	850	18.6	414	118	6.70	1.21	1.00	1.23	8.96	8.70	D
34	1353	1268.3	22.4	1.84	1.84	101	21.3	2310	1265.4	9.04	9.05	769	0	29.9	36.8	511	106092	850	18.6	306	118	6.70	1.11	.90	1.23	8.96	8.70	D
35	1354	1268.6	15.8	1.75	1.75	101	21.3	2320	1265.8	9.04	9.05	769	0	29.9	36.8	515	106201	850	18.6	293	118	6.71	1.19	.98	1.23	8.96	8.70	D
36	1356	1268.9	11.1	1.90	1.90	100	22.0	2310	1266.2	8.99	9.06	769	0	30.7	36.7	514	106342	851	18.6	502	119	6.72	1.29	1.08	1.23	8.98	8.70	D
37	1356	1269.2	37.2	1.80	1.80	101	21.6	2310	1266.2	8.99	9.06	769	0	30.7	36.7	512	106377	851	18.6	237	119	6.72	.98	.77	1.23	8.98	8.70	D
38	1357	1269.5	17.6	1.90	2.03	100	20.1	2300	1266.5	8.99	9.06	769	0	30.7	36.7	514	106479	851	18.7	270	119	6.72	1.14	.94	1.23	8.99	8.70	D
39	1358	1269.8	29.3	1.95	1.95	99	21.5	2320	1266.6	8.99	9.06	768	0	30.7	36.7	514	106543	852	18.7	196	119	6.73	1.03	.82	1.23	8.99	8.70	D
40	1358	1270.1	46.9	1.78	1.78	100	18.6	2320	1266.7	8.99	9.06	769	0	30.7	36.7	514	106576	852	18.7	111	119	6.73	.88	.68	1.23	8.99	8.70	D
41	1359	1270.5	21.3	1.81	1.81	98	21.3	2300	1266.9	8.98	9.04	770	0	30.9	36.6	515	106682	852	18.7	288	119	6.74	1.11	.90	1.23	9.02	8.70	D
42	1401	1270.7	9.26	1.84	1.84	100	23.9	2310	1267.2	8.98	9.04	769	0	30.9	36.6	514	106821	853	18.7	454	119	6.74	1.36	1.14	1.23	9.02	8.70	D
43	1403	1271.0	10.0	1.99	1.99	100	23.8	2300	1267.5	8.97	9.06	769	0	31.0	36.8	518	107002	853	18.7	461	119	6.75	1.33	1.12	1.23	9.03	8.70	D
44	1403	1271.3	28.8	2.18	2.18	99	22.2	2300	1267.7	8.97	9.06	769	0	31.0	36.8	517	107060	853	18.8	361	119	6.76	1.04	.83	1.23	9.03	8.70	D
45	1404	1271.6	13.4	2.00	2.00	101	22.8	2300	1268.1	8.97	9.06	769	0	31.0	36.8	517	107192	853	18.8	518	119	6.77	1.25	1.03	1.23	9.03	8.70	D
46	1406	1272.0	12.1	2.00	2.00	99	25.2	2310	1268.4	8.95	9.06	770	0	31.1	37.0	519	107322	854	18.8	391	119	6.77	1.30	1.08	1.23	9.03	8.70	D
47	1414	1272.2	16.7	1.22	1.22	99	24.8	2310	1269.3	8.96	9.06	748	0	31.1	37.2	538	107401	854	18.8	306	119	6.78	1.22	1.00	1.23	9.02	8.70	DX
48	1415	1272.8	14.6	1.84	1.84	102	20.2	2300	1269.4	8.97	9.07	772	0	31.1	36.8	533	107533	855	18.8	274	119	6.78	1.19	.98	1.23	9.02	8.70	D
49	1416	1273.2	12.6	1.66	1.66	102	17.1	2310	1269.4	8.96	9.07	773	0	31.2	36.7	528	107689	855	18.9	501	119	6.79	1.18	.98	1.23	9.02	8.70	D
50	1417	1273.5	23.9	1.76	1.76	101	19.4	2300	1269.5	8.96	9.07	773	0	31.2	36.7	527	107770	855	18.9	210	119	6.80	1.06	.85	1.23	9.03	8.70	D
51	1420	1273.8	6.55	1.66	1.66	102	18.7	2300	1269.8	8.94	9.08	774	0	31.2	36.8	526	108013	856	18.9	2000	120	6.81	1.36	1.16	1.23	9.03	8.70	D
52	1421	1274.1	12.5	1.60	1.60	101	19.3	2300	1270.1	8.94	9.08	774	0	31.2	36.8	524	108160	856	18.9	391	120	6.82	1.21	1.01	1.23	9.02	8.70	D
53	1423	1274.4	11.0	1.71	1.71	101	19.3	2290	1270.5	8.94	9.06	773	0	31.3	36.9	525	108325	856	19.0	460	120	6.83	1.24	1.04	1.23	9.02	8.70	D
54	1424	1274.7	17.7	1.82	1.82	101	19.0	2290	1270.8	8.94	9.06	773	0	31.3	36.9	525	108437	856	19.0	268	120	6.83	1.13	.92	1.23	9.02	8.70	D
55	1424	1275.0	44.8	1.84	1.84	101	18.5	2290	1270.9	8.94	9.06	772	0	31.3	36.9	524	108472	857	19.0	105	120	6.83	.89	.69	1.23	9.02	8.70	D
56	1425	1275.3	47.7	1.68	1.68	102	15.6	2290	1271.0	8.94	9.06	772	0	31.3	36.9	525	108509	857	19.0	139	120	6.84	.85	.65	1.23	9.02	8.70	D

EKLOG

AMOCO AUST. Tilana No.1 329114

Data Printed at time 14:47 Date Oct 9 '85
Data Recorded at time 14:25 Date Sep 11 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
357	1425	1275.7	50.5	1.60	1.60	101	13.7	2280	1271.2	8.94	9.08	772	0	31.4	37.1	524	108551	857	19.0	112	120	6.84	.80	.61	1.23	9.03	8.70	D
358	1425	1275.9	29.9	1.52	1.52	103	11.2	2310	1271.3	8.94	9.08	773	0	31.4	37.1	525	108602	858	19.0	163	120	6.84	.88	.70	1.23	9.03	8.70	D
359	1426	1276.2	40.9	1.71	1.71	101	11.4	2280	1271.4	8.94	9.08	774	0	31.4	37.1	525	108645	858	19.0	130	120	6.84	.82	.63	1.23	9.03	8.70	D
360	1426	1276.5	84.5	1.87	1.87	101	16.7	2290	1271.5	8.94	9.08	774	0	31.4	37.1	525	108661	858	19.0	44	120	6.84	.72	.52	1.23	9.03	8.70	D
361	1427	1276.9	30.5	1.83	1.83	102	18.7	2270	1271.7	8.94	9.08	774	0	31.4	37.1	524	108726	859	19.0	154	120	6.85	.99	.78	1.23	9.03	8.70	D
362	1428	1277.1	13.3	1.86	1.86	101	19.0	2290	1272.0	8.92	9.06	773	0	31.4	37.3	525	108829	859	19.0	367	120	6.85	1.19	.99	1.23	9.03	8.70	D
363	1430	1277.4	7.45	1.92	1.92	101	19.5	2290	1272.5	8.92	9.06	772	0	31.4	37.3	527	109063	859	19.1	931	120	6.87	1.34	1.13	1.23	9.03	8.70	D
364	1432	1277.7	8.63	1.78	1.78	101	19.1	2300	1273.1	8.93	9.08	774	0	31.4	37.3	527	109277	860	19.1	561	120	6.88	1.30	1.09	1.23	9.02	8.70	D
365	1433	1278.0	17.4	1.73	1.73	101	18.7	2290	1273.4	8.93	9.08	776	0	31.4	37.3	526	109384	860	19.1	280	120	6.88	1.12	.92	1.23	9.02	8.70	D
366	1435	1278.3	8.85	1.68	2.35	101	19.5	2300	1273.8	8.92	9.11	775	0	31.5	37.3	529	109587	860	19.2	560	120	6.89	1.30	1.09	1.23	9.02	8.70	D
367	1436	1278.6	15.7	1.86	1.86	101	19.3	2280	1274.1	8.92	9.13	775	0	31.6	37.3	527	109704	860	19.2	314	121	6.90	1.16	.95	1.23	9.02	8.70	D
368	1439	1278.9	6.99	1.68	2.35	102	19.5	2310	1274.8	8.93	9.16	776	0	31.6	37.4	528	109965	861	19.2	623	121	6.91	1.36	1.15	1.23	9.03	8.70	D
369	1440	1279.4	22.0	1.68	2.35	101	19.2	2280	1275.1	8.93	9.16	777	0	31.6	37.4	527	110085	861	19.3	179	121	6.92	1.07	.86	1.23	9.03	8.70	D
370	1444	1279.9	7.33	1.35	2.35	101	19.5	2300	1276.6	8.91	9.11	776	0	31.7	37.4	530	110497	862	19.3	509	121	6.94	1.34	1.13	1.23	9.04	8.70	D
371	1450	1280.5	4.84	1.55	1.55	102	19.7	2320	1278.3	9.01	9.13	775	0	31.7	37.5	534	111123	862	19.4	882	122	6.97	1.45	1.24	1.23	9.04	8.70	D
372	1453	1280.8	6.77	1.67	1.67	102	19.5	2320	1278.6	8.98	9.12	776	0	31.8	37.5	536	111360	863	19.5	644	122	6.99	1.36	1.15	1.23	9.05	8.70	D
373	1455	1281.1	9.75	1.88	1.88	102	19.6	2320	1278.8	8.96	9.08	776	0	31.8	37.3	537	111560	863	19.5	588	122	7.00	1.28	1.06	1.23	9.05	8.70	D
374	1457	1281.4	6.44	1.55	1.55	101	21.5	2310	1279.4	8.95	9.06	776	0	31.9	37.5	535	111835	863	19.5	827	122	7.01	1.41	1.19	1.23	9.04	8.70	D
375	1505	1281.7	7.82	1.06	1.03	102	20.6	2230	1280.4	8.97	9.05	769	0	32.0	37.7	553	111902	863	19.5	655	122	7.02	1.35	1.13	1.23	9.04	8.70	DX
376	1505	1282.1	97.3	1.40	1.40	100	8.4	2290	1280.4	8.97	9.05	772	0	32.0	37.7	552	111932	864	19.6	411	122	7.02	.59	.41	1.23	9.04	8.70	D↑
377	1508	1282.3	5.49	1.67	1.67	98	18.3	2290	1280.8	9.01	9.08	771	0	32.0	37.5	551	112149	864	19.6	727	122	7.03	1.38	1.17	1.23	9.04	8.70	D
378	1509	1282.6	9.25	1.68	1.66	96	18.3	2290	1281.6	9.01	9.03	771	0	32.0	37.8	549	112326	864	19.6	521	122	7.04	1.26	1.05	1.23	9.03	8.70	D
379	1512	1283.0	8.42	1.62	1.03	97	19.8	2290	1283.3	8.98	9.09	771	0	32.1	37.7	548	112571	865	19.7	618	123	7.05	1.31	1.09	1.23	9.02	8.70	D
380	1514	1283.3	10.1	1.87	1.87	96	18.5	2290	1283.7	8.98	9.09	772	0	32.1	37.7	548	112756	865	19.7	587	123	7.06	1.24	1.03	1.23	9.02	8.70	D
381	1515	1283.5	18.1	2.04	2.04	95	17.7	2290	1283.8	8.98	9.09	771	0	32.1	37.7	548	112822	865	19.7	272	123	7.06	1.09	.88	1.23	9.02	8.70	D
382	1515	1283.8	35.0	1.71	1.71	97	17.7	2280	1283.9	8.98	9.08	771	0	32.1	37.9	548	112875	866	19.7	158	123	7.06	.93	.72	1.23	9.02	8.70	D
383	1516	1284.1	33.8	1.65	1.65	96	17.7	2280	1283.9	8.98	9.08	771	0	32.1	37.9	548	112920	866	19.7	136	123	7.07	.94	.73	1.23	9.03	8.70	D
384	1516	1284.4	29.1	1.72	1.73	97	16.4	2280	1284.0	8.98	9.08	771	0	32.1	37.9	548	112979	866	19.7	167	123	7.07	.96	.75	1.23	9.03	8.70	D
385	1516	1284.7	62.9	1.91	1.91	96	18.6	2290	1284.1	8.98	9.08	770	0	32.1	37.9	548	113006	866	19.7	216	123	7.07	.80	.59	1.23	9.03	8.70	D
386	1517	1285.0	18.0	1.88	1.92	95	20.5	2280	1284.2	8.98	9.08	771	0	32.1	37.9	548	113097	867	19.8	223	123	7.07	1.13	.91	1.23	9.03	8.70	D
387	1518	1285.4	40.9	1.69	1.69	97	18.1	2290	1284.3	8.98	9.06	771	0	32.2	37.9	548	113140	867	19.8	170	123	7.08	.90	.69	1.23	9.03	8.70	D
388	1518	1285.6	35.1	1.68	1.68	96	15.5	2290	1284.4	8.98	9.06	771	0	32.2	37.9	548	113184	867	19.8	152	123	7.08	.90	.70	1.23	9.04	8.70	D
389	1519	1286.0	32.2	1.82	1.82	96	15.5	2270	1284.5	8.98	9.06	772	0	32.2	37.9	548	113238	868	19.8	150	123	7.08	.92	.72	1.23	9.04	8.70	D
390	1520	1286.3	13.7	1.66	1.66	96	19.9	2280	1284.8	8.99	9.05	772	0	32.3	38.0	548	113386	868	19.8	310	123	7.09	1.19	.97	1.23	9.04	8.70	D
391	1522	1286.6	8.13	1.63	1.63	97	18.6	2290	1285.1	8.99	9.05	772	0	32.3	38.0	548	113571	868	19.8	808	123	7.10	1.29	1.08	1.23	9.04	8.70	D
392	1524	1286.9	11.1	1.77	1.77	96	18.5	2290	1285.4	8.98	9.06	772	0	32.4	37.7	548	113704	869	19.9	455	123	7.10	1.22	1.00	1.23	9.04	8.70	D
393	1525	1287.2	10.7	1.64	1.64	101	18.8	2300	1285.8	8.98	9.06	773	0	32.4	37.7	548	113876	869	19.9	356	123	7.11	1.24	1.03	1.23	9.03	8.70	D
394	1527	1287.5	8.73	1.87	1.87	102	18.9	2300	1286.1	8.99	9.05	773	0	32.5	37.7	548	114086	869	19.9	469	124	7.12	1.29	1.08	1.23	9.03	8.70	D
395	1529	1287.8	9.70	1.63	1.63	103	18.9	2280	1286.3	9.00	9.03	775	0	32.6	37.8	548	114279	870	20.0	611	124	7.13	1.27	1.06	1.23	9.03	8.70	D
396	1532	1288.1	9.14	1.53	1.53	102	19.6	2290	1286.6	9.00	9.03	774	0	32.6	37.8	548	114511	870	20.0	661	124	7.15	1.30	1.08	1.23	9.03	8.70	D
397	1535	1288.4	3.90	1.66	1.66	102	19.8	2290	1286.9	8.99	9.05	777	0	32.7	37.7	548	114880	870	20.1	947	124	7.17	1.51	1.29	1.23	9.03	8.70	D
398	1537	1288.7	8.97	1.78	1.78	102	20.2	2250	1287.2	8.99	9.04	776	0	32.7	37.7	548	115063	871	20.1	651	124	7.18	1.31	1.09	1.23	9.03	8.70	D
399	1539	1289.0	11.7	1.75	1.75	101	19.3	2260	1287.4	8.99	9.04	775	0	32.7	37.7	548	115223	871	20.1	421	124	7.18	1.23	1.01	1.23	9.03	8.70	D
400	1540	1289.3	10.1	1.64	1.64	101	18.7	2290	1287.6	8.98	9.01	775	0	32.8	37.8	548	115402	871	20.1	477	125	7.19	1.25	1.04	1.23	9.03	8.70	D
401	1543	1289.7	9.64	1.63	1.63	102	18.9	2300	1287.8	8.97	9.01	774	0	32.8	37.8	548	115624	871	20.2	724	125	7.20	1.27	1.05	1.23	9.03	8.70	D
402	1544	1289.9	8.58	1.78	1.78	102	19.3	2280	1287.9	8.97	9.01	775	0	32.8	37.8	548	115789	872	20.2	488	125	7.21	1.30	1.09	1.23	9.03	8.70	D
403	1545	1290.2	15.3	1.74	1.74	102	19.7	2280	1288.0	8.98	9.02	774	0	32.9	37.7	548	115905	872	20.2	367	125	7.22	1.17	.95	1.23	9.03	8.70	D
404	1546	1290.6	15.5	1.76	1.76	101	18.6	2300	1288.1	8.98	9.02	775	0	32.9	37.7	548	116009	872	20.2	331	125	7.22	1.15	.93	1.23	9.04	8.70	D

- Circulate bottoms up and POOH due to bit hours and slow ROP.
- NB#4 SMITH F2 12.25". Start depth 4240 ft. (1292.3 m).

EXLOG

AMOCO AUST. Tilana No.1 329115

Data Printed at time 14:51 Date Oct 9 '85
Data Recorded at time 00:44 Date Sep 12 '85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DKC	NK	NKB	ECD	EST FM PR	
29	0044	1292.8	6.51	1.41	1.41	89	3.9	2790	1292.5	9.28	9.70	733	0	31.5	35.8	481	290	.29	.1	3164	27821	.00	.93	.93	1.53	9.28	8.70	D
30	0046	1293.0	4.36	1.59	1.59	89	3.7	2780	1292.5	9.27	9.71	733	0	31.5	35.7	477	511	.47	.1	1468	17773	.00	.99	.99	1.53	9.28	8.70	D
31	0048	1293.3	8.04	1.58	1.58	93	7.9	2800	1292.5	9.29	9.76	735	0	31.5	35.6	476	694	.73	.1	1210	12086	.00	1.03	1.03	1.53	9.29	8.70	D
32	0051	1293.6	9.36	1.69	1.69	93	11.8	2800	1292.5	9.30	9.75	734	0	31.6	35.6	474	915	1.02	.2	624	8526	.00	1.09	1.09	1.53	9.29	8.70	D
33	0052	1293.9	11.0	1.70	1.70	100	11.8	2820	1292.5	9.34	9.77	736	0	31.6	35.5	473	1040	1.32	.2	426	6660	.00	1.07	1.07	1.53	9.30	8.70	D
34	0054	1294.2	8.65	1.80	1.80	101	13.4	2810	1292.5	9.31	9.58	735	0	31.6	35.3	473	1252	1.65	.2	514	5462	.00	1.16	1.16	1.53	9.30	8.70	D
35	0056	1294.5	8.28	1.75	1.75	101	12.8	2810	1292.5	9.35	9.68	735	0	31.6	35.2	471	1476	1.92	.2	826	4695	.00	1.15	1.15	1.53	9.31	8.70	D
36	0059	1294.8	8.72	1.58	1.58	101	13.3	2810	1292.5	9.36	9.94	736	0	31.7	35.3	469	1719	2.25	.3	786	4138	.00	1.15	1.15	1.53	9.32	8.70	D
37	0101	1295.1	6.06	1.73	1.73	101	13.5	2810	1292.5	9.38	9.98	736	0	31.7	35.5	457	1982	2.55	.3	2280	3692	.00	1.23	1.23	1.53	9.33	8.70	D
38	0103	1295.4	7.07	1.67	1.67	101	13.4	2820	1292.5	9.42	10.0	736	0	31.6	35.9	448	2184	2.86	.4	785	3429	.00	1.20	1.20	1.53	9.34	8.70	D
39	0105	1295.7	13.2	1.65	1.65	101	12.7	2840	1292.5	9.42	10.0	738	0	31.6	35.9	439	2323	3.17	.4	367	3060	.00	1.05	1.05	1.53	9.35	8.70	D
40	0106	1296.0	9.38	1.65	1.65	101	14.5	2800	1292.5	9.42	9.94	736	0	31.4	36.2	406	2519	3.47	.4	637	2839	.00	1.15	1.15	1.53	9.36	8.70	D
41	0108	1296.3	9.15	1.78	1.78	101	14.9	2790	1292.5	9.42	9.86	733	0	31.0	36.4	403	2719	3.78	.4	543	2675	.00	1.17	1.17	1.53	9.37	8.70	D
42	0110	1296.6	10.4	1.63	1.63	102	13.6	2800	1292.5	9.42	9.88	733	0	30.9	36.3	402	2897	4.08	.5	511	2495	.00	1.11	1.11	1.53	9.38	8.70	D
43	0112	1296.9	8.54	1.89	1.89	108	18.5	2840	1292.5	9.26	9.90	738	0	30.9	36.4	399	3121	4.39	.5	592	2359	.00	1.26	1.26	1.53	9.39	8.70	D
44	0114	1297.2	10.8	1.90	1.90	104	18.0	2810	1292.5	9.30	10.2	737	0	30.9	36.7	397	3295	4.69	.5	495	2237	.00	1.19	1.18	1.53	9.40	8.70	D
45	0116	1297.5	9.66	1.88	1.88	100	18.1	2810	1292.5	9.29	10.5	736	0	30.8	36.8	400	3482	5.00	.6	425	2130	.01	1.20	1.20	1.53	9.41	8.70	D
46	0117	1297.8	11.2	1.99	1.98	99	17.6	2830	1292.5	9.32	10.5	737	0	30.5	36.9	401	3643	5.30	.6	431	2035	.01	1.16	1.16	1.53	9.41	8.70	D
47	0119	1298.2	11.4	1.73	1.73	100	17.9	2840	1292.5	9.33	10.3	735	0	30.2	37.1	403	3819	5.58	.6	467	1959	.01	1.16	1.16	1.53	9.42	8.70	D
48	0123	1298.5	5.18	1.85	1.85	100	17.9	2840	1292.5	9.37	10.1	736	0	29.6	37.4	403	4152	5.91	.7	983	1897	.01	1.34	1.34	1.53	9.43	8.70	D
49	0125	1298.8	7.04	1.81	1.81	100	18.3	2840	1292.5	9.33	10.4	735	0	29.2	37.6	402	4393	6.22	.7	690	1837	.01	1.27	1.27	1.53	9.44	8.70	D
50	0127	1299.1	11.7	1.88	1.88	100	18.3	2840	1292.7	9.34	10.6	735	0	29.1	37.6	404	4546	6.52	.7	483	1770	.01	1.16	1.16	1.53	9.45	8.70	D
51	0129	1299.4	8.99	1.76	1.76	100	17.5	2840	1292.9	9.33	10.7	736	0	29.1	37.6	403	4746	6.83	.8	583	1716	.01	1.20	1.20	1.53	9.45	8.70	D
52	0131	1299.7	7.64	1.81	1.78	100	18.5	2840	1293.0	9.33	11.2	736	0	29.2	37.6	402	5004	7.13	.8	720	1674	.01	1.26	1.26	1.53	9.46	8.70	D
53	0133	1300.0	7.84	1.95	1.03	99	19.1	2840	1293.2	9.27	11.5	735	0	29.2	37.7	401	5212	7.43	.9	581	1629	.01	1.26	1.26	1.53	9.46	8.70	D
54	0135	1300.3	12.4	1.64	1.64	100	18.5	2840	1293.4	9.29	11.0	735	0	29.4	37.9	403	5388	7.72	.9	948	1609	.01	1.15	1.15	1.53	9.46	8.70	D
55	0139	1300.6	4.79	1.77	1.77	99	18.1	2850	1294.1	9.28	10.4	737	0	29.8	38.0	402	5746	8.04	.9	854	1562	.01	1.35	1.35	1.53	9.46	8.70	D
56	0141	1300.9	6.13	1.63	1.63	99	19.0	2850	1294.5	9.27	10.2	736	0	30.4	38.0	404	6000	8.33	1.0	738	1532	.01	1.31	1.31	1.53	9.46	8.70	D
57	0144	1301.2	6.98	1.70	1.70	100	16.5	2850	1294.7	9.24	9.96	736	0	31.6	38.1	406	6229	8.66	1.0	647	1508	.01	1.24	1.24	1.53	9.46	8.70	D
58	0156	1302.0	6.49	1.59	1.59	99	16.0	2850	1294.8	9.23	9.61	173	0	32.3	37.9	436	6471	9.51	1.1	729	1385	.01	1.26	1.26	1.53	9.37	8.70	DK
59	0212	1302.4	7.83	1.91	1.91	100	13.2	2830	1294.8	9.20	9.43	733	0	32.7	35.1	426	6549	9.87	1.1	206	1341	.01	1.26	1.24	1.53	9.45	8.70	D↑
60	0215	1302.8	7.60	1.67	1.65	101	15.0	2820	1294.8	9.25	9.44	734	0	32.5	36.7	424	6843	10.2	1.1	962	1326	.01	1.20	1.20	1.53	9.43	8.70	D
61	0218	1303.1	6.45	1.79	1.79	102	17.4	2810	1294.8	9.26	9.38	734	0	32.2	37.3	427	7118	10.5	1.2	963	1309	.01	1.28	1.28	1.53	9.42	8.70	D
62	0220	1303.3	5.85	1.76	1.76	101	17.9	2820	1294.8	9.28	9.49	734	0	32.1	37.5	427	7361	10.8	1.2	727	1290	.01	1.32	1.31	1.53	9.42	8.70	D
63	0223	1303.6	7.70	1.78	1.78	101	21.4	2830	1294.8	9.31	9.54	735	0	31.8	37.9	429	7590	11.1	1.3	673	1273	.01	1.31	1.31	1.53	9.42	8.70	D
64	0226	1304.0	7.02	1.73	1.73	101	18.9	2820	1294.8	9.34	9.58	735	0	31.9	38.0	431	7871	11.3	1.3	7989	1263	.01	1.29	1.29	1.53	9.42	8.70	D
65	0229	1304.2	4.75	1.91	1.91	102	20.0	2830	1294.8	9.35	9.63	736	0	31.9	37.9	436	8233	11.7	1.4	907	1250	.01	1.40	1.40	1.53	9.42	8.70	D
66	0231	1304.5	11.7	1.87	1.87	101	20.1	2810	1294.8	9.35	9.60	735	0	31.8	37.9	435	8390	12.0	1.4	653	1235	.01	1.19	1.19	1.53	9.43	8.70	D
67	0235	1304.9	4.63	1.78	1.79	101	20.3	2820	1294.8	9.33	9.67	737	0	31.9	38.2	438	8804	12.3	1.4	1634	1226	.01	1.41	1.41	1.53	9.43	8.70	D
68	0236	1305.2	13.2	1.82	1.82	101	20.1	2820	1294.8	9.38	9.59	736	0	32.0	38.3	441	8978	12.6	1.5	488	1208	.01	1.16	1.16	1.53	9.43	8.70	D
69	0239	1305.5	5.04	1.89	1.89	102	19.6	2820	1294.8	9.38	9.60	736	0	32.0	38.2	445	9235	12.9	1.5	770	1196	.02	1.38	1.38	1.53	9.43	8.70	D
70	0242	1305.8	7.59	1.74	1.74	101	19.9	2830	1294.8	9.38	9.60	737	0	32.0	38.2	446	9507	13.2	1.6	899	1191	.02	1.29	1.29	1.53	9.43	8.70	D
71	0246	1306.1	4.11	1.86	1.86	102	19.5	2820	1300.0	9.31	9.62	737	0	31.9	38.2	444	9939	13.5	1.6	1522	1187	.02	1.43	1.43	1.53	9.40	8.70	D-
72	0248	1306.4	6.75	1.79	1.79	102	20.8	2820	1300.0	9.24	9.64	736	0	32.4	38.7	432	10202	13.8	1.7	817	1178	.02	1.35	1.34	1.53	9.34	8.70	D
73	0252	1306.7	5.36	1.88	1.88	102	20.5	2820	1300.0	9.22	9.60	736	0	32.7	38.7	427	10567	14.1	1.7	840	1170	.02	1.40	1.39	1.52	9.34	8.70	D
74	0254	1307.0	7.00	1.85	1.03	102	20.7	2830	1300.0	9.20	9.48	736	0	33.1	38.7	426	10808	14.4	1.8	667	1159	.02	1.33	1.33	1.52	9.34	8.70	D
75	0257	1307.3	7.81	1.81	1.81	102	21.0	2820	1300.0	9.20	9.32	736	0	33.3	38.7	444	11069	14.7	1.8	732	1151	.02	1.31	1.31	1.52	9.34	8.70	D
76	0300	1307.6	4.98	1.70	1.70	101	20.5	2800	1300.0	9.21	9.29	738	0	33.7	38.9	437	11424	15.0	1.9	1059	1148	.02	1.41	1.41	1.52	9.35	8.70	D
77	0302	1307.9	10.5	1.73	1.76	101	21.4	2810	1300.0	9.22	9.31	737	0	33.7	38.9	441	11591	15.4	1.9	463	1133	.02	1.25	1.24	1.52	9.35	8.70	D
78	0307	1308.3	3.98	1.85	1.85	99	21.0	2800	1300.0	9.20	9.32	738	0	33.9	38.7	433	12125	15.7	2.0	1080	1142	.02	1.47	1.47	1.52	9.35	8.70	D

EXLOG

@AMOCO AUST. Tilana No.1 329116

Data Printed at time 14:55 Date Oct 9 '85
Data Recorded at time 03:09 Date Sep 12 '85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST PM PR	
59	0309	1308.5	8.79	2.03	2.03	99	20.4	2800	1300.0	9.21	9.36	736	0	33.9	38.8	433	12298	16.0	2.0	435	1126	.02	1.27	1.27	1.52	9.35	8.70	D
60	0312	1308.8	7.67	1.75	1.75	99	20.5	2800	1300.0	9.23	9.40	737	0	34.1	38.9	434	12556	16.3	2.1	874	1119	.02	1.30	1.30	1.52	9.35	8.70	D
61	0314	1309.2	7.56	1.74	1.80	99	19.8	2810	1300.0	9.17	9.39	737	0	34.3	38.8	435	12808	16.6	2.1	788	1113	.02	1.29	1.29	1.52	9.36	8.70	D
62	0317	1309.4	6.24	1.72	1.72	100	20.3	2810	1300.0	9.17	9.38	737	0	34.3	38.9	436	13032	16.9	2.1	643	1104	.02	1.35	1.35	1.52	9.36	8.70	D
63	0319	1309.7	8.23	1.72	1.72	100	19.9	2800	1300.0	9.17	9.39	737	0	34.4	39.1	437	13265	17.2	2.2	821	1097	.02	1.27	1.27	1.52	9.36	8.70	D
64	0323	1310.1	4.83	1.74	1.03	98	20.6	2800	1300.0	9.17	9.43	737	0	34.5	39.0	449	13659	17.4	2.3	7772	1098	.02	1.41	1.41	1.52	9.36	8.70	D
65	0325	1310.3	6.28	1.65	1.65	98	20.4	2810	1300.0	9.17	9.41	740	0	34.5	38.7	465	13885	17.8	2.3	865	1086	.02	1.34	1.34	1.52	9.36	8.70	D
66	0329	1310.7	5.31	1.70	1.70	98	20.0	2800	1300.0	9.20	9.46	739	0	34.4	38.8	481	14236	18.1	2.3	892	1084	.02	1.38	1.38	1.52	9.36	8.70	D
67	0330	1310.9	12.0	1.69	1.69	98	19.7	2790	1301.0	9.17	9.48	740	0	34.4	38.9	484	14381	18.4	2.4	466	1072	.02	1.18	1.18	1.52	9.35	8.70	D
68	0338	1311.3	5.73	1.29	1.03	99	18.8	2760	1302.7	9.18	9.38	683	0	34.5	39.3	487	14648	18.7	2.4	732	1069	.03	1.34	1.34	1.52	9.33	8.70	DX
69	0341	1311.9	7.52	1.65	1.65	101	12.6	2730	1303.0	9.15	9.30	733	0	34.3	38.9	479	14897	19.3	2.5	1818	1044	.03	1.17	1.17	1.52	9.33	8.70	D
70	0343	1312.2	8.29	1.72	1.72	101	18.1	2730	1303.3	9.15	9.19	733	0	34.4	38.9	478	15120	19.6	2.5	713	1038	.03	1.25	1.25	1.52	9.33	8.70	D
71	0346	1312.5	5.53	1.66	1.66	101	20.8	2730	1303.6	9.14	9.22	734	0	34.4	38.9	479	15436	19.9	2.5	1774	1035	.03	1.39	1.39	1.52	9.33	8.70	D
72	0349	1312.8	6.24	1.86	1.86	101	18.3	2730	1303.9	9.14	9.31	733	0	34.4	39.3	480	15666	20.2	2.6	763	1029	.03	1.32	1.32	1.52	9.32	8.70	D
73	0351	1313.1	8.86	1.68	1.03	99	18.7	2720	1304.1	9.14	9.20	734	0	34.4	39.3	481	15900	20.5	2.6	766	1026	.03	1.24	1.24	1.52	9.32	8.70	D
74	0354	1313.4	5.45	1.86	1.86	100	19.1	2740	1304.3	9.13	9.02	734	0	34.5	39.2	484	16198	20.8	2.7	745	1020	.03	1.37	1.37	1.52	9.32	8.70	D
75	0357	1313.7	8.03	1.76	1.76	100	18.9	2750	1304.6	9.13	9.22	733	0	34.6	39.2	486	16459	21.1	2.7	732	1016	.03	1.27	1.27	1.51	9.31	8.70	D
76	0359	1314.0	5.74	1.86	1.03	99	19.1	2770	1305.0	9.13	9.33	734	0	34.5	39.4	491	16726	21.5	2.8	778	1012	.03	1.35	1.35	1.51	9.31	8.70	D
77	0404	1314.3	4.53	1.65	1.65	100	19.5	2770	1305.5	9.10	9.35	734	0	34.5	39.4	495	17164	21.7	2.8	2194	1016	.03	1.42	1.42	1.51	9.30	8.70	D
78	0406	1314.6	7.34	1.76	1.76	100	18.4	2750	1305.9	9.11	9.35	733	0	34.6	39.4	499	17407	22.0	2.9	1035	1012	.03	1.29	1.29	1.51	9.29	8.70	D
79	0410	1314.9	4.15	1.74	1.74	100	19.0	2760	1306.2	9.08	9.45	734	0	34.6	39.0	512	17829	22.4	2.9	1088	1012	.03	1.43	1.43	1.51	9.29	8.70	D
80	0413	1315.2	8.74	1.63	1.63	101	18.8	2740	1306.4	9.07	9.34	735	0	34.6	39.4	520	18047	22.7	3.0	619	1006	.03	1.25	1.25	1.51	9.28	8.70	D
81	0414	1315.5	8.34	1.62	1.62	100	20.0	2770	1306.6	9.07	9.17	736	0	34.7	39.4	518	18213	23.0	3.0	535	999	.03	1.29	1.29	1.51	9.28	8.70	D
82	0417	1315.8	6.03	1.79	1.79	100	20.3	2770	1306.9	9.07	9.07	734	0	34.7	39.3	520	18515	23.3	3.1	772	997	.03	1.37	1.37	1.51	9.28	8.70	D
83	0420	1316.2	7.98	1.70	1.69	99	20.2	2760	1307.3	9.08	9.13	733	0	34.7	39.5	512	18813	23.6	3.1	772	994	.03	1.30	1.30	1.51	9.27	8.70	D
84	0423	1316.5	4.54	1.77	1.77	100	20.3	2760	1307.5	9.07	9.18	732	0	34.6	39.3	511	19118	23.9	3.2	1050	992	.03	1.44	1.44	1.51	9.26	8.70	D
85	0426	1316.7	6.17	1.72	1.72	100	20.7	2770	1308.1	9.00	9.00	733	0	34.7	39.4	512	19389	24.2	3.2	839	989	.03	1.37	1.37	1.51	9.25	8.70	D
86	0429	1317.0	6.82	1.62	1.62	100	21.3	2780	1308.4	8.99	9.01	735	0	34.8	39.4	513	19655	24.5	3.3	805	987	.03	1.36	1.36	1.51	9.25	8.70	D
87	0433	1317.4	4.78	1.67	1.72	100	20.0	2760	1308.8	9.00	9.01	736	0	34.9	39.5	516	20055	24.7	3.3	759	992	.03	1.42	1.42	1.51	9.24	8.70	D
88	0437	1317.7	5.07	1.62	1.62	99	19.5	2760	1309.2	8.99	9.03	736	0	34.9	39.5	513	20434	25.1	3.4	993	989	.04	1.40	1.40	1.51	9.23	8.70	D
89	0439	1318.0	6.48	1.69	1.69	99	19.5	2750	1309.6	8.97	9.02	735	0	34.9	39.4	520	20729	25.4	3.4	938	986	.04	1.34	1.34	1.51	9.22	8.70	D
90	0443	1318.6	9.89	1.66	1.66	99	18.8	2750	1310.0	8.99	9.02	734	0	34.8	39.2	523	21032	26.0	3.5	646	974	.04	1.23	1.23	1.51	9.21	8.70	D
91	0444	1318.9	10.4	1.58	1.58	99	18.9	2740	1310.1	9.01	9.03	734	0	34.9	39.4	515	21199	26.3	3.5	886	971	.04	1.22	1.22	1.51	9.21	8.70	D
92	0448	1319.2	6.14	1.63	1.63	100	18.6	2770	1310.5	8.98	8.99	737	0	35.0	39.3	504	21539	26.6	3.6	638	967	.04	1.35	1.35	1.50	9.19	8.70	D
93	0450	1319.5	7.35	1.56	1.56	100	17.7	2760	1310.6	8.98	9.04	737	0	35.0	39.1	494	21751	26.9	3.6	605	962	.04	1.29	1.29	1.50	9.19	8.70	D
94	0450	1319.8	24.5	1.74	1.74	101	16.1	2750	1310.7	8.98	9.06	737	0	35.2	39.3	491	21823	27.2	3.6	293	955	.04	.99	.98	1.51	9.19	8.70	D
95	0451	1320.1	24.9	1.62	1.62	101	18.2	2680	1310.7	8.98	9.06	724	0	35.2	39.3	487	21883	27.5	3.6	231	946	.04	1.01	1.01	1.50	9.19	8.70	D
96	0457	1320.4	21.7	1.09	1.03	101	16.1	2800	1311.0	8.98	8.92	702	0	35.5	39.2	498	21938	27.8	3.6	254	939	.04	1.01	1.01	1.51	9.17	8.70	D†
97	0457	1320.7	25.0	1.66	1.66	105	6.8	2800	1311.0	8.98	8.92	719	0	35.5	39.2	496	21952	28.1	3.6	256	929	.04	1.02	.99	1.51	9.18	8.70	D†
98	0458	1321.0	26.7	1.73	1.73	101	19.1	2790	1311.1	8.98	8.92	735	0	35.5	39.2	491	22009	28.5	3.6	144	919	.04	1.01	1.01	1.51	9.18	8.70	D
99	0458	1321.3	41.6	1.72	1.72	102	16.0	2800	1311.1	9.00	8.95	738	0	35.7	39.0	488	22057	28.7	3.7	190	914	.04	.87	.87	1.51	9.18	8.70	D
00	0459	1321.6	24.3	1.79	1.79	102	15.3	2790	1311.2	9.00	8.95	739	0	35.7	39.0	486	22123	29.0	3.7	182	903	.04	.98	.98	1.51	9.18	8.70	D
01	0500	1321.9	20.8	1.69	1.69	103	16.6	2790	1311.2	8.99	8.97	739	0	35.9	39.2	482	22204	29.4	3.7	202	898	.04	1.04	1.03	1.51	9.19	8.70	D
02	0500	1322.2	39.0	1.64	1.64	101	15.6	2790	1311.3	8.99	8.97	739	0	35.9	39.2	482	22255	29.6	3.7	250	890	.04	.87	.87	1.51	9.18	8.70	D
03	0501	1322.5	15.1	1.65	1.65	102	16.7	2780	1311.5	8.99	8.98	739	0	36.0	39.0	478	22351	30.0	3.7	268	881	.04	1.11	1.11	1.51	9.18	8.70	D
04	0503	1322.8	10.4	1.73	1.73	102	17.2	2790	1311.8	9.00	9.00	740	0	36.1	39.1	475	22524	30.2	3.7	786	880	.04	1.20	1.20	1.51	9.18	8.70	D
05	0507	1323.5	7.65	1.69	1.69	103	16.6	2790	1312.2	9.00	8.92	740	0	36.2	39.0	496	22932	30.9	3.8	776	871	.04	1.27	1.27	1.51	9.17	8.70	D
06	0509	1323.7	9.58	1.67	1.67	102	15.6	2780	1312.4	8.97	8.95	739	0	36.3	39.1	485	23102	31.2	3.8	533	867	.04	1.20	1.19	1.51	9.17	8.70	D
07	0510	1324.1	12.9	1.78	1.78	101	15.8	2790	1312.6	8.98	8.97	740	0	36.3	39.2	478	23246	31.5	3.8	417	862	.04	1.13	1.13	1.51	9.17	8.70	D
08	0511	1324.4	13.0	1.76	1.76	103	16.3	2780	1312.7	8.96	8.98	739	0	36.4	39.3	471	23389	31.8	3.9	324	860	.04	1.14	1.14	1.51	9.16	8.70	D

KLOG

AMOCO AUST. Tilana No.1 329117

Data Printed at time 14:59 Date Oct 9 '85
Data Recorded at time 05:13 Date Sep 12 '85

	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DKC	NX	NXB	ECD	EST FM PR	
49	0513	1324.7	18.7	1.71	1.71	102	14.9	2790	1312.8	8.96	8.96	740	0	36.5	39.4	469	23500	32.1	3.9	320	853	.04	1.03	1.03	1.51	9.17	8.70	D
50	0515	1325.3	14.1	1.81	1.81	102	16.8	2770	1313.0	8.98	8.95	739	0	36.5	39.4	464	23707	32.7	3.9	689	844	.04	1.13	1.13	1.51	9.16	8.70	D
51	0516	1325.6	12.5	1.65	1.65	102	15.9	2770	1313.2	8.97	8.95	740	0	36.5	39.4	462	23853	33.0	3.9	433	838	.04	1.14	1.14	1.51	9.16	8.70	D
52	0517	1325.9	13.2	1.74	1.74	101	15.1	2790	1313.3	8.97	8.95	739	0	36.5	39.4	463	23994	33.3	4.0	700	837	.04	1.11	1.11	1.51	9.16	8.70	D
53	0520	1326.2	8.37	1.71	1.71	102	16.4	2760	1313.4	8.97	8.94	715	0	36.6	39.2	461	24217	33.6	4.0	627	831	.04	1.24	1.24	1.51	9.16	8.70	D
54	0520	1326.5	30.2	1.81	1.79	101	16.8	2770	1313.4	8.97	8.94	728	0	36.6	39.2	460	24278	33.9	4.0	188	825	.04	.95	.95	1.51	9.16	8.70	D
55	0523	1326.8	7.94	1.76	1.76	101	15.6	2760	1313.8	8.96	8.99	736	0	36.8	39.3	458	24520	34.3	4.1	676	824	.04	1.24	1.24	1.51	9.16	8.70	D
56	0526	1327.1	5.16	1.62	1.62	102	16.2	2770	1314.1	8.98	8.96	736	0	36.8	39.4	473	24895	34.5	4.1	1662	826	.04	1.35	1.35	1.51	9.16	8.70	D
57	0528	1327.4	10.2	1.69	1.69	103	15.5	2760	1314.3	8.94	8.91	736	0	36.9	39.4	477	25058	34.9	4.1	440	822	.04	1.18	1.18	1.51	9.15	8.70	D
58	0532	1327.8	6.07	1.65	1.03	101	17.4	2770	1314.9	8.93	8.89	737	0	36.9	39.6	478	25431	35.1	4.2	1368	825	.04	1.33	1.33	1.51	9.15	8.70	D
59	0534	1328.0	5.58	1.69	1.69	102	17.6	2770	1315.2	8.95	8.88	737	0	37.0	39.7	477	25718	35.5	4.3	822	824	.04	1.36	1.36	1.51	9.15	8.70	D
60	0537	1328.4	8.48	1.64	1.64	101	17.3	2770	1315.4	8.94	8.94	737	0	37.0	39.6	475	25948	35.7	4.3	726	822	.05	1.25	1.25	1.51	9.15	8.70	D
61	0540	1328.7	5.36	1.63	1.63	102	16.6	2770	1316.4	8.91	8.87	737	0	37.1	39.8	472	26287	36.0	4.3	6255	823	.05	1.35	1.35	1.51	9.14	8.70	D
62	0543	1328.9	5.49	1.73	1.73	101	18.1	2780	1316.6	8.92	8.89	736	0	37.2	39.7	468	26558	36.4	4.4	724	822	.05	1.37	1.37	1.51	9.14	8.70	D
63	0545	1329.3	9.41	1.61	1.59	102	17.2	2730	1317.9	8.91	8.72	732	0	37.3	39.7	466	26778	36.7	4.4	883	821	.05	1.23	1.23	1.51	9.13	8.70	D
64	0552	1329.6	4.16	1.10	1.03	101	17.8	1510	1319.0	8.92	8.95	537	0	37.4	40.0	478	26946	36.9	4.5	988	820	.05	1.44	1.44	1.51	9.10	8.70	D†
65	0553	1330.5	40.5	1.49	1.49	93	4.1	1510	1319.3	8.92	8.97	546	0	37.4	39.5	474	26987	37.9	4.5	815	799	.05	.65	.65	1.51	9.11	8.70	D
66	0557	1330.8	4.96	1.44	1.44	94	9.6	1620	1319.7	8.89	8.98	539	0	37.4	39.6	465	27322	38.2	4.5	1278	800	.05	1.20	1.20	1.51	9.11	8.70	D
67	0600	1331.1	6.16	1.49	1.49	93	9.2	1550	1320.2	8.89	9.00	552	0	37.5	39.5	460	27609	38.5	4.6	874	800	.05	1.14	1.14	1.51	9.10	8.70	D
68	0607	1331.4	2.72	1.52	1.52	93	9.5	1420	1321.5	8.90	9.00	553	0	37.5	40.0	450	28284	38.8	4.7	1039	810	.05	1.32	1.32	1.51	9.08	8.70	D
69	0609	1331.7	9.22	1.39	1.39	94	9.3	1510	1321.8	8.88	9.02	553	0	37.6	40.0	447	28473	39.1	4.7	640	808	.05	1.07	1.07	1.51	9.08	8.70	D
70	0614	1332.0	4.51	1.51	1.51	93	10.0	1540	1322.4	8.90	8.96	552	0	37.6	40.1	446	28943	39.4	4.8	2277	813	.05	1.23	1.23	1.51	9.07	8.70	D
71	0615	1332.3	17.8	1.63	1.63	92	10.5	1540	1322.6	8.90	8.96	553	0	37.6	40.1	446	29037	39.7	4.8	296	807	.05	.95	.95	1.51	9.07	8.70	D
72	0620	1332.6	4.59	1.53	1.53	93	9.8	1530	1323.2	8.91	8.97	550	0	37.7	39.8	441	29433	40.0	4.9	927	812	.05	1.22	1.22	1.51	9.06	8.70	D
73	0622	1332.9	7.64	1.50	1.50	92	10.8	1530	1323.3	8.93	9.00	550	0	37.7	39.8	439	29677	40.2	4.9	889	812	.05	1.14	1.14	1.51	9.06	8.70	D
74	0626	1333.2	4.63	1.51	1.51	92	12.4	1530	1323.6	8.96	9.03	551	0	37.7	40.3	435	30038	40.6	5.0	1041	812	.05	1.28	1.29	1.51	9.06	8.70	D
75	0630	1333.5	5.06	1.51	1.53	93	12.8	1520	1323.8	8.93	9.07	550	0	37.7	40.1	431	30359	41.0	5.1	1151	813	.05	1.28	1.28	1.51	9.05	8.70	D
76	0631	1333.8	9.70	1.50	1.50	92	11.8	1520	1324.0	8.94	9.03	574	0	37.7	39.9	430	30533	41.2	5.1	691	812	.05	1.11	1.11	1.51	9.05	8.70	D
77	0635	1334.1	3.66	1.55	1.55	92	13.1	1550	1324.4	8.91	9.07	549	0	37.7	39.8	426	30889	41.5	5.2	2974	814	.05	1.35	1.35	1.51	9.05	8.70	D
78	0639	1334.5	5.12	1.66	1.66	90	17.1	1540	1324.8	8.91	9.08	551	0	37.6	40.0	422	31237	41.9	5.2	1086	814	.05	1.36	1.36	1.51	9.05	8.70	D
79	0642	1334.8	7.44	1.60	1.60	90	16.2	1540	1324.9	8.91	9.05	589	0	37.6	40.4	420	31453	42.2	5.3	730	813	.05	1.25	1.25	1.51	9.05	8.70	D
80	0644	1335.0	6.15	1.11	1.03	91	14.3	1520	1325.1	8.92	9.10	637	0	37.6	40.4	417	31713	42.5	5.3	1362	814	.05	1.26	1.26	1.51	9.05	8.70	D
81	0654	1335.3	3.88	1.56	1.56	97	15.9	2720	1325.7	8.95	9.17	731	0	37.6	39.7	385	32140	42.8	5.4	1762	815	.05	1.41	1.41	1.51	9.06	8.70	D
82	0658	1335.6	4.83	1.58	1.58	105	19.4	2740	1327.0	8.91	9.11	733	0	37.3	39.6	369	32545	43.1	5.4	1142	817	.06	1.45	1.45	1.51	9.05	8.70	D
83	0702	1336.0	4.56	1.57	1.57	104	17.8	2720	1327.4	8.90	9.09	732	0	37.0	39.9	364	32990	43.4	5.5	1571	820	.06	1.43	1.43	1.51	9.05	8.70	D
84	0704	1336.2	6.93	1.55	1.55	111	19.1	2730	1327.5	8.92	9.09	734	0	37.0	39.9	360	33212	43.7	5.6	657	818	.06	1.37	1.37	1.51	9.05	8.70	D
85	0707	1336.7	7.80	1.58	1.58	109	18.0	2730	1327.8	8.91	9.07	736	0	36.5	39.8	357	33564	44.0	5.6	957	819	.06	1.32	1.31	1.51	9.05	8.70	D
86	0709	1336.9	5.57	1.74	1.74	110	18.3	2740	1328.1	8.94	9.06	734	0	36.8	39.8	357	33804	44.3	5.6	763	818	.06	1.41	1.40	1.50	9.05	8.70	D
87	0711	1337.2	8.90	1.73	1.73	110	17.7	2750	1328.3	8.94	9.09	734	0	36.5	39.7	358	34023	44.6	5.7	527	816	.06	1.28	1.28	1.50	9.05	8.70	D
88	0712	1337.5	16.9	1.62	1.62	110	15.9	2730	1328.5	8.92	9.08	734	0	36.5	39.9	359	34145	44.9	5.7	380	812	.06	1.10	1.10	1.51	9.05	8.70	D
89	0716	1337.8	4.27	1.68	1.68	111	18.5	2750	1329.0	8.92	9.11	734	0	36.7	39.9	360	34589	45.2	5.8	1571	817	.06	1.48	1.47	1.50	9.05	8.70	D
90	0719	1338.1	6.80	1.75	1.75	108	19.0	2740	1329.4	8.91	9.05	734	0	36.6	40.0	370	34890	45.5	5.8	682	813	.06	1.37	1.36	1.50	9.05	8.70	D
91	0722	1338.5	8.18	1.68	1.68	110	18.4	2740	1329.7	8.98	9.08	734	0	36.1	40.2	379	35208	45.8	5.9	769	813	.06	1.32	1.31	1.50	9.05	8.70	D
92	0734	1339.7	15.5	1.80	1.80	102	14.1	2780	1330.8	9.02	9.06	735	0	35.7	39.5	439	35688	47.0	5.9	2694	801	.06	1.07	1.07	1.50	9.05	8.70	D
93	0735	1339.9	13.6	1.95	1.95	101	19.5	2770	1331.0	9.00	9.07	734	0	35.6	40.0	435	35793	47.4	5.9	331	797	.06	1.19	1.19	1.51	9.06	8.70	D
94	0738	1340.2	5.97	1.83	1.83	101	21.6	2780	1331.4	8.99	9.08	734	0	35.4	40.0	429	36105	47.7	6.0	857	797	.06	1.43	1.43	1.50	9.06	8.70	D
95	0741	1340.5	6.24	1.80	1.03	101	20.6	2770	1331.6	8.98	9.09	734	0	35.4	40.0	431	36406	48.0	6.1	788	797	.06	1.40	1.40	1.50	9.06	8.70	D
96	0744	1340.8	7.22	1.83	1.83	101	21.2	2780	1331.6	8.96	9.05	735	0	35.5	40.1	433	36660	48.3	6.1	534	797	.06	1.37	1.37	1.50	9.07	8.70	D
97	0744	1341.1	29.0	1.79	1.79	101	19.6	2770	1331.7	8.96	9.05	735	0	35.5	40.1	433	36726	48.6	6.1	172	793	.06	1.01	1.01	1.50	9.07	8.70	D
98	0748	1341.4	5.45	1.66	1.66	101	20.2	2780	1332.1	8.94	9.03	736	0	35.6	40.0	435	37084	48.9	6.2	2073	794	.06	1.42	1.42	1.50	9.08	8.70	D

EXLOG

AMOCO AUST. Tilana No.1 329118

Data Printed at time 15:03 Date Oct 9 '85
Data Recorded at time 07:51 Date Sep 12 '85

R#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
59	0751	1341.8	7.55	1.58	1.58	101	19.7	2780	1332.2	8.96	9.07	736	0	35.5	40.2	435	37372	49.2	6.2	1166	795	.06	1.33	1.33	1.50	9.08	8.70	D
60	0753	1342.0	6.72	1.60	1.60	99	20.4	2790	1332.5	8.93	9.03	736	0	35.5	40.3	434	37613	49.3	6.2	1352	796	.07	1.37	1.37	1.50	9.09	8.70	D
61	0755	1342.4	11.0	1.57	1.57	101	19.6	2770	1332.8	8.99	9.04	739	0	35.7	40.5	433	37824	49.7	6.3	531	794	.07	1.24	1.24	1.50	9.09	8.70	D
62	0759	1342.8	5.47	1.62	1.62	101	20.1	2760	1333.3	9.00	8.99	737	0	35.6	40.3	432	38244	50.1	6.4	1585	795	.07	1.42	1.42	1.50	9.09	8.70	D
63	0807	1343.3	3.87	1.64	1.64	101	20.0	2790	1334.3	9.00	9.04	737	0	36.4	40.9	427	39036	50.7	6.5	1283	797	.07	1.50	1.49	1.50	9.11	8.70	D
64	0811	1343.6	4.21	1.63	1.63	101	20.7	2740	1334.8	8.94	9.06	737	0	36.8	41.0	425	39455	51.0	6.6	1229	799	.07	1.49	1.49	1.50	9.11	8.70	D
65	0816	1343.9	5.14	1.60	1.60	101	21.1	2750	1335.3	8.92	9.17	738	0	36.9	41.2	421	39867	51.3	6.6	1201	801	.07	1.45	1.45	1.50	9.12	8.70	D
66	0821	1344.5	4.95	1.55	1.55	101	20.3	2740	1336.0	8.92	9.11	738	0	37.2	40.9	419	40439	51.9	6.7	564	801	.07	1.44	1.44	1.50	9.12	8.70	D
67	0827	1344.8	3.93	1.68	1.68	101	23.6	2750	1336.6	8.87	9.16	739	0	37.2	40.9	420	41028	52.2	6.8	1672	805	.07	1.56	1.56	1.50	9.11	8.70	D
68	0830	1345.1	4.47	1.86	1.87	101	30.8	2740	1337.0	8.92	9.16	738	0	37.2	41.1	424	41350	52.5	6.9	864	806	.07	1.64	1.64	1.50	9.11	8.70	D
69	0833	1345.4	6.57	1.88	1.88	101	30.1	2750	1337.5	8.94	9.23	738	0	36.7	40.8	428	41641	52.8	6.9	749	806	.07	1.53	1.53	1.50	9.10	8.70	D
70	0834	1345.8	16.3	1.80	1.80	101	29.3	2750	1337.6	8.94	9.21	738	0	36.5	40.7	429	41770	53.1	6.9	375	804	.07	1.27	1.27	1.50	9.10	8.70	D
71	0835	1346.0	13.2	1.79	1.79	101	27.3	2750	1337.7	8.94	9.21	737	0	36.5	40.7	430	41858	53.5	6.9	277	802	.07	1.30	1.30	1.50	9.10	8.70	D
72	0836	1346.3	15.0	1.83	1.83	101	30.3	2760	1337.8	8.94	9.21	738	0	36.5	40.7	432	41979	53.8	7.0	262	797	.07	1.31	1.30	1.50	9.10	8.70	D
73	0838	1346.7	14.2	1.71	1.71	101	33.2	2760	1337.9	8.96	9.21	739	0	36.2	40.8	432	42128	54.0	7.0	322	796	.07	1.36	1.36	1.50	9.09	8.70	D
74	0840	1346.9	6.19	1.79	1.77	101	33.9	2770	1338.2	8.96	9.13	738	0	36.1	41.1	434	42364	54.4	7.0	791	795	.07	1.60	1.60	1.50	9.09	8.70	D
75	0842	1347.2	10.1	1.87	1.87	101	33.0	2770	1338.5	8.97	9.16	738	0	35.9	40.8	437	42556	54.7	7.1	557	794	.07	1.45	1.45	1.50	9.09	8.70	D
76	0844	1347.5	7.75	1.83	1.83	101	31.8	2790	1338.6	8.95	9.18	739	0	35.9	41.0	441	42771	55.0	7.1	574	792	.08	1.51	1.51	1.50	9.09	8.70	D
77	0846	1347.8	8.31	1.72	1.72	100	30.8	2770	1338.9	8.97	9.24	739	0	35.9	40.9	445	42993	55.2	7.1	745	792	.08	1.43	1.47	1.50	9.09	8.70	D
78	0848	1348.1	10.2	1.78	1.78	100	30.1	2730	1339.0	8.99	9.11	737	0	36.2	41.0	447	43157	55.6	7.2	419	789	.08	1.41	1.41	1.50	9.09	8.70	D
79	0849	1348.5	16.5	1.74	1.72	100	31.0	2730	1339.1	8.99	9.11	735	0	36.2	41.0	449	43281	55.9	7.2	326	787	.08	1.29	1.29	1.50	9.09	8.70	D
80	0855	1348.7	15.8	1.69	1.69	105	13.9	2830	1339.3	8.99	9.17	694	0	36.4	41.0	473	43377	56.2	7.2	296	784	.08	1.07	1.07	1.50	9.08	8.70	D†
81	0858	1349.4	6.95	1.73	1.73	104	27.9	2830	1339.5	9.03	9.11	743	0	36.3	40.4	467	43659	56.7	7.2	712	780	.08	1.49	1.49	1.50	9.09	8.70	D
82	0902	1350.0	8.33	1.76	1.76	103	28.8	2840	1339.8	8.99	9.09	743	0	36.1	41.1	466	44056	57.4	7.3	432	777	.08	1.46	1.45	1.50	9.09	8.70	D
83	0904	1350.3	8.38	1.82	1.82	104	30.1	2840	1340.0	8.99	9.09	744	0	36.0	41.3	467	44249	57.7	7.3	754	776	.08	1.47	1.47	1.50	9.09	8.70	D
84	0905	1350.6	13.1	1.81	1.81	104	30.2	2840	1340.2	8.99	9.09	744	0	36.0	41.3	466	44400	58.0	7.4	445	774	.08	1.35	1.35	1.50	9.09	8.70	D
85	0907	1350.9	10.2	1.91	1.91	103	29.3	2840	1340.3	9.02	9.09	744	0	35.9	41.3	465	44555	58.3	7.4	410	771	.08	1.41	1.40	1.50	9.09	8.70	D
86	0908	1351.2	17.3	1.82	1.82	103	31.3	2850	1340.4	8.85	9.11	743	0	36.1	41.4	464	44672	58.6	7.4	286	769	.08	1.29	1.28	1.50	9.10	8.70	D
87	0909	1351.5	10.9	1.85	1.85	104	30.2	2830	1340.6	8.85	9.11	744	0	36.1	41.4	463	44805	58.9	7.4	1366	769	.08	1.40	1.40	1.50	9.10	8.70	D
88	0911	1351.8	10.1	1.90	1.89	103	30.6	2840	1340.6	8.91	9.09	745	0	36.2	41.4	463	44982	59.3	7.5	418	765	.08	1.42	1.42	1.50	9.10	8.70	D
89	0913	1352.1	9.54	1.78	1.78	103	29.5	2840	1340.8	8.98	9.09	745	0	36.6	41.4	464	45191	59.5	7.5	524	764	.08	1.43	1.42	1.50	9.11	8.70	D
90	0914	1352.5	18.7	1.72	1.72	103	27.8	2840	1340.8	8.98	9.09	744	0	36.6	41.4	463	45298	59.8	7.5	557	763	.08	1.22	1.22	1.50	9.11	8.70	D
91	0915	1352.7	8.08	1.75	1.75	104	29.0	2840	1340.9	8.98	9.05	746	0	36.8	41.6	462	45474	60.2	7.5	477	760	.08	1.46	1.46	1.50	9.11	8.70	D
92	0917	1353.0	10.9	1.75	1.75	104	27.7	2850	1341.0	8.97	9.07	745	0	36.9	41.6	461	45625	60.5	7.6	417	759	.08	1.36	1.36	1.50	9.12	8.70	D
93	0918	1353.3	16.8	1.81	1.83	102	29.2	2820	1341.1	8.97	9.07	745	0	36.9	41.6	460	45711	60.8	7.6	302	756	.08	1.26	1.26	1.50	9.12	8.70	D
94	0918	1353.6	21.8	1.82	1.82	104	27.8	2840	1341.2	9.03	9.09	745	0	36.9	41.4	460	45789	61.1	7.6	219	753	.08	1.17	1.17	1.50	9.12	8.70	D
95	0919	1353.9	24.4	2.09	2.09	103	27.4	2840	1341.2	9.03	9.09	746	0	36.9	41.4	459	45864	61.4	7.6	159	753	.08	1.15	1.14	1.50	9.12	8.70	D
96	0922	1354.2	7.96	1.76	1.76	102	27.7	2800	1341.5	9.02	9.07	746	0	37.1	41.6	456	46115	61.6	7.6	712	751	.08	1.44	1.44	1.49	9.12	8.70	D
97	0925	1354.5	4.65	3.02	3.02	90	27.6	2810	1342.5	8.96	9.10	746	0	37.3	41.2	456	46438	62.0	7.7	1106	752	.08	1.55	1.55	1.50	9.13	8.70	D
98	0926	1354.9	24.1	1.83	1.83	97	27.6	2840	1342.6	8.96	9.10	745	0	37.3	41.2	456	46565	62.3	7.7	681	750	.08	1.13	1.13	1.50	9.13	8.70	D
99	0929	1355.2	7.36	1.86	1.86	99	27.4	2830	1343.0	8.96	9.07	746	0	37.5	41.5	453	46803	62.6	7.8	937	748	.08	1.45	1.45	1.50	9.13	8.70	D
00	0930	1355.4	13.4	1.81	1.81	99	29.1	2800	1343.2	8.98	9.11	746	0	37.7	41.7	454	46932	62.9	7.8	500	747	.08	1.31	1.31	1.49	9.14	8.70	D
01	0930	1355.8	25.8	1.87	1.87	99	28.3	2820	1343.3	8.96	9.17	746	0	37.8	41.6	453	46996	63.2	7.8	177	744	.08	1.13	1.12	1.50	9.14	8.70	D
02	0931	1356.1	36.0	1.77	1.77	99	25.9	2840	1343.4	8.96	9.17	745	0	37.8	41.6	453	47046	63.5	7.8	121	741	.08	1.01	1.01	1.50	9.14	8.70	D
03	0932	1356.4	12.2	1.90	1.90	99	27.2	2830	1343.6	8.94	9.11	746	0	37.8	41.6	453	47194	63.8	7.8	440	739	.08	1.31	1.31	1.49	9.15	8.70	D
04	0933	1356.7	28.7	1.71	1.71	98	23.3	2830	1343.7	8.94	9.11	745	0	37.8	41.6	452	47259	64.1	7.8	262	737	.09	1.10	1.09	1.50	9.15	8.70	D
05	0935	1357.0	9.69	1.79	1.79	99	26.7	2820	1343.9	8.93	9.18	744	0	37.9	41.6	452	47423	64.4	7.9	533	735	.09	1.36	1.36	1.50	9.16	8.70	D
06	0936	1357.3	16.4	1.89	1.88	100	27.9	2830	1344.1	8.93	9.18	744	0	37.9	41.6	452	47532	64.7	7.9	308	733	.09	1.24	1.24	1.49	9.16	8.70	D
07	0942	1357.7	12.4	1.92	1.93	100	28.3	2830	1344.7	8.97	9.14	583	0	37.3	41.5	475	47657	65.0	7.9	415	732	.09	1.33	1.32	1.49	9.13	8.70	D†
08	0943	1358.2	12.1	1.85	1.85	103	24.5	2830	1344.8	8.97	9.14	735	0	37.3	41.5	467	47781	65.6	7.9	284	726	.09	1.29	1.28	1.50	9.16	8.70	D

AMOCO AUST. Tilann No.1 329119

Data Printed at time 15:33 Date Oct 9 '85
Data Recorded at time 09:44 Date Sep 12 '85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	MX	MXB	ECD	EST EM PR	
0	0944	1358.5	31.6	1.92	1.92	104	24.6	2800	1344.9	8.95	9.14	742	0	36.8	41.0	464	47839	65.9	7.9	178	724	.09	1.04	1.04	1.50	9.16	8.70	D
0	0946	1358.8	12.3	1.78	1.78	102	27.2	2820	1345.3	8.95	9.14	742	0	36.8	41.0	456	47991	66.2	8.3	354	723	.09	1.31	1.31	1.50	9.16	8.70	D
1	0946	1359.1	49.9	1.69	1.69	103	24.4	2820	1345.4	8.92	9.18	742	0	36.7	41.9	455	48035	66.5	8.0	112	720	.09	.92	.92	1.50	9.16	8.70	D
2	0948	1359.4	9.75	1.97	1.97	103	25.9	2820	1345.7	8.90	9.13	742	0	36.6	41.6	451	48206	66.9	8.0	437	718	.09	1.36	1.36	1.50	9.16	8.70	D
3	0949	1359.7	12.4	1.87	1.88	102	26.6	2820	1346.0	8.90	9.13	742	0	36.6	41.6	451	48357	67.2	8.0	403	717	.09	1.30	1.30	1.50	9.16	8.70	D
4	0950	1360.0	19.5	2.01	2.01	103	25.5	2840	1346.1	8.90	9.22	742	0	36.6	41.8	451	48452	67.5	8.0	246	717	.09	1.17	1.17	1.50	9.16	8.70	D
5	0951	1360.3	14.6	1.88	1.86	101	24.8	2830	1346.3	8.91	9.16	743	0	36.4	41.5	449	48587	67.8	8.1	4200	713	.09	1.24	1.23	1.50	9.16	8.70	D
6	0952	1360.7	16.6	1.78	1.77	103	27.8	2820	1346.4	8.91	9.16	741	0	36.4	41.5	449	48705	68.1	8.1	277	711	.09	1.25	1.24	1.50	9.16	8.70	D
7	0953	1361.0	26.3	1.85	1.85	101	27.6	2830	1346.5	8.89	9.19	741	0	36.4	41.3	449	48773	68.4	8.1	182	709	.09	1.12	1.12	1.50	9.16	8.70	D
8	0954	1361.3	26.3	1.77	1.77	102	25.9	2820	1346.6	8.89	9.19	741	0	36.4	41.3	448	48846	68.7	8.1	272	708	.09	1.10	1.10	1.50	9.16	8.70	D
9	0955	1361.5	13.6	1.95	1.95	102	27.2	2830	1346.9	8.93	9.12	742	0	36.4	41.5	447	48965	69.0	8.1	360	705	.09	1.29	1.29	1.50	9.16	8.70	D
0	0956	1361.9	29.9	1.80	1.80	104	25.3	2800	1347.1	8.93	9.12	742	0	36.4	41.5	445	49034	69.3	8.1	188	703	.09	1.07	1.06	1.50	9.16	8.70	D
1	0957	1362.2	17.1	1.90	1.90	102	27.0	2840	1347.4	8.93	9.12	741	0	36.4	41.5	446	49136	69.6	8.1	296	701	.09	1.23	1.22	1.50	9.16	8.70	D
2	0958	1362.5	16.2	1.84	1.84	103	26.3	2830	1347.6	8.89	9.16	742	0	36.4	41.7	445	49245	69.9	8.2	365	700	.09	1.23	1.23	1.50	9.16	8.70	D
3	1000	1362.8	8.72	1.87	1.87	103	25.0	2840	1348.1	8.85	9.16	742	0	36.5	41.9	444	49479	70.2	8.2	1433	699	.09	1.39	1.39	1.49	9.16	8.70	D
4	1001	1363.1	23.5	2.00	2.00	102	25.9	2820	1348.2	8.84	9.17	742	0	36.5	41.9	443	49552	70.5	8.2	212	697	.09	1.13	1.13	1.50	9.16	8.70	D
5	1001	1363.4	24.8	1.97	1.03	103	26.3	2820	1348.3	8.34	9.17	743	0	36.5	41.9	442	49625	70.8	8.2	176	695	.09	1.12	1.12	1.50	9.15	8.70	D
6	1003	1363.7	17.8	1.89	1.89	102	27.2	2820	1348.4	8.31	9.20	742	0	36.6	41.9	442	49736	71.1	8.2	239	693	.09	1.22	1.22	1.49	9.15	8.70	D
7	1003	1364.0	18.9	2.00	2.00	102	27.6	2820	1348.6	8.31	9.20	742	0	36.6	41.9	443	49820	71.4	8.3	235	692	.09	1.21	1.21	1.49	9.15	8.70	D
8	1005	1364.3	9.86	2.10	2.10	103	25.5	2840	1349.1	8.32	9.13	742	0	36.6	42.1	441	50006	71.7	8.3	749	691	.09	1.35	1.35	1.49	9.15	8.70	D
9	1006	1364.6	21.3	1.95	1.95	102	26.9	2810	1349.3	8.84	9.19	743	0	36.6	42.0	441	50096	72.0	8.3	255	688	.09	1.17	1.17	1.50	9.15	8.70	D
0	1007	1364.9	17.3	2.07	2.10	103	26.2	2830	1349.5	8.84	9.19	743	0	36.6	42.0	440	50179	72.4	8.3	276	686	.09	1.22	1.21	1.49	9.15	8.70	D
1	1008	1365.2	14.7	2.21	2.21	103	26.0	2840	1349.9	8.86	9.22	743	0	36.7	42.2	440	50307	72.7	8.3	308	685	.09	1.26	1.25	1.49	9.15	8.70	D
2	1009	1365.5	16.5	2.04	2.04	103	28.0	2830	1350.1	8.86	9.22	742	0	36.7	42.2	440	50419	72.9	8.4	340	683	.09	1.25	1.25	1.49	9.15	8.70	D
3	1010	1365.8	26.6	2.09	2.09	103	27.0	2830	1350.2	8.31	9.17	743	0	36.7	42.3	440	50492	73.3	8.4	250	682	.09	1.11	1.11	1.49	9.15	8.70	D
4	1011	1366.2	19.9	2.10	1.03	101	27.4	2820	1350.3	8.31	9.17	743	0	36.7	42.3	438	50539	73.6	8.4	280	680	.09	1.19	1.19	1.49	9.15	8.70	D
5	1012	1366.4	17.6	2.10	2.10	102	28.2	2820	1350.4	8.32	9.15	744	0	36.7	42.3	437	50631	73.9	8.4	252	678	.09	1.24	1.23	1.49	9.15	8.70	D
6	1013	1366.7	14.2	2.09	2.09	102	26.3	2820	1350.6	8.32	9.15	744	0	36.7	42.3	436	50810	74.2	8.4	317	676	.09	1.27	1.27	1.49	9.15	8.70	D
7	1024	1367.0	16.8	1.45	1.45	102	20.9	2780	1352.3	9.12	9.10	733	0	36.9	42.8	442	50933	74.5	8.4	267	675	.09	1.16	1.15	1.49	9.10	8.70	D†
8	1025	1367.4	23.8	1.92	1.92	98	26.9	2780	1352.6	9.12	9.10	735	0	36.9	42.8	439	51016	74.7	8.4	299	674	.09	1.14	1.13	1.49	9.10	8.70	D
9	1026	1367.7	22.3	1.88	1.03	98	26.3	2780	1352.9	9.12	9.10	735	0	36.9	42.8	435	51101	75.1	8.5	226	671	.09	1.15	1.14	1.49	9.10	8.70	D
0	1027	1367.9	12.1	1.77	1.77	100	27.7	2770	1353.1	9.13	9.12	736	0	36.8	43.2	431	51205	75.4	8.5	357	670	.09	1.33	1.33	1.49	9.09	8.70	D
1	1028	1368.3	16.5	1.80	1.80	100	26.8	2780	1353.4	9.15	9.12	735	0	36.8	43.1	429	51314	75.7	8.5	335	669	.09	1.24	1.23	1.49	9.09	8.70	D
2	1029	1368.6	9.70	1.90	1.90	99	28.1	2770	1353.6	9.15	9.12	735	0	36.8	43.1	428	51441	76.0	8.5	594	667	.09	1.39	1.39	1.49	9.09	8.70	D
3	1030	1368.9	19.8	1.97	1.97	98	28.7	2760	1353.7	9.15	9.12	735	0	36.7	43.0	426	51536	76.3	8.5	307	666	.09	1.21	1.21	1.49	9.08	8.70	D
4	1031	1369.2	17.5	2.00	2.00	98	28.2	2780	1353.9	9.15	9.12	735	0	36.7	43.0	427	51633	76.6	8.6	254	664	.09	1.23	1.23	1.49	9.09	8.70	D
5	1032	1369.5	31.6	1.92	1.92	98	29.1	2790	1354.0	9.16	9.16	735	0	36.7	42.7	426	51682	76.9	8.6	145	662	.09	1.09	1.09	1.49	9.09	8.70	D
6	1033	1369.8	21.3	2.01	2.01	98	30.1	2770	1354.3	9.16	9.16	736	0	36.7	42.7	425	51762	77.2	8.6	392	662	.09	1.21	1.20	1.49	9.08	8.70	D
7	1034	1370.1	14.6	1.94	1.94	99	29.2	2770	1354.8	9.13	9.12	736	0	36.7	42.6	426	51891	77.5	8.6	416	660	.09	1.30	1.30	1.49	9.09	8.70	D
8	1035	1370.4	15.9	1.98	1.99	98	30.6	2760	1355.1	9.13	9.12	737	0	36.7	42.6	423	51989	77.8	8.6	272	657	.09	1.29	1.29	1.49	9.09	8.70	D
9	1036	1370.8	26.9	2.01	2.00	100	23.1	2760	1355.3	9.14	9.13	736	0	36.7	42.7	422	52067	78.1	8.6	361	656	.09	1.12	1.12	1.49	9.09	8.70	D
0	1036	1371.0	13.6	2.01	2.01	98	28.9	2770	1355.4	9.14	9.13	736	0	36.7	42.7	425	52139	78.4	8.6	243	655	.10	1.23	1.22	1.49	9.09	8.70	D
1	1037	1371.3	21.1	1.94	1.94	98	28.3	2770	1355.6	9.16	9.17	736	0	36.7	42.8	424	52228	78.8	8.7	229	653	.10	1.19	1.19	1.49	9.10	8.70	D
2	1038	1371.6	17.5	2.06	2.06	98	30.0	2780	1355.8	9.16	9.17	735	0	36.7	42.8	423	52324	79.0	8.7	306	652	.10	1.26	1.25	1.49	9.10	8.70	D
3	1039	1371.9	30.9	1.92	1.92	100	23.9	2770	1355.9	9.16	9.17	736	0	36.7	42.8	423	52380	79.4	8.7	144	649	.10	1.09	1.09	1.49	9.10	8.70	D
4	1040	1372.3	18.5	2.01	2.01	98	28.6	2770	1356.2	9.13	9.15	736	0	36.1	42.9	420	52487	79.7	8.7	274	648	.10	1.22	1.22	1.49	9.11	8.70	D
5	1040	1372.5	62.3	2.27	2.27	98	30.0	2770	1356.3	9.13	9.15	736	0	36.1	42.9	418	52511	80.0	8.7	80	646	.10	.91	.91	1.49	9.11	8.70	D
6	1042	1372.8	12.7	2.01	2.00	98	28.8	2770	1356.7	9.13	9.15	736	0	36.1	42.9	415	52663	80.3	8.7	353	645	.10	1.32	1.32	1.49	9.11	8.70	D
7	1042	1373.2	39.9	1.90	1.90	98	27.9	2770	1356.9	9.19	9.10	736	0	35.4	42.8	416	52719	80.5	8.7	239	643	.10	1.01	1.01	1.50	9.11	8.70	D
8	1043	1373.4	11.3	2.05	2.05	99	28.7	2770	1357.2	9.19	9.10	736	0	35.4	42.8	415	52821	80.9	8.8	565	642	.10	1.35	1.35	1.49	9.13	8.70	D

AMOCO NUST. Tilana No.1 329120 Data Printed at time 15:12 Date Oct 9 '85
Data Recorded at time 10:45 Date Sep 12 '85

#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	MX	MXB	ECD	EST PM PR	
59	1045	1373.7	10.9	1.95	1.95	99	28.6	2770	1357.8	9.27	9.11	736	0	34.9	42.5	415	52983	31.2	8.3	412	641	.10	1.36	1.36	1.49	9.14	8.70	D
60	1046	1374.0	21.1	1.96	1.96	98	30.2	2750	1358.1	9.27	9.11	736	0	34.9	42.5	413	53068	31.5	8.8	248	639	.10	1.20	1.20	1.49	9.14	8.70	D
61	1047	1374.3	12.3	2.03	2.03	99	30.0	2760	1358.6	9.30	9.13	736	0	34.7	42.7	413	53211	31.8	8.3	383	639	.10	1.34	1.34	1.49	9.14	8.70	D
62	1048	1374.6	20.1	2.40	2.40	98	23.7	2740	1358.8	9.34	9.17	736	0	34.5	43.2	412	53299	32.1	8.3	259	637	.10	1.20	1.19	1.49	9.15	8.70	D
63	1049	1375.0	13.6	1.97	1.97	98	23.3	2740	1359.0	9.34	9.17	738	0	34.5	43.2	411	53400	32.4	8.9	365	636	.10	1.21	1.21	1.49	9.15	8.70	D
64	1050	1375.3	49.9	1.89	1.89	98	25.6	2750	1359.0	9.34	9.17	738	0	34.5	43.2	412	53441	32.6	8.9	179	635	.10	.93	.93	1.49	9.15	8.70	D
65	1051	1375.6	18.3	1.95	1.95	98	23.1	2750	1359.4	9.33	9.11	738	0	34.3	43.0	412	53571	33.0	8.9	435	633	.10	1.36	1.36	1.49	9.15	8.70	D
66	1052	1375.9	28.0	2.02	1.93	98	27.7	2750	1359.7	9.33	9.11	733	0	34.3	43.0	411	53636	33.3	8.9	219	632	.10	1.09	1.09	1.50	9.15	8.70	D
67	1052	1376.2	24.1	1.94	1.93	98	27.9	2720	1359.9	9.28	9.20	737	0	34.2	43.0	412	53713	33.6	8.9	219	630	.10	1.13	1.13	1.50	9.17	8.70	D
68	1054	1378.0	16.4	1.64	1.83	98	27.3	2720	1360.3	9.28	9.20	105	0	34.2	43.3	421	53718	35.5	8.9	220	615	.10	1.24	1.23	1.50	9.10	8.70	DX
69	1101	1378.6	33.3	1.83	1.90	98	15.2	2750	1361.6	9.29	9.18	731	0	33.9	43.1	413	53764	36.1	8.9	159	613	.10	.89	.89	1.50	9.21	8.70	D†
70	1102	1379.0	70.3	2.08	2.08	100	27.6	2740	1361.7	9.29	9.13	733	0	33.9	43.1	412	53791	36.4	8.9	111	612	.10	.85	.85	1.50	9.21	8.70	D
71	1103	1379.2	11.0	2.15	2.15	102	23.3	2770	1362.1	9.27	9.20	734	0	33.7	43.5	411	53929	36.6	8.9	493	610	.10	1.35	1.35	1.50	9.23	8.70	D
72	1105	1379.5	11.6	2.11	2.12	101	28.7	2740	1362.7	9.27	9.20	735	0	33.7	43.5	410	54035	37.0	9.0	385	609	.10	1.34	1.33	1.50	9.22	8.70	D
73	1105	1379.8	52.3	1.94	1.94	100	23.4	2740	1362.8	9.27	9.22	735	0	33.4	43.4	407	54120	37.3	9.0	333	608	.10	.93	.93	1.50	9.22	8.70	D
74	1106	1380.3	19.3	1.71	1.83	101	27.3	2760	1363.2	9.27	9.22	734	0	33.4	43.4	408	54266	37.5	9.0	320	607	.10	1.13	1.13	1.50	9.25	8.70	D
75	1108	1380.8	20.3	2.02	2.02	100	29.1	2770	1363.3	9.27	9.17	734	0	33.2	43.3	407	54398	38.2	9.0	269	604	.10	1.13	1.13	1.50	9.27	8.70	D
76	1112	1381.1	3.73	1.81	1.81	101	28.6	2720	1363.4	9.43	9.14	736	0	32.7	43.2	403	54813	38.5	9.1	2978	606	.10	1.62	1.62	1.50	9.31	8.70	D
77	1114	1381.4	7.37	1.86	1.86	100	31.1	2720	1363.5	9.56	9.20	736	0	32.3	43.4	405	55056	38.8	9.1	1015	606	.10	1.47	1.47	1.50	9.33	8.70	D
78	1116	1381.7	10.5	1.75	1.70	101	30.3	2710	1364.3	9.56	9.20	737	0	32.3	43.4	402	55240	39.1	9.2	511	606	.10	1.37	1.37	1.50	9.34	8.70	D
79	1117	1382.1	16.8	1.69	1.69	100	29.2	2700	1364.7	9.61	9.16	737	0	32.2	43.3	399	55375	39.4	9.2	692	605	.10	1.23	1.22	1.50	9.36	8.70	D
80	1121	1382.3	4.01	1.83	1.78	100	30.4	2720	1366.0	9.63	9.14	739	0	31.9	43.3	395	55773	39.7	9.2	7434	607	.10	1.62	1.61	1.50	9.39	8.70	D
81	1122	1382.6	17.4	1.89	1.89	101	30.8	2730	1366.3	9.58	9.18	740	0	32.0	43.5	393	55841	90.0	9.3	134	605	.10	1.23	1.23	1.50	9.41	8.70	D
82	1123	1382.9	12.5	1.97	1.97	100	29.6	2700	1366.7	9.58	9.18	738	0	32.0	43.5	394	55983	90.3	9.3	322	604	.10	1.30	1.30	1.50	9.41	8.70	D
83	1127	1383.2	4.85	1.78	1.78	99	29.7	2690	1368.2	9.57	9.23	739	0	32.0	43.5	395	56357	90.6	9.3	969	606	.10	1.55	1.54	1.50	9.43	8.70	D
84	1132	1383.5	3.95	1.79	1.79	100	29.3	2700	1370.1	9.50	9.23	739	0	32.4	43.5	394	56871	90.9	9.4	2553	609	.11	1.59	1.58	1.50	9.48	8.70	D
85	1135	1383.8	6.63	1.63	1.63	101	23.9	2710	1371.0	9.49	9.13	738	0	32.3	43.5	392	57125	91.2	9.5	903	609	.11	1.45	1.44	1.50	9.49	8.70	D
86	1139	1384.1	3.71	1.76	1.76	101	30.5	2710	1372.4	9.45	9.27	738	0	32.1	43.7	391	57584	91.6	9.6	955	611	.11	1.61	1.61	1.50	9.54	8.70	D
87	1145	1384.4	3.51	1.73	1.73	101	29.4	2710	1373.8	9.49	9.23	738	0	32.0	44.1	387	58104	91.9	9.6	1090	614	.11	1.61	1.60	1.50	9.56	8.70	D
88	1154	1384.7	2.03	1.74	1.74	98	23.8	2710	1376.6	9.43	9.22	736	0	32.4	44.0	384	59062	92.1	9.8	3711	621	.11	1.73	1.72	1.51	9.58	8.70	D
89	1203	1385.1	2.41	1.57	1.57	99	23.6	2710	1377.7	9.36	9.28	737	0	33.6	44.0	378	59930	92.5	9.9	2641	626	.11	1.59	1.59	1.51	9.61	8.70	D
90	1211	1385.4	2.10	1.79	1.79	99	33.8	2720	1378.8	9.28	9.27	736	0	33.9	44.4	408	60773	92.8	10.1	3063	632	.11	1.74	1.74	1.51	9.62	8.70	D
91	1221	1385.6	1.58	1.66	1.66	100	33.1	2750	1379.6	9.34	9.28	735	0	30.3	44.4	443	61700	93.1	10.2	3633	633	.12	1.82	1.81	1.51	9.53	8.70	D
92	1225	1385.9	3.24	1.60	1.60	100	33.3	2760	1379.8	8.96	9.24	733	0	29.7	44.4	439	62130	93.4	10.3	1993	640	.12	1.64	1.63	1.51	9.56	8.70	D
93	1231	1386.2	2.82	1.62	1.62	100	32.2	2770	1380.3	8.98	9.27	733	0	30.3	44.7	432	62744	93.7	10.4	1999	644	.12	1.71	1.71	1.51	9.51	8.70	D
94	1241	1386.6	1.93	1.65	1.65	99	31.8	2770	1380.6	8.97	9.25	733	0	31.0	44.6	428	63731	94.0	10.6	3104	650	.12	1.32	1.32	1.51	9.41	8.70	D
95	1247	1386.8	3.35	1.80	1.76	99	32.7	2770	1380.7	8.98	9.25	733	0	30.8	44.5	426	64269	94.3	10.7	1543	653	.12	1.73	1.73	1.51	9.34	8.70	D
96	1254	1387.1	2.47	1.53	1.53	100	30.4	2730	1381.2	9.00	9.23	734	0	31.0	44.8	418	65013	94.6	10.8	1347	653	.12	1.76	1.76	1.51	9.28	8.70	D
97	1312	1387.5	4.19	1.82	1.82	104	27.2	2700	1381.5	8.96	9.23	723	0	32.1	44.8	429	65496	94.8	10.9	1279	653	.12	1.60	1.59	1.52	9.19	8.70	D
98	1319	1387.8	2.34	2.18	2.16	102	30.0	2700	1381.8	8.98	9.20	723	0	30.7	44.6	438	66190	95.2	11.0	3304	663	.13	1.75	1.75	1.52	9.13	8.70	D
99	1325	1388.1	2.75	1.74	1.74	99	29.8	2710	1382.1	8.82	9.21	723	0	28.6	44.3	545	66804	95.5	11.1	1840	667	.13	1.75	1.75	1.52	9.10	8.70	D
00	1329	1388.4	5.07	1.55	1.55	99	30.8	2710	1382.3	8.81	9.19	723	0	28.5	44.1	537	67193	95.8	11.2	1037	668	.13	1.60	1.60	1.52	9.10	8.70	D
01	1338	1388.7	2.00	1.53	1.53	98	30.9	2720	1382.5	8.89	9.21	726	0	29.6	44.1	523	68030	96.1	11.3	1569	673	.13	1.36	1.36	1.52	9.08	8.70	D
02	1341	1389.0	5.95	1.63	1.61	98	29.7	2710	1382.7	8.91	9.19	725	0	29.8	44.1	519	68376	96.4	11.4	392	674	.13	1.55	1.54	1.52	9.08	8.70	D
03	1351	1389.3	1.93	1.72	1.72	98	32.3	2720	1383.1	8.92	9.23	726	0	30.5	44.6	510	69372	96.7	11.5	1313	681	.13	1.91	1.91	1.52	9.05	8.70	D
04	1357	1389.6	3.04	1.79	1.79	98	37.3	2720	1383.2	8.93	9.25	725	0	30.6	44.2	503	69940	97.0	11.6	1643	684	.13	1.87	1.86	1.52	9.03	8.70	D
05	1401	1389.9	4.72	1.84	1.84	99	41.0	2720	1383.4	8.96	9.24	724	0	30.5	44.4	497	70342	97.3	11.7	1557	685	.14	1.78	1.78	1.52	9.03	8.70	D
06	1403	1390.2	2.46	1.85	1.85	98	43.6	2720	1383.7	8.95	9.09	725	0	30.8	45.0	491	71039	97.6	11.8	1575	689	.14	1.97	1.97	1.52	9.01	8.70	D
07	1411	1390.5	4.92	1.83	1.83	98	43.0	2720	1383.9	8.90	9.07	724	0	30.9	44.8	490	71360	98.0	11.9	1335	691	.14	1.76	1.75	1.52	9.01	8.70	D
08	1416	1390.8	3.69	1.83	1.83	98	39.1	2720	1384.2	8.90	9.01	725	0	30.8	44.4	492	71850	98.3	12.0	1113	692	.14	1.83	1.83	1.53	9.01	8.70	D

P#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	ESP TVD	DXC	MK	MKB	SCD	EST FM PR
709	1423	1391.1	2.70	1.77	1.77	98	40.3	2720	1384.4	8.92	8.98	724	0	30.0	44.2	512	72515	98.6	12.1	2342	695	.14	1.94	1.94	1.53	9.01	8.70
710	1427	1391.4	4.71	1.89	1.89	97	39.8	2710	1384.7	8.88	8.97	724	0	30.0	44.4	524	72920	98.9	12.1	1361	697	.14	1.76	1.76	1.53	9.01	8.70
711	1431	1391.8	6.35	1.89	1.89	98	39.8	2700	1384.9	8.82	8.97	723	0	30.2	44.2	534	73259	99.2	12.2	849	698	.14	1.69	1.69	1.53	9.02	8.70
712	1436	1392.4	6.16	1.96	1.96	130	39.0	2740	1385.8	8.97	9.13	729	0	30.7	44.6	550	73901	99.8	12.3	684	698	.15	1.76	1.74	1.53	9.03	8.70
713	1438	1392.6	6.95	2.01	2.04	132	38.8	2400	1385.1	8.93	9.11	710	0	30.8	44.5	557	74202	100	12.3	725	697	.15	1.72	1.71	1.53	9.03	8.70
714	1440	1393.0	12.0	2.06	2.04	125	39.6	2010	1385.2	8.93	9.09	651	0	30.9	44.7	562	74407	100	12.3	445	697	.15	1.56	1.54	1.53	9.03	8.70
715	1441	1393.2	12.0	2.10	2.10	133	39.8	2010	1385.3	8.89	9.15	632	0	31.2	44.7	570	74563	101	12.4	386	696	.15	1.58	1.56	1.54	9.03	8.70
716	1444	1393.6	8.29	1.88	1.88	132	36.5	1010	1385.4	8.89	9.15	504	0	31.2	44.7	573	74852	101	12.4	689	696	.15	1.64	1.63	1.54	9.02	8.70
717	1448	1393.9	10.8	1.68	1.68	104	12.6	2180	1385.5	8.84	9.08	521	0	31.1	44.6	573	75068	101	12.4	515	695	.15	1.14	1.13	1.54	9.02	8.70
718	1449	1394.5	38.7	1.98	1.98	125	32.4	2200	1385.5	8.80	9.08	638	0	30.8	44.0	572	75169	102	12.4	134	691	.15	1.14	1.13	1.54	9.03	8.70
719	1450	1394.8	15.9	2.01	2.01	127	36.6	1980	1385.6	8.80	9.08	640	0	30.8	44.0	569	75290	102	12.5	279	690	.15	1.44	1.43	1.54	9.04	8.70
720	1451	1395.1	10.1	2.39	2.39	127	39.5	1250	1385.7	8.83	9.12	476	0	30.1	43.7	577	75500	103	12.5	407	689	.15	1.61	1.60	1.54	9.04	8.70
721	1452	1395.4	68.9	2.17	1.03	128	37.3	1400	1385.7	8.83	9.12	464	0	30.1	43.7	577	75540	103	12.5	245	688	.15	1.02	1.01	1.54	9.04	8.70
722	1452	1395.7	19.7	2.31	2.31	131	36.8	1570	1385.8	8.83	9.12	521	0	30.1	43.7	578	75627	103	12.5	191	687	.15	1.39	1.38	1.54	9.04	8.70
723	1454	1396.0	11.7	2.25	2.25	131	40.0	1700	1385.8	8.82	9.17	562	0	29.2	43.7	576	75826	103	12.5	332	685	.15	1.58	1.57	1.54	9.05	8.70
724	1500	1396.7	12.1	2.21	2.31	131	39.8	1750	1385.9	8.85	9.17	575	0	29.2	44.0	591	75979	104	12.6	331	685	.15	1.58	1.56	1.54	9.04	8.70
725	1503	1397.5	26.9	2.63	2.63	124	26.9	1900	1386.0	8.85	9.15	612	0	31.1	43.7	579	76088	105	12.6	153	677	.15	1.17	1.16	1.54	9.07	8.70
726	1503	1397.8	30.6	2.24	2.24	123	37.6	2020	1386.0	8.85	9.15	619	0	31.1	43.7	576	76165	105	12.6	192	676	.15	1.25	1.24	1.54	9.07	8.70
727	1505	1398.1	9.92	2.58	1.03	122	39.8	2040	1386.1	8.86	9.10	635	0	32.2	43.6	571	76365	106	12.6	348	675	.15	1.60	1.59	1.54	9.07	8.70
728	1507	1398.5	11.0	2.10	2.10	122	37.8	2130	1386.2	8.86	9.10	648	0	32.2	43.6	566	76630	106	12.6	414	675	.15	1.54	1.53	1.54	9.08	8.70
729	1509	1399.1	15.2	2.36	2.43	122	37.7	2220	1386.4	8.87	9.12	662	0	32.7	43.8	563	76869	106	12.7	453	673	.15	1.45	1.44	1.54	9.08	8.70
730	1510	1399.4	31.1	2.22	2.22	121	37.0	2230	1386.5	8.88	9.14	664	0	33.1	43.7	561	76930	107	12.7	170	671	.15	1.23	1.22	1.54	9.08	8.70
731	1510	1399.6	35.4	3.07	3.07	121	34.2	2230	1386.5	8.88	9.14	664	0	33.1	43.7	561	76986	107	12.7	135	669	.15	1.17	1.16	1.54	9.08	8.70
732	1510	1399.9	150	2.07	2.07	123	28.8	2220	1386.5	8.88	9.14	664	0	33.1	43.7	561	77001	107	12.7	149	669	.15	.73	.72	1.54	9.08	8.70
733	1510	1400.3	87.8	2.24	2.24	122	36.7	2230	1386.5	8.88	9.14	664	0	33.1	43.7	559	77025	108	12.7	51	666	.15	.93	.92	1.54	9.08	8.70
734	1511	1400.6	54.0	2.22	2.22	121	37.0	2240	1386.5	8.88	9.14	664	0	33.1	43.7	560	77057	108	12.7	72	664	.15	1.07	1.06	1.54	9.09	8.70
735	1511	1401.2	66.3	2.14	1.03	124	37.9	1370	1386.5	8.88	9.14	663	0	33.1	43.7	559	77129	109	12.7	89	661	.16	1.03	1.01	1.54	9.09	8.70
736	1513	1401.5	8.27	1.86	1.86	116	22.5	1850	1386.6	8.86	9.13	562	0	33.4	43.8	563	77351	109	12.7	707	661	.16	1.39	1.38	1.54	9.09	8.70
737	1514	1401.8	22.6	2.10	2.10	120	25.0	1880	1386.7	8.86	9.13	595	0	33.4	43.8	563	77449	109	12.8	209	659	.16	1.18	1.17	1.54	9.09	8.70
738	1515	1402.1	23.9	2.26	2.26	122	27.7	2210	1386.7	8.88	9.16	633	0	33.6	43.8	562	77547	110	12.8	290	659	.16	1.20	1.19	1.54	9.09	8.70
739	1515	1402.4	70.2	2.11	2.11	122	33.4	2200	1386.8	8.88	9.16	641	0	33.6	43.8	561	77572	110	12.8	84	657	.16	.97	.96	1.55	9.09	8.70
740	1517	1403.0	13.0	1.32	1.32	120	35.6	2200	1386.8	8.88	9.16	659	0	33.6	43.8	557	77855	110	12.8	469	655	.16	1.46	1.45	1.54	9.10	8.70
741	1517	1403.3	94.6	2.34	1.03	120	31.7	2190	1386.8	8.88	9.16	659	0	33.6	43.8	558	77877	111	12.8	61	653	.16	.87	.86	1.55	9.10	8.70
742	1518	1403.6	80.0	2.31	2.31	134	36.7	2200	1386.9	8.88	9.16	659	0	33.6	43.8	559	77904	111	12.8	71	652	.16	.98	.97	1.55	9.10	8.70
743	1518	1404.0	60.2	2.34	1.03	134	40.8	2210	1386.9	8.88	9.16	659	0	33.6	43.8	557	77935	111	12.8	64	650	.16	1.10	1.09	1.55	9.10	8.70
744	1518	1404.3	34.3	2.34	2.34	134	40.9	2210	1386.9	8.88	9.13	659	0	33.9	43.7	558	78006	112	12.8	176	649	.16	1.27	1.25	1.55	9.10	8.70
745	1519	1404.5	39.9	2.44	2.44	132	40.0	2220	1386.9	8.88	9.13	659	0	33.9	43.7	557	78051	112	12.8	77	647	.16	1.21	1.20	1.55	9.10	8.70
746	1519	1405.0	76.0	2.42	2.42	134	35.3	2210	1386.9	8.88	9.13	659	0	33.9	43.7	557	78068	112	12.8	54	645	.16	.99	.98	1.55	9.10	8.70
747	1519	1405.4	80.0	2.20	2.20	132	39.5	2220	1386.9	8.88	9.13	660	0	33.9	43.7	558	78115	113	12.8	56	642	.16	1.00	.99	1.55	9.10	8.70
748	1520	1405.7	60.2	2.24	2.24	132	36.5	2190	1386.9	8.88	9.13	660	0	33.9	43.7	558	78146	113	12.8	95	641	.16	1.06	1.05	1.55	9.10	8.70
749	1527	1406.1	24.3	1.10	1.03	129	40.6	2230	1387.3	8.88	9.16	613	0	34.0	43.7	573	78174	113	12.9	87	640	.16	1.36	1.35	1.55	9.09	8.70
750	1528	1407.0	32.1	2.21	2.21	129	29.5	2220	1387.3	8.88	9.12	657	0	34.0	43.5	567	78301	114	12.9	209	635	.16	1.16	1.15	1.55	9.10	8.70
751	1529	1407.3	22.1	2.15	2.15	126	35.6	2230	1387.3	8.88	9.12	661	0	34.0	43.5	564	78391	115	12.9	202	634	.16	1.32	1.31	1.55	9.10	8.70
752	1529	1407.6	51.7	2.36	2.36	126	37.2	2240	1387.3	8.88	9.12	660	0	34.0	43.5	562	78438	115	12.9	121	632	.16	1.10	1.08	1.55	9.11	8.70
753	1529	1408.0	140	2.18	2.18	124	35.6	2230	1387.3	8.88	9.12	661	0	34.0	43.5	561	78456	115	12.9	40	632	.16	.79	.78	1.55	9.11	8.70
754	1529	1408.5	138	2.08	2.08	127	31.4	2230	1387.3	8.88	9.12	661	0	34.0	43.5	560	78484	116	12.9	26	628	.16	.77	.76	1.55	9.11	8.70
755	1530	1408.9	121	2.10	2.10	127	29.5	2220	1387.3	8.88	9.12	661	0	34.0	43.5	559	78505	116	12.9	38	626	.16	.80	.79	1.55	9.11	8.70
756	1530	1409.4	74.6	2.36	2.36	127	34.4	2230	1387.4	8.89	9.10	661	0	33.9	43.6	558	78552	117	12.9	82	623	.16	.97	.96	1.55	9.12	8.70
757	1530	1409.8	69.9	2.16	2.16	127	37.3	2230	1387.4	8.89	9.10	661	0	33.9	43.6	558	78589	117	12.9	102	622	.16	1.01	1.00	1.55	9.12	8.70
758	1531	1410.0	46.1	2.23	2.23	127	38.4	2230	1387.4	8.89	9.10	660	0	33.9	43.6	557	78629	117	12.9	81	620	.16	1.14	1.13	1.55	9.12	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
759	1531	1410.3	35.5	2.30	2.30	126	36.8	2240	1387.5	8.89	9.10	660	0	33.9	43.6	556	78684	118	12.9	123	619	.16	1.20	1.19	1.55	9.12	8.70
760	1532	1410.6	23.6	2.25	2.25	127	37.0	2230	1387.5	8.89	9.10	661	0	33.9	43.6	555	78788	118	12.9	242	618	.16	1.32	1.31	1.55	9.12	8.70
761	1533	1411.2	27.2	2.29	2.29	127	37.6	2250	1387.7	8.90	9.13	661	0	34.1	44.0	552	78919	119	12.9	90	615	.16	1.28	1.27	1.55	9.13	8.70
762	1534	1411.5	25.1	2.37	2.37	125	38.7	2250	1387.7	8.90	9.13	661	0	34.1	44.0	552	79009	119	13.0	194	615	.16	1.31	1.30	1.55	9.13	8.70
763	1534	1411.9	60.8	2.33	2.35	127	36.0	2230	1387.8	8.90	9.13	661	0	34.1	44.0	552	79057	119	13.0	107	613	.16	1.04	1.03	1.55	9.13	8.70
764	1534	1412.2	80.7	2.14	2.14	126	37.5	2240	1387.8	8.90	9.13	661	0	34.1	44.0	552	79080	120	13.0	69	612	.16	.97	.95	1.55	9.13	8.70
765	1534	1412.8	112	2.25	2.25	125	34.1	2240	1387.8	8.90	9.13	660	0	34.1	44.0	551	79112	120	13.0	54	610	.16	.84	.83	1.55	9.14	8.70
766	1535	1413.1	105	2.17	2.17	126	33.1	2230	1387.9	8.92	9.12	660	0	34.2	43.5	550	79133	120	13.0	73	608	.16	.86	.85	1.55	9.14	8.70
767	1535	1413.4	72.9	2.11	2.11	126	36.5	2240	1387.9	8.92	9.12	660	0	34.2	43.5	551	79160	121	13.0	58	606	.16	.99	.98	1.55	9.14	8.70
768	1535	1414.0	114	2.42	2.42	125	35.4	2240	1387.9	8.92	9.12	660	0	34.2	43.5	550	79185	121	13.0	42	604	.16	.85	.84	1.55	9.14	8.70
769	1535	1414.6	143	3.05	3.80	127	35.5	2240	1387.9	8.92	9.12	660	0	34.2	43.5	549	79215	122	13.0	44	600	.16	.79	.78	1.55	9.14	8.70
770	1535	1414.9	52.6	1.89	1.89	121	36.2	2240	1387.9	8.92	9.12	660	0	34.2	43.5	549	79247	122	13.0	80	599	.16	1.06	1.05	1.55	9.15	8.70
771	1536	1415.3	79.3	2.14	2.14	123	34.7	2220	1387.9	8.92	9.12	660	0	34.2	43.5	549	79272	123	13.0	36	597	.16	.94	.93	1.55	9.15	8.70
772	1543	1415.5	75.2	1.61	1.03	133	9.3	2240	1388.4	8.93	9.02	638	0	34.3	43.5	563	79316	123	13.0	65	591	.16	.70	.69	1.55	9.15	8.70
773	1543	1415.8	70.0	1.88	1.88	131	17.7	2240	1388.5	8.93	9.02	651	0	34.3	43.5	560	79360	123	13.0	63	592	.16	.83	.82	1.55	9.15	8.70
774	1544	1416.1	38.0	2.08	2.08	128	31.8	2230	1388.6	8.93	9.02	659	0	34.3	43.5	558	79437	124	13.0	156	590	.16	1.13	1.12	1.55	9.16	8.70
+ Circulate bottoms up.																											
776	1650	1417.7	50.4	2.40	2.40	126	36.9	2270	1412.1	8.98	9.01	669	0	33.1	45.2	531	79634	125	13.0	96	588	.16	1.11	1.10	1.55	9.03	8.70
777	1650	1418.0	40.1	2.18	2.18	124	35.6	2280	1412.1	8.98	9.01	669	0	33.1	45.2	532	79686	125	13.1	149	587	.16	1.16	1.15	1.55	9.04	8.70
778	1651	1418.3	18.8	2.43	2.43	127	38.2	2280	1412.1	9.02	8.97	669	0	33.0	45.0	531	79800	126	13.1	258	586	.16	1.41	1.40	1.55	9.04	8.70
779	1652	1418.6	31.0	2.37	2.37	126	36.0	2280	1412.1	9.02	8.97	669	0	33.0	45.0	533	79863	126	13.1	142	585	.16	1.24	1.23	1.55	9.04	8.70
780	1652	1418.9	63.2	2.16	2.16	126	36.5	2290	1412.1	9.02	8.97	669	0	33.0	45.0	532	79894	126	13.1	126	584	.16	1.04	1.03	1.55	9.04	8.70
781	1653	1419.2	21.9	2.35	2.35	126	37.7	2290	1412.1	9.02	8.97	669	0	33.0	45.0	532	79999	127	13.1	221	583	.16	1.36	1.34	1.55	9.05	8.70
782	1653	1419.5	49.4	2.17	2.17	125	37.0	2280	1412.1	9.02	8.97	669	0	33.0	45.0	531	80047	127	13.1	96	582	.16	1.11	1.10	1.55	9.05	8.70
783	1654	1419.8	33.5	2.49	2.49	126	36.3	2260	1412.1	9.02	9.07	670	0	33.0	44.4	530	80104	127	13.1	133	581	.16	1.22	1.21	1.55	9.06	8.70
784	1654	1420.1	48.8	2.33	2.33	126	34.9	2290	1412.1	9.02	9.07	670	0	33.0	44.4	534	80162	128	13.1	60	580	.16	1.10	1.09	1.56	9.06	8.70
785	1654	1420.4	64.7	2.46	2.46	127	37.4	2290	1412.1	9.02	9.07	670	0	33.0	44.4	533	80187	128	13.1	54	579	.16	1.04	1.03	1.56	9.06	8.70
786	1655	1420.7	50.2	2.30	2.30	127	38.0	2290	1412.1	9.02	9.07	670	0	33.0	44.4	532	80236	128	13.1	64	577	.16	1.12	1.11	1.56	9.06	8.70
787	1655	1421.0	22.1	2.45	2.45	125	36.9	2280	1412.1	9.02	9.07	670	0	33.0	44.4	533	80325	128	13.1	188	576	.16	1.34	1.33	1.56	9.06	8.70
788	1655	1421.3	65.1	2.37	2.37	127	36.9	2290	1412.1	9.00	9.02	670	0	33.0	44.3	531	80352	129	13.1	72	575	.16	1.03	1.02	1.56	9.07	8.70
789	1656	1421.7	39.8	2.20	2.20	125	35.4	2290	1412.1	9.00	9.02	670	0	33.0	44.3	534	80429	129	13.2	194	575	.16	1.16	1.14	1.56	9.07	8.70
790	1658	1422.3	26.0	2.40	2.40	125	35.8	2270	1412.1	9.00	9.02	669	0	33.0	44.3	533	80607	130	13.2	290	572	.16	1.28	1.27	1.56	9.07	8.70
791	1659	1422.8	29.9	2.31	2.31	125	37.8	2290	1412.1	8.98	9.05	670	0	33.1	44.2	535	80733	130	13.2	203	570	.16	1.26	1.25	1.55	9.08	8.70
792	1659	1423.2	34.0	2.28	2.28	127	38.6	2290	1412.1	8.98	9.05	670	0	33.1	44.2	534	80798	131	13.2	338	570	.17	1.23	1.22	1.56	9.08	8.70
793	1700	1423.4	13.9	2.38	2.38	126	38.0	2280	1412.1	9.00	9.02	669	0	33.1	43.9	535	80919	131	13.2	272	569	.17	1.49	1.47	1.56	9.08	8.70
794	1701	1423.8	30.1	2.36	2.36	125	38.9	2270	1412.1	9.00	9.02	671	0	33.1	43.9	537	81012	131	13.2	276	568	.17	1.27	1.26	1.55	9.09	8.70
795	1709	1424.0	26.0	1.79	1.79	122	18.0	2280	1412.1	8.99	9.10	664	0	32.9	43.9	542	81086	131	13.2	294	568	.17	1.05	1.05	1.56	9.09	8.70
796	1709	1424.4	63.2	1.86	1.86	122	22.9	1740	1412.1	8.99	9.10	666	0	32.9	43.9	539	81127	132	13.2	79	566	.17	.90	.89	1.56	9.09	8.70
797	1713	1424.7	6.28	1.97	1.97	121	23.7	1720	1412.1	9.01	9.06	549	0	32.9	44.0	546	81414	132	13.3	5157	566	.17	1.49	1.48	1.55	9.09	8.70
798	1714	1424.9	13.2	1.98	1.98	113	22.4	1730	1412.1	8.99	9.11	582	0	33.0	44.0	542	81528	132	13.3	304	565	.17	1.27	1.26	1.55	9.10	8.70
799	1715	1425.3	21.8	1.81	1.81	116	22.2	1960	1412.1	8.99	9.11	601	0	33.0	44.0	540	81652	133	13.3	353	565	.17	1.14	1.14	1.56	9.10	8.70
800	1717	1425.6	9.42	1.98	1.98	117	25.7	1970	1412.1	8.99	9.14	621	0	33.0	43.7	539	81821	133	13.3	408	564	.17	1.41	1.40	1.56	9.11	8.70
801	1719	1425.9	7.51	1.91	1.91	116	27.5	1970	1412.1	8.99	9.14	622	0	33.0	43.7	537	82092	133	13.4	627	565	.17	1.49	1.48	1.55	9.11	8.70
802	1720	1426.2	14.9	2.02	2.02	116	29.0	1970	1412.1	8.99	9.13	623	0	33.1	43.6	535	82241	134	13.4	381	564	.17	1.33	1.32	1.55	9.12	8.70
803	1722	1426.5	9.72	2.19	2.19	117	29.3	1980	1412.1	9.03	9.06	623	0	33.2	43.8	535	82444	134	13.4	538	564	.17	1.45	1.44	1.55	9.12	8.70
804	1723	1426.8	19.9	2.20	2.20	116	30.1	1950	1412.1	9.03	9.06	621	0	33.2	43.8	536	82550	134	13.4	261	563	.17	1.26	1.25	1.55	9.12	8.70
805	1724	1427.1	19.5	2.26	2.26	115	29.3	1970	1412.1	9.03	9.06	621	0	33.2	43.8	536	82655	134	13.5	330	563	.17	1.26	1.25	1.55	9.13	8.70
806	1724	1427.4	31.3	2.06	1.03	115	27.8	1970	1412.1	9.01	9.09	622	0	33.3	43.7	535	82719	135	13.5	161	562	.17	1.11	1.10	1.55	9.13	8.70
807	1725	1427.7	39.0	2.02	2.02	117	25.5	1970	1412.1	9.01	9.09	622	0	33.3	43.7	534	82772	135	13.5	126	561	.17	1.03	1.02	1.55	9.13	8.70
808	1725	1428.1	38.3	2.05	2.05	117	24.3	1970	1412.1	9.01	9.09	622	0	33.3	43.7	535	82838	135	13.5	234	560	.17	1.02	1.02	1.55	9.14	8.70

AMOCO AUST. Tilana No.1

329123

Data Printed at time 15:35 Date Oct 9 [illegible]5
Data Recorded at time 17:26 Date Sep 1[illegible] 85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
809	1726	1428.3	16.3	2.15	2.15	117	25.6	1980	1412.1	9.01	9.09	622	0	33.3	43.7	534	82941	136	13.5	226	559	.17	1.26	1.25	1.55	9.14	8.70
810	1727	1428.6	15.2	1.99	1.99	116	26.8	1970	1412.1	9.08	9.00	623	0	33.4	43.7	536	83081	136	13.5	300	558	.17	1.29	1.28	1.55	9.15	8.70
811	1728	1428.9	24.1	1.99	1.99	117	26.2	1970	1412.1	9.08	9.00	623	0	33.4	43.7	535	83167	136	13.5	251	558	.17	1.16	1.16	1.55	9.15	8.70
812	1729	1429.2	22.6	2.00	1.03	117	25.2	1980	1412.1	9.09	9.12	623	0	33.4	44.0	534	83262	137	13.6	244	557	.17	1.17	1.16	1.55	9.16	8.70
813	1730	1429.9	26.3	2.12	2.12	117	24.3	1970	1412.1	9.09	9.12	624	0	33.4	44.0	533	83406	137	13.6	185	555	.17	1.12	1.11	1.55	9.16	8.70
814	1731	1430.2	23.1	2.14	2.14	117	25.2	1980	1412.1	9.09	9.12	624	0	33.4	44.0	535	83501	138	13.6	387	555	.17	1.16	1.15	1.55	9.16	8.70
815	1732	1430.4	12.2	2.14	2.28	117	25.0	1980	1412.1	8.95	9.01	624	0	33.6	43.8	533	83650	138	13.6	427	554	.17	1.32	1.31	1.55	9.17	8.70
816	1733	1430.7	14.8	2.17	2.17	117	28.0	1980	1412.1	8.95	9.01	624	0	33.6	43.8	532	83744	138	13.6	267	553	.17	1.31	1.30	1.55	9.17	8.70
817	1734	1431.0	25.9	2.09	2.09	118	26.7	1980	1412.1	8.95	9.01	624	0	33.6	43.8	533	83826	138	13.6	159	553	.17	1.15	1.14	1.55	9.17	8.70
818	1737	1431.3	5.18	2.17	2.17	117	28.9	1970	1412.1	8.95	9.07	623	0	33.7	43.9	533	84226	139	13.7	816	553	.17	1.60	1.59	1.56	9.18	8.70
819	1738	1431.6	21.4	2.14	2.14	117	27.4	1970	1412.1	8.95	9.07	622	0	33.7	43.9	533	84325	139	13.7	246	553	.17	1.20	1.20	1.56	9.19	8.70
820	1740	1432.0	10.3	2.02	2.02	117	27.6	1970	1412.1	8.95	9.07	622	0	33.7	43.9	533	84529	139	13.7	484	553	.17	1.40	1.39	1.55	9.19	8.70
821	1741	1432.3	12.9	2.17	2.17	117	27.8	1970	1412.1	8.91	9.05	622	0	33.7	44.0	533	84695	140	13.8	425	552	.17	1.34	1.33	1.55	9.19	8.70
822	1742	1432.6	17.2	2.02	2.02	117	28.5	1970	1412.1	8.91	9.05	623	0	33.7	44.0	535	84839	140	13.8	256	552	.17	1.28	1.27	1.55	9.20	8.70
823	1744	1432.9	10.5	2.21	2.21	117	28.1	1980	1412.1	8.93	9.06	623	0	33.8	43.8	531	84989	140	13.8	442	551	.17	1.40	1.39	1.55	9.20	8.70
824	1745	1433.2	12.8	2.20	2.20	117	26.3	1970	1412.1	8.92	9.03	622	0	33.8	43.7	534	85154	141	13.8	346	551	.18	1.32	1.31	1.55	9.20	8.70
825	1754	1434.5	26.3	2.24	1.03	115	22.9	1900	1414.0	8.90	9.06	603	0	33.5	43.7	555	85224	142	13.8	192	550	.18	1.09	1.08	1.55	9.19	8.70
826	1757	1435.0	61.1	2.28	1.03	113	13.8	1910	1415.1	8.90	9.06	608	0	33.5	43.7	547	85281	142	13.8	118	545	.18	.77	.77	1.55	9.19	8.70
827	1758	1435.4	33.1	2.38	1.03	120	31.0	1910	1415.4	8.90	9.15	610	0	33.1	44.2	549	85351	143	13.8	179	544	.18	1.14	1.13	1.56	9.20	8.70
828	1758	1435.7	78.5	2.47	2.47	119	37.7	1910	1415.6	8.90	9.15	611	0	33.1	44.2	547	85377	143	13.9	143	543	.18	.95	.94	1.55	9.20	8.70
829	1759	1436.0	12.5	2.69	2.66	119	35.5	1890	1416.5	8.90	9.15	609	0	33.1	44.2	544	85538	143	13.9	467	543	.18	1.45	1.44	1.55	9.20	8.70
830	1800	1436.2	27.2	2.53	2.53	118	34.5	1890	1416.9	8.90	9.15	608	0	33.1	44.2	541	85599	144	13.9	350	542	.18	1.22	1.21	1.56	9.20	8.70
831	1800	1436.6	25.1	2.37	2.37	118	34.5	1900	1417.3	8.89	9.13	609	0	33.2	44.5	543	85682	144	13.9	177	541	.18	1.24	1.23	1.56	9.20	8.70
832	1801	1436.9	81.0	2.33	2.33	118	35.9	1890	1417.4	8.89	9.13	609	0	33.2	44.5	539	85707	144	13.9	203	540	.18	.93	.92	1.56	9.20	8.70
833	1802	1437.1	8.17	2.40	2.40	118	33.6	1900	1418.3	8.89	9.13	610	0	33.2	44.5	537	85885	145	13.9	477	540	.18	1.55	1.54	1.56	9.19	8.70
834	1803	1437.5	36.2	2.48	2.48	118	29.7	1890	1418.5	8.92	9.09	610	0	33.4	44.2	537	85958	145	13.9	570	540	.18	1.09	1.08	1.56	9.19	8.70
835	1804	1438.1	24.0	2.27	2.27	118	27.1	1900	1419.2	8.92	9.09	611	0	33.4	44.2	538	86117	145	14.0	188	537	.18	1.17	1.16	1.56	9.19	8.70
836	1805	1438.4	25.7	2.37	2.37	118	25.3	1900	1419.4	8.92	9.09	611	0	33.4	44.2	535	86180	146	14.0	169	537	.18	1.13	1.12	1.56	9.19	8.70
837	1805	1438.7	26.2	2.17	2.17	118	23.7	1900	1419.6	8.91	9.11	611	0	33.4	43.7	537	86265	146	14.0	208	536	.18	1.11	1.10	1.56	9.19	8.70
838	1806	1439.0	17.7	2.26	2.26	118	26.2	1900	1419.7	8.91	9.11	609	0	33.4	43.7	537	86384	146	14.0	347	536	.18	1.24	1.23	1.56	9.20	8.70
839	1807	1439.3	22.1	2.34	2.34	117	25.8	1890	1419.8	8.91	9.11	609	0	33.4	43.7	536	86478	147	14.0	198	535	.18	1.17	1.17	1.56	9.20	8.70
840	1808	1439.6	40.3	2.19	2.19	117	26.1	1890	1419.9	8.91	9.11	609	0	33.4	43.7	536	86527	147	14.0	236	534	.18	1.02	1.01	1.56	9.20	8.70
841	1808	1439.9	40.7	2.20	2.20	118	24.1	1880	1419.9	8.91	9.11	609	0	33.4	43.7	536	86578	147	14.0	118	533	.18	1.00	.99	1.56	9.20	8.70
842	1809	1440.2	20.0	2.20	2.20	118	25.2	1860	1420.0	8.91	9.11	606	0	33.4	43.7	535	86697	148	14.0	316	533	.18	1.19	1.18	1.56	9.20	8.70
843	1810	1440.5	30.2	2.15	2.15	116	25.6	1870	1420.1	8.90	9.12	609	0	33.5	43.9	535	86752	148	14.0	184	532	.18	1.09	1.08	1.56	9.20	8.70
844	1811	1440.8	15.0	2.30	2.30	117	25.8	1860	1420.4	8.90	9.12	589	0	33.5	43.9	536	86915	148	14.1	310	531	.18	1.28	1.27	1.56	9.20	8.70
845	1811	1441.1	30.1	2.45	2.45	117	26.9	1860	1420.5	8.90	9.12	599	0	33.5	43.9	536	86974	149	14.1	155	531	.18	1.11	1.10	1.56	9.20	8.70
846	1812	1441.4	34.2	2.01	2.01	117	24.7	1850	1420.6	8.90	9.12	602	0	33.5	43.9	534	87036	149	14.1	137	530	.18	1.05	1.04	1.56	9.20	8.70
847	1812	1441.7	36.6	2.33	2.33	112	22.8	730	1420.7	8.90	9.12	596	0	33.5	43.9	537	87080	149	14.1	140	529	.18	1.00	.99	1.56	9.21	8.70
848	1813	1442.0	17.9	2.00	2.00	114	20.0	1410	1420.9	8.92	9.12	694	0	33.5	44.1	539	87167	149	14.1	227	528	.18	1.14	1.13	1.56	9.21	8.70
849	1814	1442.3	20.2	2.04	2.04	116	18.6	1410	1421.0	8.92	9.12	786	0	33.5	44.1	539	87258	150	14.1	213	528	.18	1.10	1.09	1.56	9.21	8.70
850	1815	1442.7	23.9	1.80	1.81	115	18.0	1400	1421.2	8.92	9.12	813	0	33.5	44.1	539	87342	150	14.1	232	527	.18	1.05	1.04	1.56	9.22	8.70
851	1820	1442.9	7.03	1.85	1.85	113	19.7	1740	1422.2	8.97	9.06	714	0	32.8	43.7	552	87544	150	14.2	912	527	.18	1.36	1.35	1.56	9.21	8.70
852	1821	1443.2	27.5	1.85	1.85	112	30.0	1730	1422.4	8.97	9.10	697	0	31.9	43.4	556	87620	151	14.2	342	527	.18	1.15	1.15	1.56	9.20	8.70
853	1833	1443.5	10.2	1.60	1.03	114	25.2	2330	1424.9	8.98	9.07	584	0	30.6	42.6	531	87822	151	14.2	3733	527	.18	1.36	1.35	1.56	9.17	8.70
854	1833	1443.9	45.5	2.32	2.32	113	36.2	2420	1425.0	8.98	9.07	619	0	30.6	42.6	528	87867	151	14.2	123	526	.18	1.08	1.07	1.56	9.17	8.70
855	1834	1444.2	23.1	2.57	2.57	114	43.0	1910	1425.3	8.97	9.17	605	0	30.5	43.3	528	87955	152	14.2	208	525	.18	1.35	1.34	1.56	9.17	8.70
856	1835	1444.5	26.9	2.03	1.03	118	37.1	1910	1425.6	8.97	9.17	605	0	30.5	43.3	525	88040	152	14.2	274	524	.18	1.25	1.24	1.56	9.17	8.70
857	1836	1445.1	18.8	2.25	2.25	118	35.1	1910	1426.2	8.96	9.12	610	0	30.6	44.0	523	88216	152	14.3	250	523	.18	1.34	1.33	1.56	9.16	8.70
858	1837	1445.4	21.1	2.18	2.18	118	37.5	1910	1426.5	8.96	9.12	610	0	30.6	44.0	523	88304	153	14.3	217	522	.18	1.33	1.32	1.56	9.16	8.70

AMOCO AUST. Tilana No.1 329124

Data Printed at time 15:39 Date Oct 9 '85
Data Recorded at time 18:37 Date Sep 12 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NK	NKB	ECD	EST FM PR
859	1837	1445.7	51.5	2.21	2.21	118	37.5	1930	1426.6	8.96	9.12	610	0	30.6	44.0	522	88339	153	14.3	236	522	.18	1.07	1.06	1.56	9.16	8.70
860	1838	1446.0	22.8	2.25	2.25	118	37.0	1940	1426.9	8.96	9.12	612	0	30.6	44.0	518	88427	153	14.3	181	521	.18	1.30	1.29	1.56	9.17	8.70
861	1839	1446.3	14.6	2.03	2.03	119	36.6	1930	1427.3	9.00	9.14	613	0	30.8	43.8	519	88583	154	14.3	372	521	.18	1.43	1.42	1.56	9.16	8.70
862	1839	1446.6	53.0	2.20	2.20	118	33.4	1900	1427.3	9.00	9.14	613	0	30.8	43.8	518	88610	154	14.3	98	520	.18	1.03	1.02	1.56	9.16	8.70
863	1841	1446.9	13.0	2.40	2.40	118	34.7	1930	1427.7	9.01	9.14	614	0	30.8	42.9	519	88786	154	14.3	304	519	.18	1.44	1.43	1.56	9.16	8.70
864	1841	1447.2	27.9	2.29	2.29	118	37.5	1930	1427.8	9.01	9.14	614	0	30.8	42.9	519	88853	155	14.4	251	519	.18	1.25	1.24	1.56	9.16	8.70
865	1842	1447.5	56.0	1.64	1.64	118	37.3	1930	1427.8	9.01	9.14	614	0	30.8	42.9	518	88887	155	14.4	84	518	.18	1.05	1.04	1.56	9.16	8.70
866	1842	1447.8	67.9	2.09	2.09	118	34.4	1930	1427.8	9.01	9.14	614	0	30.8	42.9	517	88920	155	14.4	79	517	.18	.97	.96	1.56	9.16	8.70
867	1842	1448.1	49.3	1.96	1.96	118	35.9	1930	1427.9	9.01	9.14	613	0	30.8	42.9	518	88959	155	14.4	124	517	.18	1.07	1.06	1.56	9.17	8.70
868	1844	1448.5	16.3	2.34	2.34	118	38.0	1930	1428.0	9.00	9.14	613	0	30.8	43.0	514	89099	156	14.4	361	516	.19	1.41	1.40	1.56	9.17	8.70
869	1844	1448.7	40.5	2.03	2.03	118	38.8	1930	1428.1	9.00	9.14	613	0	30.8	43.0	517	89144	156	14.4	131	516	.19	1.15	1.14	1.56	9.17	8.70
870	1845	1449.2	28.2	2.33	2.33	118	39.0	1910	1428.4	9.00	9.14	613	0	30.8	43.0	516	89255	156	14.4	246	514	.19	1.26	1.25	1.56	9.17	8.70
871	1846	1449.6	15.8	1.99	1.99	118	39.1	1930	1428.7	9.00	9.09	613	0	30.8	43.3	515	89426	157	14.4	368	514	.19	1.43	1.42	1.56	9.17	8.70
872	1847	1450.0	39.4	2.14	2.32	118	38.4	1930	1428.8	9.00	9.09	613	0	30.8	43.3	515	89483	157	14.4	147	513	.19	1.16	1.15	1.56	9.17	8.70
873	1847	1450.3	60.9	2.21	2.21	118	38.8	1910	1428.9	9.00	9.09	613	0	30.8	43.3	514	89520	158	14.5	97	512	.19	1.03	1.02	1.56	9.17	8.70
874	1848	1450.5	22.6	2.31	2.31	118	40.1	1910	1429.0	9.00	9.09	612	0	30.8	43.3	514	89591	158	14.5	171	511	.19	1.34	1.33	1.56	9.17	8.70
875	1848	1450.9	21.1	2.46	2.46	118	40.0	1920	1429.1	8.97	9.14	611	0	30.8	43.1	514	89670	158	14.5	239	510	.19	1.35	1.34	1.56	9.17	8.70
876	1849	1451.2	35.5	2.45	2.45	118	41.7	1920	1429.2	8.97	9.14	611	0	30.8	43.1	514	89738	159	14.5	199	510	.19	1.22	1.21	1.56	9.17	8.70
877	1850	1451.5	20.1	2.61	2.61	118	38.7	1920	1429.4	8.97	9.14	611	0	30.8	43.1	515	89821	159	14.5	205	509	.19	1.36	1.34	1.56	9.17	8.70
878	1850	1451.8	190	2.36	1.03	118	38.3	1920	1429.4	8.97	9.14	611	0	30.8	43.1	515	89830	159	14.5	32	508	.19	.70	.69	1.56	9.17	8.70
879	1850	1452.1	57.2	2.10	2.10	118	38.2	1930	1429.4	8.97	9.14	612	0	30.8	43.1	511	89862	160	14.5	69	507	.19	1.05	1.04	1.56	9.17	8.70
880	1850	1452.4	45.8	2.74	2.74	118	38.5	1930	1429.5	8.97	9.14	612	0	30.8	43.1	514	89907	160	14.5	103	507	.19	1.11	1.10	1.56	9.18	8.70
881	1851	1452.7	60.8	2.31	2.31	118	41.1	1940	1429.6	8.97	9.14	613	0	30.8	43.1	513	89944	160	14.5	97	506	.19	1.05	1.04	1.56	9.18	8.70
882	1859	1453.3	21.5	1.87	1.87	113	30.0	1950	1430.2	8.99	9.06	616	0	30.4	43.3	520	90048	161	14.5	200	505	.19	1.23	1.22	1.56	9.18	8.70
883	1900	1453.7	26.4	2.47	2.47	114	41.2	1950	1430.3	8.98	9.11	616	0	30.9	43.4	518	90136	161	14.5	223	504	.19	1.29	1.28	1.56	9.18	8.70
884	1900	1454.0	26.3	2.20	2.20	121	40.8	1950	1430.4	8.98	9.11	617	0	30.9	43.4	516	90214	161	14.5	144	503	.19	1.30	1.29	1.56	9.18	8.70
885	1902	1454.2	11.4	2.19	2.19	121	42.2	1950	1430.7	9.01	9.10	618	0	30.3	43.9	511	90386	162	14.6	421	503	.19	1.57	1.56	1.56	9.17	8.70
886	1903	1454.5	20.2	2.65	2.65	119	41.5	1950	1431.1	9.01	9.10	618	0	30.3	43.9	512	90481	162	14.6	208	503	.19	1.39	1.37	1.56	9.17	8.70
887	1903	1454.8	32.9	2.34	2.34	120	39.6	1950	1431.4	9.01	9.10	618	0	30.3	43.9	508	90547	162	14.6	154	502	.19	1.23	1.21	1.56	9.17	8.70
888	1904	1455.1	22.7	2.45	2.45	120	38.6	1950	1431.8	9.01	9.10	618	0	30.3	43.9	506	90643	163	14.6	250	502	.19	1.32	1.31	1.56	9.17	8.70
889	1905	1455.4	18.3	2.56	2.56	120	39.5	1950	1432.2	9.07	9.09	619	0	30.0	43.4	507	90767	163	14.6	279	501	.19	1.40	1.38	1.56	9.17	8.70
890	1905	1455.7	32.7	2.32	2.29	119	39.9	1950	1432.4	9.07	9.09	618	0	30.0	43.4	505	90825	163	14.6	142	501	.19	1.23	1.22	1.56	9.17	8.70
891	1906	1456.0	15.6	2.46	2.46	120	39.4	1960	1432.8	9.07	9.09	617	0	30.0	43.4	506	90955	163	14.7	245	500	.19	1.44	1.43	1.56	9.17	8.70
892	1908	1456.4	16.5	2.32	2.32	120	41.1	1950	1433.3	9.11	9.13	618	0	29.8	42.8	518	91094	164	14.7	380	500	.19	1.44	1.43	1.56	9.17	8.70
893	1908	1456.7	29.7	2.31	2.31	119	40.9	1950	1433.6	9.11	9.13	617	0	29.8	42.8	523	91172	164	14.7	173	499	.19	1.27	1.25	1.56	9.17	8.70
894	1909	1457.0	22.8	2.40	2.40	119	40.9	1950	1433.9	9.11	9.13	618	0	29.8	42.8	530	91245	164	14.7	266	498	.19	1.35	1.33	1.56	9.17	8.70
895	1910	1457.3	21.8	2.10	2.10	119	39.6	1950	1434.3	9.03	9.15	617	0	29.3	43.0	534	91359	165	14.7	307	498	.19	1.34	1.33	1.56	9.17	8.70
896	1911	1457.9	22.1	2.27	2.27	119	37.7	1950	1434.8	9.03	9.15	616	0	29.3	43.0	547	91527	165	14.7	314	497	.19	1.32	1.31	1.56	9.17	8.70
897	1912	1458.2	21.4	2.15	2.15	119	37.8	1960	1435.2	9.03	9.15	617	0	29.3	43.0	553	91642	166	14.7	168	497	.19	1.33	1.32	1.56	9.17	8.70
898	1914	1458.8	20.8	2.25	2.25	119	39.9	1970	1435.8	9.01	9.11	617	0	28.6	43.1	565	91823	166	14.8	332	495	.19	1.36	1.35	1.56	9.17	8.70
899	1914	1459.1	22.7	2.33	1.03	119	40.8	1970	1436.2	9.01	9.11	617	0	28.6	43.1	568	91907	167	14.8	249	495	.19	1.34	1.33	1.56	9.17	8.70
900	1916	1459.4	17.6	2.30	2.30	119	40.8	1970	1436.7	9.01	9.11	617	0	28.6	43.1	576	92044	167	14.8	328	495	.19	1.42	1.41	1.56	9.17	8.70
901	1916	1459.7	43.2	2.34	2.34	118	39.7	1960	1436.8	8.97	9.18	617	0	28.1	43.0	582	92092	167	14.8	127	494	.19	1.14	1.13	1.56	9.17	8.70
902	1917	1460.0	29.4	2.38	2.38	120	39.8	1970	1437.1	8.97	9.18	617	0	28.1	43.0	579	92167	167	14.8	183	494	.19	1.26	1.25	1.56	9.17	8.70
903	1917	1460.3	23.1	2.68	2.68	121	41.5	1970	1437.5	8.97	9.18	617	0	28.1	43.0	580	92245	168	14.8	170	493	.19	1.35	1.34	1.56	9.17	8.70
904	1918	1460.6	35.2	2.41	2.41	118	40.2	1970	1437.7	8.97	9.18	617	0	28.1	43.0	577	92306	168	14.8	127	492	.20	1.21	1.20	1.56	9.18	8.70
905	1918	1461.0	50.9	2.10	2.10	119	39.2	1970	1437.9	8.92	9.13	617	0	27.7	43.2	575	92364	168	14.9	153	492	.20	1.09	1.08	1.56	9.18	8.70
906	1919	1461.5	34.9	2.39	1.03	120	40.0	1960	1438.2	8.92	9.13	617	0	27.7	43.2	574	92451	169	14.9	163	490	.20	1.21	1.20	1.56	9.18	8.70
907	1920	1461.8	17.1	2.25	2.25	119	42.5	1950	1438.5	8.92	9.13	617	0	27.7	43.2	554	92574	169	14.9	309	490	.20	1.44	1.43	1.56	9.18	8.70
908	1923	1462.5	10.2	.05	1.03	118	43.4	1960	1438.9	8.95	9.13	617	0	27.6	43.4	547	92605	170	14.9	311	490	.20	1.62	1.60	1.56	9.12	8.70

AMOCO AUST. Tilana No.1 329125

Data Printed at time 15:49 Date Oct 9
Data Recorded at time 19:30 Date Sep 12 85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
909	1930	1463.0	11.9	2.12	2.11	105	39.3	2000	1439.3	8.95	9.07	620	0	27.5	42.9	541	92825	171	14.9	384	488	.20	1.48	1.47	1.56	9.20	8.70
910	1931	1463.4	13.8	2.02	2.02	104	39.0	1990	1439.4	8.95	9.07	620	0	27.5	42.9	539	92969	171	14.9	394	487	.20	1.43	1.42	1.56	9.20	8.70
911	1932	1463.7	32.9	2.14	2.14	104	37.4	1990	1439.4	8.95	9.07	620	0	27.5	42.9	535	93035	171	15.0	511	487	.20	1.16	1.15	1.56	9.20	8.70
912	1933	1464.0	12.6	2.29	2.29	104	36.5	2000	1439.5	8.96	9.02	620	0	27.4	42.9	536	93165	171	15.0	358	486	.20	1.42	1.42	1.56	9.21	8.70
913	1935	1464.3	14.0	2.22	2.22	116	36.7	2000	1439.5	8.96	9.02	621	0	27.4	42.9	536	93331	172	15.0	433	486	.20	1.42	1.41	1.56	9.21	8.70
914	1935	1464.6	60.7	2.17	2.17	121	34.4	2000	1439.5	8.96	9.02	621	0	27.4	42.9	533	93361	172	15.0	278	486	.20	1.00	.99	1.56	9.21	8.70
915	1936	1464.9	29.1	1.94	1.03	120	37.3	2000	1439.6	8.98	9.03	621	0	27.5	42.7	532	93433	172	15.0	123	485	.20	1.23	1.22	1.56	9.22	8.70
916	1936	1465.2	26.3	2.16	2.16	121	34.5	2000	1439.7	8.98	9.03	623	0	27.5	42.7	534	93513	173	15.0	178	484	.20	1.23	1.22	1.56	9.23	8.70
917	1937	1465.5	72.9	2.23	2.23	121	37.4	2000	1439.8	8.98	9.03	622	0	27.5	42.7	528	93539	173	15.0	214	484	.20	.97	.96	1.56	9.23	8.70
918	1938	1465.8	10.5	2.17	2.17	121	37.0	2010	1440.2	9.05	9.11	621	0	27.6	42.7	531	93714	173	15.1	342	483	.20	1.52	1.51	1.56	9.23	8.70
919	1939	1466.1	21.4	2.07	2.09	121	37.0	2000	1440.6	9.05	9.11	622	0	27.6	42.7	525	93822	173	15.1	383	483	.20	1.32	1.31	1.56	9.23	8.70
920	1941	1466.5	8.82	2.31	2.31	121	39.1	1980	1441.6	9.05	9.17	621	0	27.7	42.6	526	94106	174	15.1	568	483	.20	1.60	1.58	1.56	9.23	8.70
921	1942	1466.7	18.8	1.95	1.95	120	38.3	1970	1441.9	9.05	9.17	619	0	27.7	42.6	527	94205	174	15.1	391	483	.20	1.37	1.35	1.56	9.23	8.70
922	1943	1467.0	24.2	2.11	2.11	119	36.3	1970	1442.2	9.05	9.17	618	0	27.7	42.6	526	94299	174	15.1	278	483	.20	1.27	1.26	1.56	9.23	8.70
923	1943	1467.3	24.9	1.95	1.95	120	33.3	1980	1442.5	9.05	9.17	618	0	27.7	42.6	525	94375	175	15.1	161	482	.20	1.23	1.22	1.56	9.23	8.70
924	1944	1467.6	29.4	2.15	2.15	117	35.5	1030	1442.7	9.05	9.17	587	0	27.7	42.6	525	94443	175	15.2	159	481	.20	1.20	1.19	1.56	9.23	8.70
925	1945	1467.9	13.7	1.99	1.99	117	34.8	1940	1443.1	8.99	9.16	551	0	27.8	42.7	525	94590	175	15.2	408	481	.20	1.41	1.40	1.56	9.22	8.70
926	1946	1468.2	19.6	2.22	2.22	122	32.4	2030	1443.7	8.99	9.16	610	0	27.8	42.7	525	94704	176	15.2	223	481	.20	1.29	1.28	1.56	9.23	8.70
927	1948	1468.5	9.35	2.49	2.49	115	35.9	1960	1444.8	8.99	9.16	540	0	27.8	42.7	524	94932	176	15.2	379	481	.20	1.52	1.51	1.56	9.22	8.70
928	1949	1468.9	19.0	2.20	2.20	119	38.5	1950	1445.2	8.98	9.19	550	0	27.9	42.6	525	95052	176	15.2	309	481	.20	1.37	1.35	1.56	9.22	8.70
929	1952	1469.2	8.22	2.08	2.08	117	39.2	1900	1446.1	8.99	9.20	540	0	27.9	42.9	522	95329	177	15.3	444	481	.20	1.61	1.60	1.56	9.22	8.70
930	1953	1469.5	10.2	2.35	2.27	118	38.9	1910	1446.9	8.99	9.20	606	0	27.9	42.9	520	95512	177	15.3	386	481	.20	1.55	1.54	1.56	9.22	8.70
931	1954	1469.7	10.1	2.27	2.27	119	40.2	1920	1447.5	8.99	9.20	609	0	27.9	42.9	521	95647	177	15.3	333	480	.20	1.56	1.55	1.56	9.22	8.70
932	1955	1470.1	32.1	2.31	2.31	118	38.0	1910	1447.8	8.99	9.24	609	0	27.8	42.5	517	95714	178	15.3	160	480	.21	1.21	1.20	1.56	9.22	8.70
933	1955	1470.4	27.6	2.17	2.17	118	34.7	1920	1448.2	8.99	9.24	609	0	27.8	42.5	518	95793	178	15.3	183	479	.21	1.22	1.21	1.56	9.21	8.70
934	1956	1470.7	27.2	2.65	2.65	118	37.4	1930	1448.5	8.99	9.24	608	0	27.8	42.5	517	95869	178	15.4	180	479	.21	1.25	1.24	1.56	9.21	8.70
935	1956	1471.0	43.7	2.24	2.24	119	38.3	1940	1448.7	8.99	9.24	609	0	27.8	42.5	516	95919	178	15.4	115	478	.21	1.12	1.11	1.56	9.21	8.70
936	1958	1471.3	10.8	2.50	2.50	121	38.3	1940	1449.0	8.99	9.22	612	0	27.9	42.3	516	96112	179	15.4	553	478	.21	1.53	1.52	1.56	9.21	8.70
937	2006	1472.2	46.1	1.77	1.77	115	12.7	1900	1450.6	8.98	9.17	602	0	28.0	43.0	531	96253	180	15.4	173	476	.21	.82	.81	1.56	9.21	8.70
938	2007	1472.5	22.8	2.15	2.21	104	35.2	1910	1450.8	8.98	9.17	605	0	28.0	43.0	529	96330	180	15.4	205	476	.21	1.24	1.23	1.56	9.21	8.70
939	2008	1472.8	20.4	2.40	2.40	117	41.1	1900	1451.0	8.98	9.17	605	0	28.0	43.0	521	96434	180	15.4	242	475	.21	1.37	1.36	1.56	9.21	8.70
940	2009	1473.1	20.4	2.13	2.13	117	40.6	1900	1451.4	8.99	9.20	605	0	28.0	43.1	521	96556	180	15.5	371	475	.21	1.36	1.35	1.56	9.21	8.70
941	2012	1473.5	7.06	2.22	2.22	115	40.8	1900	1452.6	8.99	9.14	606	0	27.8	42.9	514	96925	181	15.5	1276	476	.21	1.67	1.66	1.56	9.21	8.70
942	2014	1473.8	10.4	2.03	2.03	117	40.5	1890	1453.1	8.99	9.14	606	0	27.8	42.9	516	97117	181	15.5	349	476	.21	1.56	1.55	1.56	9.21	8.70
943	2016	1474.0	8.08	2.18	2.18	116	39.7	1890	1453.8	9.00	9.12	606	0	27.8	42.9	509	97341	181	15.6	579	476	.21	1.62	1.61	1.56	9.21	8.70
944	2016	1474.3	22.8	2.35	2.35	116	38.5	1900	1454.1	9.01	9.19	606	0	27.8	42.8	507	97430	182	15.6	222	475	.21	1.31	1.30	1.56	9.21	8.70
945	2020	1474.6	6.45	2.18	2.18	116	38.4	1900	1455.4	9.04	9.16	605	0	27.8	42.6	512	97795	182	15.6	851	476	.21	1.67	1.66	1.56	9.20	8.70
946	2022	1474.9	9.10	2.13	2.13	117	40.7	1890	1456.1	9.04	9.16	606	0	27.8	42.6	511	98033	182	15.7	629	476	.21	1.60	1.59	1.56	9.19	8.70
947	2023	1475.3	17.6	1.99	1.99	117	39.9	1890	1456.8	9.11	9.24	606	0	27.8	42.6	508	98150	183	15.7	292	476	.21	1.40	1.39	1.56	9.19	8.70
948	2023	1475.5	52.1	2.22	2.21	117	38.9	1900	1456.9	9.11	9.24	607	0	27.8	42.6	507	98185	183	15.7	101	475	.21	1.08	1.06	1.56	9.19	8.70
949	2024	1475.9	13.1	2.22	2.22	117	38.1	1900	1457.9	9.14	9.19	606	0	27.9	42.2	506	98362	183	15.7	569	475	.21	1.47	1.45	1.56	9.19	8.70
950	2026	1476.2	9.12	2.15	2.15	116	42.0	1890	1458.4	9.14	9.19	606	0	27.9	42.2	506	98563	184	15.7	529	475	.21	1.62	1.61	1.56	9.19	8.70
951	2029	1476.5	7.06	2.06	2.06	116	40.3	1870	1458.6	9.08	9.22	603	0	27.9	42.5	502	98851	184	15.8	701	476	.21	1.67	1.66	1.57	9.19	8.70
952	2030	1476.8	8.35	2.11	2.31	116	41.3	1870	1458.7	9.07	9.22	603	0	27.9	42.9	501	99054	184	15.8	565	476	.22	1.63	1.62	1.57	9.19	8.70
953	2032	1477.1	10.7	2.07	2.07	115	41.0	1870	1459.0	9.09	9.26	603	-0	28.0	42.9	500	99274	184	15.8	604	476	.22	1.56	1.55	1.57	9.19	8.70
954	2033	1477.4	20.9	2.25	2.25	116	40.5	1860	1459.3	9.09	9.26	603	-0	28.0	42.9	500	99380	185	15.9	346	475	.22	1.35	1.34	1.57	9.19	8.70
955	2034	1477.7	13.2	2.17	7896	116	40.0	1870	1459.7	9.09	9.26	602	-0	28.0	42.9	500	99515	185	15.9	324	475	.22	1.48	1.47	1.57	9.19	8.70
956	2036	1478.0	11.3	2.25	2.25	116	40.8	1860	1460.0	9.08	9.22	603	-0	28.0	42.8	498	99693	185	15.9	462	475	.22	1.54	1.53	1.57	9.19	8.70
957	2038	1478.3	11.7	2.18	2.18	117	40.5	1870	1460.3	9.07	9.25	603	-0	28.1	42.8	497	99885	186	15.9	408	475	.22	1.53	1.52	1.57	9.19	8.70
958	2039	1478.6	10.7	2.08	2.08	117	41.4	1870	1461.3	9.07	9.25	603	-0	28.1	42.8	502	100112	186	16.0	437	475	.22	1.56	1.55	1.56	9.18	8.70

AMOCO AUST. Tilana No.1 329126

Data Printed at time 15:53 Date Oct 9 '85
Data Recorded at time 20:41 Date Sep 12 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
959	2041	1478.9	14.3	2.27	2.27	115	40.4	1870	1461.8	9.08	9.20	603	-0	28.2	42.7	504	100254	186	16.0	350	475	.22	1.47	1.45	1.56	9.17	8.70
960	2042	1479.2	12.2	2.18	2.18	115	39.9	1870	1462.1	9.08	9.20	603	-0	28.2	42.7	506	100387	187	16.0	409	475	.22	1.51	1.50	1.56	9.17	8.70
961	2043	1479.5	12.0	2.05	2.05	117	41.6	1870	1462.5	9.08	9.20	603	-0	28.2	42.7	503	100572	187	16.0	405	474	.22	1.54	1.52	1.56	9.17	8.70
962	2047	1479.8	5.07	2.19	2.19	117	40.8	1870	1463.5	9.09	9.22	603	-0	28.0	42.4	506	100935	187	16.1	1005	475	.22	1.78	1.77	1.56	9.17	8.70
963	2049	1480.1	6.04	2.14	1.03	117	42.5	1860	1464.1	9.09	9.22	603	-0	28.0	42.4	506	101171	188	16.1	656	475	.22	1.75	1.74	1.57	9.17	8.70
964	2050	1480.4	10.5	2.08	2.08	117	40.6	1880	1464.6	9.07	9.20	603	-0	28.0	42.5	507	101383	188	16.1	850	476	.22	1.56	1.55	1.56	9.17	8.70
965	2053	1480.7	6.03	2.14	2.14	115	41.6	1870	1465.2	9.05	9.19	604	-0	28.1	42.6	507	101723	188	16.2	777	476	.22	1.74	1.72	1.57	9.18	8.70
966	2055	1481.0	8.51	2.34	2.34	115	40.6	1880	1465.6	9.08	9.16	604	-0	28.0	43.0	506	101967	188	16.2	582	476	.22	1.62	1.61	1.57	9.18	8.70
967	2108	1481.4	29.1	1.91	1.91	116	35.6	2420	1467.7	9.11	9.13	634	-0	27.9	42.8	520	102107	189	16.3	328	476	.23	1.21	1.20	1.57	9.18	8.70
968	2109	1481.6	12.4	2.42	1.03	114	45.4	2450	1467.8	9.13	9.17	677	-0	27.8	42.0	510	102231	189	16.3	373	476	.23	1.56	1.55	1.57	9.19	8.70
969	2110	1481.9	15.7	2.35	2.35	117	43.1	2300	1468.2	9.13	9.17	676	-0	27.8	42.0	503	102367	189	16.3	208	476	.23	1.47	1.46	1.57	9.19	8.70
970	2113	1482.2	6.89	2.24	2.24	118	40.9	2200	1469.0	9.16	9.24	659	-0	27.9	42.7	495	102676	190	16.3	373	476	.23	1.69	1.68	1.57	9.19	8.70
971	2115	1482.5	8.79	2.27	1.03	118	40.9	2210	1469.3	9.14	9.25	650	-0	28.0	42.8	491	102920	190	16.4	475	476	.23	1.62	1.61	1.57	9.19	8.70
972	2115	1482.9	32.3	2.31	2.31	118	43.3	2210	1469.4	9.14	9.25	650	-0	28.0	42.8	490	102986	190	16.4	237	476	.23	1.26	1.25	1.57	9.19	8.70
973	2118	1483.2	7.04	2.31	2.31	117	42.8	2230	1470.0	9.16	9.24	650	-0	28.0	42.5	487	103347	191	16.4	715	476	.23	1.71	1.69	1.57	9.20	8.70
974	2121	1483.5	6.36	2.20	2.20	117	43.6	2210	1470.4	9.13	9.20	651	-0	28.1	42.7	486	103637	191	16.5	679	476	.23	1.75	1.73	1.57	9.20	8.70
975	2122	1483.8	12.0	2.19	2.19	117	45.0	2210	1470.6	9.13	9.20	648	-0	28.1	42.7	483	103842	191	16.5	494	476	.23	1.57	1.56	1.57	9.20	8.70
976	2126	1484.4	7.82	2.32	2.58	120	43.9	2200	1471.6	9.13	9.24	649	-0	28.3	43.1	481	104308	192	16.6	434	476	.23	1.69	1.68	1.57	9.21	8.70
977	2127	1484.7	15.6	2.41	2.41	121	41.7	2200	1471.8	9.13	9.24	649	-0	28.3	43.1	482	104442	192	16.6	322	476	.23	1.46	1.45	1.57	9.21	8.70
978	2128	1485.0	17.9	2.33	2.33	121	41.0	2200	1472.0	9.13	9.24	649	0	28.3	43.1	480	104561	192	16.6	286	476	.23	1.41	1.40	1.57	9.21	8.70
979	2129	1485.3	32.3	2.37	2.37	121	42.0	2220	1472.1	9.13	9.22	649	0	28.3	42.9	480	104638	193	16.6	221	476	.23	1.25	1.24	1.57	9.21	8.70
980	2130	1485.6	15.1	2.28	2.28	120	44.3	2210	1472.2	9.13	9.22	650	0	28.3	42.9	480	104760	193	16.6	285	475	.23	1.50	1.49	1.57	9.21	8.70
981	2131	1485.9	14.2	2.71	2.71	120	45.6	2210	1472.4	9.16	9.24	650	0	28.3	42.8	478	104915	193	16.6	345	475	.23	1.53	1.52	1.57	9.22	8.70
982	2134	1486.2	7.26	2.38	2.38	121	45.1	2200	1473.0	9.14	9.25	649	-0	28.3	42.6	475	105252	194	16.7	1262	475	.24	1.73	1.72	1.58	9.22	8.70
983	2135	1486.5	39.2	2.41	1.03	119	43.3	2200	1473.1	9.14	9.25	649	-0	28.3	42.6	474	105302	194	16.7	137	475	.24	1.20	1.19	1.57	9.22	8.70
984	2136	1486.8	18.3	2.67	2.67	120	45.2	2210	1473.4	9.14	9.25	648	-0	28.3	42.6	473	105420	194	16.7	265	475	.24	1.45	1.43	1.57	9.23	8.70
985	2136	1487.2	28.3	2.32	2.32	120	42.1	2200	1473.6	9.14	9.25	648	-0	28.3	42.6	472	105508	195	16.7	166	474	.24	1.29	1.27	1.57	9.23	8.70
986	2137	1487.4	13.7	2.37	2.37	121	41.5	2200	1473.8	9.16	9.23	648	-0	28.3	42.7	473	105617	195	16.7	263	474	.24	1.50	1.48	1.57	9.23	8.70
987	2138	1487.8	17.9	2.32	2.32	121	44.4	2200	1474.0	9.16	9.23	648	-0	28.3	42.7	471	105745	195	16.8	409	474	.24	1.45	1.43	1.57	9.23	8.70
988	2141	1488.0	6.51	2.32	2.32	120	45.3	2200	1474.5	9.14	9.24	648	-0	28.3	42.8	469	106048	195	16.8	416	474	.24	1.76	1.74	1.57	9.24	8.70
989	2142	1488.3	13.2	2.41	2.41	119	43.4	2200	1474.8	9.13	9.24	647	-0	28.3	42.9	471	106216	196	16.8	446	474	.24	1.52	1.51	1.57	9.25	8.70
990	2143	1488.6	17.2	2.31	2.31	120	41.2	2200	1475.0	9.13	9.24	648	-0	28.3	42.9	475	106328	196	16.8	287	473	.24	1.42	1.41	1.57	9.25	8.70
991	2145	1489.0	10.6	2.28	1.03	120	44.2	2200	1475.4	9.16	9.25	647	-0	28.3	42.9	475	106561	196	16.9	560	473	.24	1.60	1.58	1.57	9.25	8.70
992	2146	1489.3	27.4	2.49	1.03	120	42.3	2200	1475.5	9.16	9.25	647	-0	28.3	42.9	476	106645	197	16.9	472	473	.24	1.30	1.28	1.57	9.25	8.70
993	2147	1489.6	9.58	2.48	2.52	120	42.3	2190	1475.7	9.15	9.21	645	-0	28.3	42.9	478	106822	197	16.9	539	473	.24	1.60	1.59	1.57	9.26	8.70
994	2148	1489.9	14.0	2.32	2.32	121	44.3	2180	1475.8	9.15	9.21	645	-0	28.3	42.9	477	106972	197	16.9	341	473	.24	1.51	1.50	1.57	9.26	8.70
995	2150	1490.2	11.2	2.64	2.59	119	45.8	2190	1476.1	9.14	9.24	645	-0	28.3	43.0	478	107145	198	17.0	382	473	.24	1.59	1.58	1.57	9.27	8.70
996	2205	1490.6	6.69	2.65	2.65	118	41.9	2120	1477.2	9.15	9.23	639	-0	27.8	43.6	481	107695	198	17.0	2090	474	.24	1.70	1.69	1.58	9.27	8.70
997	2207	1491.4	11.5	2.32	2.32	120	41.4	2140	1477.4	9.15	9.24	639	-0	27.9	43.5	478	107993	199	17.1	358	473	.25	1.54	1.52	1.58	9.27	8.70
998	2208	1491.8	60.9	1.75	2.23	120	41.2	2120	1477.5	9.15	9.24	639	-0	27.9	43.5	478	108042	199	17.1	375	473	.25	1.05	1.03	1.58	9.27	8.70
999	2208	1492.4	118	2.11	2.11	121	37.2	2140	1477.6	9.15	9.24	639	-0	27.9	43.5	477	108079	200	17.1	84	472	.25	.83	.82	1.58	9.28	8.70
1000	2209	1492.7	21.5	2.46	2.46	119	42.8	2140	1477.7	9.16	9.28	639	-0	28.1	42.9	477	108191	200	17.1	225	471	.25	1.36	1.35	1.58	9.28	8.70
1001	2210	1493.0	18.4	2.56	2.56	118	43.9	2140	1477.9	9.16	9.28	639	-0	28.1	42.9	478	108328	200	17.1	2504	471	.25	1.42	1.41	1.58	9.28	8.70
1002	2211	1493.3	25.7	2.53	2.53	121	43.6	2130	1478.0	9.12	9.27	639	-0	28.0	42.9	477	108445	201	17.1	186	470	.25	1.32	1.31	1.57	9.29	8.70
1003	2212	1493.8	31.3	2.39	2.39	120	40.6	2140	1478.1	9.12	9.27	638	-0	28.0	42.9	478	108533	201	17.2	176	469	.25	1.23	1.22	1.58	9.29	8.70
1004	2212	1494.2	103	2.14	2.14	121	43.8	2150	1478.1	9.12	9.27	639	-0	28.0	42.9	477	108557	202	17.2	53	469	.25	.91	.90	1.58	9.29	8.70
1005	2212	1494.5	41.5	2.27	2.27	121	41.3	2140	1478.2	9.12	9.27	639	-0	28.0	42.9	478	108613	202	17.2	121	468	.25	1.16	1.15	1.58	9.30	8.70
1006	2213	1495.1	43.7	2.34	2.34	119	42.9	2140	1478.3	9.12	9.27	639	-0	28.0	42.9	480	108695	202	17.2	138	467	.25	1.15	1.14	1.58	9.30	8.70
1007	2216	1495.7	8.86	2.64	2.64	120	43.1	2140	1478.9	9.13	9.25	639	-0	28.1	42.9	478	109082	203	17.2	287	467	.25	1.63	1.61	1.58	9.30	8.70
1008	2216	1496.0	112	2.47	2.47	118	43.7	2140	1478.9	9.13	9.25	639	-0	28.1	42.9	477	109102	203	17.2	177	467	.25	.88	.86	1.58	9.30	8.70

AMOCO AUST. Tilana No.1 329127

Data Printed at time 15:57 Date Oct 9 85
Data Recorded at time 22:17 Date Sep 12 85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DKC	NX	NXB	ECD	EST FM PR
1009	2217	1496.3	25.9	2.39	2.39	118	41.6	2140	1479.0	9.11	9.27	639	-0	28.0	42.6	479	109177	204	17.2	170	466	.25	1.29	1.28	1.58	9.31	8.70
1010	2217	1496.7	55.0	2.38	2.38	119	43.2	2140	1479.1	9.11	9.27	639	-0	28.0	42.6	475	109223	204	17.2	84	465	.25	1.09	1.07	1.58	9.31	8.70
4	2228	1497.2	42.2	2.34	2.34	117	44.1	2190	1480.0	9.16	9.22	644	0	27.8	43.1	491	109385	205	17.3	161	465	.25	1.17	1.15	1.58	9.32	8.70
5	2228	1497.5	23.3	2.42	2.55	113	42.1	2190	1480.1	9.16	9.22	646	-0	27.8	43.1	489	109476	205	17.3	188	464	.25	1.31	1.30	1.58	9.32	8.70
6	2229	1497.9	56.5	2.14	2.14	113	38.4	2190	1480.1	9.18	9.25	646	-0	28.1	43.2	484	109517	205	17.3	110	463	.25	1.02	1.01	1.58	9.32	8.70
7	2230	1498.4	28.9	2.28	2.28	112	43.2	2190	1480.4	9.18	9.25	646	-0	28.1	43.2	480	109633	206	17.3	144	462	.25	1.26	1.25	1.58	9.33	8.70
8	2230	1498.7	31.1	2.12	2.12	115	41.0	2200	1480.5	9.18	9.25	646	-0	28.1	43.2	481	109700	206	17.3	171	462	.25	1.22	1.21	1.58	9.33	8.70
9	2231	1499.0	47.1	2.48	2.48	118	42.1	2200	1480.6	9.18	9.25	646	-0	28.1	43.2	478	109738	206	17.3	113	462	.25	1.12	1.11	1.58	9.33	8.70
10	2231	1499.3	23.0	2.61	2.61	119	40.6	2200	1480.8	9.18	9.24	647	-0	28.2	43.7	478	109829	207	17.3	193	461	.25	1.31	1.30	1.58	9.33	8.70
11	2232	1499.6	32.9	2.13	2.36	118	36.7	2280	1481.0	9.18	9.24	650	-0	28.2	43.7	477	109896	207	17.3	166	461	.25	1.17	1.16	1.58	9.33	8.70
12	2232	1500.0	68.4	2.31	2.31	119	33.9	2280	1481.1	9.18	9.24	653	-0	28.2	43.7	477	109934	207	17.3	82	460	.25	.95	.94	1.58	9.33	8.70
13	2232	1500.3	123	2.40	2.40	121	35.5	2270	1481.2	9.18	9.24	654	-0	28.2	43.7	477	109950	208	17.4	62	460	.25	.80	.79	1.58	9.33	8.70
14	2233	1500.8	37.6	2.45	2.45	120	42.5	2280	1481.4	9.18	9.24	656	-0	28.2	43.7	476	110039	208	17.4	133	458	.25	1.19	1.18	1.58	9.34	8.70
15	2234	1501.2	31.5	2.24	2.32	119	44.7	2270	1481.7	9.19	9.26	657	-0	28.4	43.2	476	110119	209	17.4	184	458	.25	1.26	1.25	1.58	9.34	8.70
16	2235	1501.5	11.3	2.65	2.65	118	44.7	2270	1481.9	9.19	9.26	657	-0	28.4	43.2	474	110285	209	17.4	571	458	.25	1.56	1.55	1.58	9.34	8.70
17	2236	1502.1	35.1	2.60	2.60	119	42.5	2260	1482.0	9.19	9.26	656	-0	28.4	43.2	474	110386	209	17.4	112	457	.25	1.21	1.19	1.58	9.34	8.70
18	2236	1502.4	53.4	2.17	2.17	118	40.8	2260	1482.1	9.19	9.26	655	-0	28.4	43.2	475	110428	210	17.4	101	456	.25	1.07	1.06	1.58	9.35	8.70
19	2237	1502.7	21.2	2.31	2.31	119	42.2	2270	1482.3	9.19	9.27	656	-0	28.3	43.3	475	110511	210	17.4	211	456	.25	1.35	1.34	1.58	9.35	8.70
20	2238	1503.0	32.8	2.37	2.37	118	42.0	2260	1482.5	9.19	9.27	655	-0	28.3	43.3	475	110582	210	17.4	153	456	.25	1.22	1.21	1.58	9.35	8.70
21	2239	1503.3	18.3	2.47	2.47	119	47.3	2250	1482.8	9.19	9.27	654	-0	28.3	43.3	473	110707	211	17.5	315	455	.26	1.45	1.43	1.58	9.35	8.70
22	2239	1503.6	41.4	2.31	2.31	118	45.3	2260	1482.9	9.19	9.27	654	-0	28.3	43.3	474	110756	211	17.5	150	455	.26	1.18	1.17	1.58	9.35	8.70
23	2240	1503.9	25.2	2.62	2.62	118	44.5	2260	1483.2	9.18	9.26	653	-0	28.6	43.0	474	110847	211	17.5	216	455	.26	1.32	1.31	1.58	9.35	8.70
24	2240	1504.2	48.6	2.34	2.42	121	43.2	2270	1483.3	9.18	9.26	654	-0	28.6	43.0	470	110883	212	17.5	87	454	.26	1.12	1.11	1.58	9.35	8.70
25	2241	1504.5	45.9	2.55	2.55	120	40.6	2250	1483.4	9.18	9.26	655	-0	28.6	43.0	472	110928	212	17.5	103	453	.26	1.12	1.10	1.58	9.35	8.70
26	2241	1504.8	104	2.44	2.44	118	42.4	2250	1483.4	9.18	9.26	655	-0	28.6	43.0	472	110950	212	17.5	52	453	.26	.89	.87	1.58	9.35	8.70
27	2242	1505.1	21.8	2.53	2.53	120	43.9	2270	1483.7	9.18	9.26	656	-0	28.6	43.0	472	111055	213	17.5	234	453	.26	1.36	1.35	1.58	9.36	8.70
28	2242	1505.4	29.2	2.25	2.25	118	43.1	2280	1483.8	9.18	9.28	656	-0	28.6	43.1	473	111120	213	17.5	152	452	.26	1.26	1.25	1.58	9.36	8.70
29	2242	1505.8	89.2	2.21	2.24	118	42.4	2270	1483.8	9.18	9.28	656	-0	28.6	43.1	471	111146	213	17.5	49	452	.26	.93	.92	1.58	9.36	8.70
30	2306	1509.1	38.5	1.03	1.03	118	34.1	2270	1485.8	9.18	9.30	656	0	28.7	44.0	548	111181	217	17.5	93	451	.26	1.11	1.10	1.59	9.28	8.70
31	2329	1510.7	147	2.35	1.03	121	15.5	2180	1486.1	9.18	9.30	628	0	28.7	44.0	486	111227	218	17.5	66	442	.26	.60	.59	1.59	9.37	8.70
32	2329	1511.2	93.8	2.64	2.64	124	41.2	2190	1486.2	9.18	9.30	635	0	28.7	44.0	481	111266	219	17.5	43	441	.26	.92	.91	1.59	9.38	8.70
+ Run survey																											
34	2330	1511.8	31.6	2.48	2.48	122	39.9	2180	1486.4	9.18	9.30	641	0	28.7	44.0	468	111378	219	17.6	194	440	.26	1.22	1.20	1.59	9.38	8.70
35	2330	1512.1	120	2.38	2.38	121	35.8	2190	1486.4	9.17	9.27	641	0	27.9	40.6	467	111396	220	17.6	35	439	.26	.81	.79	1.59	9.38	8.70
36	2331	1512.5	26.3	2.33	2.33	121	37.3	2180	1486.4	9.17	9.27	642	-0	27.9	40.6	471	111494	220	17.6	64	439	.26	1.24	1.23	1.59	9.39	8.70
37	2331	1512.7	76.8	2.26	2.26	121	36.4	2180	1486.4	9.17	9.27	642	-0	27.9	40.6	470	111518	220	17.6	107	439	.26	.93	.92	1.59	9.39	8.70
38	2331	1513.1	72.9	1.92	1.92	121	33.6	2170	1486.4	9.17	9.27	642	-0	27.9	40.6	470	111544	220	17.6	59	438	.26	.93	.91	1.59	9.39	8.70
39	2332	1513.4	82.4	2.28	2.28	121	33.8	2180	1486.4	9.17	9.27	642	-0	27.9	40.6	469	111562	221	17.6	50	438	.26	.89	.88	1.59	9.39	8.70
40	2332	1513.6	26.8	2.13	1.03	121	38.2	2180	1486.4	9.17	9.27	642	-0	27.9	40.6	470	111635	221	17.6	155	437	.26	1.24	1.23	1.59	9.39	8.70
41	2333	1514.2	29.6	2.20	2.20	121	36.4	2160	1486.4	9.15	9.29	640	-0	28.3	40.9	469	111748	222	17.6	126	436	.26	1.20	1.18	1.59	9.40	8.70
42	2334	1514.6	35.0	2.20	2.20	122	35.5	2150	1486.4	9.15	9.29	639	-0	28.3	40.9	467	111815	222	17.6	171	436	.26	1.14	1.13	1.59	9.40	8.70
43	2335	1515.2	30.4	2.28	2.28	120	36.8	2140	1486.4	9.15	9.29	637	-0	28.3	40.9	469	111934	223	17.6	158	435	.26	1.19	1.18	1.59	9.41	8.70
44	2335	1515.5	39.5	2.07	2.07	119	37.4	2140	1486.4	9.15	9.29	638	-0	28.3	40.9	467	111981	223	17.6	159	435	.26	1.12	1.11	1.59	9.41	8.70
45	2336	1516.1	36.6	2.22	2.22	121	35.5	2140	1486.4	9.15	9.29	638	-0	28.6	41.9	466	112074	224	17.6	147	434	.26	1.13	1.11	1.59	9.41	8.70
46	2336	1516.5	67.7	2.03	2.03	121	33.3	2140	1486.4	9.15	9.29	638	-0	28.6	41.9	468	112102	224	17.7	117	433	.26	.94	.93	1.59	9.42	8.70
47	2337	1517.1	47.6	2.25	2.25	120	32.3	2140	1486.4	9.15	9.29	636	-0	28.6	41.9	468	112187	224	17.7	104	432	.26	1.03	1.01	1.60	9.42	8.70
48	2338	1517.6	32.9	2.29	2.29	120	39.0	2100	1486.4	9.15	9.29	633	-0	28.6	41.9	468	112284	225	17.7	175	431	.26	1.19	1.17	1.60	9.43	8.70
49	2345	1518.0	29.0	1.65	1.65	118	33.0	2130	1487.7	9.16	9.32	625	-0	28.6	42.3	481	112378	225	17.7	278	431	.26	1.16	1.15	1.60	9.42	8.70
50	2345	1518.2	51.1	2.12	2.12	104	25.5	2110	1487.9	9.16	9.32	628	-0	28.6	42.3	482	112409	226	17.7	91	431	.26	.91	.90	1.60	9.42	8.70
51	2346	1518.5	34.7	2.13	2.13	101	33.2	2120	1488.1	9.16	9.32	630	-0	28.6	42.3	479	112458	226	17.7	129	430	.26	1.07	1.06	1.60	9.42	8.

AMOCO AUST. Tilana No.1 329128 Data Printed at time 16:08 Date Oct 9 '85
Data Recorded at time 23:46 Date Sep 12 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
52	2346	1518.8	57.8	2.05	2.05	112	33.8	2130	1488.3	9.16	9.32	632	-0	28.6	42.3	477	112494	226	17.7	132	430	.26	.97	.96	1.60	9.42	8.70
53	2346	1519.1	71.4	2.28	2.28	117	31.8	2140	1488.4	9.16	9.32	632	-0	28.6	42.3	475	112521	227	17.7	65	429	.26	.90	.89	1.60	9.43	8.70
54	2347	1519.5	49.0	2.35	2.35	111	33.8	2130	1488.7	9.16	9.32	633	-0	28.6	42.3	476	112578	227	17.7	61	429	.26	1.01	1.00	1.60	9.43	8.70
55	2347	1520.1	88.0	2.16	2.16	110	32.3	2130	1488.9	9.18	9.37	633	-0	28.3	43.3	471	112616	227	17.7	64	428	.26	.84	.83	1.60	9.43	8.70
56	2348	1520.4	19.7	2.19	2.19	108	34.7	2130	1489.3	9.18	9.37	632	-0	28.3	43.3	469	112706	228	17.7	224	428	.26	1.26	1.25	1.60	9.43	8.70
57	2349	1520.6	20.3	2.22	2.22	108	34.7	2130	1489.7	9.18	9.37	633	-0	28.3	43.3	466	112798	228	17.8	236	427	.26	1.25	1.24	1.60	9.43	8.70
58	2349	1521.0	41.9	2.21	2.21	110	33.5	2110	1490.0	9.18	9.37	632	-0	28.3	43.3	466	112846	228	17.8	140	427	.26	1.04	1.03	1.60	9.43	8.70
59	2351	1521.3	12.1	2.34	2.34	109	33.8	2120	1490.9	9.20	9.37	631	-0	28.2	43.3	463	113004	229	17.8	420	427	.26	1.38	1.37	1.60	9.43	8.70
60	2351	1521.6	84.9	1.92	1.92	109	30.5	2120	1491.0	9.20	9.37	631	-0	28.2	43.3	461	113031	229	17.8	282	427	.26	.83	.82	1.60	9.43	8.70
61	2352	1521.9	32.0	2.14	2.14	110	30.1	2120	1491.3	9.20	9.37	631	-0	28.2	43.3	463	113080	229	17.8	130	426	.26	1.08	1.07	1.60	9.43	8.70
62	2352	1522.2	67.7	2.00	2.08	108	27.5	2120	1491.5	9.20	9.37	631	-0	28.2	43.3	462	113106	230	17.8	65	426	.26	.86	.85	1.60	9.43	8.70
63	2352	1522.8	51.0	2.08	2.08	109	31.3	2130	1491.9	9.20	9.37	631	-0	28.2	43.3	461	113166	230	17.8	132	425	.26	.97	.96	1.60	9.43	8.70
64	2356	1523.2	6.30	2.07	2.10	110	34.9	2140	1493.1	9.19	9.35	633	-0	28.3	43.2	459	113549	231	17.9	2667	425	.26	1.58	1.56	1.60	9.43	8.70
65	2358	1523.4	5.63	2.21	2.21	109	36.6	2130	1494.0	9.20	9.35	633	-0	28.3	42.7	459	113783	231	17.9	616	426	.26	1.63	1.62	1.60	9.42	8.70
	Date	Sep 13 '85																									
66	0000	1523.7	10.6	2.18	2.18	110	36.7	2130	1494.0	9.20	9.35	633	-0	28.3	42.7	458	113976	231	17.9	500	426	.26	1.45	1.44	1.60	9.42	8.70
67	0002	1524.0	9.11	2.21	2.21	109	39.3	2140	1494.2	9.18	9.35	634	-0	28.3	42.8	455	114204	231	18.0	604	426	.27	1.53	1.52	1.60	9.43	8.70
68	0004	1524.3	8.22	2.34	2.34	108	37.8	2130	1494.8	9.18	9.38	634	-0	28.4	42.7	454	114434	232	18.0	602	426	.27	1.53	1.52	1.60	9.43	8.70
69	0004	1524.7	58.6	2.02	2.02	108	34.7	2130	1495.1	9.18	9.38	634	-0	28.4	42.7	452	114479	232	18.0	142	426	.27	.96	.95	1.60	9.43	8.70
70	0008	1525.2	6.98	2.04	2.04	110	38.2	2130	1498.0	9.21	9.39	631	-0	28.4	43.0	454	114894	233	18.1	408	426	.27	1.59	1.58	1.60	9.41	8.70
71	0010	1525.6	8.45	2.08	2.08	109	38.6	2140	1499.1	9.19	9.41	633	-0	28.5	43.0	450	115143	233	18.1	641	426	.27	1.54	1.53	1.60	9.41	8.70
72	0012	1525.8	9.60	2.19	2.19	110	38.9	2140	1499.9	9.18	9.41	635	-0	28.5	43.2	451	115322	233	18.1	488	426	.27	1.51	1.50	1.60	9.41	8.70
73	0013	1526.1	15.4	2.07	2.07	109	38.1	2150	1500.6	9.18	9.41	634	-0	28.5	43.2	451	115457	234	18.2	386	426	.27	1.37	1.36	1.60	9.40	8.70
74	0015	1526.5	10.5	2.16	1.03	108	39.3	2150	1501.7	9.20	9.39	635	-0	28.6	43.4	448	115674	234	18.2	689	426	.27	1.49	1.48	1.60	9.40	8.70
75	0016	1526.8	26.1	2.05	2.04	109	38.8	2150	1502.0	9.20	9.39	635	-0	28.6	43.4	448	115739	234	18.2	264	426	.27	1.23	1.22	1.60	9.40	8.70
76	0018	1527.1	10.4	2.15	2.15	109	38.3	2150	1503.3	9.18	9.34	637	-0	28.6	43.3	451	115943	234	18.2	568	426	.27	1.48	1.47	1.60	9.39	8.70
77	0020	1528.3	4.20	2.01	2.01	108	37.5	2150	1504.5	9.20	9.29	631	-0	28.7	43.6	448	116036	236	18.2	300	426	.27	1.72	1.71	1.60	9.39	8.70
78	0027	1528.8	21.0	2.06	2.06	106	32.6	2150	1504.5	9.20	9.24	631	-0	28.6	43.4	463	116241	236	18.3	596	424	.27	1.21	1.21	1.60	9.40	8.70
79	0030	1529.2	7.90	2.03	2.03	110	35.9	2150	1504.7	9.22	9.35	633	-0	28.7	44.0	455	116467	237	18.3	1019	424	.27	1.53	1.52	1.60	9.41	8.70
80	0031	1529.5	9.05	2.35	2.35	111	38.1	2140	1505.0	9.22	9.35	632	-0	28.7	44.0	448	116668	237	18.3	526	424	.27	1.52	1.51	1.60	9.41	8.70
81	0033	1529.8	13.9	2.29	2.29	110	36.8	2130	1506.1	9.23	9.42	632	-0	28.7	43.9	444	116812	237	18.4	325	424	.27	1.39	1.37	1.60	9.40	8.70
82	0035	1530.1	9.92	2.28	2.28	112	38.1	2140	1508.1	9.23	9.42	632	-0	28.7	43.9	442	117036	238	18.4	440	424	.27	1.50	1.49	1.60	9.39	8.70
83	0037	1530.4	10.2	2.13	2.13	111	37.2	2140	1509.6	9.18	9.44	632	-0	28.7	43.3	441	117243	238	18.4	573	424	.27	1.48	1.47	1.60	9.39	8.70
84	0037	1531.0	10.1	2.28	2.24	111	36.9	2130	1509.8	9.18	9.44	632	-0	28.7	43.3	440	117289	238	18.4	506	424	.27	1.51	1.48	1.60	9.39	8.70
85	0038	1531.3	16.5	2.14	2.14	110	38.0	2140	1510.6	9.19	9.32	632	-0	28.8	43.6	438	117422	239	18.5	375	423	.27	1.35	1.34	1.60	9.39	8.70
86	0040	1531.7	8.91	2.21	2.21	111	38.2	2130	1512.2	9.21	9.03	632	-0	28.7	43.5	437	117680	239	18.5	3204	424	.28	1.53	1.52	1.60	9.38	8.70
87	0041	1531.9	14.7	2.20	2.20	110	39.0	2130	1513.0	9.21	9.03	631	-0	28.7	43.5	438	117788	239	18.5	576	423	.28	1.40	1.39	1.60	9.38	8.70
88	0042	1532.2	29.1	2.12	2.12	110	37.0	2150	1513.4	9.21	9.03	632	-0	28.7	43.5	438	117858	240	18.5	395	423	.28	1.19	1.17	1.60	9.37	8.70
89	0044	1532.6	7.31	2.17	2.17	111	38.3	2140	1514.3	9.18	9.06	633	-0	28.8	43.5	437	118124	240	18.6	512	423	.28	1.59	1.58	1.60	9.37	8.70
90	0046	1532.9	12.7	2.41	1.03	110	38.6	2140	1514.3	9.18	9.06	633	-0	28.8	43.5	436	118276	240	18.6	355	423	.28	1.43	1.42	1.60	9.37	8.70
91	0047	1533.1	17.7	2.24	2.24	110	39.3	2130	1514.8	9.17	9.09	633	-0	28.8	43.9	435	118384	241	18.6	356	423	.28	1.35	1.34	1.60	9.37	8.70
92	0048	1533.5	12.6	2.26	2.26	110	38.1	2150	1516.1	9.17	9.09	633	-0	28.8	43.9	434	118566	241	18.6	666	423	.28	1.43	1.42	1.59	9.36	8.70
93	0049	1533.8	23.4	2.21	2.21	109	38.1	2150	1516.6	9.17	9.09	633	-0	28.8	43.9	432	118632	241	18.6	421	423	.28	1.26	1.24	1.60	9.36	8.70
94	0051	1534.1	9.89	2.84	2.84	111	37.4	2780	1517.3	9.13	9.08	682	-0	28.7	43.7	430	118810	242	18.7	854	423	.28	1.50	1.48	1.60	9.36	8.70
95	0052	1534.4	15.5	2.18	2.18	106	37.6	2770	1517.9	9.04	9.14	716	-0	28.7	43.9	429	118935	242	18.7	298	423	.28	1.36	1.35	1.59	9.36	8.70
96	0053	1534.7	19.1	2.22	2.22	108	37.7	2780	1518.7	9.04	9.14	718	-0	28.7	43.9	431	119037	242	18.7	303	423	.28	1.31	1.30	1.59	9.36	8.70
97	0054	1535.0	11.4	2.17	2.17	106	36.9	2750	1519.8	9.08	9.08	715	-0	28.8	43.9	431	119213	242	18.7	538	422	.28	1.44	1.43	1.59	9.35	8.70
98	0056	1535.3	14.2	2.11	2.11	106	38.7	2750	1519.8	9.08	9.08	714	-0	28.8	43.9	426	119332	243	18.7	401	422	.28	1.40	1.39	1.59	9.35	8.70
99	0057	1535.6	10.5	2.16	2.14	107	37.8	2780	1520.0	9.06	9.11	716	-0	28.7	43.8	426	119526	243	18.8	643	423	.28	1.47	1.46	1.59	9.36	8.70
100	0100	1536.0	8.19	2.06	2.06	107	39.0	2780	1520.5	9.06	9.11	717	-0	28.7	43.8	426	119799	243	18.8	459	423	.28	1.56	1.55	1.59	9.36	8.70

AMOCO AUST. Tilana No.1

329129

Data Printed at time 16:12 Date Oct 9
Data Recorded at time 01:02 Date Sep 13 85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
101	0102	1536.2	6.73	2.12	2.12	107	38.1	2780	1520.9	9.06	9.11	718	-0	28.7	43.8	424	120026	244	18.9	681	423	.28	1.60	1.59	1.59	9.36	8.70
102	0103	1536.5	23.9	2.18	2.18	106	36.8	2750	1521.0	9.06	9.11	718	-0	28.7	43.8	424	120110	244	18.9	194	423	.28	1.23	1.22	1.59	9.36	8.70
103	0104	1536.9	15.5	2.09	2.09	106	37.4	2780	1521.3	9.07	9.10	718	-0	28.7	44.2	425	120251	244	18.9	283	423	.28	1.36	1.35	1.59	9.36	8.70
104	0106	1537.1	8.37	2.01	2.01	107	37.4	2790	1521.9	9.07	9.10	717	-0	28.7	44.2	425	120438	245	18.9	460	423	.28	1.53	1.52	1.59	9.36	8.70
105	0107	1537.4	15.3	2.16	2.10	106	38.8	2790	1522.1	9.05	9.10	717	-0	28.9	44.2	424	120560	245	18.9	327	423	.28	1.38	1.37	1.59	9.36	8.70
106	0111	1538.6	6.45	2.09	2.09	107	39.7	2780	1522.7	9.06	9.15	717	0	29.0	44.2	437	120799	246	19.0	477	423	.28	1.65	1.64	1.59	9.29	8.70
107	0118	1539.2	14.8	2.23	2.23	102	37.9	2770	1523.1	9.08	9.12	715	0	29.2	44.6	450	120937	247	19.0	327	421	.28	1.37	1.36	1.59	9.35	8.70
108	0119	1539.6	14.1	2.21	2.21	111	37.0	2780	1523.3	9.08	9.12	715	0	29.2	44.6	445	121092	247	19.0	399	421	.29	1.39	1.38	1.59	9.35	8.70
109	0120	1539.9	13.5	2.25	2.25	111	38.4	2770	1523.4	9.08	9.12	715	0	29.2	44.6	440	121233	247	19.0	375	421	.29	1.42	1.41	1.59	9.35	8.70
110	0121	1540.2	16.2	2.13	2.13	111	37.6	2770	1523.6	9.11	9.11	715	0	29.4	44.3	435	121354	248	19.1	298	420	.29	1.36	1.35	1.59	9.35	8.70
111	0123	1540.7	17.1	2.16	2.16	110	37.8	2770	1523.8	9.11	9.11	715	0	29.4	44.3	431	121509	248	19.1	1031	420	.29	1.35	1.33	1.59	9.35	8.70
112	0126	1541.1	7.98	2.06	2.06	110	36.5	2770	1524.2	9.08	9.06	715	0	29.4	43.8	424	121880	249	19.1	341	421	.29	1.54	1.53	1.59	9.35	8.70
113	0127	1541.4	19.2	2.16	2.16	108	35.9	2780	1524.2	9.08	9.06	715	0	29.4	43.8	423	121987	249	19.2	280	420	.29	1.29	1.28	1.59	9.35	8.70
114	0130	1542.0	8.53	2.23	2.23	111	37.9	2760	1524.2	9.08	9.06	715	0	29.4	43.8	424	122284	249	19.2	496	420	.29	1.54	1.53	1.59	9.36	8.70
115	0130	1542.3	22.8	2.15	2.15	110	38.4	2760	1524.2	9.08	9.06	715	0	29.4	43.8	423	122352	250	19.2	178	420	.29	1.27	1.26	1.59	9.36	8.70
116	0132	1542.6	9.39	2.36	2.36	109	38.7	2770	1524.2	9.07	9.12	715	0	29.3	44.3	421	122581	250	19.2	345	420	.29	1.52	1.51	1.59	9.35	8.70
117	0134	1542.9	16.6	2.21	2.21	110	36.8	2780	1524.3	9.07	9.12	715	0	29.3	44.3	421	122707	250	19.3	395	420	.29	1.34	1.33	1.59	9.36	8.70
118	0135	1543.3	20.5	2.30	2.30	110	39.1	2770	1524.3	9.07	9.12	715	0	29.3	44.3	423	122833	251	19.3	387	420	.29	1.31	1.29	1.59	9.36	8.70
119	0136	1543.6	9.67	2.28	2.28	109	36.9	2750	1524.5	9.08	9.14	715	0	29.2	44.5	421	123012	251	19.3	686	420	.29	1.49	1.48	1.59	9.35	8.70
120	0139	1544.1	11.5	2.12	2.12	109	37.5	2730	1524.7	9.08	9.14	715	0	29.2	44.5	421	123288	252	19.3	473	420	.29	1.46	1.45	1.59	9.32	8.70
121	0141	1544.5	12.1	2.18	2.18	111	38.0	2720	1524.8	9.08	9.14	715	0	29.2	44.5	420	123489	252	19.4	456	420	.29	1.45	1.44	1.59	9.35	8.70
122	0143	1545.0	13.0	2.15	2.15	111	38.4	2700	1525.1	9.08	9.14	715	0	29.2	44.5	418	123744	252	19.4	572	420	.29	1.43	1.42	1.59	9.35	8.70
123	0145	1545.4	10.9	2.26	2.26	110	37.0	2700	1525.2	9.08	9.15	715	0	29.2	44.4	419	123922	253	19.4	429	420	.29	1.46	1.45	1.59	9.35	8.70
124	0145	1545.6	22.4	2.25	2.25	110	37.4	2710	1525.3	9.08	9.15	715	0	29.2	44.4	420	124003	253	19.5	238	419	.29	1.27	1.25	1.59	9.36	8.70
125	0147	1546.0	12.0	2.17	2.17	110	36.0	2690	1525.5	9.08	9.15	715	-0	29.2	44.4	425	124170	253	19.5	288	419	.29	1.42	1.41	1.59	9.38	8.70
126	0148	1546.3	16.2	2.26	2.26	110	37.4	2710	1525.8	9.09	9.19	717	-0	29.2	44.6	426	124301	254	19.5	341	419	.29	1.35	1.34	1.59	9.37	8.70
127	0149	1546.6	15.0	1.98	1.98	110	36.8	2710	1526.1	9.09	9.19	717	-0	29.2	44.6	425	124427	254	19.5	268	419	.30	1.37	1.36	1.58	9.37	8.70
128	0151	1546.9	12.4	2.15	2.15	110	37.2	2720	1527.0	9.09	9.20	717	-0	29.3	44.8	424	124584	254	19.5	372	419	.30	1.43	1.42	1.58	9.37	8.70
129	0151	1547.2	27.0	2.10	2.10	110	36.7	2730	1527.6	9.09	9.20	717	-0	29.3	44.8	425	124661	255	19.6	241	419	.30	1.20	1.19	1.59	9.36	8.70
130	0152	1547.5	15.3	2.05	2.05	110	37.6	2740	1528.2	9.08	9.18	717	-0	29.3	45.1	426	124775	255	19.6	504	419	.30	1.37	1.36	1.58	9.36	8.70
131	0154	1547.8	10.3	1.99	1.99	110	36.1	2730	1528.4	9.08	9.18	717	-0	29.3	45.1	427	124960	255	19.6	380	419	.30	1.47	1.46	1.58	9.36	8.70
132	0201	1548.2	17.3	1.15	1.03	109	36.0	2780	1529.7	9.09	9.15	717	0	29.4	44.8	445	125061	256	19.6	329	418	.30	1.32	1.31	1.58	9.34	8.70
133	0202	1549.0	21.1	2.35	2.35	110	33.8	2780	1530.0	9.14	9.18	717	-0	29.7	44.5	441	125165	256	19.6	167	417	.30	1.25	1.23	1.58	9.34	8.70
134	0202	1549.3	30.2	2.08	2.08	110	33.4	2770	1530.2	9.14	9.18	717	-0	29.7	44.5	437	125231	257	19.6	278	417	.30	1.14	1.13	1.59	9.34	8.70
135	0204	1549.6	14.4	2.06	2.06	110	34.3	2770	1530.6	9.12	9.17	717	-0	29.8	44.9	435	125378	257	19.7	364	417	.30	1.36	1.34	1.59	9.33	8.70
136	0205	1550.0	18.5	1.99	1.03	111	36.3	2770	1530.9	9.12	9.17	717	-0	29.8	44.9	430	125483	257	19.7	281	417	.30	1.31	1.30	1.58	9.33	8.70
137	0205	1550.3	24.7	2.14	1.03	110	34.2	2770	1531.0	9.12	9.17	717	-0	29.8	44.9	431	125563	258	19.7	342	417	.30	1.21	1.20	1.59	9.33	8.70
138	0207	1550.6	11.2	2.08	2.08	111	37.5	2770	1531.5	9.10	9.22	717	-0	29.4	44.9	427	125732	258	19.7	476	416	.30	1.47	1.46	1.59	9.33	8.70
139	0208	1550.8	16.5	2.23	2.23	113	37.1	2770	1531.8	9.10	9.22	717	-0	29.4	44.9	425	125850	258	19.7	305	416	.30	1.36	1.35	1.58	9.33	8.70
140	0209	1551.1	19.5	2.18	2.19	110	37.9	2780	1532.0	9.07	9.20	714	-0	29.4	44.5	424	125944	259	19.7	301	416	.30	1.31	1.30	1.58	9.32	8.70
141	0209	1551.4	32.9	2.44	2.44	110	37.4	2780	1532.1	9.07	9.20	714	-0	29.4	44.5	425	126002	259	19.8	197	416	.30	1.16	1.15	1.59	9.32	8.70
142	0210	1551.8	20.3	2.16	2.16	110	37.4	2780	1532.3	9.07	9.20	714	-0	29.4	44.5	425	126099	259	19.8	215	416	.30	1.30	1.28	1.58	9.32	8.70
143	0212	1552.0	7.83	2.39	2.39	110	37.4	2770	1532.7	9.11	9.20	714	-0	29.5	45.1	422	126339	259	19.8	$	416	.30	1.57	1.55	1.58	9.32	8.70
144	0214	1552.3	12.9	2.08	2.08	109	37.5	2790	1532.9	9.10	9.24	713	-0	29.3	44.9	424	126492	260	19.8	410	416	.30	1.43	1.41	1.58	9.32	8.70
145	0215	1552.7	17.2	2.14	2.14	109	36.6	2800	1533.1	9.10	9.24	714	-0	29.3	44.9	422	126607	260	19.8	276	416	.30	1.33	1.32	1.58	9.31	8.70
146	0216	1553.0	21.7	2.30	2.30	109	35.9	2790	1533.2	9.10	9.24	714	-0	29.3	44.9	422	126698	260	19.9	250	415	.30	1.26	1.25	1.58	9.31	8.70
147	0216	1553.3	23.0	2.39	2.39	109	35.8	2800	1533.3	9.11	9.21	714	-0	29.3	45.2	421	126784	261	19.9	224	415	.30	1.24	1.23	1.58	9.31	8.70
148	0217	1553.6	17.8	2.17	2.17	109	38.3	2790	1533.6	9.11	9.21	714	-0	29.3	45.2	418	126893	261	19.9	278	415	.30	1.34	1.33	1.58	9.31	8.70
149	0219	1553.9	15.7	2.12	2.12	110	37.9	2780	1534.0	9.11	9.21	714	-0	29.3	45.2	418	127040	261	19.9	442	415	.30	1.38	1.36	1.58	9.31	8.70
150	0220	1554.2	13.1	2.39	2.39	109	38.2	2790	1534.3	9.14	9.19	714	-0	28.5	45.2	416	127204	262	19.9	648	415	.30	1.43	1.42	1.58	9.30	8.70

AMOCO AUST. Tilana No.1 329130 Data Printed at time 16:16 Date Oct 9 '85
Data Recorded at time 02:22 Date Sep 13 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
151	0222	1554.9	18.7	2.20	2.20	110	37.0	2830	1534.6	9.13	9.21	718	-0	28.6	45.3	414	127409	262	20.0	231	415	.30	1.32	1.31	1.58	9.30	8.70
152	0223	1555.1	18.9	2.05	1.03	110	36.4	2840	1534.7	9.13	9.21	719	-0	28.6	45.3	411	127478	262	20.0	396	415	.30	1.31	1.30	1.58	9.30	8.70
153	0224	1555.4	11.3	2.08	2.08	108	37.5	2860	1534.9	9.13	9.21	719	-0	28.6	45.3	409	127624	263	20.0	485	414	.30	1.46	1.45	1.58	9.30	8.70
154	0226	1555.7	11.3	2.21	2.21	108	36.8	2860	1535.4	9.12	9.21	721	-0	28.5	45.2	410	127801	263	20.0	379	414	.31	1.46	1.44	1.58	9.29	8.70
155	0227	1556.0	16.3	1.98	1.98	109	38.4	2830	1535.8	9.13	9.24	720	-0	28.5	45.2	413	127930	263	20.1	265	414	.31	1.37	1.36	1.58	9.29	8.70
156	0227	1556.3	28.7	2.33	2.33	108	38.3	2850	1536.0	9.13	9.24	719	-0	28.5	45.2	410	127981	264	20.1	285	414	.31	1.21	1.19	1.58	9.29	8.70
157	0229	1556.6	14.2	1.96	1.96	109	36.9	2850	1536.6	9.13	9.24	720	-0	28.5	45.2	410	128131	264	20.1	357	414	.31	1.39	1.38	1.58	9.29	8.70
158	0230	1557.0	15.4	2.19	1.03	108	36.4	2840	1537.2	9.17	9.23	721	-0	28.6	45.2	409	128266	264	20.1	305	414	.31	1.36	1.35	1.58	9.28	8.70
159	0247	1557.9	20.2	2.55	2.55	119	26.6	2730	1540.8	9.02	9.02	701	-0	30.1	44.5	445	128413	265	20.1	140	413	.31	1.36	1.33	1.58	9.27	8.70
160	0248	1558.1	15.7	2.32	2.32	112	39.0	2820	1541.3	8.99	9.20	709	-0	29.8	44.9	442	128519	266	20.1	252	413	.31	1.40	1.39	1.58	9.27	8.70
161	0248	1558.5	24.1	2.01	2.01	107	36.6	2810	1541.7	8.99	9.20	713	-0	29.8	44.9	436	128606	266	20.2	235	412	.31	1.24	1.23	1.58	9.27	8.70
162	0250	1558.8	11.8	2.20	2.20	109	39.4	2800	1542.3	9.02	9.20	714	-0	28.7	45.4	430	128764	266	20.2	563	412	.31	1.48	1.47	1.58	9.27	8.70
163	0250	1559.1	32.5	2.57	2.57	110	40.0	2790	1542.5	9.02	9.20	714	-0	28.7	45.4	428	128824	267	20.2	321	412	.31	1.19	1.18	1.58	9.27	8.70
164	0252	1559.4	13.6	2.19	2.19	107	38.4	2800	1542.8	9.02	9.20	714	-0	28.7	45.4	422	128963	267	20.2	460	412	.31	1.42	1.41	1.58	9.27	8.70
165	0252	1559.7	25.5	2.14	2.14	109	38.4	2810	1543.0	9.02	9.20	714	-0	28.7	45.4	419	129041	267	20.2	279	412	.31	1.25	1.23	1.58	9.27	8.70
166	0253	1560.0	18.1	2.21	2.21	110	39.4	2810	1543.2	9.02	9.20	715	-0	28.2	44.8	417	129148	267	20.2	260	412	.31	1.36	1.35	1.58	9.27	8.70
167	0255	1560.3	9.90	2.18	2.18	108	39.2	2800	1543.8	9.02	9.20	711	-0	28.2	44.8	413	129369	268	20.3	348	412	.31	1.53	1.51	1.58	9.27	8.70
168	0258	1560.9	11.5	2.07	2.07	110	38.9	2760	1544.3	9.08	9.21	706	-0	28.1	45.3	415	129636	268	20.3	505	412	.31	1.48	1.47	1.58	9.27	8.70
169	0259	1561.2	18.6	2.34	2.34	110	40.8	2770	1544.6	9.08	9.21	705	-0	28.1	45.3	414	129739	269	20.3	371	412	.31	1.36	1.35	1.58	9.27	8.70
170	0300	1561.6	15.2	2.12	2.12	110	41.6	2790	1544.6	9.11	9.20	706	-0	28.1	45.8	413	129901	269	20.3	375	412	.31	1.43	1.42	1.58	9.28	8.70
171	0301	1561.8	19.2	2.27	2.27	110	38.6	2740	1544.6	9.11	9.20	706	-0	28.1	45.8	414	129979	269	20.4	226	411	.31	1.33	1.32	1.58	9.28	8.70
172	0302	1562.1	17.3	2.36	2.30	109	38.4	2740	1544.8	9.13	9.17	704	-0	28.2	45.8	414	130099	270	20.4	245	411	.31	1.36	1.34	1.58	9.28	8.70
173	0303	1562.4	30.0	2.14	2.14	109	39.4	2750	1545.1	9.13	9.17	704	-0	28.2	45.8	414	130169	270	20.4	202	411	.31	1.21	1.20	1.58	9.28	8.70
174	0303	1562.7	23.6	2.34	2.34	110	38.3	2750	1545.4	9.13	9.17	705	-0	28.2	45.8	413	130240	270	20.4	184	411	.31	1.27	1.26	1.58	9.28	8.70
175	0305	1563.1	18.0	2.09	2.09	108	39.8	2750	1545.9	9.13	9.21	705	-0	28.1	45.5	414	130378	270	20.4	257	410	.31	1.36	1.34	1.58	9.28	8.70
176	0305	1563.4	26.5	2.26	2.26	108	38.6	2750	1546.1	9.13	9.21	705	-0	28.1	45.5	413	130456	271	20.4	252	410	.31	1.23	1.22	1.58	9.29	8.70
177	0306	1563.6	14.7	2.39	2.39	110	39.8	2750	1546.3	9.13	9.21	705	-0	28.1	45.5	414	130540	271	20.4	229	410	.31	1.42	1.41	1.58	9.29	8.70
178	0307	1564.0	18.6	2.04	2.04	110	38.2	2750	1546.6	9.15	9.18	705	-0	28.3	45.8	415	130659	271	20.5	310	410	.31	1.33	1.32	1.58	9.29	8.70
179	0309	1564.3	14.1	2.25	2.21	113	39.9	2770	1547.0	9.15	9.18	707	-0	28.3	45.8	416	130808	272	20.5	1179	410	.31	1.44	1.43	1.58	9.29	8.70
180	0309	1564.6	17.6	2.20	1.03	110	40.4	2760	1547.2	9.15	9.18	707	-0	28.3	45.8	415	130885	272	20.5	202	410	.31	1.38	1.36	1.58	9.29	8.70
181	0310	1564.8	12.4	2.14	2.14	109	39.5	2770	1547.6	9.15	9.20	709	-0	28.2	45.4	414	131008	272	20.5	453	410	.31	1.46	1.45	1.58	9.29	8.70
182	0312	1565.1	16.6	2.43	2.43	108	39.6	2760	1548.0	9.15	9.20	708	-0	28.2	45.4	415	131126	273	20.5	302	409	.32	1.38	1.37	1.58	9.29	8.70
183	0312	1565.5	20.5	2.16	2.16	108	40.6	2760	1548.2	9.14	9.19	707	-0	28.2	45.4	414	131223	273	20.6	228	409	.32	1.33	1.31	1.58	9.29	8.70
184	0314	1565.8	15.1	2.15	2.15	110	39.8	2760	1548.4	9.14	9.19	708	-0	28.2	45.4	414	131340	273	20.6	306	409	.32	1.41	1.40	1.58	9.29	8.70
185	0314	1566.1	16.0	2.13	2.13	109	38.1	2760	1548.5	9.14	9.19	708	-0	28.2	45.4	413	131423	274	20.6	236	409	.32	1.37	1.36	1.58	9.29	8.70
186	0315	1566.4	20.0	2.20	2.20	107	37.1	2770	1548.7	9.14	9.22	708	-0	28.3	45.6	413	131523	274	20.6	273	409	.32	1.30	1.29	1.57	9.29	8.70
187	0317	1566.8	17.9	2.02	2.02	110	38.9	2740	1549.0	9.14	9.22	708	-0	28.3	45.6	415	131669	274	20.6	643	409	.32	1.35	1.34	1.57	9.29	8.70
188	0326	1567.3	16.1	2.21	2.21	109	36.8	2680	1550.5	9.11	9.04	690	-0	28.7	45.5	428	131853	275	20.6	273	408	.32	1.36	1.35	1.57	9.27	8.70
189	0326	1567.6	21.6	2.20	2.20	109	38.9	2670	1550.7	9.10	9.16	692	-0	28.6	45.7	423	131939	275	20.7	225	408	.32	1.30	1.28	1.57	9.27	8.70
190	0327	1568.0	18.8	2.14	2.14	109	39.1	2680	1551.1	9.10	9.16	692	-0	28.6	45.7	417	132059	275	20.7	308	408	.32	1.34	1.33	1.57	9.27	8.70
191	0328	1568.3	34.5	2.03	2.03	109	38.1	2670	1551.2	9.10	9.16	692	-0	28.6	45.7	415	132113	276	20.7	323	408	.32	1.16	1.15	1.57	9.27	8.70
192	0329	1568.5	10.7	2.39	2.39	109	39.2	2660	1551.7	9.14	9.17	693	-0	28.5	45.9	412	132274	276	20.7	510	408	.32	1.50	1.49	1.57	9.27	8.70
193	0331	1568.8	11.5	2.14	1.03	110	38.7	2670	1552.0	9.14	9.17	693	-0	28.5	45.9	410	132441	276	20.7	333	408	.32	1.48	1.47	1.57	9.27	8.70
194	0332	1569.1	13.6	2.08	2.08	109	40.4	2670	1552.4	9.17	9.19	692	-0	28.4	45.9	409	132591	276	20.8	408	408	.32	1.45	1.44	1.57	9.27	8.70
195	0334	1569.4	11.8	2.21	2.21	108	38.9	2790	1552.9	9.17	9.21	708	-0	28.5	45.7	408	132765	277	20.8	326	408	.32	1.47	1.46	1.57	9.27	8.70
196	0335	1569.7	15.2	2.21	2.21	107	41.2	2800	1553.1	9.17	9.21	709	-0	28.5	45.7	406	132875	277	20.8	301	408	.32	1.42	1.41	1.57	9.28	8.70
197	0336	1570.0	12.1	2.18	2.18	107	39.3	2790	1553.3	9.17	9.21	710	-0	28.5	45.7	404	132984	277	20.8	323	407	.32	1.46	1.45	1.57	9.28	8.70
198	0337	1570.4	15.5	1.97	1.97	107	37.2	2790	1553.6	9.18	9.21	710	-0	28.5	45.6	406	133128	278	20.8	350	407	.32	1.37	1.36	1.57	9.28	8.70
199	0340	1571.1	14.7	2.10	2.10	107	39.4	2810	1553.8	9.22	9.16	710	-0	28.7	45.8	405	133398	278	20.9	304	407	.32	1.41	1.40	1.57	9.28	8.70
200	0342	1571.6	13.9	2.18	2.18	107	41.4	2790	1553.9	9.21	9.15	711	-0	28.5	45.6	405	133600	279	20.9	242	407	.32	1.45	1.43	1.57	9.29	8.70

AMOCO AUST. Tilana No.1

329131

Data Printed at time 16:20 Date Oct 9 5
Data Recorded at time 03:43 Date Sep 1 85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
201	0343	1571.9	13.3	2.07	2.07	107	39.2	2800	1554.3	9.21	9.15	711	-0	28.5	45.6	404	133754	279	20.9	439	407	.32	1.43	1.42	1.57	9.29	8.70
202	0344	1572.2	21.2	2.06	2.06	107	39.4	2790	1554.6	9.22	9.14	711	-0	28.6	45.8	403	133841	280	21.0	416	407	.32	1.30	1.29	1.57	9.29	8.70
203	0345	1572.5	16.1	2.52	2.52	107	39.6	2800	1554.8	9.22	9.14	711	-0	28.6	45.8	404	133941	280	21.0	342	407	.32	1.38	1.37	1.57	9.29	8.70
204	0346	1572.8	20.8	2.04	2.04	108	38.1	2800	1555.1	9.22	9.14	711	-0	28.6	45.8	403	134043	280	21.0	238	407	.32	1.30	1.28	1.57	9.29	8.70
205	0347	1573.1	17.2	2.17	2.17	106	38.7	2810	1555.4	9.18	9.13	712	-0	28.7	46.1	403	134146	281	21.0	342	406	.32	1.35	1.34	1.57	9.29	8.70
206	0348	1573.4	13.8	2.13	2.13	108	39.1	2830	1555.9	9.18	9.13	711	-0	28.7	46.1	405	134302	281	21.0	372	406	.32	1.42	1.41	1.57	9.29	8.70
207	0349	1573.7	15.6	2.25	2.25	107	38.1	2820	1556.2	9.18	9.13	711	-0	28.7	46.1	403	134414	281	21.0	289	406	.33	1.37	1.36	1.57	9.29	8.70
208	0351	1574.0	12.3	1.96	1.96	107	39.5	2820	1556.4	9.14	9.03	712	-0	28.9	45.9	402	134570	281	21.1	528	406	.33	1.46	1.45	1.57	9.29	8.70
209	0352	1574.3	11.2	2.25	2.25	107	39.9	2810	1556.7	9.15	9.03	710	-0	28.5	45.9	402	134748	282	21.1	392	406	.33	1.49	1.48	1.57	9.29	8.70
210	0354	1574.6	12.2	2.14	2.14	108	38.8	2820	1557.2	9.15	9.03	710	-0	28.5	45.9	403	134911	282	21.1	448	406	.33	1.46	1.44	1.56	9.29	8.70
211	0355	1574.9	16.0	2.21	2.21	107	39.6	2820	1557.5	9.13	8.99	710	-0	28.2	46.0	401	135031	282	21.1	318	406	.33	1.38	1.37	1.56	9.29	8.70
212	0356	1575.2	15.1	2.12	2.11	107	39.0	2810	1557.8	9.13	8.99	710	-0	28.2	46.0	403	135174	283	21.2	428	406	.33	1.39	1.38	1.56	9.29	8.70
213	0358	1575.5	12.5	2.20	2.20	107	38.5	2810	1558.2	9.12	9.02	709	-0	28.4	45.7	404	135296	283	21.2	463	406	.33	1.44	1.43	1.56	9.29	8.70
214	0359	1575.8	19.3	2.20	2.20	108	39.5	2780	1558.5	9.12	9.02	709	-0	28.4	45.7	405	135396	283	21.2	261	406	.33	1.33	1.32	1.56	9.29	8.70
215	0409	1576.5	15.8	2.33	2.33	109	25.9	2750	1560.8	9.05	9.04	699	-0	28.9	45.6	412	135497	284	21.2	170	405	.33	1.48	1.46	1.56	9.28	8.70
216	0411	1577.1	9.48	2.12	2.12	110	40.1	2740	1561.4	9.04	9.04	702	-0	28.5	46.3	406	135778	284	21.3	619	405	.33	1.55	1.54	1.56	9.28	8.70
217	0414	1577.7	10.6	2.16	2.16	109	40.1	2750	1562.3	9.15	9.11	703	-0	28.4	46.6	402	136068	285	21.3	272	405	.33	1.52	1.50	1.56	9.29	8.70
218	0415	1578.0	22.3	1.04	1.03	110	40.0	2750	1562.5	9.16	9.12	703	-0	28.4	46.2	401	136150	285	21.3	218	405	.33	1.30	1.29	1.56	9.30	8.70
219	0416	1578.3	14.6	2.23	2.23	109	40.0	2730	1562.9	9.16	9.12	702	-0	28.4	46.2	404	136319	286	21.3	959	405	.33	1.42	1.41	1.56	9.30	8.70
220	0417	1578.6	14.5	2.27	1.03	108	40.0	2740	1563.2	9.15	9.11	702	-0	28.8	45.3	405	136431	286	21.4	264	405	.33	1.42	1.41	1.56	9.31	8.70
221	0418	1578.9	16.6	2.22	2.22	112	39.0	2730	1563.2	9.15	9.11	702	-0	28.8	45.3	409	136558	286	21.4	391	405	.33	1.38	1.37	1.56	9.31	8.70
222	0419	1579.2	16.1	2.26	2.26	112	39.8	2720	1563.3	9.15	9.11	703	-0	28.8	45.3	409	136683	287	21.4	374	405	.33	1.40	1.38	1.56	9.31	8.70
223	0420	1579.5	35.2	2.22	2.19	114	40.0	2710	1563.4	9.16	9.13	703	-0	29.0	45.8	410	136746	287	21.4	657	405	.33	1.18	1.16	1.56	9.31	8.70
224	0421	1579.8	14.5	2.16	2.16	110	38.6	2710	1563.7	9.16	9.13	703	-0	29.0	45.8	412	136887	287	21.4	468	404	.33	1.41	1.39	1.56	9.32	8.70
225	0422	1580.1	19.0	2.18	2.18	111	40.4	2730	1564.0	9.16	9.13	703	-0	29.0	45.8	413	137009	287	21.4	173	404	.33	1.35	1.34	1.56	9.32	8.70
226	0424	1580.4	11.0	2.11	2.11	112	40.8	2720	1564.3	9.16	9.13	703	-0	29.0	45.8	413	137161	288	21.5	370	404	.33	1.52	1.50	1.56	9.32	8.70
227	0425	1580.7	22.5	2.09	2.09	110	40.5	2730	1564.5	9.18	9.15	703	-0	29.0	45.7	415	137259	288	21.5	261	404	.33	1.30	1.29	1.56	9.33	8.70
228	0426	1581.0	12.2	2.10	2.10	113	40.2	2740	1564.9	9.18	9.15	702	-0	29.0	45.7	420	137420	288	21.5	436	404	.33	1.48	1.46	1.56	9.33	8.70
229	0427	1581.3	15.3	2.08	2.08	112	40.3	2730	1565.2	9.16	9.13	702	-0	28.8	46.1	421	137550	289	21.5	391	404	.34	1.41	1.40	1.56	9.33	8.70
230	0429	1581.7	11.1	2.02	2.02	110	40.4	2730	1565.6	9.16	9.13	702	-0	28.8	46.1	424	137738	289	21.5	569	404	.34	1.50	1.49	1.56	9.33	8.70
231	0430	1581.9	14.8	2.66	2.66	110	40.7	2740	1565.7	9.16	9.16	703	-0	28.7	46.2	424	137840	289	21.6	274	404	.34	1.42	1.41	1.56	9.33	8.70
232	0431	1582.3	19.6	2.12	2.12	110	40.4	2730	1566.0	9.16	9.16	703	-0	28.7	46.2	428	137951	290	21.6	391	404	.34	1.34	1.32	1.56	9.33	8.70
233	0432	1582.6	11.4	2.17	2.17	109	41.6	2710	1566.5	9.16	9.19	703	-0	28.8	46.5	429	138137	290	21.6	442	404	.34	1.50	1.49	1.56	9.33	8.70
234	0433	1582.9	29.5	2.16	2.16	110	40.9	2730	1566.7	9.16	9.19	703	-0	28.8	46.5	432	138208	290	21.6	166	403	.34	1.22	1.21	1.56	9.33	8.70
235	0436	1583.5	10.5	2.12	2.12	110	40.1	2740	1567.4	9.14	9.18	702	-0	29.1	46.1	438	138523	291	21.7	489	403	.34	1.51	1.50	1.56	9.32	8.70
236	0437	1583.8	23.8	2.15	2.15	113	40.0	2740	1567.6	9.14	9.18	702	-0	29.1	46.1	440	138598	291	21.7	217	403	.34	1.29	1.27	1.56	9.32	8.70
237	0438	1584.0	15.0	2.25	1.03	111	40.0	2710	1567.9	9.14	9.18	703	-0	29.1	46.1	442	138728	292	21.7	357	403	.34	1.41	1.40	1.56	9.32	8.70
238	0439	1584.7	13.1	2.14	2.14	110	39.9	2730	1568.2	9.13	9.19	702	-0	29.4	46.3	444	138873	292	21.7	359	403	.34	1.45	1.44	1.56	9.32	8.70
239	0440	1585.3	21.1	2.07	2.07	111	39.4	2710	1568.3	9.13	9.19	703	-0	29.4	46.3	444	138928	293	21.7	186	402	.34	1.31	1.30	1.56	9.32	8.70
240	0441	1585.6	13.5	2.15	2.15	110	39.1	2710	1568.6	9.13	9.24	703	-0	29.8	46.5	448	139085	293	21.8	339	402	.34	1.43	1.42	1.55	9.32	8.70
241	0442	1585.9	28.2	2.06	2.06	110	39.2	2720	1568.9	9.13	9.24	703	-0	29.8	46.5	447	139153	293	21.8	298	402	.34	1.22	1.21	1.56	9.32	8.70
242	0452	1586.2	20.7	1.95	1.95	113	14.5	2770	1570.7	9.11	9.16	704	-0	30.6	46.5	464	139265	294	21.8	279	402	.34	1.01	1.00	1.56	9.31	8.70
243	0452	1586.5	50.0	2.38	2.38	109	31.8	2770	1570.8	9.11	9.16	705	-0	30.6	46.5	463	139300	294	21.8	114	401	.34	.99	.98	1.56	9.32	8.70
244	0453	1586.8	21.4	2.20	2.20	110	40.4	2780	1570.9	9.11	9.16	707	-0	30.6	46.5	461	139384	294	21.8	188	401	.34	1.31	1.30	1.56	9.32	8.70
245	0454	1587.1	13.7	2.20	2.20	109	39.6	2770	1571.2	9.11	9.16	707	-0	30.6	46.5	458	139507	295	21.8	592	401	.34	1.43	1.42	1.56	9.32	8.70
246	0455	1587.4	16.7	2.17	2.17	108	38.9	2760	1571.5	9.13	9.29	707	-0	30.2	46.8	456	139643	295	21.8	323	401	.34	1.36	1.35	1.56	9.32	8.70
247	0456	1587.7	17.9	2.12	2.12	110	39.9	2750	1571.7	9.13	9.29	708	-0	30.2	46.8	455	139748	295	21.9	364	401	.34	1.36	1.34	1.55	9.32	8.70
248	0457	1588.1	21.6	2.22	2.22	109	39.1	2750	1571.9	9.13	9.29	707	-0	30.2	46.8	453	139834	295	21.9	211	401	.34	1.29	1.28	1.55	9.32	8.70
249	0458	1588.3	19.0	2.26	2.26	108	38.2	2760	1572.2	9.13	9.21	706	-0	29.8	46.5	455	139924	296	21.9	259	400	.34	1.32	1.31	1.55	9.33	8.70
250	0459	1588.7	20.5	2.15	2.15	109	38.7	2770	1572.4	9.13	9.21	707	-0	29.8	46.5	452	140034	296	21.9	296	400	.34	1.30	1.29	1.55	9.32	8.70

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329132

Data Printed at time 16:24 Date Oct 9 '85
Data Recorded at time 05:00 Date Sep 13 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
251	0500	1589.2	18.1	2.29	2.29	109	38.6	2770	1572.6	9.14	9.20	707	-0	29.6	46.3	454	140199	297	21.9	222	400	.34	1.34	1.32	1.55	9.33	8.70
252	0501	1589.5	20.7	2.19	2.19	110	39.3	2770	1572.6	9.14	9.20	707	-0	29.6	46.3	452	140293	297	21.9	272	400	.34	1.31	1.30	1.55	9.33	8.70
253	0503	1589.9	15.7	2.07	2.07	108	38.5	2770	1572.6	9.13	9.11	708	-0	29.6	46.6	453	140471	297	22.0	283	400	.34	1.38	1.36	1.55	9.33	8.70
254	0504	1590.2	20.1	2.19	2.19	107	37.5	2770	1572.6	9.13	9.11	708	-0	29.6	46.6	456	140536	298	22.0	228	400	.34	1.29	1.28	1.55	9.33	8.70
255	0504	1590.5	22.6	2.21	2.21	107	40.1	2780	1572.6	9.13	9.11	707	-0	29.6	46.6	456	140620	298	22.0	219	399	.35	1.28	1.27	1.55	9.34	8.70
256	0505	1590.8	25.1	2.22	2.22	107	39.6	2780	1572.8	9.15	9.05	708	-0	30.0	46.7	456	140715	298	22.0	268	399	.35	1.25	1.24	1.55	9.34	8.70
257	0506	1591.1	12.3	1.99	1.99	108	38.2	2770	1573.3	9.15	9.05	708	-0	30.0	46.7	454	140836	298	22.0	383	399	.35	1.44	1.43	1.55	9.34	8.70
258	0507	1591.4	52.3	2.06	2.05	107	38.4	2760	1573.4	9.15	9.05	707	-0	30.0	46.7	456	140879	299	22.0	437	399	.35	1.03	1.02	1.55	9.34	8.70
259	0508	1591.7	9.77	2.12	2.12	107	36.7	2780	1573.8	9.17	9.02	707	-0	30.3	46.7	455	141045	299	22.1	395	399	.35	1.49	1.47	1.55	9.33	8.70
260	0509	1592.0	38.6	2.31	2.35	110	36.6	2790	1573.9	9.17	9.02	708	-0	30.3	46.7	454	141085	299	22.1	107	398	.35	1.11	1.09	1.55	9.34	8.70
261	0510	1592.3	12.5	2.19	2.19	109	38.1	2770	1574.3	9.17	9.05	708	-0	30.3	46.6	446	141254	300	22.1	283	399	.35	1.44	1.43	1.55	9.33	8.70
262	0511	1592.6	22.5	2.45	2.45	108	37.6	2780	1574.6	9.17	9.05	708	-0	30.3	46.6	442	141337	300	22.1	201	398	.35	1.26	1.25	1.55	9.33	8.70
263	0512	1592.9	15.0	1.95	1.95	109	38.0	2780	1575.0	9.17	9.05	707	-0	30.3	46.6	437	141477	300	22.1	322	398	.35	1.38	1.37	1.55	9.33	8.70
264	0513	1593.2	24.4	2.19	2.19	108	38.4	2780	1575.2	9.14	9.05	707	-0	30.0	46.8	433	141552	301	22.1	233	398	.35	1.25	1.24	1.55	9.33	8.70
265	0514	1593.5	14.9	2.38	2.38	109	38.3	2770	1575.5	9.14	9.05	707	-0	30.0	46.8	432	141681	301	22.1	324	398	.35	1.39	1.38	1.55	9.33	8.70
266	0515	1593.9	17.8	2.07	2.07	109	36.1	2760	1575.9	9.17	8.95	707	-0	29.5	46.7	430	141811	301	22.2	373	398	.35	1.32	1.30	1.55	9.32	8.70
267	0516	1594.2	17.9	1.84	1.84	108	37.9	2750	1576.1	9.17	8.95	707	-0	29.5	46.7	426	141917	302	22.2	270	398	.35	1.33	1.32	1.55	9.32	8.70
268	0517	1594.4	36.0	2.14	2.14	109	38.6	2750	1576.2	9.17	8.95	707	-0	29.5	46.7	428	141958	302	22.2	370	398	.35	1.14	1.13	1.55	9.32	8.70
269	0518	1594.8	18.5	2.14	2.14	107	37.9	2700	1576.5	9.17	8.95	703	-0	29.5	46.7	427	142071	302	22.2	383	398	.35	1.32	1.31	1.55	9.32	8.70
270	0522	1595.6	12.4	1.03	1.03	107	38.1	800	1577.0	9.16	8.97	53	0	29.2	46.6	451	142130	303	22.2	209	397	.35	1.45	1.43	1.55	9.25	8.70
271	0525	1596.3	32.2	2.22	2.22	107	40.7	2760	1577.6	9.17	8.96	693	-0	29.7	46.2	437	142295	304	22.2	206	396	.35	1.19	1.18	1.55	9.32	8.70
272	0525	1596.5	30.2	2.33	2.33	107	39.9	2730	1577.8	9.17	8.96	697	-0	29.7	46.2	433	142358	304	22.3	217	396	.35	1.20	1.19	1.55	9.32	8.70
273	0527	1596.9	14.4	2.33	1.03	105	41.4	2750	1578.3	9.16	8.92	697	-0	30.0	46.3	430	142535	304	22.3	328	396	.35	1.42	1.41	1.55	9.32	8.70
274	0527	1597.2	55.4	2.26	1.03	107	40.5	2760	1578.4	9.16	8.92	697	-0	30.0	46.3	427	142563	304	22.3	94	396	.35	1.03	1.02	1.55	9.32	8.70
275	0529	1597.5	14.3	2.25	2.25	106	40.6	2730	1578.8	9.16	8.92	697	-0	30.0	46.3	427	142729	305	22.3	677	396	.35	1.42	1.41	1.55	9.32	8.70
276	0530	1597.8	11.9	2.48	2.48	107	40.6	2720	1579.2	9.18	8.93	698	-0	29.5	46.3	424	142892	305	22.3	584	396	.35	1.48	1.46	1.55	9.32	8.70
277	0531	1598.1	15.1	2.24	2.24	106	40.2	2730	1579.4	9.18	8.93	697	-0	29.5	46.3	423	142989	306	22.4	284	395	.35	1.40	1.39	1.55	9.32	8.70
278	0534	1598.7	12.7	2.08	2.08	106	39.5	2720	1580.1	9.18	8.93	698	-0	29.1	46.0	419	143239	306	22.4	375	395	.35	1.44	1.43	1.55	9.32	8.70
279	0535	1599.0	13.5	2.10	1.03	107	39.1	2710	1580.5	9.18	8.93	698	-0	29.1	46.0	421	143383	306	22.4	407	395	.35	1.42	1.41	1.55	9.32	8.70
280	0536	1599.3	18.5	2.21	2.21	106	40.3	2710	1580.8	9.16	8.99	698	-0	29.1	46.1	422	143484	307	22.4	245	395	.35	1.34	1.33	1.55	9.32	8.70
281	0537	1599.7	16.3	2.26	2.26	107	39.2	2710	1581.1	9.16	8.99	698	-0	29.1	46.1	424	143607	307	22.5	276	395	.35	1.37	1.36	1.55	9.32	8.70
282	0539	1600.2	15.7	2.12	2.12	106	37.9	2730	1581.6	9.09	8.98	697	-0	29.3	46.6	425	143791	308	22.5	201	395	.36	1.36	1.35	1.55	9.33	8.70
283	0539	1600.5	28.1	2.02	2.02	107	38.4	2720	1581.7	9.09	8.98	698	-0	29.3	46.6	425	143860	308	22.5	440	395	.36	1.21	1.19	1.55	9.33	8.70
284	0541	1600.9	17.2	2.21	2.21	107	38.4	2720	1582.0	9.09	8.98	698	-0	29.3	46.6	424	143991	308	22.5	697	395	.36	1.34	1.33	1.55	9.33	8.70
285	0542	1601.2	17.6	2.04	2.04	107	39.8	2690	1582.2	9.00	9.01	698	-0	29.2	46.6	425	144096	309	22.5	236	394	.36	1.35	1.34	1.55	9.34	8.70
286	0542	1601.4	16.9	2.24	2.24	108	39.8	2720	1582.4	9.00	9.01	699	-0	29.2	46.6	425	144194	309	22.5	259	394	.36	1.37	1.35	1.55	9.34	8.70
287	0544	1601.8	12.6	2.22	2.22	106	38.1	2720	1582.6	9.00	9.00	699	-0	28.9	46.4	425	144371	309	22.6	507	394	.36	1.43	1.41	1.55	9.34	8.70
288	0545	1602.0	20.4	2.47	2.47	104	39.3	2720	1582.6	9.00	9.00	700	-0	28.9	46.4	426	144448	309	22.6	243	394	.36	1.30	1.29	1.55	9.34	8.70
289	0545	1602.3	46.9	2.80	2.80	107	36.9	2720	1582.6	9.00	9.00	699	-0	28.9	46.4	426	144489	310	22.6	130	394	.36	1.05	1.03	1.55	9.34	8.70
290	0547	1602.7	13.5	2.41	2.34	105	37.4	2730	1582.7	9.01	9.00	699	-0	28.9	46.6	426	144640	310	22.6	715	394	.36	1.40	1.38	1.55	9.34	8.70
291	0549	1603.3	11.3	2.03	2.03	107	38.6	2720	1582.9	9.01	9.00	698	-0	28.9	46.6	426	144842	311	22.6	763	394	.36	1.46	1.45	1.55	9.35	8.70
292	0550	1603.6	9.51	2.14	2.14	107	38.3	2720	1583.3	8.99	8.99	698	-0	29.0	46.8	427	144989	311	22.7	411	394	.36	1.51	1.50	1.55	9.35	8.70
293	0551	1603.9	29.9	2.26	2.32	106	40.1	2720	1583.6	8.99	8.99	698	-0	29.0	46.8	427	145059	311	22.7	307	394	.36	1.20	1.19	1.55	9.35	8.70
294	0552	1604.2	18.3	2.12	2.12	107	38.2	2730	1583.9	8.99	8.99	699	-0	29.0	46.8	426	145153	312	22.7	252	393	.36	1.32	1.31	1.55	9.35	8.70
295	0553	1604.5	18.3	2.06	2.06	106	37.5	2730	1584.3	8.99	9.02	699	-0	28.9	46.8	426	145259	312	22.7	344	393	.36	1.31	1.30	1.55	9.35	8.70
296	0553	1604.8	23.5	1.98	1.98	107	37.1	2710	1584.5	8.99	9.02	699	-0	28.9	46.8	427	145325	312	22.7	303	393	.36	1.24	1.23	1.55	9.35	8.70
297	0558	1605.1	24.6	1.17	1.03	104	38.1	2850	1585.4	9.00	9.00	669	-0	29.2	46.8	444	145376	312	22.7	191	393	.36	1.23	1.22	1.55	9.33	8.70
298	0559	1605.7	48.3	2.30	2.30	104	27.0	2820	1585.7	9.00	9.00	702	-0	29.2	46.8	441	145439	313	22.7	96	392	.36	.94	.93	1.55	9.34	8.70
299	0600	1606.0	21.3	2.10	2.10	110	39.6	2830	1586.0	9.00	9.00	709	-0	29.2	46.8	438	145530	313	22.8	230	392	.36	1.30	1.29	1.55	9.34	8.70
300	0601	1606.3	18.9	2.22	2.20	112	37.7	2820	1586.3	9.00	9.00	712	-0	29.2	46.8	436	145637	314	22.8	235	392	.36	1.32	1.31	1.55	9.34	8.70

AMOCO AUST. Tilana No.1

329133

Data Printed at time 16:29 Date Oct 9 5
Data Recorded at time 06:01 Date Sep 1. 85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
301	0601	1606.6	24.6	2.17	2.17	112	39.5	2810	1586.6	9.00	9.01	712	-0	30.0	47.0	433	145724	314	22.8	287	392	.36	1.27	1.25	1.55	9.35	8.70
302	0602	1606.9	23.5	2.34	2.30	110	40.0	2820	1586.8	9.00	9.01	712	-0	30.0	47.0	434	145791	314	22.8	173	392	.36	1.28	1.26	1.55	9.35	8.70
303	0604	1607.3	14.9	1.91	1.91	111	37.1	2830	1587.4	9.00	9.01	712	-0	30.0	47.0	432	145985	315	22.8	412	391	.36	1.38	1.37	1.55	9.35	8.70
304	0606	1607.9	14.4	2.24	2.24	112	37.5	2810	1588.2	9.01	9.01	712	-0	29.2	46.8	430	146225	315	22.9	925	391	.36	1.40	1.38	1.55	9.34	8.70
305	0606	1608.1	43.8	2.48	2.48	111	39.3	2820	1588.3	9.01	9.01	712	-0	29.2	46.8	429	146260	316	22.9	107	391	.36	1.10	1.08	1.55	9.34	8.70
306	0607	1608.4	19.4	1.95	1.95	110	35.6	2820	1588.6	9.01	9.00	711	-0	29.1	46.6	428	146370	316	22.9	319	391	.36	1.29	1.27	1.55	9.35	8.70
307	0609	1608.8	11.7	2.03	2.01	110	37.0	2820	1589.1	9.01	9.00	711	-0	29.1	46.6	428	146579	316	22.9	830	391	.36	1.45	1.43	1.55	9.34	8.70
308	0611	1609.0	8.50	2.19	2.17	112	37.3	2820	1589.5	9.01	9.03	711	-0	28.9	46.7	428	146735	317	22.9	393	391	.36	1.54	1.53	1.55	9.34	8.70
309	0612	1609.7	13.5	1.97	1.97	110	36.4	2820	1590.0	9.01	9.03	711	-0	28.9	46.7	427	146907	317	23.0	746	391	.36	1.40	1.38	1.55	9.34	8.70
310	0614	1610.0	10.7	1.95	1.95	111	37.6	2830	1590.6	9.01	9.10	712	-0	29.1	46.6	426	147108	317	23.0	799	391	.36	1.48	1.47	1.55	9.33	8.70
311	0615	1610.3	17.9	1.98	1.98	113	37.6	2830	1590.9	9.01	9.10	712	-0	29.1	46.6	424	147196	318	23.0	282	391	.36	1.34	1.33	1.55	9.33	8.70
312	0616	1610.6	21.8	1.95	1.95	114	35.2	2890	1591.2	9.01	9.09	715	-0	28.9	46.8	425	147299	318	23.0	221	390	.36	1.26	1.25	1.55	9.33	8.70
313	0618	1610.9	11.0	2.17	2.17	114	35.8	2910	1592.0	9.02	9.07	720	-0	28.8	46.9	424	147520	318	23.0	163	391	.36	1.46	1.44	1.55	9.33	8.70
314	0619	1611.2	13.1	2.05	2.05	112	34.3	2920	1592.2	9.02	9.07	720	-0	28.8	46.9	423	147661	319	23.1	429	391	.36	1.39	1.38	1.55	9.33	8.70
315	0620	1611.5	13.2	1.99	1.99	113	35.0	2910	1592.5	9.03	9.03	722	-0	28.9	47.0	424	147814	319	23.1	417	391	.36	1.40	1.39	1.55	9.32	8.70
316	0622	1612.2	17.9	1.91	1.91	113	35.1	2900	1593.1	9.03	9.03	721	-0	28.9	47.0	424	148017	320	23.1	444	390	.36	1.32	1.30	1.54	9.32	8.70
317	0623	1612.4	10.9	2.00	2.00	111	35.7	2880	1593.7	9.01	8.99	720	-0	28.8	47.2	422	148177	320	23.1	6850	390	.36	1.46	1.44	1.54	9.31	8.70
318	0624	1612.7	22.6	2.02	2.02	112	35.0	2900	1593.9	9.01	8.99	720	-0	28.8	47.2	421	148256	320	23.2	198	390	.36	1.25	1.24	1.55	9.31	8.70
319	0625	1613.0	13.5	2.25	2.25	113	38.1	2930	1594.4	9.04	8.96	720	-0	28.6	46.9	421	148416	320	23.2	330	390	.36	1.43	1.41	1.54	9.31	8.70
320	0626	1613.4	22.6	2.09	2.09	113	36.3	2920	1594.7	9.04	8.96	721	-0	28.6	46.9	421	148529	321	23.2	138	390	.36	1.27	1.25	1.54	9.31	8.70
321	0628	1613.9	14.4	2.07	2.07	114	37.7	2930	1595.1	9.06	8.98	720	-0	28.3	46.9	420	148700	321	23.2	251	390	.36	1.41	1.40	1.54	9.30	8.70
322	0635	1614.3	32.3	1.68	1.68	111	13.4	2830	1596.2	9.04	8.98	620	0	28.2	46.6	388	148852	322	23.2	215	390	.37	.90	.88	1.54	9.28	8.70
323	0637	1615.0	18.8	2.29	2.29	110	40.6	2800	1596.8	9.02	8.98	699	-0	28.1	46.7	379	149013	322	23.3	298	389	.37	1.36	1.34	1.54	9.29	8.70
324	0638	1615.4	25.1	2.39	2.39	111	40.4	2780	1597.1	9.02	8.98	701	-0	28.1	46.7	374	149125	323	23.3	202	389	.37	1.27	1.26	1.54	9.29	8.70
325	0639	1615.8	18.5	2.18	2.18	111	39.1	2780	1597.4	9.04	8.99	702	-0	27.9	47.1	373	149247	323	23.3	277	389	.37	1.35	1.34	1.54	9.28	8.70
326	0640	1616.1	13.5	2.32	2.32	111	39.8	2780	1597.8	9.04	8.99	702	-0	27.9	47.1	370	149379	324	23.3	348	389	.37	1.45	1.43	1.54	9.28	8.70
327	0640	1616.5	42.4	2.18	1.03	114	38.7	2780	1597.9	9.04	8.99	702	-0	27.9	47.1	370	149442	324	23.3	137	389	.37	1.12	1.10	1.54	9.28	8.70
328	0642	1616.7	15.8	2.26	2.26	111	38.3	2780	1598.3	9.03	8.99	701	-0	27.8	47.0	369	149565	324	23.3	1008	389	.37	1.39	1.37	1.54	9.27	8.70
329	0643	1617.0	11.4	2.21	2.21	112	37.3	2760	1598.5	9.03	8.99	701	-0	27.8	47.0	366	149693	324	23.4	295	388	.37	1.47	1.46	1.54	9.27	8.70
330	0644	1617.3	16.1	2.17	2.17	111	36.2	2770	1598.9	9.02	9.02	702	-0	27.6	46.6	366	149819	325	23.4	321	388	.37	1.36	1.35	1.54	9.26	8.70
331	0645	1617.6	12.6	2.20	2.20	111	36.5	2770	1599.5	9.02	9.02	701	-0	27.6	46.6	363	149988	325	23.4	343	388	.37	1.43	1.42	1.54	9.26	8.70
332	0646	1617.9	26.1	2.22	2.22	111	39.7	2760	1599.8	9.03	9.03	701	-0	27.6	46.7	364	150076	325	23.4	212	388	.37	1.26	1.24	1.54	9.26	8.70
333	0648	1618.2	12.1	2.26	2.26	111	39.7	2750	1600.1	9.03	9.03	702	-0	27.6	46.7	364	150235	326	23.5	402	388	.37	1.48	1.47	1.54	9.26	8.70
334	0648	1618.6	27.9	2.16	2.16	111	38.6	2750	1600.2	9.03	9.03	701	-0	27.6	46.7	364	150320	326	23.5	176	388	.37	1.23	1.22	1.54	9.26	8.70
335	0651	1619.1	8.31	2.14	2.14	112	38.4	2770	1601.2	9.04	9.01	701	-0	27.6	46.6	364	150626	327	23.5	672	388	.37	1.58	1.56	1.54	9.25	8.70
336	0652	1619.4	11.7	2.29	2.29	111	39.4	2770	1601.4	9.05	9.02	702	-0	27.6	46.8	366	150743	327	23.5	326	388	.37	1.49	1.48	1.54	9.24	8.70
337	0653	1619.7	47.5	2.23	2.23	111	40.9	2750	1601.5	9.05	9.02	702	-0	27.6	46.8	366	150787	327	23.5	199	388	.37	1.10	1.08	1.54	9.24	8.70
338	0654	1620.0	9.38	2.14	2.14	111	40.9	2750	1601.7	9.04	9.01	703	-0	27.7	46.7	371	151004	327	23.6	362	388	.37	1.57	1.56	1.55	9.24	8.70
339	0655	1620.4	19.0	2.19	2.19	110	39.2	2750	1602.2	9.04	9.01	703	-0	27.7	46.7	374	151117	328	23.6	268	388	.37	1.35	1.33	1.54	9.23	8.70
340	0657	1620.6	11.2	2.16	2.16	112	39.4	2740	1602.9	9.04	9.01	702	-1	27.7	46.7	380	151277	328	23.6	459	388	.37	1.51	1.49	1.54	9.23	8.70
341	0658	1620.9	13.9	2.26	2.24	111	40.4	2740	1603.4	9.06	9.04	702	-0	27.6	46.9	381	151415	328	23.6	342	388	.37	1.45	1.44	1.54	9.22	8.70
342	0659	1621.2	16.7	2.30	2.30	111	39.8	2740	1603.8	9.06	9.04	702	-0	27.6	46.9	385	151542	329	23.6	288	388	.37	1.39	1.38	1.54	9.22	8.70
343	0701	1621.5	12.3	2.33	2.33	110	40.4	2750	1604.2	9.01	9.07	703	-0	27.5	46.8	388	151697	329	23.7	560	388	.37	1.49	1.47	1.54	9.22	8.70
344	0702	1621.8	16.3	2.31	2.31	110	39.5	2740	1604.5	9.01	9.07	703	-0	27.5	46.8	392	151819	329	23.7	285	387	.37	1.40	1.38	1.54	9.21	8.70
345	0703	1622.2	11.9	2.27	2.27	110	40.9	2740	1604.9	9.01	9.07	703	-0	27.3	46.8	395	151990	330	23.7	661	388	.37	1.51	1.49	1.54	9.21	8.70
346	0705	1622.5	15.2	2.20	2.20	111	39.6	2740	1605.2	9.01	9.07	703	-0	27.3	46.8	400	152120	330	23.7	323	387	.37	1.42	1.41	1.54	9.21	8.70
347	0705	1622.8	21.6	2.25	2.25	110	38.4	2720	1605.4	9.01	9.07	703	-0	27.3	46.8	401	152197	330	23.7	234	387	.37	1.31	1.29	1.54	9.21	8.70
348	0706	1623.2	57.5	2.14	2.14	111	36.0	2730	1605.6	9.01	9.07	702	-0	27.3	46.8	402	152248	330	23.8	230	387	.37	1.01	.99	1.54	9.21	8.7
349	0713	1624.0	18.6	1.35	1.03	114	37.7	2890	1606.7	9.01	9.07	687	-0	27.3	46.4	434	152451	331	23.8	$	387	.37	1.36	1.34	1.54	9.19	8.7
350	0714	1624.9	17.9	2.19	2.19	108	38.5	2880	1606.9	9.01	9.07	716	-0	27.3	46.4	428	152574	332	23.8	216	386	.37	1.36	1.34	1.54	9.20	8.

AMOCO AUST. Tilana No.1 329134 Data Printed at time 16:33 Date Oct 9 '85
Data Recorded at time 07:15 Date Sep 13 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
351	0715	1625.2	21.6	2.26	2.26	109	40.6	2880	1607.2	9.00	9.09	718	-0	27.8	46.3	429	152665	333	23.8	216	386	.37	1.33	1.31	1.54	9.20	8.70
352	0716	1625.5	17.8	2.12	2.12	110	39.4	2880	1607.6	9.00	9.09	718	-0	27.8	46.3	432	152807	333	23.8	1963	385	.37	1.37	1.36	1.54	9.20	8.70
353	0718	1625.9	18.3	2.06	2.06	108	37.8	2870	1608.0	9.03	9.04	718	-0	27.1	46.9	434	152951	333	23.9	872	386	.37	1.34	1.33	1.54	9.20	8.70
354	0718	1626.1	26.6	2.04	2.04	108	36.1	2870	1608.2	9.03	9.04	718	-0	27.1	46.9	433	153030	334	23.9	170	385	.37	1.22	1.20	1.54	9.20	8.70
355	0720	1626.4	10.3	2.34	2.34	110	37.6	2870	1608.6	9.03	9.04	717	-0	27.1	46.9	436	153225	334	23.9	312	385	.37	1.51	1.50	1.54	9.20	8.70
356	0722	1626.8	15.9	2.25	2.25	110	38.6	2860	1608.9	9.02	9.03	719	-0	27.2	46.7	437	153387	334	23.9	424	385	.37	1.40	1.38	1.54	9.20	8.70
357	0722	1627.0	55.1	2.11	2.11	109	38.2	2870	1609.0	9.02	9.03	718	-0	27.2	46.7	438	153415	334	23.9	165	385	.37	1.03	1.02	1.54	9.21	8.70
358	0724	1627.3	8.68	2.13	2.13	110	36.0	2850	1609.4	9.02	9.08	719	-0	27.1	46.7	443	153634	335	24.0	356	385	.37	1.54	1.52	1.54	9.21	8.70
359	0725	1627.7	18.5	2.02	2.02	110	36.7	2870	1609.8	9.02	9.08	718	-0	27.1	46.7	445	153760	335	24.0	302	385	.37	1.33	1.32	1.54	9.21	8.70
360	0726	1627.9	19.7	2.10	2.10	111	36.1	2870	1610.0	9.04	9.05	718	-0	27.5	46.6	445	153842	335	24.0	242	385	.37	1.31	1.30	1.54	9.21	8.70
361	0727	1628.3	18.4	2.01	2.01	110	35.4	2870	1610.3	9.04	9.05	718	-0	27.5	46.6	447	153970	336	24.0	198	385	.37	1.32	1.31	1.54	9.21	8.70
362	0729	1628.5	10.0	2.15	2.14	110	33.1	2860	1610.7	9.04	9.05	718	-0	27.5	46.6	451	154147	336	24.0	1141	385	.37	1.46	1.44	1.54	9.21	8.70
363	0730	1628.9	19.6	2.01	2.01	109	35.7	2880	1611.0	9.04	9.03	719	-0	27.5	46.9	455	154279	336	24.1	463	385	.37	1.30	1.29	1.54	9.21	8.70
364	0732	1629.5	17.6	2.06	2.06	110	35.1	2870	1611.5	9.04	9.03	720	-0	27.5	46.9	458	154479	337	24.1	656	385	.37	1.33	1.32	1.54	9.21	8.70
365	0733	1629.8	13.1	2.17	2.17	109	37.8	2900	1611.9	9.04	9.03	721	-0	27.5	46.9	463	154626	337	24.1	964	385	.37	1.44	1.43	1.54	9.21	8.70
366	0734	1630.1	10.6	2.26	2.29	110	38.0	2910	1612.3	9.03	9.04	724	-0	28.3	47.1	466	154763	338	24.1	342	385	.37	1.51	1.49	1.54	9.21	8.70
367	0736	1630.4	16.0	2.09	2.17	109	35.0	2920	1612.7	9.03	9.04	726	-0	28.3	47.1	469	154912	338	24.2	510	385	.37	1.35	1.34	1.54	9.21	8.70
368	0737	1631.0	15.6	2.05	2.05	109	36.9	2940	1613.2	9.03	9.07	726	-0	29.0	47.1	472	155097	338	24.2	645	385	.37	1.38	1.36	1.54	9.21	8.70
369	0739	1631.4	16.6	2.07	2.07	110	36.5	2920	1613.7	9.03	9.04	726	-0	29.3	47.3	472	155257	339	24.2	372	385	.37	1.36	1.34	1.54	9.21	8.70
370	0742	1631.9	10.8	2.15	2.15	109	37.8	2910	1614.5	9.03	9.02	725	-0	29.5	47.3	470	155559	339	24.3	1042	385	.37	1.49	1.48	1.54	9.21	8.70
371	0743	1632.2	11.3	2.28	2.30	110	36.6	2830	1614.9	9.03	9.02	716	-0	29.5	47.3	471	155681	340	24.3	311	384	.37	1.47	1.46	1.54	9.21	8.70
372	0744	1632.5	11.5	2.27	2.26	109	38.9	2820	1615.4	9.04	9.05	713	-0	29.7	47.5	471	155855	340	24.3	329	384	.37	1.49	1.48	1.54	9.21	8.70
373	0746	1632.9	18.4	2.09	2.09	110	36.2	2810	1615.7	9.04	9.05	713	-0	29.7	47.5	459	155992	340	24.3	248	384	.38	1.33	1.31	1.53	9.21	8.70
374	0752	1633.5	17.9	1.39	1.39	112	22.5	2620	1616.9	9.03	9.02	602	-0	29.5	47.3	461	156188	341	24.3	732	384	.38	1.18	1.16	1.54	9.19	8.70
375	0753	1634.1	29.6	2.29	2.28	111	33.0	2650	1617.1	9.04	9.02	677	-0	28.0	47.2	457	156293	341	24.4	215	384	.38	1.16	1.15	1.54	9.20	8.70
376	0755	1634.3	10.6	2.45	2.45	111	38.2	2660	1617.4	9.04	9.02	688	-0	28.0	47.2	457	156447	342	24.4	392	384	.38	1.51	1.49	1.54	9.21	8.70
377	0756	1634.6	9.97	2.17	2.17	110	35.8	2650	1617.8	9.07	9.05	690	-0	28.8	47.2	448	156653	342	24.4	487	384	.38	1.50	1.48	1.54	9.21	8.70
378	0758	1635.0	14.8	2.25	2.25	111	37.7	2650	1618.1	9.07	9.06	690	-0	28.6	47.1	450	156825	342	24.4	430	384	.38	1.41	1.39	1.53	9.21	8.70
379	0759	1635.4	14.7	2.24	2.24	112	36.6	2660	1618.5	9.07	9.06	690	-0	28.7	47.1	452	156984	343	24.5	596	384	.38	1.40	1.39	1.53	9.21	8.70
380	0802	1635.9	12.3	2.41	2.41	110	36.1	2640	1619.1	9.08	9.03	691	-0	28.7	46.5	460	157237	343	24.5	298	384	.38	1.44	1.43	1.53	9.20	8.70
381	0803	1636.2	20.3	2.15	2.15	111	34.0	2660	1619.4	9.08	9.03	691	-0	28.7	46.5	461	157371	344	24.5	311	384	.38	1.28	1.27	1.53	9.21	8.70
382	0804	1636.5	11.2	2.07	2.07	113	33.8	2660	1619.9	9.07	9.00	691	-0	28.8	46.4	466	157534	344	24.6	406	384	.38	1.45	1.43	1.53	9.20	8.70
383	0807	1636.8	8.84	2.24	2.24	111	36.6	2660	1620.6	9.05	9.01	691	-0	29.1	46.1	471	157779	344	24.6	669	384	.38	1.54	1.53	1.53	9.20	8.70
384	0808	1637.1	10.6	2.09	2.09	112	35.0	2660	1620.6	9.05	9.01	691	-0	29.1	46.1	475	157967	345	24.6	448	384	.38	1.48	1.46	1.53	9.20	8.70
385	0809	1637.4	13.2	2.25	2.26	113	38.6	2650	1621.0	9.01	9.02	690	-0	29.3	46.1	478	158094	345	24.6	310	384	.38	1.46	1.44	1.53	9.20	8.70
386	0811	1637.7	10.2	2.29	2.29	110	37.6	2670	1621.7	9.01	9.02	691	-0	29.3	46.1	481	158294	345	24.7	626	384	.38	1.51	1.50	1.53	9.20	8.70
387	0812	1638.0	16.9	2.04	2.04	111	34.9	2660	1622.0	9.02	9.03	691	-0	29.2	46.0	481	158420	345	24.7	458	384	.38	1.34	1.33	1.53	9.20	8.70
388	0813	1638.3	20.8	2.22	2.22	110	33.9	2660	1622.2	9.02	9.03	691	-0	29.2	46.0	484	158515	346	24.7	274	384	.38	1.27	1.26	1.53	9.20	8.70
389	0815	1638.7	16.2	2.11	2.11	110	34.5	2660	1622.6	9.01	9.02	691	-0	29.3	46.1	487	158683	346	24.7	815	384	.38	1.35	1.33	1.53	9.20	8.70
390	0818	1639.2	10.5	2.11	2.11	110	33.9	2640	1623.3	9.09	9.04	691	-0	29.4	46.2	501	159016	347	24.8	283	384	.38	1.46	1.45	1.53	9.20	8.70
391	0820	1639.5	7.95	1.98	1.98	111	33.7	2650	1624.0	9.09	9.04	691	-0	29.5	45.8	523	159232	347	24.8	809	384	.38	1.54	1.52	1.53	9.20	8.70
392	0821	1639.8	13.5	2.12	2.12	110	31.9	2650	1624.2	9.09	9.04	691	-0	29.5	45.8	525	159375	347	24.8	313	384	.38	1.37	1.35	1.53	9.20	8.70
393	0822	1640.3	19.7	2.18	1.03	110	33.4	2660	1624.4	9.09	9.04	691	-0	29.5	45.8	526	159522	348	24.8	255	384	.38	1.28	1.26	1.53	9.20	8.70
394	0825	1640.8	13.5	2.25	2.25	110	35.6	2650	1625.0	9.07	9.03	691	-0	29.1	45.6	527	159770	348	24.9	319	384	.38	1.41	1.40	1.53	9.20	8.70
395	0828	1641.3	9.80	2.22	2.22	110	35.1	2650	1625.9	9.06	9.04	691	-0	28.9	45.5	526	160101	349	24.9	489	384	.38	1.50	1.48	1.53	9.19	8.70
396	0829	1641.7	14.0	2.18	2.18	109	34.8	2620	1626.2	9.05	9.06	691	-0	29.0	45.7	527	160240	349	25.0	342	384	.38	1.39	1.37	1.53	9.20	8.70
397	0830	1642.0	20.4	2.24	2.24	108	36.0	2630	1626.5	9.05	9.06	690	-0	29.0	45.7	526	160335	349	25.0	770	384	.38	1.29	1.28	1.53	9.20	8.70
398	0832	1642.3	7.43	2.24	2.24	109	34.7	2640	1627.0	9.04	9.04	691	-0	29.2	45.8	524	160606	350	25.0	8678	384	.38	1.57	1.55	1.53	9.20	8.70
399	0833	1642.6	17.2	2.36	2.36	110	34.6	2640	1627.2	9.04	9.04	692	-0	29.2	45.8	526	160707	350	25.0	604	384	.38	1.33	1.32	1.53	9.19	8.70
400	0834	1643.0	13.7	2.19	2.19	110	34.5	2870	1627.5	9.04	9.04	681	-0	29.2	45.8	523	160747	350	25.0	246	384	.38	1.39	1.38	1.53	9.19	8.70

AMOCO AUST. Tilana No.1 329135

Data Printed at time 16:37 Date Oct 9 85
Data Recorded at time 08:40 Date Sep 15 85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
401	0840	1643.5	16.2	2.58	2.58	107	37.2	2570	1628.2	9.01	9.03	671	-0	29.3	45.8	535	160807	351	25.0	84	383	.38	1.35	1.33	1.53	9.19	8.70
402	0841	1643.8	11.5	2.19	2.19	106	35.7	2580	1628.6	9.06	9.03	680	-0	29.3	45.7	530	160971	351	25.1	403	383	.38	1.45	1.43	1.53	9.20	8.70
403	0842	1644.2	28.3	2.21	2.21	107	35.6	2600	1628.8	9.06	9.03	682	-0	29.3	45.7	525	161069	352	25.1	363	383	.38	1.19	1.18	1.53	9.20	8.70
404	0845	1644.7	11.9	2.42	2.42	107	34.7	2590	1629.3	9.04	9.01	684	-0	29.7	46.0	517	161346	352	25.1	1279	383	.38	1.42	1.41	1.53	9.21	8.70
405	0846	1645.0	17.4	2.27	2.27	107	37.3	2580	1629.5	9.04	9.01	683	-0	29.7	46.0	513	161469	352	25.1	323	383	.38	1.35	1.33	1.53	9.21	8.70
406	0848	1645.3	8.27	2.80	2.80	107	39.4	2580	1629.9	9.00	9.00	683	-0	29.8	45.9	514	161680	353	25.2	497	383	.38	1.59	1.57	1.53	9.21	8.70
407	0849	1645.6	16.6	2.19	2.19	106	39.5	2580	1630.2	9.00	9.00	683	-0	29.8	45.9	509	161808	353	25.2	363	383	.38	1.38	1.37	1.53	9.21	8.70
408	0851	1646.1	12.5	2.02	2.02	107	38.1	2600	1630.8	9.05	9.00	682	-0	29.9	46.0	506	162052	353	25.2	2823	384	.38	1.45	1.44	1.53	9.20	8.70
409	0901	1646.5	3.95	2.12	2.12	108	38.6	2670	1632.9	9.02	8.98	695	-0	30.0	45.8	496	163104	354	25.4	$	385	.39	1.79	1.78	1.53	9.20	8.70
410	0907	1647.1	5.45	2.19	2.19	116	39.2	2680	1634.0	8.98	8.97	695	-0	30.0	45.7	491	163765	355	25.5	799	386	.39	1.73	1.71	1.53	9.20	8.70
411	0911	1647.5	5.33	2.[illegible]	1.03	117	37.9	2680	1635.0	9.01	8.98	695	-0	29.9	45.5	485	164245	355	25.6	2114	386	.39	1.72	1.70	1.53	9.20	8.70
412	0912	1647.7	13.5	2.64	2.64	115	38.5	2690	1635.3	9.00	8.97	696	-0	29.7	45.6	484	164388	355	25.6	368	386	.39	1.46	1.44	1.53	9.20	8.70
413	0913	1648.1	26.8	2.34	2.34	115	36.1	2690	1635.5	9.00	8.97	696	-0	29.7	45.6	482	164476	355	25.6	236	386	.39	1.23	1.22	1.53	9.20	8.70
414	0913	1648.4	23.4	2.17	2.17	115	36.2	2690	1635.6	9.00	8.97	696	-0	29.7	45.6	484	164547	356	25.6	274	386	.39	1.27	1.26	1.53	9.20	8.70
415	0914	1648.9	34.4	2.22	2.22	116	34.8	2690	1635.8	9.00	8.97	696	-0	29.7	45.6	482	164643	356	25.6	224	386	.39	1.15	1.14	1.53	9.20	8.70
416	0915	1649.3	12.8	2.49	2.49	116	34.1	2700	1636.0	9.01	8.97	696	-0	29.6	45.4	481	164788	357	25.6	319	385	.39	1.42	1.40	1.53	9.20	8.70
417	0916	1649.6	24.6	2.42	2.42	114	34.4	2690	1636.2	9.01	8.97	696	-0	29.6	45.4	480	164880	357	25.7	339	385	.39	1.24	1.22	1.53	9.20	8.70
418	0917	1650.0	19.8	2.24	2.24	115	34.9	2690	1636.3	9.01	8.97	696	-0	29.6	45.4	479	164979	357	25.7	257	385	.39	1.30	1.29	1.53	9.20	8.70
419	0918	1650.5	21.4	2.37	2.37	115	34.9	2700	1636.6	9.03	8.98	697	-0	29.7	45.1	478	165133	358	25.7	274	385	.39	1.28	1.27	1.53	9.21	8.70
420	0919	1650.9	34.1	2.38	2.38	116	36.8	2700	1636.8	9.03	8.98	696	-0	29.7	45.1	476	165220	358	25.7	205	385	.39	1.17	1.16	1.53	9.21	8.70
421	0920	1651.4	30.9	2.39	1.03	116	37.1	2710	1637.0	9.03	8.98	697	-0	29.7	45.1	476	165323	359	25.7	63	384	.39	1.21	1.19	1.53	9.21	8.70
422	0921	1651.8	29.7	2.25	2.25	117	34.0	2700	1637.2	9.03	8.97	697	-0	29.3	45.2	475	165408	359	25.7	219	384	.39	1.19	1.17	1.54	9.21	8.70
423	0927	1652.4	17.7	1.29	1.03	117	33.4	2570	1637.7	9.03	8.97	547	-0	29.3	45.2	498	165475	360	25.7	164	384	.39	1.33	1.31	1.54	9.19	8.70
424	0928	1653.3	28.1	2.44	2.44	112	36.0	2570	1637.9	9.01	8.96	665	-0	29.4	45.1	490	165582	361	25.8	176	383	.39	1.21	1.20	1.54	9.21	8.70
425	0929	1653.5	35.1	2.38	2.38	111	35.7	2570	1638.0	9.01	8.96	673	-0	29.4	45.1	487	165638	361	25.8	258	383	.39	1.14	1.13	1.54	9.21	8.70
426	0930	1653.8	11.1	2.28	2.28	113	36.1	2530	1638.4	8.97	9.01	675	-0	30.5	44.9	479	165844	361	25.8	299	383	.39	1.48	1.46	1.54	9.22	8.70
427	0931	1654.2	115	2.55	2.55	113	34.7	2530	1638.5	8.97	9.01	675	-0	30.5	44.9	475	165864	362	25.8	333	383	.39	.80	.79	1.54	9.22	8.70
428	0932	1654.5	11.8	1.97	1.03	112	32.2	2520	1638.9	8.97	9.01	674	-0	30.5	44.9	470	166041	362	25.8	527	382	.39	1.41	1.39	1.54	9.22	8.70

AMOCO AUST. Tilana No.1 329136 Data Printed at time 17:33 Date Oct 9 '85
Data Recorded at time 09:33 Date Sep 13 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST BM PR
429	0933	1654.8	17.3	2.31	2.31	114	31.9	2540	1639.2	8.98	8.95	674	-0	29.9	45.1	468	166169	362	25.8	313	382	.39	1.31	1.29	1.54	9.22	8.70
430	0934	1655.1	18.2	1.72	1.72	112	32.8	2530	1639.3	8.98	8.95	674	-0	29.9	45.1	467	166265	362	25.9	362	382	.39	1.29	1.28	1.54	9.22	8.70
431	0935	1655.4	57.7	2.26	2.26	113	32.8	2530	1639.4	8.98	8.95	674	-0	29.9	45.1	465	166302	363	25.9	103	382	.39	.98	.97	1.54	9.22	8.70
432	0935	1655.7	40.7	2.20	2.20	110	32.0	2530	1639.4	8.98	8.95	674	-0	29.9	45.1	465	166359	363	25.9	165	382	.39	1.06	1.05	1.54	9.22	8.70
433	0935	1656.1	89.7	2.16	2.11	110	29.2	2530	1639.5	8.98	8.95	674	-0	29.9	45.1	465	166389	363	25.9	45	382	.39	.83	.81	1.54	9.22	8.70
434	0936	1656.6	36.8	2.52	2.52	113	30.5	2520	1639.6	8.98	8.96	673	-0	29.2	45.2	468	166471	364	25.9	166	381	.39	1.08	1.07	1.54	9.22	8.70
435	0937	1656.9	33.9	2.49	2.49	110	33.1	2520	1639.7	8.98	8.96	673	-0	29.2	45.2	473	166522	364	25.9	151	381	.39	1.12	1.11	1.54	9.22	8.70
436	0937	1657.2	25.6	2.21	2.21	111	32.2	2530	1639.8	8.98	8.96	674	-0	29.2	45.2	480	166591	365	25.9	193	381	.39	1.19	1.18	1.54	9.22	8.70
437	0938	1657.5	35.1	1.86	1.86	112	31.6	2520	1639.8	8.98	8.96	675	-0	29.2	45.2	482	166641	365	25.9	171	380	.39	1.10	1.09	1.54	9.23	8.70
438	0939	1657.8	16.2	2.32	2.32	113	32.6	2520	1640.0	9.04	9.00	674	-0	29.1	45.2	491	166759	365	25.9	268	380	.39	1.33	1.31	1.54	9.22	8.70
439	0939	1658.1	45.1	2.14	2.14	112	34.5	2530	1640.1	9.04	9.00	674	-0	29.1	45.2	495	166803	366	25.9	170	380	.39	1.06	1.05	1.54	9.22	8.70
440	0940	1658.4	25.3	2.23	2.23	112	32.0	2530	1640.3	9.04	9.00	674	-0	29.1	45.2	499	166885	366	25.9	164	380	.39	1.20	1.18	1.54	9.23	8.70
441	0940	1658.8	29.0	2.27	2.27	111	32.0	2530	1640.4	9.04	9.00	674	-0	29.1	45.2	499	166960	366	26.0	192	380	.39	1.16	1.14	1.54	9.23	8.70
442	0941	1659.1	35.0	2.20	1.03	112	27.8	2530	1640.5	9.04	9.00	674	-0	29.1	45.2	498	167004	366	26.0	117	380	.39	1.06	1.05	1.54	9.23	8.70
443	0941	1659.3	70.3	2.24	2.24	112	30.4	2530	1640.6	9.04	9.00	674	-0	29.1	45.2	499	167026	367	26.0	88	379	.39	.90	.89	1.54	9.23	8.70
444	0941	1659.6	96.3	2.46	2.46	114	30.4	2530	1640.6	9.04	9.00	674	-0	29.1	45.2	498	167044	367	26.0	39	379	.39	.82	.81	1.54	9.23	8.70
445	0941	1660.0	52.5	2.05	2.05	112	32.3	2540	1640.7	9.04	9.00	674	-0	29.1	45.2	498	167081	367	26.0	89	379	.39	1.00	.99	1.54	9.23	8.70
446	0942	1660.3	67.7	2.57	2.57	109	30.0	2520	1640.8	9.02	9.05	674	-0	28.8	45.7	499	167106	368	26.0	66	379	.39	.90	.89	1.54	9.23	8.70
447	0942	1660.6	43.7	2.15	2.15	110	27.4	2600	1640.9	9.02	9.05	673	-0	28.8	45.7	498	167153	368	26.0	106	378	.39	1.00	.98	1.54	9.23	8.70
448	0943	1660.9	25.2	2.00	2.00	113	29.7	2670	1641.1	9.02	9.05	682	-0	28.8	45.7	497	167227	368	26.0	185	378	.39	1.17	1.16	1.54	9.23	8.70
449	0943	1661.2	30.2	2.39	2.39	112	26.9	2660	1641.3	9.02	9.05	687	-0	28.8	45.7	499	167280	369	26.0	121	378	.39	1.09	1.08	1.54	9.23	8.70
450	0944	1661.6	75.0	1.85	1.03	110	24.2	2660	1641.4	9.02	9.05	688	-0	28.8	45.7	495	167319	369	26.0	140	378	.39	.83	.82	1.54	9.23	8.70
+ Circulate returns at 5452 ft. (1661.7m)																											
+ Run Wireline log at 5452'.																											
Open 12.25" hole to 17.5", run 13.375" casing, set casing shoe at 5418'.(1651.3m)																											
Drill cement to 5422', perform Leak-off test to 14.3ppg EMD. (1652.5m)																											
Date Sep 22 '85																											
455	1757	1662.7	15.7	2.53	4.28	64	18.9	1770	1653.0	8.80	9.06	815	707	14.6	38.1	482	64897	.91	14.9	498	34464	2.55	1.02	.96	1.86	9.17	8.70
456	1757	1663.0	35.0	2.10	3.86	67	19.8	1810	1653.0	8.80	9.06	814	700	14.6	38.1	478	64934	1.22	14.9	260	30417	2.55	.86	.79	1.86	9.18	8.70
457	1758	1663.3	27.7	2.62	3.64	72	20.1	1830	1653.0	8.80	9.06	812	713	14.6	38.1	477	64982	1.52	14.9	197	27184	2.55	.93	.86	1.86	9.18	8.70
458	1758	1663.6	54.5	1.99	2.43	73	19.3	1850	1653.0	8.77	9.03	811	712	14.7	38.1	475	65005	1.83	14.9	117	25437	2.55	.76	.69	1.86	9.18	8.70
459	1759	1663.9	42.1	1.70	2.16	73	17.2	1800	1653.0	8.77	9.03	810	683	14.7	38.1	476	65038	2.13	14.9	115	23718	2.55	.80	.73	1.86	9.18	8.70
460	1800	1664.2	25.9	1.76	2.16	78	17.3	1770	1653.0	8.78	9.04	815	708	14.6	38.0	471	65070	2.44	14.9	208	22367	2.55	1.16	1.10	1.86	9.19	8.70
+ Drill to 5460', perform Leak-off test, formation fractured at 14.6ppg EMD. (1664.1m).																											
Pull out of hole at 5460' to cut Core #1.																											
+ Drill 1' with junk-sub assembly.																											
CB#1 Diamond Boart CD 502, 8.5". Start depth 5461' (1664.5m).																											
Date Sep 23 '85																											
468	0850	1664.5	6.61	2.14	2.64	71	12.3	380	1664.5	8.78	8.75	165	171	14.1	34.6	398	167	.00	.0	673	5E+06	.00	1.28	1.33	1.89	8.83	8.70E
469	0852	1664.8	12.3	2.04	2.58	81	11.9	350	1664.5	8.78	8.75	183	184	14.1	34.6	396	286	.30	.1	418	36385	.00	1.16	1.18	1.89	8.82	8.70
472	0856	1665.7	15.9	2.40	3.11	90	11.8	330	1664.5	8.81	9.24	193	193	15.0	24.1	394	630	1.22	.1	275	8670	.00	1.11	1.12	1.89	8.85	8.70
475	0901	1666.6	8.27	1.95	3.03	89	13.4	320	1664.5	8.82	9.26	195	195	15.0	26.6	392	1085	2.13	.2	504	4892	.00	1.31	1.32	1.89	8.87	8.70
476	0902	1667.0	11.1	2.40	3.39	92	15.1	310	1664.5	8.82	9.26	196	196	15.0	26.6	391	1234	2.44	.2	375	4327	.00	1.28	1.29	1.89	8.88	8.70
477	0904	1667.3	13.8	2.26	3.32	104	14.3	320	1664.5	8.82	9.26	197	197	15.0	26.6	392	1383	2.70	.3	-412	3965	.00	1.24	1.23	1.89	8.88	8.70
478	0905	1667.6	20.5	2.39	3.68	103	15.1	320	1664.5	8.80	9.26	196	196	14.9	28.8	391	1464	3.04	.3	248	3594	.00	1.15	1.15	1.89	8.88	8.70
479	0906	1667.9	15.8	2.83	3.71	102	16.7	330	1664.5	8.80	9.26	196	196	14.9	28.8	392	1598	3.25	.3	484	3350	.00	1.25	1.24	1.89	8.89	8.70
480	0907	1668.2	14.0	2.44	3.61	102	16.4	310	1664.5	8.80	9.26	196	196	14.9	28.8	391	1710	3.65	.3	287	3005	.00	1.27	1.27	1.89	8.89	8.70
481	0908	1668.5	30.9	2.36	3.46	103	16.2	310	1664.5	8.80	9.26	197	197	14.9	28.8	391	1774	3.93	.3	194	2861	.00	1.06	1.06	1.89	8.90	8.70
482	0909	1668.8	12.0	2.38	3.59	103	17.3	310	1664.5	8.80	9.26	197	197	14.9	28.8	390	1936	4.25	.4	392	2614	.00	1.33	1.33	1.89	8.90	8.70
483	0910	1669.1	10.6	2.22	3.23	102	17.0	320	1664.5	8.81	9.27	196	197	14.9	29.6	390	2053	4.57	.4	305	2465	.00	1.35	1.35	1.89	8.91	8.70

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Data Recorded at time 09:12 Date Sep 23 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
484	0912	1669.4	15.9	2.13	3.25	104	17.5	310	1664.5	8.81	9.27	196	196	14.9	29.6	390	2172	4.87	.4	328	2335	.00	1.26	1.26	1.89	8.91	8.70
485	0913	1669.7	14.0	2.28	3.34	103	16.8	310	1664.5	8.81	9.27	197	197	14.9	29.6	389	2311	5.17	.4	468	2213	.00	1.28	1.27	1.89	8.92	8.70
488	0916	1670.6	12.9	2.07	3.23	103	17.1	320	1664.5	8.82	9.28	196	196	14.9	30.2	388	2668	6.10	.5	332	1926	.00	1.30	1.30	1.90	8.93	8.70
491	0921	1671.5	7.76	1.39	1.47	111	19.0	330	1664.5	8.81	9.28	194	194	14.8	30.6	387	3159	6.97	.5	755	1747	.00	1.50	1.48	1.90	8.95	8.70
492	0924	1671.8	5.86	1.47	1.60	111	18.8	350	1664.5	8.81	9.28	190	190	14.8	30.6	388	3482	7.31	.6	774	1688	.00	1.57	1.55	1.90	8.95	8.70
493	0927	1672.1	5.33	1.45	1.66	111	19.3	350	1664.5	8.83	9.25	190	190	14.9	31.3	388	3863	7.59	.7	898	1664	.00	1.60	1.59	1.90	8.96	8.70
494	0929	1672.5	9.09	1.48	1.62	110	19.6	370	1664.5	8.83	9.25	197	198	14.9	31.3	386	4080	7.92	.7	723	1634	.00	1.46	1.45	1.90	8.96	8.70
495	0945	1672.8	5.97	1.69	2.29	103	18.5	230	1664.5	8.81	9.23	104	102	14.9	31.4	397	4353	8.22	.7	655	1584	.00	1.55	1.54	1.90	8.86	8.70
496	0953	1673.4	6.33	1.70	2.62	79	18.7	410	1664.5	8.80	9.20	205	205	15.2	31.0	382	4930	8.82	.9	1473	1544	.00	1.45	1.48	1.90	8.98	8.70
499	1003	1674.3	6.93	1.59	2.26	90	19.4	390	1664.5	8.83	9.16	208	208	14.8	31.6	377	5786	9.71	1.0	865	1484	.01	1.47	1.48	1.90	9.00	8.70
502	1015	1675.2	6.65	1.90	2.53	88	18.6	380	1664.5	8.84	9.14	210	211	14.9	31.8	374	6874	10.7	1.2	824	1447	.01	1.46	1.47	1.90	9.02	8.70
503	1017	1675.5	8.10	1.59	2.48	92	19.2	380	1664.5	8.84	9.13	205	206	14.7	32.2	375	7070	11.0	1.2	641	1423	.01	1.43	1.44	1.90	9.02	8.70
504	1019	1675.8	7.44	1.83	2.84	88	18.4	380	1664.5	8.84	9.13	211	211	14.7	32.2	375	7284	11.3	1.3	808	1402	.01	1.42	1.44	1.90	9.03	8.70
505	1023	1676.1	5.83	1.63	2.25	90	19.0	380	1664.5	8.85	9.12	210	210	14.8	32.4	373	7565	11.6	1.3	728	1388	.01	1.50	1.52	1.90	9.03	8.70
506	1027	1676.4	4.42	1.74	2.40	89	18.8	410	1664.5	8.85	9.12	219	220	14.8	32.4	373	7942	11.9	1.4	1118	1384	.01	1.57	1.58	1.90	9.04	8.70
507	1031	1676.7	3.77	1.87	2.44	97	19.0	390	1664.5	8.86	9.12	221	221	14.8	32.5	371	8403	12.2	1.5	1400	1382	.01	1.64	1.64	1.90	9.05	8.70
508	1036	1677.0	4.37	1.86	2.52	100	19.3	410	1664.5	8.83	9.13	221	221	14.4	32.8	370	8845	12.5	1.6	1318	1378	.01	1.61	1.61	1.90	9.05	8.70
509	1038	1677.3	6.79	1.91	2.88	106	19.1	410	1664.5	8.87	9.14	220	219	14.4	32.9	369	9058	12.8	1.6	601	1356	.01	1.50	1.49	1.90	9.06	8.70
514	1052	1678.9	6.35	1.91	2.40	109	19.1	420	1664.5	8.83	9.12	222	222	14.1	33.2	363	10560	14.3	1.8	952	1295	.01	1.52	1.51	1.90	9.09	8.70
515	1054	1679.1	6.90	2.01	2.80	107	18.3	400	1664.5	8.83	9.12	220	221	14.1	33.2	361	10795	14.6	1.9	690	1279	.01	1.48	1.47	1.90	9.09	8.70
518	1058	1680.1	15.9	2.44	3.69	101	18.6	410	1664.5	8.84	9.12	223	223	14.1	33.1	359	11202	15.5	1.9	305	1226	.01	1.25	1.24	1.90	9.11	8.70
519	1059	1680.4	20.4	2.27	3.23	102	19.1	410	1664.5	8.84	9.12	222	222	14.1	33.1	359	11282	15.8	1.9	225	1206	.01	1.19	1.19	1.90	9.12	8.70
520	1101	1680.7	8.70	2.19	3.15	102	18.3	410	1664.5	8.84	9.11	222	222	14.1	32.9	362	11509	16.1	2.0	483	1195	.01	1.40	1.40	1.90	9.12	8.70
521	1103	1681.0	9.39	2.18	3.12	102	18.3	380	1664.5	8.84	9.11	223	223	14.1	32.9	362	11682	16.4	2.0	525	1184	.01	1.38	1.38	1.90	9.13	8.70
+ NB#9 SMITH SDGH 12.25" 3x15 jets. Ream cored rat-hole. Start depth 5519'. (1682.1m).																											
525	2136	1682.8	23.0	1.67	3.70	75	14.6	1940	1682.2	8.98	9.10	604	477	16.3	36.3	365	4847	.61	1.0	154	16964	.31	.95	.95	1.91	8.83	8.70
526	2137	1683.4	26.2	1.62	3.69	77	15.3	1940	1682.2	9.00	9.10	607	475	16.2	36.4	364	4906	1.20	1.0	214	12432	.31	.93	.94	1.91	8.83	8.70
527	2137	1683.7	23.1	1.46	1.70	77	13.3	1950	1682.2	9.00	9.10	607	470	16.2	36.4	362	4955	1.52	1.0	187	9641	.31	.93	.93	1.91	8.83	8.70
528	2138	1684.0	32.4	1.51	1.75	77	13.4	1950	1682.2	9.00	9.10	608	464	16.2	36.4	361	4998	1.83	1.1	190	8302	.32	.86	.86	1.91	8.83	8.70
529	2139	1684.4	35.7	1.56	1.76	77	15.5	1950	1682.2	8.89	9.08	608	463	15.7	36.3	360	5043	2.11	1.1	154	7045	.32	.86	.86	1.91	8.83	8.70
530	2139	1684.7	28.4	1.49	1.71	78	15.5	1950	1682.2	8.89	9.08	608	480	15.7	36.3	359	5078	2.41	1.1	141	6137	.32	.92	.92	1.91	8.84	8.70
531	2140	1684.9	13.5	1.47	1.63	77	17.1	1950	1682.2	8.94	9.08	608	468	15.6	36.2	356	5171	2.74	1.1	380	5454	.32	1.12	1.12	1.91	8.84	8.70
532	2141	1685.3	28.2	1.50	1.74	76	16.7	1950	1682.2	8.94	9.08	608	474	15.6	36.2	356	5216	3.05	1.1	162	4898	.33	.93	.93	1.91	8.85	8.70
533	2142	1685.5	18.4	2.41	5.97	75	13.8	1940	1682.2	8.94	9.08	608	474	15.6	36.2	354	5282	3.35	1.1	264	4497	.33	.98	.99	1.91	8.83	8.70
534	2142	1685.9	36.4	2.55	4.31	74	15.5	1950	1682.2	8.94	9.08	607	470	15.6	36.2	354	5317	3.65	1.1	178	4184	.33	.85	.85	1.91	8.84	8.70
535	2143	1686.2	21.4	1.49	1.95	78	14.4	1950	1682.2	8.94	9.08	608	463	15.6	36.2	354	5380	3.96	1.1	218	3845	.34	.97	.97	1.91	8.84	8.70
536	2143	1686.5	36.3	1.48	1.79	78	15.1	1950	1682.2	8.90	9.08	608	470	15.4	36.3	353	5421	4.26	1.1	138	3554	.34	.86	.86	1.91	8.84	8.70
537	2144	1686.8	23.0	1.48	1.72	77	15.1	1950	1682.2	8.90	9.08	608	471	15.4	36.3	354	5481	4.54	1.2	236	3354	.34	.95	.95	1.91	8.99	8.70
538	2146	1687.1	11.1	1.43	1.54	79	15.4	1950	1682.2	8.95	9.08	608	455	15.4	36.4	352	5597	4.88	1.2	516	3146	.35	1.12	1.12	1.91	8.99	8.70
539	2146	1687.4	16.3	1.45	1.51	78	14.9	1950	1682.2	8.95	9.08	608	457	15.4	36.4	352	5631	5.18	1.2	418	3077	.35	1.02	1.02	1.91	8.99	8.70
540	2148	1688.0	10.1	1.52	1.65	76	18.1	1950	1682.2	8.96	9.07	608	457	15.3	36.4	351	5743	5.79	1.2	359	2676	.36	1.18	1.18	1.92	8.99	8.70
541	2149	1688.3	20.0	1.42	1.56	78	15.5	1950	1682.2	8.96	9.07	608	452	15.3	36.4	351	5820	6.06	1.2	391	2582	.36	.99	.98	1.92	9.00	8.70
542	2150	1688.6	26.9	1.30	1.46	78	14.2	1950	1682.2	8.99	9.08	608	481	15.2	36.4	353	5838	6.40	1.2	232	2503	.36	.90	.90	1.92	8.95	8.70
543	2150	1688.9	19.5	1.30	1.46	78	14.2	1950	1682.2	8.99	9.08	608	517	15.2	36.4	355	5838	6.86	1.2	-232	2276	.36	.98	.98	1.92	8.94	8.70
544	2156	1689.6	27.4	1.50	1.73	85	15.7	1930	1682.2	8.94	9.11	604	462	16.0	36.1	354	5936	7.30	1.3	273	2160	.37	.93	.93	1.92	9.01	8.70
545	2157	1689.8	18.7	1.51	1.68	84	16.2	1930	1682.2	8.94	9.11	604	464	16.0	36.1	351	5994	7.60	1.3	194	2073	.37	1.03	1.02	1.92	9.01	8.70
546	2158	1690.2	19.8	1.49	1.64	85	15.9	1930	1682.2	8.96	9.12	604	496	15.6	36.2	349	6078	7.92	1.3	258	2003	.38	1.01	1.01	1.92	9.01	8.70
547	2159	1690.4	12.4	1.50	1.63	84	16.9	1930	1682.2	8.97	9.12	604	515	15.3	36.4	347	6182	8.23	1.3	583	1940	.38	1.13	1.13	1.92	9.02	8.70
548	2159	1690.8	30.2	1.51	1.79	84	16.0	1930	1682.2	8.97	9.12	604	508	15.3	36.4	346	6239	8.52	1.3	218	1886	.39	.91	.91	1.92	9.02	8.70
549	2201	1691.0	13.0	1.70	2.31	83	16.6	1940	1682.2	8.97	9.14	604	518	15.2	36.2	344	6336	8.84	1.3	327	1826	.39	1.11	1.11	1.92	9.03	8.70

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Data Recorded at time 22:01 Date Sep 23 '85

F#	TIME	DEPTH	ROP	TORQUE		RPM	WOB	PUMP	RTRNS	MW lb/gal		FLOW/MIN		TEMP (C)		PVT	THIS BIT			COST		EST	DXC	NX	NXB	ECD	EST
		m	m/hr	AVG	MAX	AVG	AVG	PRES	DEPTH	IN	OUT	IN	OUT	IN	OUT		REVS	m	hrs	INST	RUN	TW					FM PR
550	2201	1691.4	31.4	1.73	2.05	82	16.7	1930	1682.2	8.97	9.14	604	519	15.2	36.2	343	6389	9.13	1.3	243	1783	.40	.91	.90	1.92	9.03	8.70
551	2203	1691.7	11.6	1.77	2.16	82	17.3	1930	1682.2	8.92	9.13	604	529	15.0	36.4	343	6502	9.43	1.4	328	1726	.40	1.15	1.14	1.92	9.03	8.70
552	2204	1692.0	13.2	1.68	2.11	82	18.1	1930	1682.2	8.96	9.14	604	527	14.8	36.4	343	6614	9.70	1.4	385	1689	.41	1.13	1.12	1.92	9.03	8.70
553	2206	1692.3	8.75	1.65	1.95	83	17.5	1940	1682.2	8.91	9.13	604	531	14.8	36.5	342	6780	10.1	1.4	515	1648	.42	1.22	1.21	1.92	9.04	8.70
554	2208	1692.6	11.7	1.76	1.98	82	17.7	1930	1682.2	8.96	9.12	604	516	14.8	36.3	341	6907	10.4	1.5	384	1611	.43	1.15	1.15	1.92	9.04	8.70
555	2209	1692.9	9.16	1.61	1.83	83	18.7	1930	1682.2	8.95	9.12	603	524	14.8	36.3	340	7068	10.7	1.5	527	1581	.44	1.23	1.22	1.92	9.05	8.70
556	2212	1693.2	7.16	1.75	2.02	85	19.8	1930	1682.2	8.97	9.12	604	513	14.8	36.5	339	7289	11.0	1.5	592	1559	.45	1.31	1.30	1.92	9.05	8.70
557	2214	1693.5	13.3	1.85	2.10	88	22.8	1930	1682.2	8.93	9.11	605	509	14.8	36.7	339	7421	11.3	1.6	443	1529	.46	1.21	1.20	1.92	9.05	8.70
558	2214	1693.8	16.2	1.77	2.02	88	21.3	1940	1682.2	8.93	9.11	605	504	14.8	36.7	339	7498	11.6	1.6	274	1492	.46	1.14	1.13	1.92	9.05	8.70
559	2216	1694.1	13.9	1.90	2.35	88	21.9	1940	1682.2	8.92	9.11	605	511	14.9	36.6	338	7614	11.9	1.6	488	1474	.47	1.19	1.18	1.92	9.06	8.70
560	2218	1694.4	9.84	1.84	2.25	88	22.0	1940	1682.2	8.93	9.16	605	517	15.0	36.6	338	7774	12.2	1.6	480	1445	.48	1.28	1.27	1.92	9.06	8.70
561	2219	1694.7	14.4	1.94	2.43	87	22.7	1940	1682.2	8.94	9.16	605	514	15.1	36.5	337	7882	12.5	1.6	329	1413	.48	1.19	1.18	1.92	9.07	8.70
562	2220	1695.0	16.1	2.13	2.58	87	22.6	1940	1682.2	8.95	9.10	605	492	15.2	36.5	336	7991	12.8	1.7	404	1393	.49	1.16	1.15	1.92	9.07	8.70
563	2222	1695.3	8.21	2.15	3.29	88	23.1	1940	1682.2	8.95	9.09	605	496	15.2	36.4	336	8162	13.1	1.7	572	1369	.50	1.34	1.32	1.92	9.07	8.70
564	2224	1695.6	11.2	2.15	4.94	85	22.9	1940	1682.2	8.96	9.11	605	509	15.3	36.6	335	8300	13.4	1.7	572	1351	.51	1.25	1.24	1.92	9.08	8.70
565	2225	1695.9	13.3	2.01	4.46	86	22.7	1940	1682.2	8.94	9.09	605	514	15.2	36.5	335	8429	13.7	1.7	512	1331	.51	1.20	1.19	1.92	9.08	8.70
566	2227	1696.2	7.37	3.44	6.66	83	21.8	1930	1682.2	8.95	9.16	605	526	15.2	36.3	334	8612	14.0	1.8	764	1310	.53	1.33	1.32	1.92	9.08	8.70
567	2228	1696.5	14.8	2.10	5.45	82	20.5	1930	1682.2	8.95	9.16	605	520	15.2	36.3	334	8705	14.3	1.8	336	1288	.53	1.13	1.12	1.92	9.09	8.70
568	2230	1696.8	11.0	2.47	5.03	84	22.4	1930	1682.2	8.96	9.20	605	526	15.2	35.6	333	8845	14.6	1.8	426	1272	.54	1.24	1.23	1.92	9.09	8.70
569	2232	1697.2	9.88	2.76	6.55	82	22.4	1930	1683.4	8.95	9.20	605	535	15.1	35.8	333	9015	14.9	1.9	500	1259	.55	1.26	1.25	1.93	9.09	8.70
570	2234	1697.4	10.3	2.15	5.25	86	21.9	1940	1684.6	8.96	9.21	605	525	15.1	36.1	330	9150	15.2	1.9	481	1240	.55	1.25	1.24	1.93	9.08	8.70
571	2235	1697.7	14.2	2.22	3.56	85	21.1	1940	1685.5	8.98	9.25	605	558	15.1	36.5	331	9259	15.5	1.9	413	1227	.56	1.16	1.15	1.93	9.08	8.70
572	2236	1698.1	13.7	1.93	2.75	86	21.6	1940	1686.4	8.98	9.28	605	573	15.0	36.8	330	9385	15.8	1.9	405	1211	.57	1.18	1.17	1.93	9.08	8.70
573	2237	1698.3	13.3	1.77	2.19	89	21.9	1940	1686.8	8.98	9.28	605	564	15.0	36.8	329	9459	16.2	1.9	258	1189	.57	1.20	1.18	1.93	9.08	8.70
574	2243	1698.7	39.8	1.67	2.08	89	20.7	1910	1687.5	8.98	9.25	599	576	15.4	36.4	339	9491	16.4	2.0	129	1171	.57	.91	.90	1.93	9.08	8.70
575	2243	1699.0	28.7	1.44	1.52	75	15.5	1920	1687.5	8.98	9.25	601	572	15.4	36.4	337	9508	16.8	2.0	157	1157	.57	.95	.94	1.93	9.08	8.70
576	2244	1699.3	24.1	1.61	1.81	72	20.6	1920	1687.5	8.98	9.25	602	572	15.4	36.4	334	9568	17.1	2.0	203	1136	.58	.98	.98	1.93	9.08	8.70
577	2245	1699.6	35.6	1.62	2.01	72	21.0	1920	1687.5	8.98	9.25	602	584	15.4	36.4	333	9601	17.3	2.0	155	1122	.58	.89	.88	1.93	9.08	8.70
578	2245	1699.9	28.4	1.66	1.82	75	21.3	1920	1687.5	8.98	9.25	602	580	15.4	36.4	332	9641	17.7	2.0	145	1099	.58	.96	.95	1.93	9.09	8.70
579	2246	1700.2	17.4	1.62	1.80	81	20.9	1920	1687.5	8.98	9.24	603	570	15.3	36.4	328	9719	18.0	2.0	264	1084	.59	1.09	1.08	1.93	9.09	8.70
580	2246	1700.5	36.6	1.58	1.69	79	18.4	1920	1687.5	8.98	9.24	603	572	15.3	36.4	328	9751	18.2	2.0	277	1077	.59	.88	.87	1.93	9.09	8.70
581	2247	1700.8	24.2	1.56	1.88	79	20.3	1920	1687.5	8.98	9.24	603	581	15.3	36.4	327	9803	18.6	2.0	166	1057	.59	1.00	.99	1.93	9.10	8.70
582	2248	1701.1	18.6	1.49	1.65	81	19.9	1920	1687.7	8.99	9.30	603	561	15.0	36.3	326	9884	18.9	2.0	288	1042	.59	1.06	1.05	1.93	9.10	8.70
583	2249	1701.4	15.8	1.46	1.59	82	18.6	1920	1688.2	8.99	9.30	603	559	15.0	36.3	324	9986	19.2	2.1	365	1030	.60	1.08	1.07	1.93	9.10	8.70
584	2250	1701.7	30.3	2.15	5.26	78	21.1	1920	1688.3	9.00	9.26	602	559	14.9	36.4	323	10028	19.5	2.1	163	1016	.60	.95	.94	1.93	9.10	8.70
585	2251	1702.1	24.0	2.54	6.29	77	20.4	1920	1688.6	9.00	9.26	603	563	14.9	36.4	322	10090	19.8	2.1	228	1005	.60	.99	.99	1.93	9.10	8.70
586	2251	1702.3	31.8	1.54	1.79	80	20.8	1920	1688.7	9.00	9.26	603	560	14.9	36.4	322	10129	20.1	2.1	139	991	.61	.94	.93	1.93	9.10	8.70
587	2252	1702.6	22.5	1.44	1.53	81	17.5	1920	1688.9	8.98	9.21	603	554	14.9	36.7	323	10181	20.4	2.1	196	979	.61	.98	.97	1.93	9.10	8.70
588	2253	1702.9	19.7	1.51	1.61	82	19.2	1930	1689.2	8.98	9.21	604	547	14.9	36.7	322	10252	20.7	2.1	260	969	.61	1.04	1.03	1.93	9.10	8.70
589	2254	1703.2	19.2	1.66	2.06	81	20.3	1930	1689.4	9.01	9.19	603	539	14.9	36.8	322	10326	21.0	2.1	258	957	.62	1.06	1.05	1.93	9.10	8.70
590	2255	1703.6	21.7	2.30	4.39	88	20.2	1930	1689.7	9.01	9.19	605	538	14.9	36.8	321	10409	21.3	2.1	301	949	.62	1.05	1.03	1.93	9.10	8.70
591	2255	1703.9	26.2	3.32	6.10	84	18.5	1930	1689.9	8.99	9.19	605	543	14.8	36.7	321	10467	21.6	2.2	225	938	.62	.97	.96	1.93	9.10	8.70
592	2256	1704.1	12.8	3.72	5.73	85	20.0	1930	1690.2	8.99	9.19	604	543	14.8	36.7	320	10566	21.9	2.2	337	930	.63	1.17	1.15	1.93	9.10	8.70
593	2257	1704.4	27.6	3.46	6.43	82	20.2	1920	1690.4	9.01	9.20	604	543	14.7	36.5	320	10619	22.2	2.2	-188	920	.63	.97	.96	1.93	9.10	8.70
594	2258	1704.8	31.0	2.46	6.10	85	19.1	1930	1690.5	9.01	9.20	604	536	14.7	36.5	320	10669	22.5	2.2	167	911	.63	.94	.93	1.93	9.10	8.70
595	2258	1705.1	42.4	3.41	4.87	86	21.0	1930	1690.5	9.01	9.20	605	554	14.7	36.5	319	10708	22.8	2.2	142	904	.64	.89	.88	1.93	9.11	8.70
596	2259	1705.4	23.3	3.71	7.51	84	20.3	1930	1690.6	9.00	9.19	603	544	14.8	36.6	319	10768	23.2	2.2	176	891	.64	1.02	1.01	1.93	9.11	8.70
597	2300	1705.7	18.8	3.24	5.54	84	20.1	1930	1690.8	9.00	9.19	604	541	14.8	36.6	318	10847	23.5	2.2	260	883	.64	1.07	1.06	1.93	9.11	8.70
598	2301	1706.0	26.2	2.44	4.23	86	19.1	1920	1690.9	9.00	9.19	604	568	14.8	36.6	318	10914	23.7	2.2	225	873	.65	.98	.97	1.93	9.11	8.70
599	2301	1706.3	24.6	1.92	3.33	90	20.6	1930	1691.0	9.00	9.19	604	555	14.9	36.6	317	10971	24.1	2.3	190	863	.65	1.03	1.01	1.94	9.11	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
600	2302	1706.6	28.2	1.64	2.08	91	20.4	1930	1691.1	9.00	9.19	604	543	14.9	36.6	317	11025	24.4	2.3	160	854	.65	.99	.98	1.94	9.11	8.70
601	2302	1706.9	37.8	1.68	1.88	91	19.5	1930	1691.2	9.00	9.19	604	533	14.9	36.6	317	11063	24.7	2.3	138	845	.65	.91	.90	1.94	9.12	8.70
602	2303	1707.2	50.3	2.16	2.65	90	19.5	1930	1691.3	8.99	9.19	604	532	14.7	36.6	317	11099	25.0	2.3	160	841	.66	.84	.82	1.94	9.12	8.70
603	2303	1707.5	36.0	1.75	2.37	89	20.6	1930	1691.3	8.99	9.19	604	543	14.7	36.6	316	11138	25.3	2.3	125	828	.66	.93	.92	1.94	9.12	8.70
604	2304	1707.8	29.4	2.62	3.39	88	20.3	1930	1691.4	8.99	9.19	604	544	14.7	36.6	316	11190	25.6	2.3	150	820	.66	.97	.96	1.94	9.12	8.70
605	2304	1708.1	66.7	2.59	3.72	87	19.4	1940	1691.4	8.99	9.19	604	533	14.7	36.6	316	11213	25.9	2.3	102	813	.66	.76	.75	1.94	9.12	8.70
606	2311	1708.5	12.6	1.43	2.25	88	21.2	1970	1692.2	9.00	9.17	598	543	14.9	36.7	327	11284	26.2	2.3	253	804	.67	1.19	1.18	1.94	9.12	8.70
607	2311	1708.7	27.0	1.43	1.60	91	15.8	1970	1692.3	8.99	9.19	609	571	15.3	36.7	324	11327	26.5	2.3	276	796	.67	.94	.93	1.94	9.13	8.70
608	2312	1709.0	23.7	1.66	1.86	87	20.0	1970	1692.5	8.99	9.19	612	585	15.3	36.7	322	11398	26.8	2.3	251	791	.67	1.02	1.00	1.94	9.13	8.70
609	2313	1709.3	13.8	1.70	1.81	86	22.1	1980	1692.6	8.98	9.16	612	583	15.1	36.7	317	11480	27.1	2.4	264	785	.68	1.18	1.16	1.94	9.13	8.70
610	2314	1709.7	19.5	1.59	1.72	87	20.2	1980	1692.8	8.98	9.16	614	578	15.1	36.7	315	11567	27.4	2.4	278	778	.68	1.07	1.05	1.94	9.13	8.70
611	2315	1710.0	26.6	1.59	1.77	87	21.4	1980	1692.9	8.98	9.16	613	570	15.1	36.7	314	11615	27.7	2.4	197	774	.69	1.01	.99	1.94	9.13	8.70
612	2315	1710.3	31.0	1.54	1.84	89	18.7	1990	1693.1	8.96	9.14	614	553	14.7	36.5	313	11671	28.0	2.4	174	765	.69	.94	.93	1.94	9.14	8.70
613	2316	1710.5	27.4	1.50	1.64	103	16.7	2000	1693.2	8.96	9.14	615	562	14.7	36.5	311	11726	28.3	2.4	165	759	.69	.98	.96	1.94	9.14	8.70
614	2316	1710.9	70.2	1.73	2.01	101	21.9	2000	1693.3	8.96	9.14	616	556	14.7	36.5	311	11751	28.6	2.4	111	754	.69	.81	.79	1.94	9.14	8.70
615	2317	1711.2	30.9	1.64	1.92	102	20.6	1990	1693.4	8.98	9.13	616	555	14.6	36.2	310	11817	28.9	2.4	178	746	.70	1.00	.98	1.94	9.14	8.70
616	2318	1711.5	21.3	1.56	1.73	103	20.2	1990	1693.6	8.98	9.13	615	553	14.6	36.2	310	11902	29.3	2.4	213	740	.70	1.09	1.06	1.94	9.14	8.70
617	2318	1711.8	20.9	1.58	1.83	101	20.4	1990	1693.7	8.98	9.13	615	583	14.6	36.2	309	11966	29.6	2.4	193	735	.71	1.09	1.07	1.94	9.14	8.70
618	2319	1712.2	43.8	1.55	1.68	103	19.1	1990	1693.8	9.02	9.15	615	575	14.5	36.1	307	12024	29.9	2.4	68	728	.71	.90	.88	1.94	9.15	8.70
619	2319	1712.7	59.7	1.44	1.56	104	14.7	2000	1693.9	9.02	9.15	615	583	14.5	36.1	308	12069	30.5	2.5	78	716	.71	.78	.75	1.94	9.15	8.70
620	2326	1713.0	14.1	1.41	1.67	96	19.0	2040	1694.6	9.08	9.17	622	589	14.2	36.4	323	12183	30.8	2.5	371	711	.72	1.15	1.13	1.94	9.15	8.70
621	2327	1713.3	18.2	1.49	1.59	84	20.8	2040	1694.8	9.06	9.14	622	584	14.1	36.7	324	12273	31.1	2.5	348	708	.72	1.08	1.07	1.94	9.15	8.70
622	2328	1713.6	11.9	1.48	1.60	84	21.0	2040	1695.1	9.06	9.14	622	579	13.9	36.8	324	12381	31.4	2.5	407	704	.73	1.19	1.17	1.94	9.15	8.70
623	2329	1713.9	15.5	1.48	1.57	85	20.3	2050	1695.3	9.06	9.14	622	580	13.9	36.8	327	12480	31.7	2.5	328	700	.73	1.12	1.10	1.94	9.16	8.70
624	2330	1714.2	18.0	1.47	1.57	85	20.4	2040	1695.5	9.09	9.13	622	583	13.9	36.8	329	12566	32.0	2.5	283	696	.74	1.08	1.07	1.94	9.16	8.70
625	2331	1714.5	14.2	1.45	1.57	85	20.7	2040	1695.7	9.09	9.13	622	582	13.9	36.8	333	12657	32.3	2.6	343	692	.74	1.14	1.13	1.94	9.16	8.70
626	2332	1714.8	16.4	1.48	1.60	84	20.7	2040	1695.9	9.09	9.13	622	597	13.9	36.7	336	12757	32.6	2.6	394	690	.75	1.11	1.09	1.94	9.17	8.70
627	2333	1715.1	29.5	1.41	1.57	86	17.9	2030	1696.0	9.09	9.13	622	595	13.9	36.7	337	12807	32.9	2.6	159	684	.75	.93	.92	1.95	9.17	8.70
628	2333	1715.4	43.9	1.44	1.55	84	17.5	2040	1696.1	9.08	9.13	621	598	14.4	36.8	339	12843	33.2	2.6	160	680	.75	.83	.82	1.95	9.17	8.70
629	2334	1715.7	29.5	1.47	1.55	84	19.7	2050	1696.3	9.08	9.13	622	582	14.4	36.8	341	12891	33.5	2.6	162	674	.75	.95	.93	1.95	9.18	8.70
630	2334	1716.1	39.5	1.47	1.62	85	19.3	2050	1696.4	9.08	9.13	622	584	14.4	36.8	343	12935	33.8	2.6	144	670	.76	.88	.86	1.95	9.18	8.70
631	2335	1716.3	45.4	1.46	1.56	84	18.5	2050	1696.5	9.08	9.13	622	578	14.4	36.8	343	12958	34.1	2.6	79	666	.76	.83	.82	1.95	9.18	8.70
632	2336	1716.6	12.4	1.45	1.59	86	19.7	2060	1696.9	9.09	9.12	622	580	14.6	36.8	347	13076	34.4	2.6	367	661	.76	1.16	1.15	1.95	9.18	8.70
633	2337	1717.0	28.7	1.50	1.60	85	19.6	2060	1697.1	9.09	9.12	622	590	14.6	36.8	348	13132	34.7	2.7	181	657	.77	.96	.94	1.95	9.18	8.70
634	2337	1717.3	34.0	1.47	1.55	85	19.2	2060	1697.1	9.09	9.12	622	582	14.6	36.9	349	13173	35.0	2.7	151	653	.77	.91	.89	1.95	9.19	8.70
635	2338	1717.6	40.1	1.44	1.50	86	17.9	2070	1697.1	9.09	9.12	622	566	14.6	36.9	352	13207	35.4	2.7	127	649	.77	.86	.84	1.95	9.19	8.70
636	2338	1718.0	30.3	1.42	1.66	86	16.8	2020	1697.1	9.09	9.12	622	580	14.6	36.9	352	13274	35.6	2.7	128	645	.77	.91	.89	1.95	9.19	8.70
637	2354	1718.5	53.2	1.71	2.30	84	12.5	2020	1700.4	9.00	9.17	560	478	19.3	36.6	400	13320	36.3	2.7	177	637	.77	.72	.71	1.95	9.19	8.70
638	2359	1718.8	17.6	1.55	1.99	92	16.4	2020	1702.2	9.00	9.24	613	566	17.1	36.3	379	13771	36.6	2.8	307	641	.80	1.05	1.03	1.95	9.19	8.70
639	2359	1719.1	26.7	1.97	2.64	92	17.7	2020	1702.4	9.02	9.22	614	572	15.8	36.1	377	13834	36.9	2.8	222	637	.80	.97	.95	1.95	9.19	8.70
	Date	Sep 24 '85																									
640	0000	1719.4	29.1	2.51	3.82	88	17.9	2010	1702.6	9.02	9.22	613	569	15.8	36.1	376	13883	37.2	2.8	155	633	.80	.94	.92	1.95	9.19	8.70
641	0001	1719.7	32.7	2.21	3.44	88	18.4	2020	1702.9	9.02	9.22	613	564	15.8	36.1	375	13936	37.5	2.8	200	630	.81	.92	.90	1.95	9.20	8.70
642	0002	1720.0	16.9	1.62	1.80	92	18.5	2020	1703.3	9.01	9.20	612	544	15.6	35.9	373	14033	37.8	2.8	278	626	.81	1.09	1.06	1.95	9.20	8.70
643	0002	1720.3	30.7	1.67	1.82	92	17.4	2010	1703.5	9.01	9.20	612	546	15.6	35.9	373	14077	38.1	2.8	242	625	.81	.93	.91	1.95	9.20	8.70
644	0003	1720.6	15.4	1.82	2.46	91	18.2	2020	1703.9	9.03	9.17	612	544	15.3	36.0	372	14180	38.4	2.9	288	620	.82	1.10	1.08	1.95	9.20	8.70
645	0005	1721.0	16.0	1.56	2.44	93	18.4	2020	1704.6	9.03	9.17	614	522	15.3	36.0	370	14317	38.7	2.9	295	619	.83	1.10	1.08	1.95	9.19	8.70
646	0005	1721.2	16.7	1.52	1.72	93	18.2	2020	1705.0	8.97	9.16	614	541	15.1	36.2	369	14379	39.0	2.9	190	615	.83	1.09	1.06	1.95	9.19	8.70
647	0007	1721.5	12.0	1.57	1.74	93	17.9	2020	1705.9	8.95	9.19	614	534	15.0	36.3	368	14518	39.3	2.9	354	614	.84	1.16	1.14	1.95	9.19	8.70
648	0008	1721.8	14.7	1.51	1.75	93	18.4	2010	1706.2	8.95	9.19	613	566	15.0	36.3	367	14633	39.6	2.9	327	611	.84	1.12	1.10	1.95	9.19	8.70

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Data Recorded at time 00:10 Date Sep 24 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
649	0010	1722.2	9.34	1.57	2.04	92	19.2	2010	1706.4	8.97	9.21	612	548	15.1	36.4	366	14842	39.9	3.0	483	612	.85	1.24	1.21	1.95	9.19	8.70
650	0012	1722.4	9.53	1.54	1.76	94	19.1	1990	1707.0	8.92	9.17	611	555	14.9	36.5	365	14988	40.2	3.0	553	611	.86	1.23	1.21	1.95	9.19	8.70
651	0014	1722.7	10.2	1.58	1.98	93	19.9	2000	1707.6	8.92	9.16	612	541	14.8	36.6	366	15153	40.5	3.0	479	609	.87	1.23	1.21	1.95	9.19	8.70
652	0016	1723.0	7.18	1.73	2.14	92	19.8	2000	1708.7	8.95	9.14	614	542	14.8	36.7	364	15383	40.8	3.1	783	610	.88	1.31	1.29	1.95	9.18	8.70
653	0018	1723.4	14.7	1.63	2.23	92	19.3	2000	1709.3	8.95	9.14	614	578	14.8	36.7	363	15504	41.1	3.1	369	608	.89	1.13	1.11	1.95	9.18	8.70
654	0020	1723.6	8.33	2.08	3.16	89	20.1	2000	1710.5	8.95	9.17	614	564	15.1	36.7	361	15685	41.5	3.1	417	608	.90	1.27	1.25	1.95	9.18	8.70
655	0021	1723.9	18.4	1.76	2.22	92	18.9	2000	1710.7	8.95	9.17	614	567	15.0	36.6	361	15775	41.8	3.1	274	605	.90	1.07	1.05	1.95	9.17	8.70
656	0022	1724.3	10.3	1.69	2.03	92	19.6	2000	1710.7	8.94	9.19	614	576	15.0	36.6	359	15937	42.1	3.2	461	604	.91	1.22	1.20	1.96	9.17	8.70
657	0024	1724.6	9.23	1.74	2.30	92	19.3	2000	1711.0	8.94	9.21	613	556	14.9	36.6	357	16116	42.4	3.2	580	604	.92	1.25	1.22	1.96	9.17	8.70
658	0025	1724.9	15.3	1.63	1.89	93	19.3	2000	1711.2	8.94	9.21	614	535	14.9	36.6	357	16225	42.7	3.2	357	602	.92	1.12	1.10	1.96	9.17	8.70
659	0027	1725.2	13.8	1.50	1.62	93	19.3	1990	1711.6	8.95	9.14	614	563	14.8	36.8	355	16355	43.0	3.2	393	601	.93	1.15	1.13	1.96	9.17	8.70
660	0028	1725.5	15.0	1.53	1.66	93	18.9	1990	1711.9	8.96	9.13	614	558	15.0	36.8	355	16467	43.3	3.3	323	599	.93	1.13	1.10	1.96	9.17	8.70
661	0029	1725.8	11.4	1.55	1.71	93	19.3	2000	1712.3	8.95	9.12	614	528	14.9	36.8	354	16594	43.6	3.3	361	597	.94	1.20	1.17	1.96	9.17	8.70
662	0031	1726.1	14.9	1.55	1.70	93	19.5	1980	1712.7	8.95	9.12	614	513	14.9	36.8	353	16712	43.9	3.3	439	596	.95	1.14	1.11	1.96	9.16	8.70
663	0037	1726.4	8.77	1.53	1.62	93	20.0	1980	1714.4	8.93	9.16	607	560	15.0	36.7	361	16812	44.1	3.3	459	595	.95	1.27	1.25	1.96	9.14	8.70
664	0038	1727.0	9.60	1.47	1.70	92	19.8	1980	1714.7	8.91	9.20	612	580	15.4	36.7	358	16874	44.8	3.3	532	587	.95	1.26	1.22	1.96	9.14	8.70
665	0040	1727.3	9.04	2.01	2.94	89	19.5	1990	1715.6	8.93	9.22	614	525	15.1	36.6	352	17019	45.1	3.4	538	586	.96	1.25	1.22	1.96	9.14	8.70
666	0042	1727.6	9.79	2.06	3.94	88	19.6	1990	1715.6	8.92	9.21	614	513	14.9	36.5	349	17180	45.4	3.4	512	585	.97	1.23	1.20	1.96	9.13	8.70
667	0043	1727.9	12.6	2.32	4.14	87	18.7	1970	1715.6	8.92	9.21	614	529	14.9	36.5	346	17304	45.7	3.4	466	584	.97	1.15	1.13	1.96	9.13	8.70
668	0045	1728.2	8.86	2.40	5.44	85	19.5	1990	1715.6	8.92	9.19	614	507	14.7	36.3	345	17473	46.0	3.5	496	584	.98	1.24	1.22	1.96	9.13	8.70
669	0046	1728.5	14.9	2.27	4.95	91	19.1	1990	1715.7	8.91	9.17	615	507	14.6	36.4	343	17583	46.3	3.5	348	582	.99	1.13	1.10	1.96	9.12	8.70
670	0047	1728.8	18.1	2.31	5.57	90	20.0	1990	1715.8	8.93	9.14	615	513	14.6	36.5	343	17672	46.6	3.5	324	580	.99	1.10	1.07	1.96	9.12	8.70
671	0048	1729.1	15.5	1.82	2.28	95	19.8	1990	1716.3	8.93	9.14	615	513	14.6	36.5	348	17782	46.9	3.5	319	578	1.00	1.14	1.11	1.96	9.12	8.70
672	0050	1729.4	14.1	1.99	2.34	94	18.8	1990	1716.6	8.92	9.12	616	522	14.6	36.6	359	17903	47.2	3.5	271	577	1.00	1.15	1.12	1.96	9.11	8.70
673	0051	1729.7	16.9	1.75	2.10	94	20.1	1990	1716.9	8.92	9.12	615	532	14.6	36.6	368	18006	47.5	3.5	289	575	1.01	1.12	1.10	1.96	9.11	8.70
674	0052	1730.0	13.7	1.64	1.96	95	21.1	1980	1717.4	8.91	9.11	614	552	14.9	36.7	379	18130	47.9	3.6	353	574	1.01	1.19	1.16	1.96	9.10	8.70
675	0054	1730.4	12.6	1.72	2.03	94	20.7	1980	1717.9	8.88	9.11	614	529	15.2	36.6	391	18267	48.1	3.6	354	573	1.02	1.21	1.18	1.96	9.10	8.70
676	0055	1730.7	19.9	1.49	1.63	95	18.7	1980	1718.3	8.88	9.11	613	536	15.2	36.6	398	18362	48.4	3.6	287	571	1.03	1.07	1.04	1.96	9.09	8.70
677	0056	1731.0	14.6	1.87	2.32	93	19.0	1970	1718.8	8.90	9.15	612	563	15.5	36.7	397	18465	48.8	3.6	320	569	1.03	1.14	1.12	1.96	9.09	8.70
678	0058	1731.3	9.50	2.17	3.21	91	20.4	1960	1719.4	8.94	9.22	610	517	15.8	36.6	395	18640	49.1	3.7	506	569	1.04	1.27	1.24	1.96	9.08	8.70
679	0059	1731.6	17.6	1.69	1.84	95	19.8	1970	1719.6	8.94	9.22	610	513	15.8	36.6	394	18737	49.4	3.7	291	567	1.04	1.11	1.08	1.96	9.08	8.70
680	0100	1731.9	12.4	1.74	1.95	95	19.9	1970	1720.0	8.94	9.22	610	501	15.8	36.6	393	18875	49.7	3.7	378	566	1.05	1.20	1.17	1.96	9.08	8.70
681	0102	1732.2	12.1	1.95	2.21	94	19.5	1970	1720.3	8.95	9.19	608	492	15.5	36.6	391	19015	50.0	3.7	392	565	1.06	1.20	1.17	1.96	9.08	8.70
682	0103	1732.5	12.3	1.71	2.12	94	19.7	1970	1720.6	8.96	9.15	607	490	15.2	36.7	390	19155	50.3	3.8	374	564	1.06	1.20	1.17	1.96	9.07	8.70
683	0104	1732.8	16.1	1.63	2.14	95	19.0	1970	1720.9	8.96	9.15	607	504	15.2	36.7	390	19272	50.5	3.8	409	563	1.07	1.13	1.10	1.96	9.07	8.70
684	0105	1733.1	13.7	1.60	1.80	95	18.8	1970	1721.0	8.98	9.15	607	529	15.0	36.6	388	19373	50.9	3.8	360	562	1.07	1.16	1.13	1.97	9.07	8.70
685	0107	1733.4	8.91	1.79	2.22	93	20.0	1990	1721.3	8.98	9.16	607	541	14.9	36.6	388	19528	51.2	3.8	505	561	1.08	1.28	1.25	1.97	9.07	8.70
686	0108	1733.7	13.3	1.53	1.71	95	19.2	1990	1721.4	8.98	9.18	608	512	14.7	36.6	385	19657	51.5	3.8	491	560	1.09	1.18	1.14	1.97	9.07	8.70
687	0110	1734.0	12.7	1.49	1.62	95	18.1	1960	1721.6	8.98	9.18	608	520	14.7	36.6	384	19793	51.8	3.9	389	558	1.09	1.17	1.14	1.97	9.07	8.70
688	0111	1734.3	12.3	1.49	1.58	95	19.5	1980	1721.8	8.94	9.15	609	554	14.4	36.6	385	19933	52.1	3.9	433	558	1.10	1.20	1.17	1.97	9.07	8.70
689	0113	1734.6	11.5	1.47	1.54	95	20.0	1970	1722.1	8.92	9.14	609	545	14.6	36.6	384	20082	52.4	3.9	451	557	1.11	1.22	1.19	1.97	9.07	8.70
690	0114	1734.9	11.4	1.43	1.53	96	18.1	1970	1722.5	8.91	9.12	608	566	14.7	36.6	383	20234	52.7	3.9	565	557	1.11	1.20	1.17	1.97	9.07	8.70
691	0116	1735.3	12.8	1.48	1.61	94	18.4	1980	1722.8	8.91	9.12	607	554	14.7	36.6	383	20381	53.0	4.0	602	556	1.12	1.17	1.14	1.97	9.07	8.70
692	0118	1735.5	8.09	1.67	2.11	93	19.3	1970	1723.1	8.91	9.15	607	552	14.6	36.5	381	20550	53.3	4.0	515	555	1.13	1.29	1.26	1.97	9.07	8.70
693	0120	1735.9	10.0	1.57	1.86	94	18.4	1960	1723.6	8.91	9.19	606	539	14.6	36.5	381	20734	53.6	4.0	449	555	1.14	1.23	1.20	1.97	9.07	8.70
694	0127	1736.2	8.63	1.66	1.76	94	18.8	1990	1724.5	8.89	9.14	598	575	16.0	36.4	388	20793	53.9	4.0	377	554	1.14	1.27	1.24	1.97	9.06	8.70
695	0127	1736.4	12.8	1.48	1.69	86	19.6	1980	1724.6	8.89	9.14	602	588	16.0	36.4	387	20801	54.3	4.0	262	550	1.14	1.16	1.12	1.97	9.06	8.70
696	0128	1736.8	28.3	1.83	2.32	90	16.8	2000	1724.7	8.89	9.14	609	593	16.0	36.4	385	20856	54.6	4.1	164	548	1.14	.95	.92	1.97	9.07	8.70
697	0129	1737.1	16.5	1.78	2.11	90	18.2	1990	1724.9	8.86	9.18	610	580	15.7	36.5	381	20956	54.9	4.1	274	547	1.15	1.10	1.07	1.97	9.07	8.70
698	0131	1737.5	11.5	1.82	2.27	93	18.4	2010	1725.0	8.87	9.23	613	552	15.1	36.4	376	21157	55.2	4.1	526	547	1.15	1.19	1.16	1.97	9.07	8.70

AMOCO AUST. Tilana No.1 329141

Data Printed at time 17:53 Date Oct 9 '85
Data Recorded at time 01:33 Date Sep 24 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
699	0133	1737.7	8.70	2.03	2.59	93	17.9	2010	1725.7	8.87	9.23	613	564	15.1	36.4	374	21291	55.5	4.1	505	546	1.16	1.25	1.22	1.97	9.07	8.70
700	0134	1738.0	13.8	2.04	4.78	92	18.7	2010	1725.9	8.89	9.23	613	566	14.7	36.4	372	21426	55.8	4.2	376	545	1.17	1.15	1.12	1.97	9.06	8.70
701	0135	1738.3	11.3	1.90	3.96	92	18.8	2010	1726.0	8.90	9.21	613	554	14.6	36.3	370	21519	56.1	4.2	364	544	1.17	1.20	1.17	1.97	9.06	8.70
702	0136	1738.6	18.8	1.63	1.96	93	18.0	2010	1726.3	8.90	9.21	613	554	14.6	36.3	369	21615	56.4	4.2	317	543	1.18	1.07	1.04	1.97	9.06	8.70
703	0137	1738.9	23.4	1.92	2.78	89	19.2	2010	1726.4	8.89	9.20	612	558	14.4	36.4	369	21683	56.7	4.2	206	541	1.18	1.02	.99	1.97	9.06	8.70
704	0139	1739.2	11.7	1.74	2.34	91	18.1	2010	1726.6	8.89	9.20	612	533	14.4	36.4	368	21834	57.0	4.2	353	541	1.19	1.18	1.15	1.97	9.06	8.70
705	0140	1739.5	13.3	1.51	1.68	91	17.9	2010	1726.9	8.91	9.17	612	522	14.6	36.4	367	21935	57.3	4.2	336	539	1.19	1.15	1.11	1.97	9.06	8.70
706	0140	1739.8	20.7	1.50	1.63	92	18.6	2010	1727.1	8.91	9.17	613	547	14.6	36.4	366	22011	57.6	4.3	238	537	1.19	1.05	1.02	1.97	9.06	8.70
707	0143	1740.1	8.35	1.79	2.43	90	18.4	2010	1727.7	8.89	9.16	612	538	14.4	36.5	364	22204	57.9	4.3	402	538	1.20	1.27	1.23	1.97	9.05	8.70
708	0144	1740.4	11.0	1.63	1.96	93	18.1	2020	1728.2	8.89	9.16	616	534	14.4	36.5	364	22365	58.2	4.3	467	537	1.21	1.20	1.17	1.97	9.05	8.70
709	0145	1740.7	19.9	1.69	2.09	95	19.2	2030	1728.4	8.91	9.16	617	519	14.4	36.6	362	22438	58.5	4.3	363	536	1.21	1.08	1.04	1.97	9.05	8.70
710	0146	1741.0	12.8	1.74	2.04	94	18.0	2030	1728.7	8.91	9.17	618	553	14.4	36.6	362	22570	58.8	4.4	382	536	1.22	1.17	1.13	1.97	9.05	8.70
711	0148	1741.3	15.6	2.00	2.49	94	18.6	2030	1729.0	8.91	9.17	618	533	14.4	36.6	361	22680	59.1	4.4	309	535	1.22	1.13	1.09	1.97	9.05	8.70
712	0149	1741.6	20.7	1.62	1.92	95	18.5	2030	1729.2	8.92	9.13	617	629	14.4	36.7	360	22762	59.4	4.4	236	532	1.23	1.06	1.03	1.97	9.05	8.70
713	0150	1741.9	13.2	1.79	2.10	95	18.4	2030	1729.5	8.92	9.13	617	697	14.4	36.7	359	22893	59.7	4.4	300	531	1.23	1.17	1.13	1.98	9.05	8.70
714	0151	1742.3	16.8	1.64	2.20	95	17.9	2030	1729.7	8.91	9.13	618	744	14.4	36.8	359	23001	60.0	4.4	287	530	1.24	1.10	1.07	1.98	9.05	8.70
715	0152	1742.5	25.4	1.78	2.26	95	17.9	2030	1729.8	8.91	9.13	618	714	14.4	36.8	358	23065	60.4	4.5	203	529	1.24	1.00	.97	1.98	9.05	8.70
716	0152	1742.9	34.4	2.27	2.68	93	17.1	2040	1730.0	8.91	9.13	619	720	14.3	36.8	358	23114	60.7	4.5	144	527	1.24	.92	.88	1.98	9.05	8.70
717	0154	1743.2	13.4	2.33	3.11	94	16.9	2040	1730.3	8.91	9.13	620	746	14.3	36.8	357	23242	60.9	4.5	777	526	1.25	1.14	1.10	1.98	9.05	8.70
718	0155	1743.5	12.6	1.76	2.19	95	18.8	2040	1730.6	8.90	9.14	620	690	14.3	36.8	356	23371	61.3	4.5	391	525	1.25	1.18	1.15	1.98	9.05	8.70
719	0156	1743.8	16.8	1.70	1.85	95	19.0	2040	1730.9	8.91	9.13	619	732	14.5	36.9	356	23477	61.6	4.5	310	524	1.26	1.12	1.08	1.98	9.05	8.70
720	0157	1744.1	15.9	1.72	1.94	95	19.0	2040	1731.1	8.91	9.13	619	674	14.5	36.9	354	23579	61.9	4.5	313	523	1.26	1.13	1.10	1.98	9.05	8.70
721	0158	1744.4	27.4	1.91	2.34	94	18.4	2030	1731.3	8.91	9.13	619	676	14.5	36.9	354	23642	62.2	4.6	186	522	1.27	.99	.96	1.98	9.05	8.70
722	0158	1744.7	32.9	1.54	1.75	95	16.9	2030	1731.4	8.90	9.12	618	721	14.4	37.0	354	23693	62.5	4.6	152	520	1.27	.93	.89	1.98	9.05	8.70
723	0159	1745.0	17.1	1.77	2.09	95	16.8	2030	1731.6	8.90	9.12	619	733	14.4	37.0	353	23792	62.8	4.6	264	519	1.27	1.08	1.05	1.98	9.05	8.70
724	0200	1745.3	21.5	1.70	2.05	94	17.3	2040	1731.8	8.91	9.14	619	685	14.4	37.0	352	23871	63.1	4.6	197	517	1.27	1.03	1.00	1.98	9.06	8.70
725	0201	1745.6	31.6	1.53	1.74	95	16.1	2010	1731.9	8.91	9.14	619	670	14.4	37.0	352	23926	63.4	4.6	224	516	1.28	.93	.89	1.98	9.06	8.70
726	0207	1746.0	20.1	1.53	1.74	95	16.1	2010	1732.5	8.92	9.14	591	692	14.6	36.9	364	23926	63.6	4.6	208	515	1.28	1.12	1.08	1.98	9.05	8.70
727	0208	1746.5	18.5	2.21	4.04	83	18.8	2000	1732.7	8.92	9.14	614	716	14.6	36.9	358	24007	64.3	4.6	231	509	1.28	1.06	1.03	1.98	9.06	8.70
728	0209	1746.8	17.5	1.88	2.13	94	18.9	2020	1733.0	8.92	9.14	616	738	14.6	36.9	355	24105	64.6	4.6	286	508	1.29	1.10	1.07	1.98	9.06	8.70
729	0210	1747.1	12.3	1.63	2.05	96	17.8	2000	1733.3	8.87	9.17	615	675	15.0	37.0	351	24247	64.9	4.7	539	508	1.29	1.18	1.14	1.98	9.06	8.70
730	0212	1747.4	16.9	1.52	1.93	96	17.4	2000	1733.5	8.88	9.17	614	706	14.6	36.9	349	24348	65.2	4.7	276	507	1.30	1.10	1.06	1.98	9.06	8.70
731	0213	1747.7	14.5	1.50	1.68	98	18.2	2000	1733.7	8.88	9.17	613	701	14.6	36.9	347	24469	65.5	4.7	376	506	1.30	1.15	1.11	1.98	9.06	8.70
732	0214	1748.0	13.6	1.51	1.64	98	18.0	1990	1733.9	8.89	9.18	613	679	14.5	36.6	345	24601	65.8	4.7	389	506	1.31	1.16	1.12	1.98	9.05	8.70
733	0215	1748.3	19.3	1.65	1.82	97	18.1	2010	1734.1	8.89	9.18	614	683	14.5	36.6	350	24691	66.1	4.7	266	504	1.31	1.08	1.04	1.98	9.05	8.70
734	0216	1748.6	12.5	1.61	2.03	97	17.3	1990	1734.4	8.88	9.20	614	681	14.5	36.5	361	24819	66.4	4.8	512	504	1.32	1.17	1.13	1.98	9.05	8.70
735	0217	1748.9	49.2	1.56	1.84	97	15.5	1990	1734.4	8.88	9.20	613	670	14.5	36.5	365	24855	66.7	4.8	192	503	1.32	.82	.78	1.98	9.05	8.70
736	0217	1749.3	37.3	1.52	1.60	98	16.7	1990	1734.5	8.88	9.20	613	642	14.5	36.5	369	24901	67.0	4.8	124	500	1.32	.91	.87	1.98	9.05	8.70
737	0217	1749.6	54.7	1.49	1.54	98	17.8	1990	1734.6	8.91	9.18	613	643	14.6	36.5	371	24923	67.3	4.8	67	498	1.32	.83	.79	1.98	9.05	8.70
738	0223	1749.9	54.9	1.28	1.58	95	13.7	1990	1734.6	8.93	9.24	609	764	15.8	36.6	398	24950	67.7	4.8	87	497	1.32	.77	.74	1.98	9.05	8.70
739	0225	1750.2	7.94	1.49	1.77	96	20.4	2030	1735.2	8.94	9.29	615	673	16.2	36.8	390	25171	67.9	4.8	449	497	1.33	1.33	1.29	1.98	9.05	8.70
740	0227	1750.5	11.6	1.57	1.94	96	19.0	2040	1735.7	8.91	9.24	617	640	15.5	36.9	387	25338	68.2	4.8	547	497	1.34	1.21	1.17	1.98	9.05	8.70
741	0229	1750.8	9.52	1.55	1.85	94	19.2	2030	1736.1	8.93	9.23	616	622	15.1	36.8	388	25497	68.6	4.9	489	497	1.35	1.26	1.22	1.99	9.05	8.70
742	0230	1751.1	20.2	1.49	1.64	94	18.8	2040	1736.3	8.93	9.23	615	611	15.1	36.8	386	25591	68.9	4.9	427	496	1.35	1.07	1.03	1.99	9.05	8.70
743	0232	1751.4	7.68	1.50	1.67	95	19.6	2030	1736.9	8.95	9.21	614	607	15.1	36.6	386	25813	69.2	4.9	804	496	1.36	1.32	1.28	1.99	9.04	8.70
744	0233	1751.7	11.4	1.49	1.68	94	20.4	2030	1737.3	8.95	9.21	614	614	15.1	36.6	386	25947	69.5	5.0	405	496	1.37	1.24	1.20	1.99	9.04	8.70
745	0237	1752.0	5.69	1.54	1.74	95	20.0	2030	1738.1	8.95	9.20	614	614	15.6	36.6	387	26250	69.8	5.0	1040	498	1.38	1.40	1.36	1.99	9.04	8.70
746	0237	1752.3	70.5	1.52	1.64	95	18.1	2030	1738.2	8.95	9.20	614	614	15.6	36.6	386	26272	70.1	5.0	64	496	1.38	.76	.72	1.99	9.04	8.70
747	0237	1752.6	34.3	1.54	1.72	95	17.5	2030	1738.4	8.95	9.20	614	614	15.6	36.6	385	26322	70.4	5.0	148	495	1.38	.93	.89	1.99	9.05	8.70
748	0238	1752.9	19.0	1.59	1.85	94	20.4	2040	1738.5	9.03	9.23	614	614	16.0	36.6	383	26410	70.7	5.0	248	493	1.39	1.11	1.07	1.99	9.05	8.70

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Data Recorded at time 02:40 Date Sep 24 '85

F#	TIME	DEPTH	ROP	TORQUE		RPM	WOB	PUMP	RTRNS	MW lb/gal		FLOW/MIN		TEMP (C)		PVT	THIS BIT			COST		EST	DXC	NX	NXB	ECD	EST
		m	m/hr	AVG	MAX	AVG	AVG	PRES	DEPTH	IN	OUT	IN	OUT	IN	OUT		REVS	m	hrs	INST	RUN	TW					FM PR
749	0240	1753.2	10.5	1.48	1.72	94	20.2	2040	1738.7	9.04	9.20	614	614	15.7	36.7	382	26574	71.0	5.1	790	493	1.39	1.25	1.21	1.99	9.05	8.70
750	0241	1753.5	14.5	1.54	1.67	93	19.4	2040	1739.0	9.04	9.20	614	614	15.7	36.7	382	26691	71.3	5.1	353	493	1.40	1.16	1.12	1.99	9.05	8.70
751	0242	1753.8	24.1	1.51	1.75	93	19.9	2040	1739.2	8.99	9.21	615	615	15.7	36.7	381	26761	71.6	5.1	303	492	1.40	1.04	1.00	1.99	9.05	8.70
752	0244	1754.2	12.0	1.42	1.66	95	17.8	2060	1739.6	8.98	9.21	618	619	15.9	36.7	381	26917	71.9	5.1	349	491	1.40	1.18	1.14	1.99	9.06	8.70
753	0245	1754.4	14.1	1.49	1.62	95	18.7	2070	1739.9	8.98	9.21	619	619	15.9	36.7	381	27028	72.2	5.1	333	490	1.41	1.16	1.11	1.99	9.06	8.70
754	0246	1754.7	22.7	1.50	1.74	94	19.6	2050	1740.1	8.99	9.21	620	619	16.2	36.7	378	27104	72.5	5.2	278	490	1.41	1.05	1.01	1.99	9.06	8.70
755	0247	1755.0	13.0	1.47	1.66	95	19.3	2020	1740.6	8.99	9.21	619	619	16.2	36.7	378	27233	72.8	5.2	326	489	1.42	1.18	1.14	1.99	9.06	8.70
756	0256	1755.4	17.2	1.43	1.65	95	16.9	2070	1742.3	8.89	9.24	616	616	15.4	36.7	378	27352	73.1	5.2	394	488	1.42	1.08	1.04	1.99	9.06	8.70
757	0256	1755.7	43.8	1.59	2.14	94	19.6	2070	1742.5	8.94	9.25	617	617	15.5	36.8	376	27383	73.5	5.2	154	487	1.42	.89	.85	1.99	9.07	8.70
758	0257	1756.0	15.7	1.53	1.77	98	19.1	2070	1742.9	8.94	9.25	619	619	15.5	36.8	374	27492	73.8	5.2	327	486	1.43	1.14	1.10	1.99	9.07	8.70
759	0258	1756.3	16.5	1.54	1.72	98	20.0	2060	1743.2	8.97	9.25	617	617	15.5	36.9	374	27592	74.1	5.2	281	485	1.43	1.14	1.10	1.99	9.07	8.70
760	0300	1756.6	9.10	1.52	1.69	98	20.5	2050	1743.8	8.98	9.23	616	616	15.2	36.9	372	27784	74.4	5.3	544	485	1.44	1.30	1.25	1.99	9.07	8.70
761	0302	1757.0	15.2	1.47	1.59	98	19.7	2050	1744.2	8.98	9.23	617	617	15.2	36.9	371	27936	74.6	5.3	538	485	1.45	1.16	1.12	1.99	9.07	8.70
762	0304	1757.2	6.24	1.49	1.65	97	19.3	2060	1745.0	9.01	9.22	616	616	15.4	36.8	370	28163	75.0	5.3	1041	486	1.46	1.37	1.32	1.99	9.07	8.70
763	0307	1757.5	7.12	1.46	1.62	98	19.7	2080	1745.7	9.03	9.24	621	621	15.5	36.8	368	28414	75.3	5.4	596	486	1.47	1.34	1.30	1.99	9.06	8.70
764	0309	1757.8	6.81	1.46	1.56	99	19.6	2060	1746.4	9.05	9.21	619	619	15.6	36.9	367	28658	75.6	5.4	668	487	1.48	1.36	1.31	1.99	9.06	8.70
765	0310	1758.1	16.7	1.58	1.88	97	19.1	2060	1746.7	9.07	9.21	619	619	15.6	37.0	367	28771	75.9	5.4	379	487	1.48	1.13	1.08	1.99	9.07	8.70
766	0312	1758.4	8.54	1.54	1.88	98	19.9	2040	1747.1	9.07	9.21	618	618	15.6	37.0	364	28946	76.2	5.5	658	487	1.49	1.30	1.26	1.99	9.07	8.70
767	0314	1758.7	8.41	1.53	1.65	98	20.3	2040	1748.3	8.98	9.19	617	617	15.1	37.1	361	29157	76.5	5.5	584	487	1.50	1.31	1.27	1.99	9.06	8.70
768	0316	1759.0	13.7	1.55	1.85	97	19.9	2050	1748.4	8.98	9.19	619	619	15.1	37.1	360	29296	76.8	5.5	414	487	1.51	1.18	1.14	1.99	9.07	8.70
769	0317	1759.3	13.2	1.52	1.91	97	19.1	2060	1748.5	8.98	9.19	618	618	15.1	37.1	359	29430	77.1	5.6	492	487	1.51	1.18	1.14	1.99	9.07	8.70
770	0319	1759.6	9.00	1.47	1.69	98	19.4	2060	1748.7	8.99	9.24	620	620	15.0	37.1	358	29615	77.4	5.6	470	486	1.52	1.28	1.24	2.00	9.08	8.70
771	0321	1759.9	10.9	1.51	1.70	99	20.1	2070	1749.0	8.98	9.28	622	622	15.0	37.2	356	29789	77.7	5.6	497	486	1.53	1.25	1.20	2.00	9.08	8.70
772	0322	1760.2	13.7	1.49	1.68	98	19.5	2070	1749.3	9.00	9.23	622	622	15.0	37.2	355	29911	78.0	5.6	433	486	1.53	1.18	1.13	2.00	9.08	8.70
773	0323	1760.6	15.6	1.47	1.86	98	20.1	2080	1749.6	9.00	9.23	623	623	15.0	37.2	353	30053	78.3	5.7	424	486	1.54	1.15	1.11	2.00	9.09	8.70
774	0325	1760.8	9.18	1.47	1.59	98	19.2	2060	1749.9	8.98	9.22	622	622	15.0	37.2	353	30196	78.6	5.7	497	485	1.54	1.27	1.22	2.00	9.10	8.70
775	0327	1761.1	10.8	1.45	1.59	99	19.0	2050	1750.1	8.99	9.16	619	619	14.8	37.2	353	30363	78.9	5.7	473	485	1.55	1.23	1.18	2.00	9.10	8.70
776	0328	1761.5	12.3	1.49	1.63	98	19.3	2050	1750.3	8.99	9.16	621	621	14.8	37.2	351	30515	79.2	5.7	465	485	1.56	1.20	1.15	2.00	9.10	8.70
777	0329	1761.7	10.1	1.59	1.91	98	20.4	2050	1750.4	9.00	9.17	620	620	14.7	37.2	350	30629	79.5	5.8	305	484	1.56	1.26	1.22	2.00	9.10	8.70
778	0330	1762.1	24.6	1.44	1.55	99	18.4	2050	1750.5	9.00	9.17	621	621	14.7	37.2	349	30703	79.9	5.8	263	484	1.56	1.02	.98	2.00	9.10	8.70
779	0331	1762.4	26.5	1.49	1.78	97	17.5	2050	1750.7	8.98	9.20	620	620	14.8	37.2	350	30772	80.1	5.8	247	483	1.57	.99	.94	2.00	9.11	8.70
780	0333	1762.7	10.4	1.48	1.93	99	19.0	2050	1751.5	8.97	9.37	620	620	14.8	37.2	347	30957	80.5	5.8	356	482	1.57	1.24	1.19	2.00	9.11	8.70
781	0334	1763.0	15.6	1.67	1.87	96	19.2	2040	1751.7	8.97	9.37	620	620	14.8	37.2	347	31053	80.8	5.8	288	482	1.58	1.14	1.09	2.00	9.11	8.70
782	0335	1763.3	12.2	1.62	1.88	95	19.6	2040	1752.1	9.00	9.28	621	621	14.6	37.3	347	31201	81.0	5.9	521	482	1.58	1.20	1.15	2.00	9.11	8.70
783	0336	1763.6	14.0	1.69	1.99	97	21.0	2060	1752.5	8.98	9.27	622	622	14.5	37.3	346	31321	81.4	5.9	334	481	1.59	1.19	1.14	2.00	9.11	8.70
784	0338	1763.9	11.2	1.60	2.02	97	19.1	2060	1752.8	8.98	9.27	623	623	14.5	37.3	345	31477	81.7	5.9	365	481	1.59	1.22	1.17	2.00	9.11	8.70
785	0340	1764.2	9.43	1.52	1.86	98	19.7	2050	1753.3	8.99	9.37	622	622	14.5	37.3	344	31665	82.0	5.9	601	481	1.60	1.27	1.22	2.00	9.11	8.70
786	0341	1764.5	27.3	1.58	1.84	96	20.0	2050	1753.5	9.02	9.26	622	622	29.1	37.3	344	31730	82.3	5.9	202	480	1.60	1.01	.96	2.00	9.11	8.70
787	0342	1764.8	8.88	1.54	1.87	98	19.2	1270	1753.8	9.02	9.26	621	621	29.1	37.3	343	31791	82.6	6.0	322	480	1.61	1.28	1.23	2.00	9.11	8.70
788	0350	1765.4	31.6	1.63	1.85	92	16.7	2030	1753.9	9.01	9.24	583	583	15.8	37.3	361	31840	83.2	6.0	205	476	1.61	.92	.88	2.00	9.11	8.70
789	0351	1765.7	16.8	1.52	1.64	101	18.8	2040	1753.9	9.02	9.22	615	615	15.5	37.0	352	31945	83.5	6.0	419	475	1.61	1.12	1.07	2.00	9.11	8.70
790	0352	1766.0	10.5	1.46	1.70	101	19.1	2040	1754.0	9.01	9.33	618	618	14.5	37.1	345	32119	83.8	6.0	2778	475	1.61	1.24	1.19	2.00	9.12	8.70
791	0354	1766.3	10.7	1.49	1.62	101	19.7	2040	1754.4	9.01	9.33	617	617	14.0	37.0	339	32276	84.1	6.0	561	475	1.62	1.24	1.19	2.00	9.11	8.70
792	0355	1766.6	17.0	1.51	1.59	101	19.9	2040	1754.7	9.01	9.33	617	617	14.0	37.0	337	32383	84.4	6.1	-284	474	1.62	1.14	1.09	2.00	9.11	8.70
793	0357	1767.0	12.3	1.46	1.60	101	19.1	2040	1755.1	9.00	9.31	617	617	14.0	36.9	333	32562	84.7	6.1	5735	474	1.62	1.20	1.15	2.00	9.11	8.70
794	0358	1767.2	10.9	1.52	1.59	101	19.8	2040	1755.3	8.98	9.26	617	617	13.9	36.8	332	32715	85.0	6.1	444	474	1.62	1.24	1.19	2.00	9.12	8.70
795	0359	1767.6	21.7	1.54	1.93	101	18.6	2040	1755.5	8.98	9.26	617	617	13.9	36.8	331	32805	85.3	6.1	252	473	1.63	1.06	1.01	2.00	9.12	8.70
796	0359	1767.9	59.1	1.56	1.83	98	15.1	2040	1755.5	8.98	9.26	617	617	13.9	36.8	331	32827	85.6	6.1	131	472	1.63	.77	.73	2.00	9.12	8.70
797	0400	1768.1	20.3	1.86	2.36	98	16.8	2040	1755.6	9.01	9.21	617	617	14.0	36.8	330	32904	85.9	6.1	214	471	1.63	1.04	.99	2.01	9.12	8.70
798	0401	1768.5	36.3	2.07	3.09	98	16.8	2030	1755.7	9.01	9.21	617	617	14.0	36.8	330	32961	86.3	6.2	151	470	1.63	.91	.86	2.01	9.12	8.70

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329143

Data Printed at time 18:01 Date Oct 9
Data Recorded at time 04:05 Date Sep 24 85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
799	0405	1768.8	32.7	1.59	1.96	92	15.2	2050	1756.0	9.02	9.18	609	609	14.0	36.8	334	33005	86.6	6.2	209	469	1.63	.89	.85	2.01	9.13	8.70
800	0406	1769.1	15.6	1.97	6.29	86	17.5	2020	1756.2	9.00	9.22	617	617	14.3	37.0	332	33098	86.8	6.2	452	468	1.63	1.08	1.04	2.01	9.13	8.70
801	0407	1769.4	20.4	1.82	2.61	94	17.6	2060	1756.3	9.00	9.22	617	617	14.3	37.0	331	33180	87.1	6.2	251	467	1.63	1.04	.99	2.01	9.14	8.70
802	0407	1769.7	30.7	1.64	2.17	98	17.4	2060	1756.3	9.00	9.22	619	619	14.3	37.0	328	33238	87.4	6.2	188	466	1.63	.95	.90	2.01	9.14	8.70
803	0408	1770.0	19.9	1.71	2.37	97	17.3	2070	1756.5	9.01	9.19	620	620	14.2	37.2	327	33317	87.8	6.2	238	466	1.64	1.05	1.00	2.01	9.14	8.70
804	0409	1770.3	25.0	1.56	1.83	99	17.5	2060	1756.7	9.01	9.19	620	620	14.2	37.2	327	33388	88.1	6.2	192	464	1.64	1.00	.95	2.01	9.14	8.70
805	0410	1770.6	28.9	1.50	1.58	100	19.2	2070	1756.9	9.03	9.32	620	620	14.1	37.2	326	33450	88.4	6.2	227	464	1.64	.99	.94	2.01	9.14	8.70
806	0410	1770.9	24.0	1.54	1.85	100	17.8	2060	1756.9	9.03	9.32	620	620	14.1	37.2	325	33520	88.7	6.3	200	463	1.64	1.02	.97	2.01	9.14	8.70
807	0411	1771.2	21.3	1.96	3.37	97	17.9	2050	1757.0	9.03	9.32	619	619	14.1	37.2	324	33600	89.0	6.3	247	462	1.64	1.04	.99	2.01	9.15	8.70
808	0411	1771.5	41.3	2.13	2.64	94	18.0	2060	1757.1	9.05	9.21	619	619	14.1	37.2	323	33641	89.3	6.3	185	461	1.64	.88	.83	2.01	9.15	8.70
809	0412	1771.8	24.8	1.52	1.78	97	17.7	2060	1757.2	9.05	9.21	619	619	14.1	37.2	324	33711	89.6	6.3	195	460	1.64	1.00	.95	2.01	9.15	8.70
810	0413	1772.1	35.4	1.56	2.14	98	17.1	2060	1757.3	9.05	9.21	618	618	14.1	37.2	323	33762	89.9	6.3	146	459	1.65	.91	.86	2.01	9.15	8.70
811	0414	1772.4	15.1	1.73	2.08	96	19.5	2070	1757.4	9.04	9.27	620	620	14.1	37.1	323	33866	90.2	6.3	324	458	1.65	1.14	1.09	2.01	9.15	8.70
812	0415	1772.7	21.1	1.59	1.78	97	20.1	2060	1757.6	9.04	9.27	620	620	14.1	37.1	321	33956	90.5	6.3	279	458	1.65	1.07	1.02	2.01	9.15	8.70
813	0416	1773.1	15.2	1.54	1.65	98	20.4	2070	1757.9	9.02	9.21	619	619	13.8	37.1	321	34082	90.8	6.3	340	457	1.65	1.16	1.11	2.01	9.16	8.70
814	0417	1773.3	26.3	1.55	1.74	96	18.8	2060	1758.0	9.02	9.21	620	620	13.8	37.1	321	34143	91.1	6.4	244	456	1.65	1.00	.95	2.01	9.16	8.70
815	0417	1773.7	26.7	1.61	1.88	97	19.0	2070	1758.2	9.02	9.21	620	620	13.8	37.1	318	34207	91.4	6.4	219	455	1.65	1.00	.95	2.01	9.16	8.70
816	0418	1774.0	14.1	1.79	2.03	96	20.0	2050	1758.5	9.01	9.24	620	620	13.8	37.3	320	34319	91.7	6.4	453	455	1.66	1.17	1.12	2.01	9.16	8.70
817	0419	1774.3	40.6	1.70	2.13	95	19.8	2040	1758.6	9.01	9.24	620	620	13.8	37.3	319	34362	92.0	6.4	229	454	1.66	.91	.86	2.01	9.16	8.70
818	0426	1774.6	25.1	1.67	1.84	97	19.0	2060	1759.4	9.08	9.19	616	616	14.1	37.2	330	34409	92.3	6.4	146	453	1.66	1.02	.97	2.01	9.15	8.70
819	0426	1774.9	988	2.32	2.32	101	12.1	2060	1759.5	9.08	9.19	617	617	14.1	37.2	330	34423	92.6	6.4	146	451	1.66	.13	.09	2.01	9.15	8.70
820	0427	1775.5	47.8	1.64	2.12	101	17.8	2050	1759.6	9.08	9.19	618	618	14.1	37.2	327	34480	93.3	6.4	120	449	1.66	.86	.81	2.01	9.15	8.70
821	0428	1775.8	24.3	2.12	2.54	99	19.0	2060	1759.7	9.10	9.24	618	618	14.0	37.3	325	34555	93.5	6.4	235	449	1.66	1.03	.98	2.01	9.16	8.70
822	0428	1776.1	28.8	1.68	2.34	101	19.6	2060	1759.8	9.10	9.24	618	618	14.0	37.3	321	34624	93.8	6.4	182	447	1.66	1.00	.95	2.01	9.16	8.70
823	0430	1776.5	17.2	1.54	1.93	102	19.1	2060	1760.1	9.09	9.19	618	618	13.6	37.4	319	34752	94.2	6.5	383	447	1.66	1.12	1.07	2.01	9.16	8.70
824	0431	1776.7	15.4	1.64	1.87	101	18.8	2060	1760.4	9.09	9.19	618	618	13.6	37.4	317	34846	94.5	6.5	278	446	1.67	1.14	1.09	2.01	9.16	8.70
825	0431	1777.0	20.5	1.80	2.20	100	17.4	2060	1760.6	9.09	9.19	618	618	13.6	37.4	316	34920	94.8	6.5	302	446	1.67	1.05	1.00	2.02	9.16	8.70
826	0433	1777.3	17.9	1.74	2.11	100	18.6	2050	1760.9	9.09	9.19	618	618	13.6	37.4	315	35036	95.1	6.5	309	445	1.67	1.10	1.05	2.02	9.16	8.70
827	0434	1777.6	16.1	1.74	2.25	99	17.6	2050	1761.2	9.08	9.17	618	618	13.6	37.2	314	35136	95.4	6.5	287	445	1.67	1.10	1.05	2.02	9.16	8.70
828	0435	1777.9	17.3	1.56	2.07	101	18.3	2050	1761.4	9.08	9.17	618	618	13.6	37.2	313	35236	95.7	6.5	291	444	1.67	1.10	1.05	2.02	9.16	8.70
829	0436	1778.2	16.0	1.46	1.61	103	18.3	2060	1761.6	9.05	9.16	618	618	13.5	37.1	313	35358	96.0	6.6	339	444	1.68	1.13	1.07	2.02	9.17	8.70
830	0437	1778.5	15.2	1.48	1.58	101	19.1	2060	1761.8	9.05	9.16	619	619	13.5	37.1	312	35462	96.3	6.6	301	443	1.68	1.15	1.09	2.02	9.17	8.70
831	0438	1778.9	13.2	1.45	1.74	99	19.0	2050	1762.1	9.03	9.22	618	618	13.7	37.2	311	35618	96.6	6.6	450	443	1.68	1.17	1.12	2.02	9.17	8.70
832	0440	1779.1	8.25	1.38	1.53	99	19.0	2050	1762.5	9.02	9.21	618	618	13.3	37.3	309	35815	96.9	6.6	1872	444	1.69	1.28	1.23	2.02	9.17	8.70
833	0442	1779.4	10.4	1.43	1.62	100	18.3	2060	1762.9	9.01	9.26	619	619	13.2	37.4	309	35981	97.2	6.7	556	444	1.69	1.22	1.17	2.02	9.18	8.70
834	0444	1779.7	9.35	1.43	1.56	100	19.0	2060	1763.4	9.01	9.27	619	619	13.1	37.5	309	36174	97.5	6.7	642	444	1.69	1.26	1.20	2.02	9.17	8.70
835	0446	1780.0	10.6	1.43	1.61	100	19.3	2060	1764.0	9.01	9.27	618	618	13.1	37.5	307	36351	97.8	6.7	500	444	1.70	1.23	1.18	2.02	9.18	8.70
836	0447	1780.3	9.84	1.42	1.52	101	19.4	2040	1764.5	9.02	9.20	619	619	13.0	37.6	306	36526	98.1	6.8	521	444	1.70	1.25	1.20	2.02	9.18	8.70
837	0449	1780.6	11.7	1.48	1.60	99	19.5	2050	1764.8	9.02	9.21	618	618	13.0	37.6	305	36681	98.5	6.8	430	444	1.70	1.21	1.16	2.02	9.18	8.70
838	0451	1781.0	11.2	1.77	2.36	97	20.4	2050	1765.1	9.03	9.19	618	618	12.7	37.7	305	36844	98.7	6.8	475	444	1.71	1.23	1.18	2.02	9.18	8.70
839	0452	1781.3	14.7	1.59	2.56	97	18.1	2050	1765.5	9.03	9.19	618	618	12.7	37.7	305	36953	99.0	6.8	315	444	1.71	1.13	1.08	2.02	9.18	8.70
840	0452	1781.6	25.7	1.42	1.56	99	18.6	2050	1765.6	9.08	9.20	619	619	13.1	37.7	304	37022	99.3	6.8	226	443	1.71	1.01	.96	2.02	9.19	8.70
841	0454	1781.9	9.37	1.55	1.85	100	18.8	2050	1766.0	9.08	9.16	619	619	13.1	37.7	303	37211	99.7	6.9	425	443	1.71	1.25	1.20	2.02	9.19	8.70
842	0455	1782.2	25.7	1.50	1.74	101	19.2	2050	1766.2	9.08	9.16	619	619	13.1	37.7	302	37280	100	6.9	-198	443	1.71	1.02	.97	2.02	9.19	8.70
843	0457	1782.5	15.2	1.43	1.66	102	17.8	2050	1766.8	9.06	9.17	619	619	13.1	37.8	302	37428	100	6.9	275	442	1.72	1.12	1.07	2.02	9.18	8.70
844	0458	1782.8	11.2	1.42	1.52	101	19.1	2040	1767.1	9.06	9.17	619	619	13.1	37.8	300	37576	101	6.9	571	442	1.72	1.22	1.16	2.02	9.18	8.70
845	0459	1783.1	12.6	1.46	1.86	101	18.8	2040	1767.4	9.06	9.16	619	619	13.1	37.8	297	37702	101	7.0	360	442	1.72	1.18	1.13	2.02	9.18	8.70
846	0501	1783.4	9.61	1.65	1.88	98	19.5	2040	1767.9	9.03	9.19	618	618	13.1	37.8	291	37887	101	7.0	500	442	1.73	1.25	1.20	2.02	9.18	8.7
847	0503	1783.7	12.7	1.69	2.03	98	19.1	2040	1768.4	9.00	9.18	619	619	13.0	37.9	285	38029	101	7.0	410	442	1.73	1.18	1.13	2.02	9.18	8.
848	0510	1784.1	19.1	1.51	1.83	98	20.3	1500	1769.7	9.02	9.19	467	467	12.9	37.9	287	38104	102	7.0	309	441	1.73	1.10	1.05	2.02	9.17	8.

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Data Recorded at time 05:10 Date Sep 24 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
849	0510	1784.6	52.9	1.36	1.76	97	13.7	2040	1770.0	9.01	9.18	543	543	13.2	37.6	282	38160	102	7.0	134	439	1.73	.77	.73	2.02	9.17	8.70
850	0511	1784.9	22.8	1.41	1.68	93	17.3	2070	1770.4	9.01	9.18	613	613	13.2	37.6	277	38242	103	7.0	325	439	1.73	1.00	.96	2.02	9.18	8.70
851	0512	1785.2	16.6	1.48	1.62	97	16.0	2070	1770.9	9.01	9.18	623	623	13.2	37.6	273	38335	103	7.1	220	438	1.73	1.06	1.02	2.02	9.18	8.70
852	0513	1785.5	18.6	1.68	2.00	97	17.4	1970	1771.2	8.99	9.25	620	620	12.9	37.8	269	38431	103	7.1	297	438	1.74	1.06	1.01	2.03	9.18	8.70
853	0514	1785.8	15.9	1.55	1.90	97	17.8	1960	1771.5	8.99	9.25	608	608	12.9	37.8	266	38540	104	7.1	289	437	1.74	1.10	1.05	2.03	9.18	8.70
854	0516	1786.2	16.8	1.55	1.92	98	17.9	1910	1771.9	8.99	9.19	604	604	12.9	37.8	264	38656	104	7.1	310	437	1.74	1.09	1.04	2.03	9.19	8.70
855	0517	1786.4	12.1	1.66	1.93	97	18.2	1900	1772.4	8.99	9.22	601	601	12.8	37.4	264	38785	104	7.1	373	437	1.74	1.17	1.12	2.03	9.19	8.70
856	0518	1786.7	22.1	1.55	1.76	96	18.6	1900	1772.7	8.99	9.22	600	600	12.8	37.4	263	38865	105	7.2	233	436	1.74	1.04	.99	2.03	9.19	8.70
857	0519	1787.0	19.1	1.52	1.69	98	18.9	1900	1773.1	8.99	9.22	601	601	12.8	37.4	261	38959	105	7.2	286	436	1.75	1.08	1.03	2.03	9.18	8.70
858	0520	1787.3	20.2	1.49	1.65	98	17.8	1900	1773.2	8.97	9.20	601	601	12.8	37.3	262	39048	105	7.2	199	435	1.75	1.05	1.00	2.03	9.19	8.70
859	0521	1787.7	14.2	1.48	1.63	99	18.6	1890	1773.2	8.97	9.20	601	601	12.8	37.3	260	39174	105	7.2	314	435	1.75	1.15	1.09	2.03	9.19	8.70
860	0522	1788.0	12.5	1.51	1.84	99	18.4	1890	1773.7	8.95	9.18	601	601	12.9	37.4	260	39320	106	7.2	401	435	1.75	1.17	1.12	2.03	9.19	8.70
861	0523	1788.3	30.8	1.56	1.81	96	18.8	1890	1773.9	8.95	9.18	600	600	12.9	37.4	260	39371	106	7.2	176	434	1.75	.96	.91	2.03	9.19	8.70
862	0524	1788.6	11.7	1.50	1.74	99	18.8	1890	1774.4	8.96	9.20	600	600	12.9	37.6	259	39493	106	7.3	402	434	1.76	1.19	1.14	2.03	9.19	8.70
863	0525	1788.9	14.0	1.46	1.70	99	17.6	1890	1774.9	8.93	9.23	600	600	12.9	37.7	259	39622	107	7.3	371	433	1.76	1.13	1.08	2.03	9.18	8.70
864	0527	1789.2	17.2	1.48	1.69	99	18.3	1890	1775.2	8.93	9.23	600	600	12.9	37.7	258	39737	107	7.3	406	433	1.76	1.10	1.05	2.03	9.18	8.70
865	0528	1789.5	8.57	1.50	1.73	99	20.0	1890	1775.7	8.96	9.24	601	601	12.3	37.7	257	39904	107	7.3	625	433	1.76	1.29	1.24	2.03	9.18	8.70
866	0529	1789.8	20.3	1.72	2.02	95	17.5	1870	1776.1	8.96	9.24	600	600	12.3	37.7	257	40010	108	7.3	565	433	1.77	1.04	.99	2.03	9.18	8.70
867	0532	1790.1	5.04	1.91	2.26	96	20.1	1880	1776.9	8.94	9.23	600	600	11.5	37.7	254	40283	108	7.4	1365	434	1.77	1.41	1.36	2.03	9.17	8.70
868	0540	1790.4	7.57	1.43	1.79	99	17.0	2030	1777.8	8.99	9.33	611	611	12.3	37.6	255	40524	108	7.4	615	435	1.78	1.27	1.22	2.03	9.16	8.70
869	0542	1790.7	9.43	1.48	1.78	101	19.4	1980	1778.2	8.96	9.25	618	618	12.3	37.6	252	40739	109	7.5	590	435	1.78	1.26	1.21	2.03	9.16	8.70
870	0544	1791.0	8.08	2.86	5.58	93	18.5	1980	1778.5	8.96	9.19	616	616	12.3	37.5	250	40933	109	7.5	560	435	1.78	1.27	1.22	2.03	9.16	8.70
871	0544	1791.4	27.4	3.03	6.58	87	17.5	1980	1778.6	8.96	9.19	615	615	12.3	37.5	249	40992	109	7.5	270	435	1.78	.95	.90	2.03	9.15	8.70
872	0545	1791.7	50.3	2.79	6.14	88	17.1	1980	1778.7	8.96	9.19	616	616	12.3	37.5	249	41028	109	7.5	119	434	1.79	.80	.76	2.03	9.15	8.70
873	0545	1792.2	55.8	1.57	4.10	97	14.8	1990	1778.8	8.96	9.19	616	616	12.3	37.5	249	41079	110	7.5	128	432	1.79	.78	.73	2.03	9.15	8.70
874	0546	1792.5	23.0	1.99	3.05	94	16.1	1690	1778.9	8.96	9.19	615	615	12.3	37.5	247	41148	110	7.5	190	431	1.79	.99	.94	2.03	9.16	8.70
875	0547	1792.9	25.6	2.11	3.70	95	18.1	1790	1779.0	8.96	9.19	615	615	12.3	37.5	246	41223	111	7.6	166	431	1.79	.99	.94	2.03	9.16	8.70
876	0548	1793.2	29.5	1.82	4.80	93	16.0	1970	1779.1	8.91	9.16	616	616	12.3	37.7	246	41283	111	7.6	128	430	1.79	.93	.88	2.03	9.15	8.70
877	0556	1793.5	8.47	2.28	6.58	93	14.5	2010	1780.3	8.84	9.19	580	580	12.3	37.7	258	41411	111	7.6	1018	430	1.79	1.19	1.14	2.03	9.13	8.70
878	0557	1794.1	23.8	2.00	2.70	92	15.0	2030	1780.6	8.83	9.19	616	616	12.4	37.7	256	41514	112	7.6	319	428	1.79	.96	.91	2.04	9.14	8.70
879	0600	1794.4	7.15	1.46	1.80	101	19.7	1940	1781.3	8.82	9.21	619	619	12.2	38.0	254	41769	112	7.6	416	429	1.80	1.34	1.28	2.04	9.13	8.70
880	0603	1794.7	5.69	1.51	1.85	99	19.7	2020	1781.9	8.68	9.21	619	619	12.1	37.8	265	42090	112	7.7	824	430	1.81	1.39	1.34	2.04	9.13	8.70
881	0606	1795.0	7.36	1.51	1.70	100	19.8	2030	1782.5	8.74	9.21	619	619	12.0	37.5	297	42360	113	7.7	865	431	1.81	1.33	1.28	2.04	9.12	8.70
882	0608	1795.3	6.80	1.49	1.59	99	20.5	2030	1782.9	8.70	9.20	619	619	12.2	37.7	334	42596	113	7.8	673	432	1.82	1.36	1.31	2.04	9.11	8.70
883	0611	1795.6	6.64	1.63	1.86	98	20.4	2060	1784.0	8.70	9.23	618	618	12.2	37.7	376	42863	113	7.8	677	432	1.82	1.37	1.31	2.04	9.10	8.70
884	0613	1795.9	8.65	1.54	1.87	98	20.2	2090	1784.6	8.86	9.25	618	618	12.8	37.7	378	43094	114	7.9	541	433	1.82	1.30	1.25	2.04	9.09	8.70
885	0615	1796.2	10.3	1.58	2.17	98	19.4	2090	1785.1	9.00	9.23	618	618	12.7	37.8	375	43250	114	7.9	485	433	1.83	1.25	1.19	2.04	9.08	8.70
886	0616	1796.5	20.3	2.08	4.65	96	19.9	2110	1785.3	9.00	9.23	617	617	12.7	37.8	375	43336	114	7.9	250	433	1.83	1.09	1.03	2.04	9.08	8.70
887	0617	1796.9	30.2	1.89	4.15	97	18.2	2120	1785.6	9.06	9.23	617	617	12.4	37.6	375	43404	115	7.9	202	432	1.83	.97	.92	2.04	9.08	8.70
888	0617	1797.1	22.3	1.94	2.23	96	18.5	2130	1785.8	9.06	9.23	617	617	12.4	37.6	374	43466	115	7.9	191	431	1.83	1.05	.99	2.04	9.06	8.70
889	0618	1797.5	45.8	1.72	2.11	99	17.1	2120	1786.0	9.06	9.23	617	617	12.4	37.6	375	43521	115	7.9	150	431	1.83	.86	.81	2.04	9.06	8.70
890	0620	1798.0	11.0	1.60	2.94	100	18.7	2130	1786.6	9.16	9.22	617	617	12.9	37.4	373	43778	116	8.0	303	430	1.84	1.23	1.17	2.04	9.05	8.70
891	0622	1798.3	9.36	1.60	2.73	98	18.8	2130	1787.2	9.14	9.23	617	617	13.2	37.3	376	43971	116	8.0	295	430	1.84	1.27	1.21	2.04	9.03	8.70
892	0623	1798.6	21.0	1.67	1.92	99	17.3	2120	1787.5	9.14	9.23	617	617	13.2	37.3	373	44057	116	8.0	-232	430	1.84	1.05	1.00	2.04	9.02	8.70
893	0624	1799.0	24.1	2.23	2.90	97	19.0	2120	1787.7	9.14	9.23	617	617	13.2	37.3	373	44138	117	8.0	213	429	1.84	1.04	.98	2.04	9.02	8.70
894	0626	1799.3	12.6	1.74	2.12	98	19.1	2130	1788.0	9.14	9.22	617	617	13.0	37.2	372	44291	117	8.1	435	429	1.85	1.20	1.15	2.04	9.01	8.70
895	0630	1799.9	6.46	1.51	1.88	100	20.1	2110	1788.7	9.17	9.19	617	617	12.8	37.0	369	44744	118	8.2	1973	430	1.85	1.39	1.33	2.04	9.00	8.70
896	0631	1800.2	10.4	1.49	1.74	99	18.7	2110	1788.8	9.16	9.19	618	618	12.7	36.9	369	44869	118	8.2	399	430	1.86	1.25	1.19	2.04	9.00	8.70
897	0632	1800.5	16.9	1.55	1.83	100	17.0	2120	1788.8	9.16	9.19	617	617	12.7	36.9	368	44985	118	8.2	257	430	1.86	1.11	1.05	2.04	9.00	8.70
898	0633	1800.8	59.2	1.51	1.88	98	15.4	2120	1788.8	9.16	9.19	617	617	12.7	36.9	367	45009	119	8.2	99	429	1.86	.79	.73	2.04	9.00	8.70

AMOCO AUST. Tilana No.1

329145

Data Printed at time 18:12 Date Oct 9
Data Recorded at time 06:33 Date Sep 24 '85

F#	TIME	DEPTH	ROP	TORQUE		RPM	WOB	PUMP	RTRNS	MW lb/gal		FLOW/MIN		TEMP (C)		PVT	THIS BIT			COST		EST	DXC	NX	NXB	ECD	EST
		m	m/hr	AVG	MAX	AVG	AVG	PRES	DEPTH	IN	OUT	IN	OUT	IN	OUT		REVS	m	hrs	INST	RUN	TM					FM PR
899	0633	1801.1	26.9	1.61	1.75	99	17.5	2110	1788.8	9.12	9.17	617	617	12.7	36.8	368	45072	119	8.2	138	428	1.86	1.00	.94	2.04	9.02	8.70
900	0634	1801.4	33.5	1.55	1.99	99	17.2	2120	1788.9	9.12	9.17	617	617	12.7	36.8	367	45125	119	8.2	124	428	1.86	.94	.89	2.04	9.02	8.70
901	0635	1801.7	26.1	1.52	1.74	100	18.2	2110	1789.0	9.12	9.17	617	617	12.7	36.8	366	45194	119	8.2	201	427	1.86	1.02	.96	2.04	9.02	8.70
902	0635	1802.0	28.3	1.46	1.60	101	16.7	2120	1789.1	9.11	9.16	618	618	12.6	36.7	367	45247	120	8.2	157	426	1.86	.98	.92	2.04	9.02	8.70
903	0636	1802.3	14.7	1.44	1.64	101	19.5	2110	1789.3	9.11	9.16	619	619	12.6	36.7	366	45360	120	8.3	317	426	1.87	1.18	1.12	2.04	9.03	8.70
904	0638	1802.6	9.94	1.46	1.64	101	19.4	2120	1789.5	9.11	9.15	619	619	12.8	36.7	366	45527	120	8.3	595	426	1.87	1.27	1.21	2.05	9.04	8.70
905	0640	1802.9	7.17	1.46	1.56	101	19.5	2110	1790.3	9.11	9.15	618	618	12.7	36.7	364	45761	121	8.3	845	427	1.87	1.35	1.29	2.05	9.05	8.70
906	0648	1803.2	8.83	1.46	1.93	100	20.2	2030	1792.1	9.08	9.17	592	592	12.7	36.6	371	45966	121	8.4	575	427	1.88	1.31	1.25	2.05	9.06	8.70
907	0649	1803.8	56.1	1.52	2.15	97	15.4	2080	1792.1	9.08	9.17	604	604	12.7	36.6	368	46009	122	8.4	276	425	1.88	.79	.74	2.05	9.06	8.70
908	0650	1804.1	14.0	1.50	1.73	103	17.3	2070	1792.1	9.11	9.16	613	613	13.1	36.6	363	46133	122	8.4	752	425	1.88	1.15	1.10	2.05	9.07	8.70
909	0651	1804.4	12.3	1.43	1.56	103	18.5	2070	1792.2	9.09	9.15	613	613	13.0	36.6	361	46296	122	8.4	477	425	1.88	1.20	1.14	2.05	9.08	8.70
910	0653	1804.8	12.3	1.46	1.69	100	18.5	2060	1792.7	9.09	9.15	613	613	13.0	36.6	356	46459	123	8.4	454	425	1.89	1.19	1.14	2.05	9.08	8.70
911	0657	1805.3	7.53	1.61	2.30	99	18.6	2050	1793.2	9.06	9.14	613	613	12.1	36.5	353	46833	123	8.5	663	425	1.89	1.31	1.25	2.05	9.09	8.70
912	0658	1805.7	27.2	1.62	2.62	99	17.3	2050	1793.3	9.06	9.14	613	613	12.1	36.5	352	46911	123	8.5	435	425	1.89	.98	.93	2.05	9.09	8.70
913	0700	1805.9	5.32	1.61	1.97	99	19.8	2050	1793.5	9.03	9.11	613	613	12.1	36.6	351	47125	124	8.5	1084	425	1.90	1.41	1.36	2.05	9.10	8.70
914	0700	1806.3	38.8	1.75	2.07	99	18.3	2050	1793.6	9.03	9.11	613	613	12.1	36.6	351	47179	124	8.6	175	425	1.90	.91	.86	2.05	9.10	8.70
915	0701	1806.6	25.5	1.56	1.79	96	15.6	2050	1793.6	9.03	9.11	613	613	12.1	36.6	351	47236	124	8.6	187	424	1.90	.97	.91	2.05	9.10	8.70
916	0701	1806.9	44.2	1.50	1.74	100	17.3	2050	1793.7	9.03	9.11	613	613	12.1	36.6	351	47282	125	8.6	152	423	1.90	.87	.82	2.05	9.10	8.70
917	0702	1807.2	26.6	1.50	1.72	99	18.7	2050	1793.8	9.04	9.12	613	613	12.0	36.6	351	47337	125	8.6	186	423	1.90	1.01	.95	2.05	9.11	8.70
918	0703	1807.5	25.5	1.45	1.60	98	18.1	2050	1793.8	9.04	9.12	613	613	12.0	36.6	351	47406	125	8.6	178	422	1.90	1.01	.95	2.05	9.11	8.70
919	0704	1807.8	11.9	1.54	1.89	98	18.9	2050	1794.0	9.04	9.12	613	613	12.0	36.6	350	47532	126	8.6	368	422	1.91	1.20	1.14	2.05	9.11	8.70
920	0706	1808.1	8.84	1.53	1.76	98	18.5	2050	1794.2	9.02	9.14	614	614	11.9	36.7	350	47733	126	8.6	607	422	1.91	1.26	1.21	2.05	9.13	8.70
921	0707	1808.5	27.1	1.59	1.72	98	18.7	2050	1794.3	9.06	9.12	613	613	12.0	36.8	348	47816	126	8.7	328	422	1.91	1.00	.94	2.05	9.14	8.70
922	0709	1808.7	7.80	1.60	1.86	97	19.6	2050	1794.6	9.05	9.10	613	613	12.0	36.8	348	48017	126	8.7	7606	422	1.92	1.31	1.25	2.05	9.15	8.70
923	0711	1809.0	6.22	1.44	1.56	99	20.0	2040	1795.2	9.07	9.08	613	613	11.9	36.9	345	48260	127	8.7	779	423	1.92	1.37	1.31	2.05	9.16	8.70
924	0712	1809.3	18.1	1.50	1.95	98	20.7	2050	1795.7	9.07	9.08	613	613	11.9	36.9	349	48365	127	8.8	380	423	1.92	1.12	1.06	2.05	9.16	8.70
925	0713	1809.6	13.9	1.53	1.70	99	18.5	2050	1796.0	9.07	9.12	613	613	12.1	36.8	351	48474	127	8.8	352	422	1.92	1.15	1.09	2.05	9.17	8.70
926	0715	1810.0	17.0	1.53	2.04	101	18.8	2050	1796.4	9.07	9.12	614	614	12.1	36.8	357	48598	128	8.8	329	422	1.93	1.11	1.05	2.05	9.17	8.70
927	0716	1810.2	13.5	1.56	1.86	99	19.0	2050	1796.6	9.03	9.13	613	613	12.1	36.9	359	48706	128	8.8	381	422	1.93	1.17	1.11	2.05	9.19	8.70
928	0716	1810.5	26.7	1.62	1.82	99	19.4	2050	1796.7	9.03	9.13	613	613	12.1	36.9	362	48764	128	8.8	170	421	1.93	1.01	.95	2.05	9.19	8.70
929	0719	1810.8	7.77	1.86	2.36	97	20.0	2050	1797.3	9.03	9.14	613	613	12.4	36.8	368	48999	129	8.9	670	422	1.93	1.31	1.25	2.05	9.20	8.70
930	0721	1811.2	9.14	1.58	1.91	99	20.1	2050	1797.9	9.05	9.12	612	612	12.5	36.8	374	49216	129	8.9	600	422	1.94	1.27	1.21	2.06	9.21	8.70
931	0722	1811.4	13.3	1.65	2.06	98	19.7	2050	1798.2	9.05	9.12	612	612	12.5	36.8	377	49325	129	8.9	439	422	1.94	1.17	1.12	2.06	9.21	8.70
932	0725	1811.7	6.44	1.54	1.91	99	20.0	2050	1798.4	9.07	9.13	613	613	13.2	36.9	375	49593	130	9.0	1594	423	1.94	1.35	1.29	2.06	9.23	8.70
933	0726	1812.1	11.8	1.53	1.75	100	20.6	2060	1798.6	9.07	9.13	612	612	13.2	36.9	374	49755	130	9.0	533	423	1.95	1.22	1.16	2.06	9.23	8.70
934	0728	1812.3	10.4	1.50	1.74	101	21.2	2060	1799.2	9.07	9.12	613	613	13.1	36.9	372	49922	130	9.0	473	423	1.95	1.26	1.20	2.06	9.24	8.70
935	0731	1812.7	7.19	1.45	1.55	101	20.6	2060	1800.6	9.06	9.14	613	613	13.1	37.0	371	50188	130	9.1	1011	423	1.95	1.34	1.28	2.06	9.23	8.70
936	0738	1813.0	15.7	1.42	1.47	101	20.3	2040	1801.5	9.10	9.22	604	604	14.3	36.9	377	50223	131	9.1	627	423	1.96	1.15	1.09	2.06	9.22	8.70
937	0740	1813.6	21.0	1.47	2.01	98	15.1	2040	1801.8	9.10	9.22	609	609	14.3	36.9	370	50385	131	9.1	614	422	1.96	1.00	.94	2.06	9.21	8.70
938	0741	1813.9	13.8	1.79	2.58	96	19.9	2050	1801.9	9.04	9.23	608	608	13.7	36.9	368	50484	132	9.1	319	422	1.96	1.16	1.11	2.06	9.21	8.70
939	0742	1814.2	12.3	1.56	1.88	100	19.7	2050	1801.9	9.04	9.23	609	609	13.7	36.9	364	50629	132	9.1	467	422	1.96	1.20	1.14	2.06	9.21	8.70
940	0743	1814.5	30.8	1.75	2.42	100	18.6	2050	1802.0	9.02	9.20	609	609	13.3	36.9	364	50683	132	9.1	229	421	1.96	.96	.90	2.06	9.21	8.70
941	0743	1814.8	38.0	1.69	2.16	98	17.3	2050	1802.1	9.02	9.20	609	609	13.3	36.9	363	50734	133	9.2	166	420	1.96	.89	.84	2.06	9.21	8.70
942	0744	1815.1	15.6	1.59	1.91	101	18.2	2050	1802.4	9.02	9.20	610	610	13.3	36.9	363	50835	133	9.2	363	420	1.97	1.12	1.06	2.06	9.21	8.70
943	0745	1815.5	23.6	1.61	1.78	100	19.4	2040	1802.6	9.04	9.19	609	609	13.1	36.7	361	50927	133	9.2	242	420	1.97	1.04	.98	2.06	9.21	8.70
944	0747	1815.7	6.70	2.45	6.47	88	19.2	2040	1803.1	9.06	9.17	606	606	13.0	36.7	360	51111	134	9.2	594	420	1.97	1.30	1.25	2.06	9.20	8.70
945	0750	1816.0	8.19	2.05	6.19	98	19.7	2040	1803.5	9.05	9.18	610	610	12.7	36.7	360	51338	134	9.3	657	420	1.98	1.29	1.23	2.06	9.20	8.70
946	0751	1816.3	12.5	1.62	1.90	102	19.3	2050	1803.8	9.05	9.18	610	610	12.7	36.7	359	51480	134	9.3	432	420	1.98	1.19	1.13	2.06	9.20	8.70
947	0752	1816.6	18.3	1.59	1.80	101	18.5	2050	1803.9	9.05	9.20	609	609	12.6	36.8	358	51567	134	9.3	273	420	1.98	1.09	1.03	2.06	9.20	8.70
948	0753	1816.9	15.0	1.50	1.62	101	19.0	2050	1804.0	9.05	9.20	610	610	12.6	36.8	357	51691	135	9.3	267	420	1.98	1.14	1.08	2.06	9.20	8.70

AMOCO AUST. Tilana No.1 329146 Data Printed at time 18:16 Date Oct 9 '85
Data Recorded at time 07:55 Date Sep 24 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
949	0755	1817.2	8.67	1.49	1.61	103	19.3	2050	1804.5	9.05	9.24	610	610	12.7	36.8	357	51908	135	9.4	1053	420	1.99	1.28	1.22	2.06	9.20	8.70
950	0756	1817.5	12.3	1.63	1.89	101	19.4	2050	1804.9	9.06	9.20	610	610	12.4	36.9	356	52024	135	9.4	358	420	1.99	1.20	1.14	2.06	9.20	8.70
951	0758	1817.8	14.5	1.63	1.80	100	19.9	2040	1805.6	9.06	9.20	610	610	12.4	36.9	355	52150	136	9.4	326	420	1.99	1.16	1.10	2.06	9.19	8.70
952	0758	1818.1	68.8	1.57	1.72	101	18.9	2060	1805.7	9.06	9.20	610	610	12.4	36.9	354	52177	136	9.4	152	420	1.99	.78	.72	2.06	9.19	8.70
953	0759	1818.4	18.1	1.86	2.08	100	19.2	2050	1806.0	9.05	9.20	610	610	12.4	36.9	353	52275	136	9.4	185	419	1.99	1.10	1.04	2.06	9.19	8.70
954	0759	1818.7	36.9	2.40	4.57	98	18.7	2040	1806.2	9.05	9.20	610	610	12.4	36.9	354	52324	136	9.4	148	418	1.99	.92	.86	2.06	9.19	8.70
955	0800	1819.1	25.3	1.70	3.87	97	16.7	2040	1806.3	9.05	9.20	609	609	12.4	36.9	352	52392	137	9.4	197	418	1.99	.98	.92	2.06	9.19	8.70
956	0801	1819.4	17.3	1.79	2.41	101	18.8	2050	1806.6	9.04	9.22	610	610	12.2	36.8	352	52496	137	9.5	321	417	2.00	1.11	1.05	2.06	9.19	8.70
957	0803	1819.7	11.2	2.82	5.18	96	19.8	2060	1806.9	9.04	9.22	610	610	12.2	36.8	350	52645	137	9.5	331	417	2.00	1.21	1.15	2.07	9.19	8.70
958	0804	1820.0	18.2	2.72	4.93	98	18.6	2050	1807.1	9.04	9.21	612	612	12.6	36.8	351	52744	138	9.5	275	417	2.00	1.08	1.03	2.07	9.19	8.70
959	0805	1820.3	15.5	2.67	7.01	93	18.5	2060	1807.3	9.04	9.21	610	610	12.6	36.8	350	52863	138	9.5	494	417	2.00	1.10	1.05	2.07	9.19	8.70
960	0806	1820.6	12.0	3.50	6.00	98	18.4	2050	1807.5	9.05	9.23	611	611	12.7	36.8	349	52992	138	9.5	545	417	2.00	1.18	1.12	2.07	9.19	8.70
961	0807	1820.9	16.0	1.76	3.59	103	17.4	2040	1807.7	9.04	9.19	610	610	12.7	36.8	348	53105	139	9.6	309	416	2.01	1.11	1.05	2.07	9.19	8.70
962	0809	1821.2	12.2	2.09	2.54	101	18.8	2050	1808.0	9.04	9.19	611	611	12.7	36.8	348	53255	139	9.6	360	416	2.01	1.19	1.13	2.07	9.19	8.70
963	0810	1821.5	11.6	1.94	2.36	101	18.7	2050	1808.4	9.04	9.22	611	611	12.7	37.0	348	53416	139	9.6	495	417	2.01	1.20	1.14	2.07	9.19	8.70
964	0812	1821.8	14.4	1.82	3.98	103	18.9	2050	1808.7	9.04	9.22	611	611	12.7	37.0	348	53542	140	9.6	372	416	2.01	1.16	1.10	2.07	9.19	8.70
965	0813	1822.1	16.9	2.50	4.45	95	18.9	2040	1809.0	9.06	9.20	611	611	12.7	36.9	348	53644	140	9.6	316	416	2.02	1.10	1.04	2.07	9.19	8.70
966	0822	1822.6	9.47	2.19	4.71	98	19.8	2060	1810.1	9.00	9.17	613	613	13.7	36.9	352	53762	140	9.7	445	416	2.02	1.26	1.20	2.07	9.18	8.70
967	0822	1823.0	71.3	1.56	2.03	98	11.5	2050	1810.2	9.00	9.17	613	613	13.7	36.9	349	53830	141	9.7	262	414	2.02	.68	.63	2.07	9.19	8.70
968	0823	1823.3	20.9	1.68	2.12	100	14.7	2050	1810.3	9.00	9.17	613	613	13.7	36.9	349	53881	141	9.7	334	414	2.02	1.00	.94	2.07	9.19	8.70
969	0824	1823.6	22.5	1.65	2.06	100	15.0	2050	1810.5	8.99	9.16	614	614	13.5	37.0	346	53955	141	9.7	200	413	2.02	.99	.93	2.07	9.19	8.70
970	0826	1823.9	11.1	1.64	1.85	100	19.2	2050	1810.7	8.99	9.16	613	613	13.5	37.0	344	54105	142	9.7	355	413	2.02	1.22	1.16	2.07	9.19	8.70
971	0827	1824.3	15.1	1.63	2.06	101	18.8	2060	1810.9	8.96	9.18	613	613	13.1	37.0	343	54225	142	9.7	361	413	2.03	1.14	1.08	2.07	9.19	8.70
972	0828	1824.5	13.1	1.56	1.64	101	18.7	2050	1811.1	8.96	9.18	613	613	13.1	37.0	342	54340	142	9.8	329	413	2.03	1.17	1.11	2.07	9.19	8.70
973	0829	1825.0	20.3	1.54	1.68	101	17.9	2060	1811.3	8.98	9.14	613	613	13.1	36.8	342	54473	143	9.8	264	413	2.03	1.06	1.00	2.07	9.19	8.70
974	0831	1825.5	18.9	1.61	2.04	99	17.7	2050	1811.5	9.03	9.11	614	614	13.0	36.8	341	54618	143	9.8	352	412	2.03	1.07	1.01	2.07	9.19	8.70
975	0832	1825.8	11.1	1.59	1.78	101	17.4	2050	1811.5	9.03	9.11	614	614	13.0	36.8	337	54781	144	9.8	561	412	2.04	1.19	1.13	2.07	9.19	8.70
976	0833	1826.1	15.5	1.68	1.94	100	17.5	2060	1811.6	9.03	9.07	614	614	12.9	36.9	337	54879	144	9.9	366	412	2.04	1.11	1.05	2.07	9.20	8.70
977	0834	1826.4	21.9	1.65	2.13	99	16.0	1920	1811.8	9.03	9.07	613	613	12.9	36.9	336	54962	144	9.9	230	412	2.04	1.01	.95	2.07	9.20	8.70
978	0835	1826.7	37.8	1.57	1.71	100	15.7	2040	1811.9	9.03	9.07	614	614	12.9	36.9	337	55012	144	9.9	211	411	2.04	.88	.82	2.07	9.20	8.70
979	0836	1827.0	10.2	1.50	1.72	101	17.5	2050	1812.3	9.03	9.05	613	613	12.6	37.0	337	55175	145	9.9	498	411	2.04	1.21	1.15	2.07	9.20	8.70
980	0837	1827.4	25.4	1.82	2.63	100	16.7	2050	1812.5	9.03	9.05	613	613	12.6	37.0	337	55265	145	9.9	255	411	2.04	.98	.92	2.07	9.20	8.70
981	0838	1827.6	18.5	1.65	1.88	101	16.9	2050	1812.7	9.02	9.05	613	613	12.7	37.0	335	55352	145	9.9	257	410	2.05	1.06	1.00	2.07	9.20	8.70
982	0839	1827.9	20.1	1.86	2.25	98	17.6	2050	1813.0	9.02	9.05	613	613	12.7	37.0	334	55426	146	9.9	214	410	2.05	1.05	.99	2.08	9.20	8.70
983	0839	1828.2	34.4	1.94	2.46	98	15.1	2050	1813.3	9.02	9.05	613	613	12.7	37.0	335	55478	146	10.0	170	410	2.05	.89	.83	2.08	9.20	8.70
984	0840	1828.5	31.5	2.08	4.81	96	14.5	2060	1813.5	9.02	9.05	612	612	12.7	37.0	334	55534	146	10.0	164	409	2.05	.89	.84	2.08	9.20	8.70
985	0840	1828.8	27.3	2.41	2.74	98	17.3	2060	1813.7	9.02	9.05	612	612	12.8	37.0	334	55597	147	10.0	173	408	2.05	.97	.91	2.08	9.20	8.70
986	0841	1829.1	53.5	1.98	2.30	97	16.6	2060	1813.8	9.02	9.05	613	613	12.8	37.0	332	55630	147	10.0	142	408	2.05	.80	.75	2.08	9.20	8.70
987	0841	1829.4	22.3	1.80	2.22	98	16.0	2050	1813.9	9.02	9.05	613	613	12.8	37.0	331	55691	147	10.0	169	407	2.05	1.00	.94	2.08	9.20	8.70
988	0842	1829.7	24.8	1.57	1.78	100	14.8	2060	1814.1	9.02	9.05	613	613	12.8	37.0	334	55763	148	10.0	196	407	2.05	.96	.90	2.08	9.20	8.70
989	0843	1830.1	37.7	1.60	1.88	102	16.0	2060	1814.2	9.02	9.05	612	612	12.8	36.9	332	55818	148	10.0	158	406	2.06	.89	.83	2.08	9.20	8.70
990	0843	1830.3	37.9	1.57	1.75	104	17.8	2060	1814.3	9.02	9.05	613	613	12.8	36.9	333	55861	148	10.0	213	406	2.06	.91	.85	2.08	9.20	8.70
991	0844	1830.7	23.2	1.51	2.14	102	15.8	2070	1814.4	9.02	9.05	614	614	12.8	36.9	332	55950	148	10.0	244	405	2.06	1.00	.94	2.08	9.20	8.70
992	0845	1831.0	17.4	1.59	2.18	103	16.3	2060	1814.5	9.03	9.05	614	614	12.9	36.9	331	56034	149	10.0	236	405	2.06	1.07	1.01	2.08	9.20	8.70
993	0845	1831.3	19.7	1.86	2.74	101	16.2	2060	1814.6	9.03	9.05	614	614	12.9	36.9	332	56100	149	10.1	191	405	2.06	1.04	.98	2.08	9.20	8.70
994	0847	1831.6	8.59	1.91	3.14	100	17.8	2060	1814.9	9.03	9.05	613	613	13.0	36.9	331	56273	149	10.1	548	405	2.06	1.25	1.19	2.08	9.19	8.70
995	0849	1831.9	12.8	1.50	1.70	102	18.4	2050	1815.3	9.03	9.05	614	614	13.0	36.9	329	56419	150	10.1	356	405	2.07	1.17	1.11	2.08	9.19	8.70
996	0942	1832.2	7.98	1.57	1.85	100	18.9	2010	1818.7	8.99	9.21	599	599	13.9	35.3	281	56604	150	10.1	621	405	2.07	1.29	1.23	2.08	9.17	8.70
997	0943	1833.1	24.6	1.74	2.12	94	15.2	2000	1819.0	8.99	9.21	602	602	13.9	35.3	277	56683	151	10.2	311	403	2.07	.96	.90	2.08	9.17	8.70
998	0946	1833.4	6.07	1.72	1.98	96	17.5	1990	1819.7	8.94	9.19	602	602	13.9	33.3	278	56924	151	10.2	1252	403	2.07	1.32	1.26	2.08	9.17	8.70

AMOCO AUST. Tilana No.1 329147 Data Printed at time 18:21 Date Oct 9
Data Recorded at time 09:47 Date Sep 24 '85

F#	TIME	DEPTH	ROP	TORQUE		RPM	WOB	PUMP	RTRNS	MW lb/gal		FLOW/MIN		TEMP (C)		PVT	THIS BIT			COST		EST	DXC	NX	NXB	ECD	EST
		m	m/hr	AVG	MAX	AVG	AVG	PRES	DEPTH	IN	OUT	IN	OUT	IN	OUT		REVS	m	hrs	INST	RUN	TM					FM PR
999	0947	1833.7	17.6	1.58	1.87	103	18.5	1980	1819.9	8.95	9.16	604	604	14.2	34.0	284	57046	151	10.2	555	403	2.08	1.10	1.04	2.08	9.17	8.70
1000	0949	1834.0	6.38	1.52	1.63	102	18.1	2000	1820.4	9.32	9.17	604	604	15.3	34.4	286	57293	152	10.3	454	404	2.08	1.34	1.27	2.08	9.17	8.70
1001	0953	1834.3	5.58	1.52	1.62	102	18.6	2010	1821.0	9.73	9.17	607	607	16.3	35.7	286	57638	152	10.3	1040	405	2.09	1.38	1.31	2.08	9.16	8.70
1002	0955	1834.6	10.3	1.53	1.60	103	18.7	2000	1821.0	8.94	9.14	607	607	17.9	36.2	284	57818	152	10.3	661	405	2.09	1.24	1.17	2.08	9.17	8.70
1003	0956	1834.9	9.43	1.51	1.79	102	17.4	2010	1821.3	8.95	9.13	605	605	20.8	36.5	283	58013	153	10.4	567	405	2.09	1.23	1.17	2.08	9.16	8.70
1004	0958	1835.2	9.14	1.51	1.61	102	17.6	2000	1821.9	8.94	9.11	604	604	22.2	36.5	281	58196	153	10.4	451	406	2.10	1.24	1.18	2.08	9.16	8.70
2	1002	1836.2	18.8	1.73	2.00	99	18.6	1990	1822.9	8.95	9.10	604	604	23.8	36.6	280	58565	154	10.5	306	405	2.10	1.08	1.02	2.08	9.16	8.70
3	1003	1836.5	11.7	1.74	2.12	100	18.4	2000	1823.4	8.93	9.12	605	605	24.4	36.7	278	58717	154	10.5	559	405	2.11	1.19	1.13	2.09	9.15	8.70
4	1004	1836.7	22.2	1.48	1.61	102	17.0	1990	1823.6	8.93	9.12	606	606	24.4	36.7	277	58791	155	10.5	205	405	2.11	1.03	.97	2.09	9.15	8.70
5	1005	1837.0	19.5	1.76	2.11	101	16.1	1980	1823.8	8.95	9.11	605	605	24.2	36.7	279	58865	155	10.5	219	405	2.11	1.04	.98	2.09	9.15	8.70
6	1006	1837.3	13.1	1.67	2.08	100	18.8	1990	1824.1	8.95	9.11	605	605	24.2	36.7	279	59005	155	10.5	330	404	2.11	1.18	1.11	2.09	9.15	8.70
7	1007	1837.6	15.5	1.59	1.67	101	18.9	1990	1824.4	8.95	9.12	606	606	24.6	36.7	279	59123	155	10.6	325	404	2.11	1.14	1.07	2.09	9.16	8.70
8	1008	1837.9	15.4	1.62	1.74	101	18.8	1990	1824.7	8.95	9.12	605	605	24.6	36.7	277	59215	156	10.6	300	404	2.11	1.14	1.07	2.09	9.16	8.70
9	1009	1838.3	16.9	1.66	1.85	100	19.0	2000	1825.0	8.95	9.13	605	605	24.6	36.8	277	59322	156	10.6	293	404	2.12	1.12	1.05	2.09	9.16	8.70
10	1011	1838.6	13.5	1.82	2.15	100	18.3	2000	1825.4	8.95	9.13	606	606	24.6	36.8	277	59454	156	10.6	347	404	2.12	1.16	1.09	2.09	9.19	8.70
11	1012	1838.9	17.8	1.91	2.12	99	18.6	1990	1825.8	8.95	9.13	606	606	24.6	36.8	275	59554	157	10.6	296	403	2.12	1.09	1.03	2.09	9.19	8.70
12	1013	1839.2	19.0	1.55	1.94	102	17.7	2010	1826.0	8.95	9.13	606	606	24.6	36.8	275	59651	157	10.6	278	403	2.12	1.07	1.01	2.09	9.19	8.70
13	1014	1839.5	11.9	1.65	1.87	100	18.0	1990	1826.7	8.92	9.13	606	606	25.4	36.8	280	59819	157	10.7	470	403	2.12	1.18	1.12	2.09	9.19	8.70
14	1015	1839.8	17.6	1.79	2.05	100	19.1	1980	1827.1	8.92	9.13	607	607	25.4	36.8	281	59901	158	10.7	260	403	2.13	1.11	1.04	2.09	9.18	8.70
15	1017	1840.1	9.98	1.77	2.18	100	18.3	2010	1828.1	8.92	9.16	606	606	26.4	36.8	284	60084	158	10.7	479	403	2.13	1.23	1.17	2.09	9.17	8.70
16	1019	1840.4	8.80	1.96	2.24	98	18.6	1980	1829.1	8.95	9.17	606	606	26.2	36.8	287	60283	158	10.8	527	403	2.13	1.26	1.20	2.09	9.17	8.70
17	1020	1840.7	15.2	1.56	1.86	101	18.6	1980	1829.7	8.95	9.17	606	606	26.2	36.8	289	60406	158	10.8	402	403	2.14	1.14	1.07	2.09	9.17	8.70
18	1022	1841.0	10.7	1.62	1.98	101	19.5	2000	1830.1	8.95	9.18	606	606	26.3	37.0	292	60571	159	10.8	438	403	2.14	1.23	1.17	2.09	9.16	8.70
19	1023	1841.3	14.5	1.71	1.91	101	18.7	2000	1830.3	8.95	9.18	605	605	26.3	37.0	293	60698	159	10.8	579	404	2.14	1.15	1.09	2.09	9.16	8.70
20	1025	1841.6	9.55	1.77	2.09	100	18.5	1980	1830.7	8.98	9.17	607	607	26.1	37.1	296	60883	159	10.9	537	403	2.14	1.24	1.18	2.09	9.16	8.70
21	1032	1842.0	42.2	1.57	1.71	99	13.4	2070	1830.8	8.96	9.15	608	608	25.7	37.1	322	60943	160	10.9	211	403	2.14	.82	.77	2.09	9.16	8.70
22	1033	1842.3	11.5	1.84	2.32	101	15.5	2080	1830.8	8.96	9.15	612	612	25.7	37.1	322	61072	160	10.9	1888	403	2.15	1.15	1.09	2.09	9.16	8.70
23	1035	1842.5	11.5	1.99	2.38	103	17.2	2080	1830.8	9.02	9.13	613	613	25.2	37.1	321	61212	160	10.9	436	403	2.15	1.18	1.12	2.09	9.16	8.70
24	1040	1842.9	19.6	2.00	2.37	101	17.5	2090	1830.8	9.02	9.10	609	609	25.0	36.9	340	61318	161	10.9	296	403	2.15	1.06	1.00	2.09	9.16	8.70
25	1041	1843.2	12.5	1.75	2.03	102	17.9	2060	1831.0	9.01	9.07	611	611	24.8	36.7	340	61451	161	10.9	494	403	2.15	1.18	1.11	2.09	9.16	8.70
26	1042	1843.4	17.7	1.76	1.95	99	19.6	2070	1831.5	9.01	9.07	610	610	24.8	36.7	339	61538	161	11.0	271	402	2.15	1.11	1.05	2.09	9.16	8.70
27	1043	1843.8	20.1	1.53	1.62	101	20.0	2080	1831.9	9.01	9.07	611	611	24.5	36.9	342	61641	161	11.0	89	402	2.16	1.09	1.03	2.09	9.15	8.70
28	1045	1844.1	9.63	1.64	2.07	100	19.5	2080	1832.0	9.01	9.07	610	610	24.5	36.9	344	61793	162	11.0	1125	402	2.16	1.26	1.19	2.09	9.15	8.70
29	1045	1844.3	26.0	1.90	2.13	98	19.5	2080	1832.1	9.01	9.07	610	610	24.5	36.9	344	61853	162	11.0	176	402	2.16	1.02	.95	2.09	9.15	8.70
30	1046	1844.7	14.9	1.84	2.35	98	19.0	2080	1832.3	9.00	9.10	610	610	24.3	36.9	348	61969	162	11.0	413	402	2.16	1.14	1.08	2.10	9.15	8.70
31	1048	1845.0	14.3	1.90	2.38	97	18.5	2080	1832.5	9.00	9.10	611	611	24.3	36.9	351	62093	163	11.1	324	401	2.16	1.14	1.08	2.10	9.15	8.70
32	1049	1845.3	16.4	1.81	3.35	98	18.7	2080	1832.6	8.99	9.08	611	611	24.2	36.9	355	62205	163	11.1	328	401	2.17	1.12	1.05	2.10	9.15	8.70
33	1050	1845.6	15.7	2.30	3.93	96	18.5	2090	1832.8	8.96	9.09	610	610	24.2	36.6	357	62327	163	11.1	643	401	2.17	1.12	1.06	2.10	9.15	8.70
34	1051	1845.9	24.5	1.84	2.31	101	18.6	2090	1832.8	8.96	9.09	610	610	24.2	36.6	360	62400	164	11.1	334	401	2.17	1.03	.96	2.10	9.15	8.70
35	1052	1846.2	14.0	2.23	2.81	100	19.4	2090	1832.9	8.96	9.09	610	610	24.2	36.6	362	62512	164	11.1	296	401	2.17	1.17	1.10	2.10	9.15	8.70
36	1053	1846.5	21.3	2.44	3.04	100	19.1	2090	1833.1	8.95	9.14	610	610	24.3	36.7	366	62598	164	11.1	252	400	2.17	1.06	1.00	2.10	9.15	8.70
37	1054	1846.8	21.9	2.24	4.05	99	19.1	2100	1833.2	8.95	9.14	610	610	24.3	36.7	367	62687	165	11.2	247	400	2.17	1.05	.99	2.10	9.15	8.70
38	1054	1847.1	22.4	1.98	2.33	101	18.8	2090	1833.3	8.99	9.12	610	610	24.3	36.6	370	62753	165	11.2	187	400	2.17	1.05	.99	2.10	9.15	8.70
39	1055	1847.4	33.5	1.85	2.46	100	18.2	2090	1833.4	8.99	9.12	610	610	24.3	36.6	371	62813	165	11.2	-182	399	2.18	.95	.88	2.10	9.15	8.70
40	1056	1847.7	19.1	1.74	2.27	102	18.1	2100	1833.5	8.99	9.12	610	610	24.3	36.6	373	62898	165	11.2	314	399	2.18	1.08	1.02	2.10	9.15	8.70
41	1057	1848.0	18.3	1.63	2.10	103	20.2	2090	1833.7	8.98	9.12	610	610	24.2	36.6	375	62990	166	11.2	233	399	2.18	1.12	1.06	2.10	9.15	8.70
42	1057	1848.3	29.0	1.75	2.13	102	19.8	2090	1833.8	8.98	9.12	609	609	24.2	36.6	378	63060	166	11.2	238	398	2.18	1.00	.94	2.10	9.15	8.70
43	1058	1848.6	15.1	1.56	1.69	104	19.2	2090	1834.1	8.98	9.12	610	610	24.2	36.6	378	63167	166	11.2	300	398	2.18	1.16	1.09	2.10	9.15	8.70
44	1100	1848.9	13.9	1.99	2.45	102	19.3	2100	1834.4	9.01	9.13	611	611	23.9	36.5	381	63298	167	11.3	332	398	2.18	1.17	1.11	2.10	9.15	8.7
45	1101	1849.2	15.7	2.02	2.62	100	20.7	2110	1834.7	9.01	9.13	611	611	23.9	36.5	383	63415	167	11.3	339	398	2.19	1.16	1.09	2.10	9.15	8.7

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Data Recorded at time 11:02 Date Sep 24 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
46	1102	1849.6	19.3	2.12	3.90	100	19.3	2110	1835.0	9.00	9.15	611	611	23.9	36.5	385	63500	167	11.3	278	398	2.19	1.09	1.02	2.10	9.15	8.70
47	1103	1849.9	17.9	1.71	2.55	103	19.0	2100	1835.3	9.00	9.15	611	611	23.9	36.5	388	63601	168	11.3	304	397	2.19	1.11	1.04	2.10	9.15	8.70
48	1104	1850.1	15.8	1.56	1.64	104	19.7	2090	1835.5	9.08	9.18	610	610	23.8	36.5	389	63706	168	11.3	388	397	2.19	1.15	1.08	2.10	9.15	8.70
49	1105	1850.4	16.4	1.62	1.79	102	20.3	2080	1835.8	9.08	9.18	609	609	23.8	36.5	394	63809	168	11.3	272	397	2.19	1.15	1.08	2.10	9.16	8.70
50	1106	1850.8	14.6	2.31	3.76	99	19.2	2090	1836.1	9.13	9.16	609	609	23.8	36.4	396	63932	169	11.4	453	397	2.20	1.15	1.09	2.10	9.16	8.70
51	1107	1851.1	12.8	3.56	5.12	97	19.1	2090	1836.5	9.13	9.16	610	610	23.8	36.4	399	64058	169	11.4	392	397	2.20	1.18	1.11	2.10	9.16	8.70
52	1122	1851.4	23.4	4.52	7.45	85	15.3	2090	1838.7	9.16	9.27	594	594	24.8	36.1	406	64126	169	11.4	360	397	2.20	.96	.90	2.10	9.10	8.70
53	1123	1851.7	14.5	4.19	7.32	83	10.7	2090	1838.9	9.16	9.27	606	606	24.8	36.1	399	64232	169	11.4	545	397	2.20	.98	.93	2.10	9.10	8.70
54	1131	1852.0	10.2	1.91	7.59	113	11.6	2090	1840.3	9.08	9.21	611	611	22.0	35.9	383	64394	170	11.4	433	396	2.20	1.13	1.07	2.10	9.11	8.70
55	1131	1852.3	21.9	1.55	2.41	106	16.0	2090	1840.4	9.08	9.21	610	610	22.0	35.9	383	64482	170	11.5	231	396	2.20	1.03	.96	2.10	9.11	8.70
56	1132	1852.6	43.9	2.65	3.84	102	24.6	2090	1840.4	9.08	9.21	609	609	22.0	35.9	381	64524	170	11.5	129	396	2.21	.96	.89	2.10	9.11	8.70
57	1133	1852.9	12.0	2.80	5.89	106	19.0	2100	1840.5	9.08	9.20	611	611	22.0	36.2	379	64683	171	11.5	380	396	2.21	1.22	1.15	2.10	9.12	8.70
58	1135	1853.2	12.7	1.89	2.64	113	18.2	2100	1840.8	9.08	9.20	612	612	22.0	36.2	379	64830	171	11.5	351	396	2.21	1.21	1.14	2.11	9.12	8.70
59	1136	1853.5	14.7	1.73	1.95	114	18.7	2110	1840.9	9.09	9.20	612	612	22.0	36.4	380	64955	171	11.5	335	396	2.21	1.18	1.11	2.11	9.13	8.70
60	1137	1853.8	18.0	2.00	2.22	112	16.5	2110	1841.0	9.09	9.20	613	613	22.0	36.4	377	65069	172	11.5	238	395	2.22	1.09	1.03	2.11	9.13	8.70
61	1138	1854.1	16.9	1.82	2.16	113	18.6	2110	1841.2	9.09	9.20	614	614	22.0	36.4	376	65191	172	11.6	286	395	2.22	1.14	1.07	2.11	9.13	8.70
62	1139	1854.4	18.3	1.85	2.29	113	17.4	2100	1841.3	9.09	9.20	613	613	22.0	36.4	377	65302	172	11.6	266	395	2.22	1.10	1.04	2.11	9.13	8.70
63	1140	1854.7	17.7	1.92	2.19	113	17.9	2100	1841.5	9.10	9.20	613	613	21.1	36.4	376	65416	172	11.6	387	395	2.22	1.12	1.05	2.11	9.15	8.70
64	1141	1855.0	24.4	1.88	2.12	113	21.2	2100	1841.7	9.10	9.20	613	613	21.1	36.4	376	65501	173	11.6	249	394	2.22	1.09	1.02	2.11	9.15	8.70
65	1141	1855.3	31.1	2.28	2.58	113	26.6	2100	1841.9	9.10	9.20	614	614	21.1	36.4	378	65560	173	11.6	141	394	2.22	1.09	1.02	2.11	9.15	8.70
66	1142	1856.0	31.3	2.48	3.84	110	30.0	2120	1842.1	9.17	9.17	614	614	20.4	36.3	378	65663	174	11.6	207	393	2.23	1.12	1.04	2.11	9.15	8.70
67	1143	1856.3	39.1	2.19	2.70	110	29.9	2100	1842.3	9.17	9.17	614	614	20.4	36.3	377	65719	174	11.6	132	393	2.23	1.06	.98	2.11	9.16	8.70
68	1143	1856.6	54.9	2.12	2.22	110	29.2	2110	1842.3	9.17	9.17	615	615	20.4	36.3	379	65746	174	11.6	169	392	2.23	.96	.88	2.11	9.16	8.70
69	1143	1856.8	26.8	1.95	2.18	113	26.4	2110	1842.5	9.17	9.17	615	615	20.4	36.3	379	65817	175	11.7	167	392	2.23	1.13	1.05	2.11	9.16	8.70
70	1144	1857.2	54.5	2.00	2.22	113	26.9	2110	1842.6	9.17	9.17	614	614	20.4	36.3	376	65854	175	11.7	108	391	2.23	.95	.87	2.11	9.16	8.70
71	1144	1857.5	28.2	1.86	2.33	111	28.9	2100	1842.7	9.19	9.23	614	614	20.5	36.2	378	65927	175	11.7	169	391	2.23	1.14	1.06	2.11	9.17	8.70
72	1146	1857.8	16.5	1.86	2.34	112	27.6	2110	1843.1	9.19	9.23	614	614	20.5	36.2	377	66073	176	11.7	370	391	2.23	1.27	1.19	2.11	9.17	8.70
73	1146	1858.1	20.4	1.73	2.22	113	27.0	2120	1843.3	9.19	9.23	616	616	20.5	36.2	377	66154	176	11.7	225	391	2.23	1.20	1.13	2.11	9.17	8.70
74	1147	1858.4	16.5	2.08	2.50	112	28.1	2110	1843.6	9.18	9.22	617	617	20.5	36.2	377	66253	176	11.7	251	390	2.24	1.27	1.19	2.11	9.18	8.70
75	1148	1858.7	15.8	1.76	2.07	112	28.1	2120	1843.9	9.18	9.22	617	617	20.5	36.2	374	66380	176	11.7	334	390	2.24	1.28	1.20	2.11	9.18	8.70
76	1150	1859.0	13.9	1.90	2.27	112	28.3	2120	1844.3	9.16	9.21	617	617	20.5	36.1	373	66537	177	11.8	378	390	2.24	1.32	1.24	2.11	9.18	8.70
77	1151	1859.3	15.0	1.88	2.24	107	29.6	2120	1844.6	9.16	9.21	618	618	20.5	36.1	370	66657	177	11.8	300	390	2.24	1.30	1.23	2.11	9.18	8.70
78	1152	1859.6	15.0	2.08	2.35	104	29.7	2110	1845.0	9.13	9.23	617	617	20.4	36.1	369	66790	177	11.8	347	390	2.25	1.29	1.22	2.11	9.19	8.70
79	1153	1859.9	14.1	1.80	1.93	104	28.2	2110	1845.5	9.13	9.23	617	617	20.4	36.1	369	66901	178	11.8	365	390	2.25	1.29	1.22	2.11	9.19	8.70
80	1154	1860.2	17.7	1.72	1.85	104	29.1	2110	1845.9	9.13	9.25	617	617	20.4	36.2	365	67009	178	11.8	293	390	2.25	1.24	1.17	2.11	9.19	8.70
81	1155	1860.5	14.5	1.78	2.43	104	26.8	2080	1846.3	9.13	9.25	615	615	20.4	36.2	361	67125	178	11.9	387	389	2.25	1.27	1.19	2.11	9.19	8.70
82	1245	1860.8	28.7	1.77	2.12	98	14.8	2000	1849.3	9.12	9.25	600	600	21.9	34.2	352	67194	179	11.9	342	389	2.25	1.12	.75	2.11	9.19	8.70
83	1245	1861.1	25.9	2.08	2.26	101	23.6	2010	1849.4	9.12	9.25	600	600	21.9	34.2	352	67217	179	11.9	185	389	2.25	1.15	1.07	2.11	9.19	8.70
84	1246	1861.4	18.7	2.15	2.69	100	28.0	2000	1849.6	9.12	9.25	601	601	21.9	34.2	352	67309	179	11.9	248	388	2.26	1.21	1.13	2.12	9.20	8.70
85	1247	1861.7	28.4	2.18	2.71	100	29.6	2020	1849.7	9.14	9.22	601	601	21.9	35.5	352	67372	180	11.9	179	388	2.26	1.11	1.04	2.12	9.21	8.70
86	1248	1862.0	17.9	2.12	2.86	100	26.7	2010	1849.8	9.14	9.22	601	601	21.9	35.5	351	67474	180	11.9	285	388	2.26	1.20	1.13	2.12	9.21	8.70
87	1248	1862.3	26.7	2.19	2.78	99	30.6	2010	1849.9	9.14	9.22	601	601	21.9	35.5	350	67542	180	11.9	210	387	2.26	1.13	1.06	2.12	9.21	8.70
88	1249	1862.6	23.2	2.30	2.92	101	28.0	2010	1849.9	9.13	9.20	600	600	22.0	35.4	352	67619	180	11.9	242	387	2.26	1.15	1.07	2.12	9.22	8.70
89	1250	1863.0	31.1	2.04	2.64	100	25.5	2000	1849.9	9.13	9.20	599	599	22.0	35.4	351	67682	181	12.0	-174	387	2.26	1.04	.97	2.12	9.22	8.70
90	1250	1863.2	28.3	1.82	2.26	101	23.4	2000	1849.9	9.13	9.20	599	599	22.0	35.4	351	67734	181	12.0	188	387	2.26	1.04	.97	2.12	9.22	8.70
91	1251	1863.6	40.4	1.99	2.97	101	26.8	2010	1849.9	9.13	9.18	599	599	21.9	35.3	350	67779	181	12.0	123	386	2.26	.99	.91	2.12	9.23	8.70
92	1252	1863.9	17.8	1.94	2.41	101	26.2	1990	1849.9	9.13	9.18	598	598	21.9	35.3	350	67887	182	12.0	338	386	2.26	1.19	1.12	2.12	9.23	8.70
93	1253	1864.2	9.97	1.79	3.23	101	26.9	2010	1849.9	9.14	9.15	598	598	22.0	35.8	349	68069	182	12.0	565	386	2.27	1.35	1.28	2.12	9.24	8.70
94	1255	1864.5	13.0	2.13	2.96	101	26.5	2020	1849.9	9.14	9.15	600	600	22.0	35.8	349	68197	182	12.0	405	386	2.27	1.28	1.20	2.12	9.24	8.70
95	1256	1864.8	10.4	1.72	2.32	102	25.6	2010	1850.2	9.13	9.13	600	600	22.1	36.1	348	68373	183	12.1	427	386	2.27	1.32	1.25	2.12	9.25	8.70

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Data Printed at time 18:58 Date Oct 9
Data Recorded at time 12:57 Date Sep 24 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TV	DXC	NX	NKB	ECD	ES FM
96	1257	1865.1	22.3	2.06	2.74	100	27.2	2010	1850.3	9.13	9.13	600	600	22.1	36.1	348	68455	183	12.1	250	386	2.27	1.14	1.07	2.12	9.25	8.70
97	1259	1865.4	14.4	1.89	2.22	102	27.6	2010	1850.4	9.13	9.11	599	599	22.3	36.3	347	68580	183	12.1	335	386	2.28	1.26	1.19	2.12	9.26	8.70
98	1300	1865.7	15.4	1.70	1.83	102	27.4	2010	1850.4	9.13	9.11	599	599	22.3	36.3	345	68700	183	12.1	343	386	2.28	1.25	1.17	2.12	9.26	8.70
99	1301	1866.0	15.5	1.85	2.62	101	27.6	2020	1850.4	9.14	9.12	600	600	22.3	36.5	345	68816	184	12.1	293	386	2.28	1.24	1.17	2.12	9.27	8.70
100	1302	1866.3	27.2	2.09	2.60	100	25.8	2020	1850.4	9.14	9.12	601	601	22.3	36.5	345	68883	184	12.2	182	385	2.28	1.07	1.00	2.12	9.27	8.70
101	1302	1866.6	42.7	1.82	2.59	101	25.4	2010	1850.4	9.14	9.12	601	601	22.3	36.5	344	68928	184	12.2	143	385	2.28	.96	.88	2.12	9.27	8.70
102	1303	1866.9	20.7	1.97	2.20	101	23.3	2010	1850.4	9.13	9.10	600	600	22.4	36.5	344	69014	185	12.2	224	385	2.28	1.11	1.04	2.12	9.28	8.70
103	1304	1867.2	19.8	2.13	2.43	99	25.7	2020	1850.6	9.13	9.10	600	600	22.4	36.5	344	69099	185	12.2	225	384	2.28	1.15	1.08	2.12	9.28	8.70
104	1304	1867.5	39.7	1.71	1.89	102	26.5	2020	1850.6	9.13	9.10	601	601	22.4	36.5	344	69145	185	12.2	126	384	2.29	.99	.91	2.12	9.28	8.70
105	1305	1867.8	40.3	1.87	2.11	101	26.2	2030	1850.7	9.13	9.10	602	602	22.4	36.5	345	69192	186	12.2	173	384	2.29	.98	.90	2.12	9.28	8.70
106	1305	1868.1	19.4	1.91	2.84	99	25.4	2020	1850.9	9.13	9.11	602	602	22.3	36.5	343	69276	186	12.2	238	383	2.29	1.15	1.08	2.12	9.29	8.70
107	1307	1868.5	17.6	1.74	2.08	101	23.9	2030	1851.3	9.13	9.11	603	603	22.3	36.5	343	69395	186	12.2	249	383	2.29	1.16	1.09	2.12	9.28	8.70
108	1307	1868.8	35.9	1.80	1.89	101	25.0	2040	1851.5	9.13	9.11	604	604	22.3	36.5	343	69441	186	12.2	164	383	2.29	.99	.92	2.12	9.29	8.70
109	1308	1869.0	30.7	1.84	2.07	100	25.2	2040	1851.6	9.12	9.15	604	604	22.4	36.6	342	69494	187	12.3	148	382	2.29	1.03	.96	2.12	9.29	8.70
110	1308	1869.3	31.2	1.72	2.06	101	24.4	2030	1851.8	9.12	9.15	603	603	22.4	36.6	342	69552	187	12.3	146	382	2.29	1.02	.95	2.12	9.29	8.70
111	1309	1869.7	15.0	1.75	1.94	101	25.7	2020	1852.0	9.12	9.15	602	602	22.4	36.6	341	69679	187	12.3	306	382	2.29	1.22	1.15	2.13	9.29	8.70
112	1311	1870.0	14.2	1.75	2.02	101	25.3	2020	1852.4	9.11	9.17	601	601	22.4	36.5	339	69807	188	12.3	336	382	2.30	1.23	1.16	2.13	9.29	8.70
113	1317	1870.3	15.0	1.71	2.02	101	21.0	2180	1853.4	9.14	9.19	605	605	22.5	36.6	350	69930	188	12.3	329	382	2.30	1.16	1.09	2.13	9.28	8.70
114	1317	1870.6	41.8	1.57	2.28	99	19.9	2170	1853.6	9.11	9.21	618	618	22.6	36.7	348	69971	188	12.3	126	381	2.30	.90	.83	2.13	9.28	8.70
115	1318	1870.9	20.6	1.78	2.06	102	24.7	2180	1854.2	9.11	9.21	625	625	22.6	36.7	344	70053	189	12.3	228	381	2.30	1.13	1.06	2.13	9.28	8.70
116	1319	1871.2	20.1	2.03	2.33	103	26.2	2180	1854.7	9.11	9.21	626	626	22.6	36.7	340	70139	189	12.4	234	381	2.30	1.16	1.09	2.13	9.28	8.70
117	1320	1871.5	39.9	2.05	2.21	103	26.9	2180	1854.9	9.11	9.21	626	626	22.6	36.7	340	70185	189	12.4	121	380	2.30	.99	.92	2.13	9.28	8.70
118	1320	1871.8	26.9	1.98	2.36	101	25.4	2180	1855.3	9.09	9.23	627	627	22.4	36.7	337	70253	190	12.4	156	380	2.30	1.07	1.00	2.13	9.28	8.70
119	1321	1872.1	26.6	1.70	1.86	103	26.1	2170	1855.6	9.09	9.23	626	626	22.4	36.7	334	70325	190	12.4	216	380	2.30	1.09	1.02	2.13	9.28	8.70
120	1321	1872.4	34.7	2.55	3.19	101	24.7	2180	1855.8	9.09	9.23	626	626	22.4	36.7	335	70383	190	12.4	171	379	2.31	1.00	.93	2.13	9.28	8.70
121	1322	1872.7	39.4	2.00	2.99	102	26.0	2180	1856.1	9.09	9.23	627	627	22.4	36.7	333	70429	190	12.4	150	379	2.31	.99	.91	2.13	9.28	8.70
122	1323	1873.0	15.1	1.82	2.16	102	26.9	2180	1856.5	9.12	9.25	626	626	22.5	36.7	332	70530	191	12.4	278	379	2.31	1.24	1.17	2.13	9.28	8.70
123	1324	1873.3	27.7	1.89	2.24	103	26.0	2170	1856.7	9.12	9.25	626	626	22.5	36.7	330	70601	191	12.4	205	379	2.31	1.08	1.00	2.13	9.28	8.70
124	1325	1873.6	12.1	1.75	1.99	103	27.6	2180	1857.1	9.12	9.24	625	625	22.5	36.5	332	70751	191	12.5	1017	379	2.31	1.31	1.23	2.13	9.28	8.70
125	1326	1873.9	23.6	2.05	2.95	103	29.4	2180	1857.4	9.12	9.24	625	625	22.5	36.5	332	70829	192	12.5	204	378	2.31	1.16	1.08	2.13	9.28	8.70
126	1327	1874.2	23.8	2.26	2.87	101	28.7	2180	1857.5	9.12	9.24	626	626	22.5	36.5	333	70905	192	12.5	244	378	2.32	1.14	1.06	2.13	9.28	8.70
127	1327	1874.5	26.1	2.09	2.34	101	29.1	2190	1857.7	9.14	9.21	626	626	22.7	36.8	336	70971	192	12.5	181	378	2.32	1.12	1.04	2.13	9.29	8.70
128	1329	1874.8	12.2	1.71	2.20	102	27.8	2170	1858.1	9.14	9.21	626	626	22.7	36.8	336	71129	193	12.5	420	378	2.32	1.31	1.23	2.13	9.29	8.70
129	1330	1875.1	13.1	1.71	2.00	103	27.1	2180	1858.5	9.13	9.22	625	625	22.5	37.0	337	71271	193	12.5	387	378	2.32	1.28	1.21	2.13	9.29	8.70
130	1331	1875.4	13.9	1.79	2.07	103	29.5	2180	1858.8	9.13	9.22	624	624	22.5	37.0	341	71399	193	12.6	351	378	2.32	1.29	1.22	2.13	9.29	8.70
131	1333	1875.8	13.8	1.65	2.03	103	28.9	2190	1859.1	9.14	9.15	624	624	22.5	37.2	344	71565	194	12.6	417	378	2.33	1.29	1.21	2.13	9.29	8.70
132	1334	1876.1	12.6	1.65	1.78	103	29.5	2160	1859.2	9.16	9.22	623	623	22.5	37.3	345	71699	194	12.6	379	378	2.33	1.32	1.24	2.13	9.29	8.70
133	1336	1876.4	7.74	1.70	1.99	104	29.1	2160	1859.3	9.16	9.22	621	621	22.5	37.3	350	71917	194	12.6	594	378	2.33	1.45	1.37	2.13	9.30	8.70
134	1338	1876.7	15.5	2.11	2.56	102	29.5	2170	1859.4	9.16	9.22	621	621	22.5	37.3	351	72036	194	12.7	330	378	2.33	1.26	1.18	2.13	9.30	8.70
135	1339	1877.0	10.5	2.19	2.44	102	29.1	2170	1859.4	9.16	9.23	621	621	22.7	37.4	353	72210	195	12.7	879	378	2.34	1.36	1.29	2.13	9.30	8.70
136	1340	1877.3	18.8	2.03	2.29	102	28.1	2170	1859.4	9.16	9.23	621	621	22.7	37.4	353	72306	195	12.7	262	378	2.34	1.20	1.12	2.13	9.30	8.70
137	1342	1877.6	12.6	1.87	2.25	102	28.7	2180	1859.8	9.15	9.19	622	622	22.7	37.4	357	72451	195	12.7	353	378	2.34	1.31	1.23	2.13	9.30	8.70
138	1343	1877.9	10.0	1.98	2.29	102	29.2	2180	1860.4	9.11	9.20	623	623	22.7	37.4	358	72637	196	12.8	559	378	2.34	1.38	1.30	2.14	9.29	8.70
139	1344	1878.2	16.6	1.72	1.88	103	28.6	2170	1860.8	9.11	9.20	623	623	22.7	37.4	360	72746	196	12.8	309	378	2.35	1.24	1.16	2.14	9.29	8.70
140	1345	1878.5	23.6	1.96	3.34	102	31.7	2170	1861.1	9.13	9.23	622	622	22.8	37.2	362	72826	196	12.8	220	378	2.35	1.18	1.10	2.14	9.29	8.70
141	1346	1878.8	34.6	2.03	2.41	102	29.6	2170	1861.4	9.13	9.23	622	622	22.8	37.2	363	72879	197	12.8	174	378	2.35	1.05	.98	2.14	9.29	8.70
142	1346	1879.1	47.7	1.94	2.41	103	27.9	2180	1861.6	9.13	9.23	622	622	22.8	37.2	362	72916	197	12.8	135	377	2.35	.96	.88	2.14	9.29	8.70
143	1347	1879.4	30.1	3.40	7.25	98	26.3	2160	1861.9	9.13	9.23	622	622	22.8	37.2	364	72977	197	12.8	161	377	2.35	1.04	.97	2.14	9.29	8.70
144	1347	1879.7	45.7	3.80	7.68	93	23.4	2130	1862.1	9.13	9.23	621	621	22.8	37.2	363	73013	198	12.8	108	377	2.35	.90	.83	2.14	9.29	8.70
145	1354	1880.6	36.6	3.21	5.57	90	12.7	2150	1863.1	9.15	9.26	612	612	23.6	36.9	390	73057	198	12.8	170	375	2.35	.81	.75	2.14	9.29	8.70

AMOCO AUST. Tilana No.1 329150 Data Printed at time 19:02 Date Oct 9 '85
Data Recorded at time 13:55 Date Sep 24 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST FM PR	
146	1355	1880.9	34.0	3.13	6.84	89	12.3	2160	1863.2	9.15	9.26	616	616	23.6	36.9	388	73099	199	12.8	136	375	2.35	.82	.76	2.14	9.29	8.70	D
147	1355	1881.2	20.7	2.93	7.43	91	18.1	2160	1863.3	9.15	9.26	617	617	23.6	36.9	385	73179	199	12.9	227	374	2.35	1.02	.95	2.14	9.29	8.70	D
148	1356	1881.5	61.0	2.31	2.60	98	25.4	2160	1863.4	9.15	9.26	618	618	23.6	36.9	385	73209	199	12.9	239	374	2.35	.86	.78	2.14	9.29	8.70	D
149	1401	1881.8	12.6	2.06	2.56	98	27.6	2100	1864.6	9.14	9.25	610	610	22.9	36.9	390	73342	200	12.9	396	374	2.36	1.29	1.21	2.14	9.29	8.70	D
150	1404	1882.2	6.59	1.70	2.17	100	28.4	2100	1865.6	9.17	9.24	610	610	23.0	36.9	391	73646	200	12.9	890	375	2.36	1.47	1.39	2.14	9.28	8.70	D
151	1407	1882.4	7.05	1.73	1.86	99	30.5	2100	1866.6	9.17	9.24	610	610	22.8	36.8	395	73877	200	13.0	772	375	2.36	1.48	1.40	2.14	9.28	8.70	D
152	1408	1882.8	13.8	2.16	2.88	97	29.4	2100	1867.2	9.17	9.24	609	609	22.8	36.8	396	74005	201	13.0	378	375	2.37	1.28	1.21	2.14	9.28	8.70	D
153	1409	1883.1	27.7	1.97	4.34	96	28.4	2100	1867.5	9.17	9.28	609	609	22.9	36.6	398	74075	201	13.0	214	375	2.37	1.09	1.01	2.14	9.28	8.70	D
154	1416	1883.7	5.92	4.85	7.80	94	17.1	2100	1869.3	9.15	9.25	615	615	23.3	37.0	406	74579	201	13.1	1157	376	2.37	1.30	1.24	2.14	9.27	8.70	D
155	1418	1884.0	7.48	4.36	7.52	93	16.5	2100	1870.0	9.17	9.24	613	613	23.4	37.1	407	74787	202	13.1	639	376	2.38	1.23	1.17	2.14	9.27	8.70	D
156	1419	1884.3	17.8	3.70	6.54	98	18.7	2090	1870.5	9.17	9.24	613	613	23.4	37.1	408	74888	202	13.2	386	376	2.38	1.08	1.01	2.14	9.27	8.70	D
157	1420	1884.6	17.7	3.64	5.57	100	20.7	2110	1870.9	9.17	9.24	612	612	23.4	37.1	406	74989	202	13.2	258	376	2.38	1.12	1.05	2.14	9.27	8.70	D
158	1421	1884.9	18.9	2.94	5.26	102	22.7	2110	1871.3	9.17	9.23	612	612	23.2	37.0	406	75088	203	13.2	223	376	2.38	1.13	1.06	2.14	9.27	8.70	D
159	1423	1885.2	11.4	3.56	7.00	99	25.1	2100	1871.9	9.15	9.25	614	614	22.9	36.9	404	75245	203	13.2	713	376	2.38	1.28	1.21	2.14	9.26	8.70	D
160	1424	1885.5	13.7	1.78	3.76	107	24.8	2110	1872.3	9.15	9.25	614	614	22.9	36.9	403	75357	203	13.2	296	376	2.39	1.25	1.17	2.14	9.26	8.70	D
161	1425	1885.8	13.2	1.75	2.45	100	29.7	2100	1872.7	9.16	9.24	612	612	22.9	36.8	402	75494	204	13.3	601	376	2.39	1.31	1.23	2.14	9.26	8.70	D
162	1426	1886.1	21.7	3.12	7.55	95	29.5	2100	1873.0	9.16	9.24	612	612	22.9	36.8	402	75581	204	13.3	247	376	2.39	1.16	1.08	2.15	9.27	8.70	D
163	1428	1886.4	7.54	2.32	5.50	99	30.3	2100	1873.6	9.15	9.24	612	612	22.4	36.8	401	75789	204	13.3	523	376	2.39	1.46	1.38	2.15	9.26	8.70	D
164	1431	1886.7	6.88	2.56	7.25	99	29.7	2090	1874.3	9.18	9.24	611	611	22.7	36.8	400	76053	205	13.3	784	376	2.40	1.48	1.40	2.15	9.26	8.70	D
165	1433	1887.0	8.06	2.49	5.30	100	29.2	2090	1874.8	9.16	9.26	612	612	22.8	36.8	402	76282	205	13.4	607	377	2.40	1.43	1.35	2.15	9.27	8.70	D
166	1435	1887.4	10.8	1.92	2.34	104	30.6	2080	1875.1	9.16	9.22	611	611	22.6	36.8	400	76440	205	13.4	610	377	2.40	1.38	1.30	2.15	9.27	8.70	D
167	1435	1887.6	14.9	2.70	3.60	100	30.9	2090	1875.2	9.16	9.22	611	611	22.6	36.8	399	76539	205	13.4	286	377	2.41	1.29	1.21	2.15	9.27	8.70	D
168	1437	1887.9	17.1	2.56	5.13	102	29.0	2090	1875.4	9.16	9.22	612	612	22.6	36.8	397	76647	206	13.4	304	377	2.41	1.24	1.16	2.15	9.27	8.70	D
169	1438	1888.2	16.6	2.54	4.12	102	29.4	2080	1875.6	9.13	9.22	612	612	22.0	36.8	397	76750	206	13.5	385	376	2.41	1.25	1.17	2.15	9.27	8.70	D
170	1438	1888.5	17.9	2.37	4.04	101	29.4	2090	1875.8	9.13	9.22	613	613	22.0	36.8	396	76845	206	13.5	262	376	2.41	1.23	1.15	2.15	9.27	8.70	D
171	1439	1888.8	33.0	2.70	5.45	101	28.4	2080	1875.9	9.13	9.22	612	612	22.0	36.8	396	76901	207	13.5	164	376	2.41	1.06	.98	2.15	9.27	8.70	D
172	1445	1889.2	14.5	3.10	4.73	98	27.1	2110	1876.6	9.13	9.21	559	559	22.0	36.8	412	76988	207	13.5	281	376	2.41	1.25	1.17	2.15	9.27	8.70	D
173	1446	1889.5	25.9	1.35	1.95	109	10.1	2110	1876.6	9.15	9.25	596	596	23.3	36.8	410	77015	207	13.5	307	375	2.41	1.13	1.07	2.15	9.28	8.70	D
174	1446	1889.8	37.2	1.75	1.95	101	22.2	2110	1876.7	9.15	9.25	605	605	23.3	36.8	408	77040	208	13.5	251	375	2.41	.99	.92	2.15	9.28	8.70	D
175	1447	1890.1	15.0	2.54	3.20	100	28.6	2110	1877.0	9.15	9.25	614	614	23.3	36.8	404	77166	208	13.5	300	375	2.42	1.26	1.18	2.15	9.28	8.70	D
176	1448	1890.4	41.0	2.31	2.87	100	27.3	2110	1877.0	9.15	9.25	614	614	23.3	36.8	402	77201	208	13.5	252	374	2.42	.98	.91	2.15	9.28	8.70	D
177	1449	1890.7	15.0	2.20	3.25	106	27.9	2110	1877.5	9.17	9.26	614	614	24.2	36.8	398	77316	208	13.6	314	374	2.42	1.27	1.18	2.15	9.28	8.70	D
178	1450	1891.1	17.0	2.13	2.90	108	29.4	2110	1878.2	9.17	9.26	615	615	24.2	36.8	396	77462	209	13.6	532	374	2.42	1.26	1.17	2.15	9.28	8.70	D
179	1452	1891.6	11.9	1.72	2.28	123	28.5	2130	1878.6	9.17	9.24	617	617	22.4	36.7	391	77748	209	13.6	495	374	2.43	1.37	1.28	2.15	9.28	8.70	D
180	1454	1891.9	11.3	1.86	3.03	121	28.7	2130	1879.3	9.14	9.25	618	618	21.7	36.4	389	77941	210	13.6	406	374	2.43	1.38	1.30	2.15	9.28	8.70	D
181	1455	1892.2	29.7	2.02	3.00	120	27.5	2120	1879.7	9.14	9.25	619	619	21.7	36.4	389	78018	210	13.7	291	374	2.43	1.11	1.03	2.15	9.28	8.70	D
182	1456	1892.5	11.7	1.87	2.90	119	27.5	2120	1880.3	9.13	9.26	618	618	21.4	36.3	388	78199	210	13.7	629	374	2.43	1.36	1.27	2.15	9.28	8.70	D
183	1458	1892.9	13.3	2.19	2.80	118	27.8	2120	1880.6	9.13	9.26	618	618	21.4	36.3	388	78379	211	13.7	312	374	2.44	1.32	1.24	2.15	9.28	8.70	D
184	1459	1893.1	11.4	2.08	2.41	120	30.7	2120	1880.7	9.12	9.27	618	618	21.5	36.7	386	78513	211	13.7	373	374	2.44	1.40	1.32	2.15	9.28	8.70	D
185	1500	1893.4	18.1	1.76	2.65	120	27.8	2120	1880.8	9.12	9.27	617	617	21.5	36.7	387	78625	211	13.7	264	374	2.44	1.25	1.16	2.15	9.28	8.70	D
186	1501	1893.8	14.0	2.14	3.05	119	28.4	2120	1880.9	9.12	9.22	618	618	21.5	36.9	385	78803	212	13.8	369	374	2.45	1.32	1.23	2.15	9.28	8.70	D
187	1503	1894.0	11.6	1.71	2.06	121	28.5	2120	1881.1	9.12	9.22	618	618	21.5	36.9	385	78972	212	13.8	428	374	2.45	1.37	1.29	2.16	9.29	8.70	D
188	1504	1894.4	15.5	1.83	2.15	120	28.5	2120	1881.2	9.12	9.22	617	617	21.5	36.9	384	79127	212	13.8	366	374	2.45	1.30	1.21	2.16	9.29	8.70	D
189	1505	1894.6	12.1	1.87	2.12	119	28.4	2120	1881.4	9.10	9.21	617	617	21.4	37.0	384	79276	212	13.8	406	374	2.45	1.36	1.27	2.16	9.28	8.70	D
190	1507	1894.9	10.8	2.00	2.66	119	28.5	2120	1881.8	9.10	9.21	618	618	21.4	37.0	382	79476	213	13.9	430	374	2.46	1.39	1.30	2.16	9.28	8.70	D
191	1508	1895.2	17.3	1.73	2.28	121	28.4	2120	1881.9	9.10	9.19	617	617	21.4	36.9	382	79603	213	13.9	297	374	2.46	1.27	1.18	2.16	9.29	8.70	D
192	1509	1895.6	11.6	1.81	2.22	120	29.3	2120	1882.1	9.09	9.20	617	617	21.6	36.8	382	79799	213	13.9	365	374	2.46	1.38	1.29	2.16	9.29	8.70	D
193	1510	1895.9	27.8	2.21	2.70	120	29.7	2130	1882.2	9.09	9.20	618	618	21.6	36.8	381	79873	214	13.9	176	374	2.47	1.16	1.07	2.16	9.29	8.70	D
194	1511	1896.2	17.8	2.12	2.70	119	28.9	2130	1882.2	9.09	9.20	618	618	21.6	36.8	380	80010	214	13.9	360	374	2.47	1.26	1.17	2.16	9.29	8.70	D
195	1512	1896.5	19.6	1.77	2.13	120	29.4	2130	1882.3	9.09	9.19	617	617	21.5	36.9	380	80104	214	13.9	231	373	2.47	1.25	1.16	2.16	9.29	8.70	D

AMOCO AUST. Tilana No.1 329151

Data Printed at time 19:06 Date Oct 9
Data Recorded at time 15:13 Date Sep 24 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
196	1513	1896.8	15.8	1.69	2.09	122	28.1	2130	1882.5	9.09	9.19	618	618	21.5	36.9	380	80261	215	14.0	382	373	2.47	1.29	1.20	2.16	9.29	8.70
197	1514	1897.1	17.3	1.67	2.04	120	29.2	2120	1882.7	9.09	9.19	618	618	21.5	36.9	379	80375	215	14.0	288	373	2.47	1.28	1.19	2.16	9.29	8.70
198	1516	1897.4	12.5	2.29	2.88	120	29.4	2130	1882.9	9.10	9.19	618	618	21.4	36.9	380	80534	215	14.0	563	373	2.48	1.36	1.27	2.16	9.30	8.70
199	1516	1897.7	22.2	1.83	2.68	120	26.6	2130	1883.0	9.10	9.19	618	618	21.4	36.9	379	80628	215	14.0	211	373	2.48	1.18	1.09	2.16	9.30	8.70
200	1517	1898.0	23.2	1.83	2.54	120	25.0	2130	1883.1	9.10	9.19	617	617	21.3	37.0	377	80724	216	14.0	225	373	2.48	1.15	1.06	2.16	9.30	8.70
201	1518	1898.3	30.8	1.81	2.23	120	26.2	2120	1883.3	9.10	9.19	617	617	21.3	37.0	377	80788	216	14.0	177	373	2.48	1.09	1.00	2.16	9.30	8.70
202	1518	1898.6	25.3	1.97	2.43	120	23.6	2100	1883.5	9.10	9.19	617	617	21.3	37.0	377	80872	216	14.1	176	372	2.48	1.11	1.02	2.16	9.30	8.70
203	1523	1898.9	65.6	1.43	2.11	105	10.6	2130	1884.1	9.09	9.19	589	589	21.2	37.1	388	80902	217	14.1	226	372	2.48	.69	.63	2.16	9.29	8.70
204	1524	1899.2	60.8	1.84	2.25	102	19.9	2130	1884.2	9.09	9.19	602	602	21.2	37.1	387	80933	217	14.1	83	371	2.48	.81	.74	2.16	9.30	8.70
205	1524	1899.5	41.2	2.11	3.21	107	28.0	2140	1884.3	9.09	9.19	613	613	21.2	37.1	386	80978	217	14.1	119	371	2.49	1.00	.92	2.16	9.30	8.70
206	1525	1899.8	26.2	2.39	3.39	117	27.8	2150	1884.5	9.09	9.19	618	618	21.2	37.1	382	81058	218	14.1	181	371	2.49	1.14	1.06	2.16	9.30	8.70
207	1525	1900.1	36.5	2.32	3.04	118	27.4	2150	1884.6	9.13	9.22	620	620	22.1	37.0	382	81117	218	14.1	137	371	2.49	1.05	.97	2.16	9.30	8.70
208	1526	1900.4	17.7	2.11	2.58	118	29.5	2140	1884.8	9.13	9.22	621	621	22.1	37.0	379	81240	218	14.1	270	370	2.49	1.27	1.18	2.16	9.30	8.70
209	1527	1900.7	20.4	1.97	2.80	118	28.7	2160	1885.0	9.13	9.22	621	621	22.1	37.0	376	81324	219	14.1	222	370	2.49	1.22	1.13	2.16	9.30	8.70
210	1528	1901.0	19.1	2.61	3.35	117	27.6	2150	1885.1	9.08	9.21	621	621	21.1	36.9	376	81414	219	14.1	260	370	2.49	1.22	1.14	2.16	9.30	8.70
211	1528	1901.3	33.4	2.00	2.38	118	29.1	2160	1885.2	9.08	9.21	621	621	21.1	36.9	373	81460	219	14.1	113	370	2.49	1.10	1.01	2.16	9.30	8.70
212	1529	1901.7	25.1	2.11	2.62	118	26.8	2160	1885.3	9.08	9.21	621	621	21.1	36.9	373	81536	219	14.1	193	369	2.50	1.14	1.06	2.16	9.30	8.70
213	1529	1902.0	48.3	2.21	2.66	118	26.5	2160	1885.3	9.08	9.21	621	621	21.1	36.9	372	81585	220	14.2	126	369	2.50	.97	.89	2.16	9.30	8.70
214	1530	1902.3	22.9	1.83	2.61	118	26.0	2150	1885.4	9.08	9.21	621	621	21.1	36.9	370	81666	220	14.2	182	369	2.50	1.16	1.07	2.17	9.31	8.70
215	1531	1902.6	23.7	1.79	2.48	119	24.6	2160	1885.5	9.05	9.19	620	620	20.7	36.8	371	81739	220	14.2	191	368	2.50	1.13	1.05	2.17	9.31	8.70
216	1532	1902.9	13.8	1.70	2.08	120	28.3	2150	1885.7	9.05	9.19	620	620	20.7	36.8	369	81892	221	14.2	355	368	2.50	1.32	1.23	2.17	9.31	8.70
217	1535	1903.2	6.72	1.64	2.09	120	28.4	2140	1886.1	9.08	9.21	620	620	21.0	37.0	368	82212	221	14.2	468	369	2.51	1.51	1.42	2.17	9.30	8.70
218	1536	1903.5	14.1	2.42	3.68	118	27.9	2150	1886.4	9.08	9.20	620	620	21.1	37.1	366	82366	221	14.3	347	369	2.51	1.31	1.22	2.17	9.30	8.70
219	1536	1903.8	31.8	2.54	3.25	117	24.7	2150	1886.6	9.08	9.20	620	620	21.1	37.1	365	82433	222	14.3	161	369	2.51	1.06	.97	2.17	9.30	8.70
220	1537	1904.1	28.7	2.23	3.88	117	27.1	2150	1886.8	9.08	9.20	620	620	21.1	37.1	366	82505	222	14.3	207	369	2.51	1.11	1.02	2.17	9.30	8.70
221	1537	1904.4	46.1	2.08	2.82	118	27.3	2160	1886.9	9.08	9.20	619	619	21.1	37.1	364	82550	222	14.3	100	368	2.51	.99	.91	2.17	9.30	8.70
222	1538	1904.8	23.9	2.45	3.78	118	27.8	2150	1887.2	9.06	9.21	620	620	21.2	37.1	363	82657	222	14.3	255	368	2.52	1.17	1.08	2.17	9.30	8.70
223	1539	1905.0	53.3	2.06	2.47	118	27.0	2160	1887.3	9.06	9.21	620	620	21.2	37.1	363	82688	223	14.3	89	368	2.52	.95	.87	2.17	9.30	8.70
224	1540	1905.3	19.2	1.83	2.48	119	26.9	2160	1887.6	9.06	9.21	620	620	21.2	37.1	362	82807	223	14.3	170	367	2.52	1.22	1.13	2.17	9.30	8.70
225	1541	1905.6	13.1	2.09	2.49	118	25.7	2160	1887.9	9.08	9.23	620	620	21.4	37.2	362	82938	223	14.3	332	367	2.52	1.30	1.21	2.17	9.30	8.70
226	1542	1906.0	15.9	2.06	2.78	118	26.4	2150	1888.0	9.08	9.23	621	621	21.4	37.2	362	83074	224	14.4	328	367	2.52	1.26	1.17	2.17	9.30	8.70
227	1542	1906.2	24.8	1.83	2.14	118	26.4	2160	1888.1	9.06	9.25	620	620	21.6	37.1	361	83137	224	14.4	168	367	2.52	1.14	1.06	2.17	9.30	8.70
228	1544	1906.6	18.5	2.34	4.31	116	25.7	2150	1888.5	9.06	9.25	620	620	21.6	37.1	360	83268	224	14.4	300	367	2.53	1.20	1.12	2.17	9.29	8.70
229	1544	1906.9	27.4	1.99	2.66	118	23.9	2150	1888.8	9.06	9.25	619	619	21.6	37.1	362	83331	225	14.4	182	367	2.53	1.09	1.00	2.17	9.30	8.70
230	1545	1907.2	15.2	1.83	2.49	119	25.6	2160	1889.2	9.07	9.26	621	621	21.7	37.3	362	83473	225	14.4	268	366	2.53	1.26	1.17	2.17	9.29	8.70
231	1546	1907.4	33.7	1.79	2.22	118	26.6	2160	1889.4	9.07	9.26	621	621	21.7	37.3	361	83520	225	14.4	213	366	2.53	1.07	.98	2.17	9.29	8.70
232	1547	1907.7	15.0	1.99	2.51	114	27.5	2130	1889.8	9.07	9.26	620	620	21.7	37.3	363	83652	226	14.4	338	366	2.53	1.28	1.19	2.17	9.29	8.70
233	1553	1908.4	19.8	1.90	2.29	108	23.0	2130	1890.5	9.11	9.28	611	611	22.5	37.3	376	83713	226	14.5	184	365	2.53	1.18	1.12	2.17	9.28	8.70
234	1554	1908.7	16.2	1.82	2.54	109	25.1	2130	1890.7	9.11	9.28	613	613	22.5	37.3	374	83816	226	14.5	263	365	2.54	1.22	1.13	2.17	9.29	8.70
235	1558	1909.0	8.27	2.86	7.68	109	18.3	2130	1891.8	9.05	9.26	615	615	21.9	37.2	364	84034	227	14.5	465	365	2.54	1.28	1.20	2.17	9.27	8.70
236	1559	1909.3	18.0	1.80	2.33	118	19.8	2130	1892.0	9.05	9.26	615	615	21.9	37.2	363	84153	227	14.5	287	365	2.54	1.14	1.06	2.17	9.27	8.70
237	1600	1909.6	21.9	2.17	2.58	115	23.7	2130	1892.2	9.06	9.26	616	616	21.9	37.4	361	84231	227	14.5	204	365	2.54	1.14	1.05	2.17	9.27	8.70
238	1601	1909.9	11.9	2.17	7.05	113	25.5	2130	1892.6	9.06	9.26	615	615	21.9	37.4	360	84403	228	14.6	344	365	2.54	1.31	1.23	2.17	9.27	8.70
239	1604	1910.2	8.10	1.78	2.16	117	28.2	2130	1893.2	9.07	9.25	615	615	21.9	37.4	360	84694	228	14.6	-738	366	2.55	1.46	1.37	2.18	9.27	8.70
240	1606	1910.5	9.41	1.70	2.00	116	28.6	2140	1893.5	9.10	9.26	618	618	22.1	37.3	358	84897	228	14.6	499	366	2.55	1.42	1.33	2.18	9.26	8.70
241	1608	1910.8	8.62	2.19	2.89	116	28.8	2140	1894.0	9.11	9.25	617	617	22.1	37.3	358	85140	229	14.7	583	366	2.56	1.45	1.36	2.18	9.26	8.70
242	1609	1911.1	13.9	1.94	2.70	116	27.8	2130	1894.2	9.11	9.25	616	616	22.1	37.3	359	85290	229	14.7	460	366	2.56	1.31	1.22	2.18	9.26	8.70
243	1612	1911.4	5.42	1.76	2.20	117	29.5	2130	1895.1	9.10	9.26	616	616	22.2	37.4	356	85645	229	14.7	469	367	2.57	1.59	1.49	2.18	9.25	8.70
244	1614	1911.7	11.2	1.65	1.99	117	29.6	2120	1895.5	9.10	9.24	617	617	22.2	37.5	353	85837	230	14.8	451	367	2.57	1.40	1.30	2.18	9.25	8.70
245	1616	1912.0	9.06	1.65	2.07	117	30.7	2130	1896.2	9.11	9.25	617	617	22.2	37.5	351	86097	230	14.8	415	367	2.57	1.47	1.37	2.18	9.24	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST FM PR
246	1618	1912.3	6.51	1.69	2.05	117	30.1	2120	1897.0	9.13	9.26	617	617	22.1	37.5	349	86392	230	14.8	761	368	2.58	1.55	1.46	2.18	9.23	8.70
247	1620	1912.6	11.8	1.76	2.70	115	29.5	2120	1897.5	9.13	9.26	617	617	22.1	37.5	348	86573	230	14.9	315	368	2.58	1.38	1.29	2.18	9.23	8.70
248	1623	1912.9	5.71	1.58	1.90	118	30.3	2120	1898.5	9.12	9.26	617	617	22.0	37.6	346	86918	231	14.9	1506	368	2.59	1.59	1.50	2.18	9.23	8.70
249	1625	1913.3	7.87	1.70	2.38	118	30.1	2120	1899.6	9.14	9.25	617	617	22.2	37.6	345	87190	231	15.0	731	369	2.59	1.50	1.41	2.18	9.22	8.70
250	1627	1913.6	13.6	1.77	2.21	117	29.8	2120	1900.2	9.14	9.25	617	617	22.2	37.6	345	87346	231	15.0	449	369	2.60	1.35	1.26	2.18	9.21	8.70
251	1627	1913.8	17.7	1.96	2.33	117	29.2	2120	1900.6	9.14	9.25	617	617	22.2	37.6	346	87455	232	15.0	299	369	2.60	1.27	1.18	2.18	9.21	8.70
252	1628	1914.2	27.8	1.87	2.34	115	30.2	2110	1901.0	9.14	9.25	617	617	22.2	37.6	344	87544	232	15.0	212	368	2.60	1.16	1.07	2.18	9.21	8.70
253	1629	1914.5	25.0	1.76	2.16	117	29.4	2120	1901.2	9.14	9.25	617	617	22.2	37.6	343	87612	232	15.0	167	368	2.60	1.18	1.09	2.18	9.21	8.70
254	1629	1914.8	33.8	1.96	2.17	116	29.5	2110	1901.5	9.14	9.25	617	617	22.2	37.6	344	87676	233	15.0	201	368	2.60	1.13	1.03	2.18	9.21	8.70
255	1630	1915.1	27.3	1.76	2.22	116	28.3	2120	1901.6	9.13	9.28	617	617	22.4	37.6	343	87757	233	15.0	212	368	2.60	1.15	1.05	2.18	9.21	8.70
256	1631	1915.4	40.2	1.73	2.21	117	26.7	2120	1901.7	9.13	9.28	617	617	22.4	37.6	344	87806	233	15.0	161	367	2.60	1.03	.94	2.18	9.22	8.70
257	1632	1915.7	12.5	1.65	2.63	117	29.4	2120	1901.8	9.13	9.28	616	616	22.4	37.6	344	87981	233	15.1	737	367	2.61	1.37	1.27	2.18	9.22	8.70
258	1635	1916.0	6.57	1.67	2.01	117	29.8	2120	1902.4	9.15	9.33	617	617	22.6	37.6	345	88303	234	15.1	5914	368	2.61	1.54	1.45	2.18	9.22	8.70
259	1635	1916.3	45.5	1.82	2.56	115	28.9	2120	1902.6	9.15	9.33	617	617	22.6	37.6	344	88350	234	15.1	920	368	2.61	1.01	.92	2.18	9.22	8.70
260	1636	1916.6	21.9	1.91	2.25	116	28.1	2120	1902.9	9.15	9.33	617	617	22.6	37.6	345	88443	234	15.1	220	367	2.62	1.20	1.11	2.18	9.22	8.70
261	1637	1916.9	26.3	1.66	2.39	117	25.9	2130	1903.3	9.15	9.33	617	617	22.6	37.6	344	88531	235	15.2	214	367	2.62	1.13	1.04	2.18	9.22	8.70
262	1637	1917.2	35.7	1.74	2.18	117	28.5	2120	1903.5	9.15	9.33	617	617	22.6	37.6	343	88589	235	15.2	155	367	2.62	1.08	.99	2.18	9.22	8.70
263	1638	1917.5	24.4	1.83	2.41	117	27.9	2110	1903.8	9.16	9.31	617	617	22.6	37.7	345	88666	235	15.2	174	366	2.62	1.17	1.08	2.18	9.22	8.70
264	1645	1917.9	50.3	1.64	2.09	104	21.2	2170	1905.0	9.14	9.32	621	621	23.2	37.7	368	88718	236	15.2	147	366	2.62	.89	.80	2.18	9.21	8.70
265	1645	1918.2	36.5	1.84	2.78	105	29.0	2130	1905.2	9.14	9.32	623	623	23.2	37.7	366	88765	236	15.2	126	366	2.62	1.05	.96	2.19	9.22	8.70
266	1646	1918.4	29.1	1.78	2.07	116	28.8	2200	1905.3	9.14	9.32	624	624	23.2	37.7	365	88811	236	15.2	135	366	2.62	1.14	1.04	2.19	9.22	8.70
267	1646	1918.8	32.0	1.90	2.33	115	28.4	2190	1905.6	9.09	9.30	625	625	23.0	37.9	364	88886	237	15.2	173	365	2.62	1.10	1.01	2.19	9.22	8.70
268	1647	1919.1	30.4	1.76	2.51	115	28.0	2180	1905.8	9.09	9.30	625	625	23.0	37.9	363	88954	237	15.2	184	365	2.62	1.11	1.02	2.19	9.22	8.70
269	1648	1919.7	42.0	1.90	2.39	114	28.4	2180	1906.0	9.09	9.30	625	625	23.0	37.9	362	89043	237	15.2	96	364	2.63	1.03	.94	2.19	9.22	8.70
270	1648	1920.0	26.2	2.06	4.10	113	27.6	2180	1906.3	9.09	9.30	624	624	23.0	37.9	362	89111	238	15.2	166	364	2.63	1.14	1.05	2.19	9.22	8.70
271	1649	1920.3	67.5	2.25	2.43	112	25.7	2190	1906.4	9.09	9.30	624	624	23.0	37.9	362	89135	238	15.2	187	364	2.63	.88	.79	2.19	9.22	8.70
272	1649	1920.5	21.5	3.27	5.43	108	29.5	2180	1906.5	9.10	9.29	625	625	22.8	37.8	362	89215	238	15.3	191	364	2.63	1.20	1.11	2.19	9.22	8.70
273	1650	1920.9	26.1	3.92	5.56	108	27.3	2190	1906.5	9.10	9.29	624	624	22.8	37.8	362	89291	239	15.3	189	363	2.63	1.13	1.04	2.19	9.23	8.70
274	1650	1921.2	37.0	3.62	5.94	108	28.7	2190	1906.6	9.10	9.29	624	624	22.8	37.8	362	89338	239	15.3	204	363	2.63	1.05	.96	2.19	9.23	8.70
275	1651	1921.5	28.8	2.60	4.08	111	28.4	2190	1906.6	9.10	9.29	624	624	22.8	37.8	363	89401	239	15.3	165	363	2.63	1.12	1.03	2.19	9.23	8.70
276	1651	1921.8	37.2	3.91	5.88	109	30.3	2190	1906.7	9.12	9.30	624	624	22.9	37.6	363	89453	240	15.3	128	362	2.63	1.07	.98	2.19	9.23	8.70
277	1652	1922.1	20.4	5.41	7.60	103	27.5	2180	1907.0	9.12	9.30	624	624	22.9	37.6	363	89542	240	15.3	225	362	2.63	1.18	1.09	2.19	9.23	8.70
278	1653	1922.4	31.9	3.29	5.23	107	27.1	2190	1907.2	9.12	9.30	624	624	22.9	37.6	364	89602	240	15.3	141	362	2.63	1.07	.98	2.19	9.23	8.70
279	1654	1922.7	12.9	1.65	2.05	117	28.7	2190	1907.6	9.12	9.30	623	623	22.9	37.6	363	89738	240	15.3	572	362	2.64	1.35	1.26	2.19	9.23	8.70
280	1657	1923.0	6.12	1.74	2.68	115	29.1	2200	1907.7	9.13	9.26	623	623	23.2	37.6	368	90104	241	15.4	1230	363	2.64	1.55	1.45	2.19	9.23	8.70
281	1700	1923.3	5.58	1.89	2.86	115	30.0	2200	1908.5	9.12	9.24	623	623	23.3	37.8	375	90475	241	15.4	861	363	2.65	1.58	1.49	2.19	9.24	8.70
282	1702	1923.6	7.05	1.71	2.00	117	30.5	2200	1908.9	9.11	9.28	624	624	23.3	37.7	377	90696	241	15.5	629	364	2.65	1.53	1.44	2.19	9.24	8.70
283	1706	1923.9	4.93	1.61	2.08	117	30.0	2190	1909.5	9.10	9.27	623	623	23.2	37.7	383	91126	242	15.5	886	364	2.66	1.62	1.53	2.19	9.24	8.70
284	1710	1924.2	4.27	1.59	2.04	117	30.8	2190	1910.1	9.11	9.26	621	621	23.2	37.6	389	91624	242	15.6	1421	365	2.67	1.67	1.57	2.19	9.24	8.70
285	1713	1924.5	6.21	1.60	2.11	117	31.3	2190	1910.5	9.12	9.23	621	621	23.1	37.5	392	91968	242	15.7	797	366	2.67	1.58	1.48	2.19	9.24	8.70
286	1718	1924.8	3.91	1.50	1.95	118	30.9	2190	1911.2	9.12	9.24	621	621	23.4	37.6	399	92552	243	15.7	1432	367	2.68	1.70	1.60	2.19	9.25	8.70
287	1723	1925.1	3.48	1.52	2.21	118	31.2	2190	1911.9	9.12	9.25	621	621	23.4	37.6	405	93166	243	15.8	1496	369	2.69	1.73	1.64	2.19	9.25	8.70
288	1726	1925.4	5.70	1.54	2.29	117	30.6	2190	1912.4	9.09	9.26	622	622	23.6	37.5	409	93516	243	15.9	831	369	2.70	1.59	1.49	2.19	9.25	8.70
289	1734	1925.7	2.55	1.46	1.98	117	30.6	2190	1914.9	9.07	9.32	621	621	23.8	37.4	418	94402	244	16.0	2788	371	2.72	1.81	1.71	2.19	9.24	8.70
290	1737	1926.0	5.84	1.66	2.13	117	32.1	2180	1915.9	9.05	9.29	621	621	24.1	37.5	421	94744	244	16.1	813	372	2.72	1.61	1.51	2.20	9.24	8.70
291	1738	1926.3	12.9	1.71	2.25	116	32.8	2190	1916.3	9.05	9.28	623	623	24.2	37.5	421	94909	244	16.1	394	372	2.72	1.40	1.30	2.20	9.24	8.70
+ Pull out of hole at 6320' due to low ROP.																											
+ NB#10 SMITH SVH 12.25" with 3x15 jets. Start depth 1926m (6320ft).																											
Date Sep 25 '85																											
297	0234	1926.6	11.2	1.73	2.28	90	13.2	1720	1926.3	8.98	9.17	557	557	21.0	40.5	421	163	.30	.0	424	35101	.00	1.10	1.10	2.20	9.12	8.70

AMOCO AUST. Tilana No.1 329153 Data Printed at time 19:14 Date Oct 9 '85

Data Recorded at time 02:36 Date Sep 25 '85

85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
298	0236	1926.9	11.1	1.76	1.89	100	13.6	1390	1926.3	8.99	9.45	478	478	22.2	27.7	417	329	.61	.1	440	17566	.01	1.14	1.14	2.19	9.05	8.70
299	0238	1927.3	11.4	1.76	2.00	100	16.0	1390	1926.3	8.99	9.49	470	470	22.3	30.4	414	491	.91	.1	426	11843	.01	1.17	1.17	2.20	9.06	8.70
300	0239	1927.6	22.3	1.90	2.38	99	18.3	1390	1926.3	8.99	9.49	470	470	22.3	30.4	413	587	1.22	.1	247	8954	.02	1.05	1.05	2.20	9.06	8.70
301	0240	1927.9	10.4	1.81	2.01	99	20.3	1390	1926.3	9.01	9.50	470	470	22.2	32.7	412	725	1.52	.1	439	7261	.02	1.26	1.26	2.20	9.06	8.70
302	0241	1928.2	15.6	2.11	3.48	96	18.3	1390	1926.3	9.01	9.50	470	470	22.2	32.7	409	848	1.77	.1	393	6301	.02	1.13	1.13	2.20	9.06	8.70
303	0243	1928.5	12.7	2.83	4.74	94	16.7	1390	1926.3	9.02	9.49	470	470	22.2	33.6	409	982	2.10	.2	787	5545	.03	1.15	1.15	2.20	9.06	8.70
304	0244	1928.8	15.5	2.58	3.59	97	18.4	1390	1926.3	9.02	9.49	471	471	22.2	33.6	409	1095	2.41	.2	389	4816	.03	1.13	1.13	2.20	9.06	8.70
305	0245	1929.1	22.0	2.95	4.29	95	18.2	1390	1926.3	9.02	9.49	471	471	22.2	33.6	407	1172	2.74	.2	244	4309	.03	1.04	1.04	2.20	9.07	8.70
306	0245	1929.4	23.5	2.40	4.11	97	17.5	1400	1926.3	9.01	9.52	471	471	22.2	34.6	408	1240	3.05	.2	192	3770	.04	1.02	1.02	2.20	9.07	8.70
307	0246	1929.7	21.4	1.84	3.21	99	17.4	1400	1926.3	9.01	9.52	473	473	22.2	34.6	407	1310	3.35	.2	184	3444	.04	1.05	1.04	2.20	9.07	8.70
308	0247	1930.1	25.2	2.08	2.90	104	17.6	1410	1926.3	9.01	9.52	473	473	22.2	34.6	405	1392	3.65	.2	275	3229	.04	1.02	1.02	2.20	9.07	8.70
309	0248	1930.3	12.0	2.22	2.85	105	17.6	1400	1926.3	9.02	9.50	475	475	22.3	35.2	403	1519	3.93	.3	531	2981	.05	1.20	1.19	2.20	9.07	8.70
310	0249	1930.6	22.1	2.08	3.38	104	17.0	1400	1926.3	9.02	9.50	474	474	22.3	35.2	404	1596	4.26	.3	232	2819	.05	1.04	1.04	2.20	9.07	8.70
311	0250	1930.9	12.8	1.97	3.98	104	17.2	1400	1926.3	9.02	9.47	472	472	22.3	35.3	405	1756	4.57	.3	507	2605	.05	1.17	1.17	2.20	9.08	8.70
312	0251	1931.2	25.1	1.82	2.56	107	17.4	1400	1926.3	9.02	9.47	472	472	22.3	35.3	405	1818	4.87	.3	170	2452	.05	1.02	1.02	2.20	9.08	8.70
313	0251	1931.5	35.8	1.68	1.80	110	15.8	1410	1926.3	9.02	9.47	473	473	22.3	35.3	405	1872	5.15	.3	246	2413	.06	.93	.92	2.20	9.08	8.70
314	0254	1931.8	6.42	1.73	1.92	108	18.7	1410	1926.3	9.06	9.46	475	475	22.5	35.3	404	2147	5.49	.4	1135	2226	.06	1.37	1.37	2.20	9.08	8.70
315	0255	1932.1	11.7	1.68	1.89	109	19.4	1420	1926.3	9.06	9.46	477	477	22.5	35.3	404	2319	5.79	.4	428	2155	.07	1.24	1.24	2.20	9.08	8.70
316	0256	1932.5	19.3	1.73	2.07	109	20.0	1410	1926.3	9.09	9.46	476	476	22.0	35.6	402	2427	6.06	.4	276	2050	.07	1.13	1.12	2.20	9.09	8.70
317	0257	1932.8	32.8	1.80	1.95	107	21.4	1420	1926.3	9.09	9.46	476	476	22.0	35.6	403	2481	6.36	.4	129	1958	.07	1.01	1.01	2.20	9.09	8.70
318	0258	1933.0	19.1	1.69	1.97	106	20.5	2190	1926.3	9.09	9.46	536	536	22.0	35.6	401	2573	6.70	.4	244	1870	.08	1.13	1.13	2.20	9.09	8.70
319	0258	1933.4	52.0	1.89	1.98	106	25.1	2200	1926.3	9.07	9.43	568	568	22.0	35.6	401	2603	7.00	.4	97	1795	.08	.93	.93	2.20	9.10	8.70
320	0259	1933.7	47.1	2.27	2.69	104	27.2	2210	1926.3	9.07	9.43	594	594	22.0	35.6	399	2657	7.29	.4	126	1732	.08	.98	.97	2.20	9.10	8.70
321	0259	1934.0	28.4	2.39	3.92	102	25.5	2210	1926.3	9.07	9.43	602	602	22.0	35.6	397	2703	7.55	.4	137	1675	.08	1.08	1.08	2.20	9.10	8.70
322	0300	1934.3	30.0	2.28	3.64	103	25.8	2190	1926.3	9.07	9.43	605	605	22.0	35.6	398	2761	7.92	.5	151	1603	.08	1.07	1.07	2.20	9.11	8.70
323	0300	1934.6	58.2	3.12	4.44	101	28.0	2190	1926.3	9.07	9.43	604	604	22.0	35.6	397	2792	8.22	.5	114	1547	.08	.92	.92	2.21	9.11	8.70
324	0300	1934.9	32.7	1.98	2.86	105	29.0	2200	1926.3	9.09	9.45	604	604	22.3	35.3	396	2841	8.52	.5	128	1497	.09	1.09	1.09	2.21	9.11	8.70
325	0301	1935.2	41.0	1.99	2.31	106	28.4	2210	1926.3	9.09	9.45	605	605	22.3	35.3	395	2887	8.83	.5	118	1454	.09	1.03	1.02	2.21	9.11	8.70
326	0301	1935.5	44.9	2.26	2.60	106	30.3	2210	1926.3	9.09	9.45	606	606	22.3	35.3	395	2931	9.10	.5	116	1414	.09	1.02	1.01	2.21	9.12	8.70
327	0302	1935.8	29.2	2.11	2.45	105	29.0	2220	1926.3	9.09	9.45	606	606	22.3	35.3	395	2995	9.45	.5	162	1365	.09	1.12	1.12	2.21	9.12	8.70
328	0303	1936.1	13.5	2.02	2.25	107	30.2	2200	1926.3	9.02	9.43	606	606	22.4	35.4	393	3125	9.74	.5	456	1334	.10	1.35	1.34	2.21	9.12	8.70
329	0303	1936.4	78.5	2.13	2.44	107	29.8	2200	1926.3	9.02	9.43	606	606	22.4	35.4	392	3150	10.0	.5	319	1314	.10	.87	.86	2.21	9.12	8.70
330	0304	1936.7	21.1	1.97	2.39	107	30.4	2190	1926.3	9.02	9.43	605	605	22.4	35.4	393	3226	10.3	.5	199	1266	.10	1.23	1.22	2.21	9.13	8.70
331	0305	1937.0	26.6	2.02	2.33	107	29.7	2170	1926.3	9.06	9.36	604	604	22.6	35.6	392	3285	10.7	.5	164	1231	.10	1.16	1.15	2.21	9.13	8.70
332	0315	1937.3	30.1	2.09	3.08	105	25.2	2140	1926.3	9.05	9.33	598	598	23.3	36.0	395	3702	11.0	.6	202	1227	.11	1.07	1.06	2.21	9.14	8.70
333	0316	1937.6	24.2	1.99	2.49	106	28.9	2140	1926.3	9.04	9.33	598	598	23.1	36.1	393	3780	11.3	.6	198	1199	.11	1.17	1.16	2.21	9.14	8.70
334	0317	1937.9	14.0	2.00	3.26	104	29.2	2140	1926.3	9.04	9.33	598	598	23.1	36.1	392	3919	11.6	.6	558	1181	.12	1.31	1.31	2.21	9.14	8.70
335	0319	1938.2	11.9	2.29	3.10	103	28.7	2140	1926.3	9.05	9.32	598	598	23.0	36.1	390	4076	11.9	.7	687	1170	.12	1.35	1.34	2.21	9.15	8.70
336	0321	1938.6	10.1	2.10	3.23	106	31.1	2140	1926.3	9.04	9.33	599	599	23.0	36.0	389	4282	12.1	.7	422	1146	.13	1.43	1.42	2.21	9.15	8.70
337	0322	1938.9	13.2	2.04	2.95	108	28.9	2140	1926.3	9.05	9.30	600	600	23.0	36.3	389	4414	12.5	.7	324	1126	.13	1.34	1.33	2.21	9.15	8.70
338	0323	1939.2	18.3	2.12	2.83	108	28.3	2150	1926.3	9.05	9.30	601	601	23.0	36.3	388	4530	12.8	.7	315	1106	.14	1.24	1.23	2.21	9.16	8.70
339	0324	1939.4	15.4	2.08	2.82	108	30.9	2170	1926.3	9.04	9.26	603	603	22.8	36.4	388	4625	13.1	.7	285	1084	.14	1.32	1.31	2.21	9.16	8.70
340	0326	1939.8	9.50	2.06	2.65	107	30.9	2150	1926.3	9.04	9.22	605	605	22.9	36.6	388	4839	13.4	.8	608	1071	.15	1.45	1.44	2.21	9.16	8.70
341	0327	1940.1	17.5	2.08	2.24	108	29.5	2150	1926.3	9.04	9.22	605	605	22.9	36.6	388	4951	13.7	.8	383	1056	.15	1.27	1.26	2.21	9.16	8.70
342	0328	1940.4	16.7	1.98	2.42	108	29.2	2150	1926.3	9.05	9.24	604	604	22.8	37.0	388	5057	13.9	.8	605	1049	.15	1.27	1.27	2.21	9.17	8.70
343	0329	1940.7	16.3	2.55	5.01	107	30.0	2130	1926.3	9.05	9.24	603	603	22.8	37.0	391	5189	14.3	.8	342	1023	.16	1.29	1.28	2.21	9.17	8.70
344	0330	1941.0	15.9	3.62	7.40	96	29.4	2140	1926.3	9.04	9.31	602	602	22.7	37.5	391	5286	14.6	.9	289	1007	.16	1.26	1.25	2.21	9.17	8.70
345	0331	1941.6	36.4	2.87	5.03	109	29.0	2150	1926.3	9.04	9.31	604	604	22.7	37.5	391	5366	15.2	.9	147	971	.16	1.07	1.06	2.21	9.18	8.70
346	0331	1941.9	54.8	2.69	4.15	107	29.6	2150	1926.3	9.04	9.31	605	605	22.7	37.5	391	5391	15.5	.9	73	953	.16	.96	.95	2.21	9.18	8.70
347	0332	1942.2	25.3	2.55	4.82	109	28.9	2160	1926.3	9.04	9.31	605	605	22.7	37.5	392	5462	15.8	.9	205	942	.17	1.16	1.15	2.22	9.18	8.70

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Data Recorded at time 03:33 Date Sep 25 '85

F#	TIME	DEPTH	ROP	TORQUE		RPM	WOB	PUMP	RTRNS	MW lb/gal		FLOW/MIN		TEMP (C)		PVT	THIS BIT			COST		EST	DXC	NX	NXB	ECD	EST
		m	m/hr	AVG	MAX	AVG	AVG	PRES	DEPTH	IN	OUT	IN	OUT	IN	OUT		REVS	m	hrs	INST	RUN	TW					FM PR
348	0333	1942.5	15.5	2.33	2.89	112	30.2	2160	1926.3	9.05	9.36	606	606	22.5	37.2	392	5576	16.2	.9	272	925	.17	1.31	1.30	2.21	9.18	8.70
349	0333	1942.8	42.2	2.14	2.87	110	28.1	2170	1926.3	9.05	9.36	607	607	22.5	37.2	393	5623	16.5	.9	109	911	.17	1.02	1.01	2.22	9.18	8.70
350	0334	1943.1	27.4	2.00	2.60	110	25.3	2160	1926.3	9.03	9.38	607	607	22.4	37.1	393	5704	16.7	.9	180	898	.17	1.10	1.09	2.22	9.19	8.70
351	0335	1943.4	22.8	1.91	2.18	112	25.5	2150	1926.3	9.03	9.38	606	606	22.4	37.1	393	5782	17.0	.9	228	887	.18	1.15	1.14	2.22	9.19	8.70
352	0335	1943.7	16.5	2.11	2.58	111	30.7	2160	1926.3	9.03	9.38	606	606	22.4	37.1	392	5880	17.4	.9	246	874	.18	1.30	1.29	2.22	9.19	8.70
353	0336	1944.0	28.4	4.24	7.75	102	28.9	2140	1926.3	9.04	9.40	605	605	22.3	37.2	391	5945	17.7	1.0	169	862	.18	1.11	1.10	2.22	9.19	8.70
354	0340	1944.3	8.68	2.81	7.00	95	15.9	2100	1926.6	9.07	9.32	596	596	22.1	37.7	388	6138	18.0	1.0	684	857	.19	1.20	1.20	2.22	9.20	8.70
355	0341	1944.7	17.9	2.07	2.47	107	26.9	2110	1926.7	9.07	9.32	597	597	22.1	37.7	387	6246	18.3	1.0	344	848	.19	1.22	1.21	2.22	9.20	8.70
356	0354	1944.9	42.1	1.90	2.21	104	18.1	2170	1928.1	9.04	9.18	563	563	22.9	38.0	401	6295	18.5	1.0	251	840	.19	.89	.89	2.22	9.19	8.70
357	0355	1945.2	21.5	2.28	2.48	107	31.7	2170	1928.3	9.04	9.18	599	599	22.9	38.0	396	6377	18.8	1.0	233	829	.19	1.23	1.22	2.22	9.20	8.70
358	0355	1945.5	15.1	2.22	2.38	107	32.3	2170	1928.6	9.02	9.26	605	605	22.7	37.7	392	6480	19.2	1.0	279	816	.20	1.33	1.32	2.22	9.20	8.70
359	0357	1945.9	18.1	2.29	2.61	107	32.2	2170	1929.2	9.02	9.26	606	606	22.7	37.7	388	6611	19.5	1.1	319	809	.20	1.28	1.27	2.22	9.20	8.70
360	0357	1946.2	17.9	2.31	2.60	109	31.9	2170	1929.6	8.99	9.34	606	606	22.1	37.3	386	6697	19.8	1.1	289	802	.20	1.29	1.27	2.22	9.20	8.70
361	0359	1946.5	17.7	2.24	2.60	112	32.3	2170	1929.9	8.99	9.34	606	606	22.1	37.3	383	6810	20.1	1.1	314	794	.20	1.30	1.29	2.22	9.20	8.70
362	0359	1946.8	19.3	2.03	2.71	109	33.3	2170	1930.2	9.02	9.40	606	606	21.8	37.2	382	6914	20.4	1.1	303	788	.21	1.28	1.27	2.22	9.20	8.70
363	0402	1947.1	6.26	2.22	2.75	107	35.5	2170	1930.9	9.01	9.49	606	606	21.7	37.2	378	7158	20.7	1.1	745	782	.21	1.62	1.61	2.22	9.20	8.70
364	0402	1947.4	33.0	2.04	2.78	105	33.5	2160	1931.0	9.01	9.49	607	607	21.7	37.2	377	7217	20.9	1.2	389	777	.22	1.13	1.12	2.22	9.20	8.70
365	0404	1947.7	9.39	2.04	2.49	106	32.8	2150	1931.4	9.03	9.45	606	606	21.6	37.6	379	7435	21.3	1.2	396	775	.22	1.47	1.45	2.22	9.20	8.70
366	0408	1948.0	5.51	2.10	2.89	109	38.1	2160	1933.0	9.03	9.47	606	606	21.6	37.9	378	7793	21.6	1.2	823	772	.23	1.70	1.68	2.22	9.19	8.70
367	0409	1948.3	20.2	2.23	2.83	110	37.7	2170	1933.5	9.04	9.47	607	607	21.7	37.9	377	7892	21.9	1.3	311	765	.24	1.32	1.31	2.22	9.19	8.70
368	0410	1948.6	11.1	2.34	3.02	109	37.1	2180	1934.3	9.05	9.50	609	609	21.6	37.7	376	8050	22.2	1.3	346	760	.24	1.48	1.47	2.22	9.19	8.70
369	0411	1948.9	23.3	2.37	2.91	110	37.3	2180	1934.6	9.05	9.50	609	609	21.6	37.7	377	8136	22.5	1.3	210	753	.24	1.28	1.26	2.22	9.19	8.70
370	0412	1949.2	11.5	2.71	5.11	106	36.8	2180	1935.1	9.05	9.52	610	610	21.5	37.6	375	8321	22.9	1.3	835	749	.25	1.46	1.45	2.22	9.18	8.70
371	0413	1949.5	37.5	2.60	4.03	110	37.1	2190	1935.2	9.05	9.52	610	610	21.5	37.6	375	8368	23.1	1.3	232	741	.25	1.14	1.12	2.22	9.18	8.70
372	0413	1949.8	35.3	4.82	7.61	97	35.0	2150	1935.3	9.05	9.52	610	610	21.5	37.6	374	8419	23.4	1.3	145	734	.25	1.10	1.09	2.22	9.18	8.70
373	0414	1950.1	32.9	2.34	7.41	105	32.1	2200	1935.5	9.05	9.52	609	609	21.5	37.6	375	8468	23.8	1.3	149	728	.25	1.11	1.10	2.23	9.19	8.70
374	0414	1950.4	43.8	2.17	2.34	112	33.6	2200	1935.5	9.04	9.50	610	610	21.5	37.4	374	8515	24.0	1.4	148	721	.25	1.07	1.05	2.22	9.19	8.70
375	0415	1950.7	38.1	2.38	2.69	112	37.1	2200	1935.5	9.04	9.50	611	611	21.5	37.4	374	8558	24.3	1.4	118	713	.25	1.14	1.12	2.23	9.19	8.70
376	0415	1951.1	45.7	2.20	2.44	113	33.9	2200	1935.5	9.04	9.50	612	612	21.5	37.4	373	8603	24.6	1.4	115	705	.26	1.06	1.04	2.23	9.19	8.70
377	0416	1951.6	39.0	2.39	3.61	113	32.3	2210	1935.5	9.04	9.50	612	612	21.5	37.4	373	8688	25.3	1.4	102	688	.26	1.09	1.07	2.23	9.19	8.70
378	0416	1952.0	36.6	2.40	3.31	113	35.3	2200	1935.6	9.04	9.52	613	613	21.5	37.5	373	8750	25.6	1.4	150	684	.26	1.13	1.12	2.23	9.19	8.70
379	0417	1952.2	51.1	2.33	2.78	112	35.6	2210	1935.7	9.04	9.52	613	613	21.5	37.5	373	8778	25.9	1.4	81	677	.26	1.04	1.02	2.23	9.19	8.70
380	0418	1952.5	18.3	2.50	3.46	111	35.0	2220	1936.1	9.04	9.52	613	613	21.5	37.5	372	8889	26.2	1.4	271	670	.26	1.32	1.31	2.23	9.19	8.70
381	0418	1952.9	42.2	2.44	4.20	110	36.5	2200	1936.3	9.04	9.52	614	614	21.5	37.5	372	8937	26.5	1.4	108	664	.27	1.10	1.08	2.23	9.19	8.70
382	0419	1953.2	37.8	3.81	5.51	105	35.7	2210	1936.5	9.04	9.53	614	614	21.6	37.8	372	8981	26.8	1.4	119	659	.27	1.11	1.10	2.23	9.19	8.70
383	0419	1953.5	38.0	2.27	3.35	108	36.3	2210	1936.7	9.04	9.53	613	613	21.6	37.8	372	9030	27.1	1.4	127	653	.27	1.12	1.11	2.23	9.20	8.70
384	0420	1953.8	29.1	2.48	3.58	109	36.5	2210	1937.0	9.04	9.53	613	613	21.6	37.8	372	9095	27.4	1.4	154	646	.27	1.20	1.18	2.23	9.20	8.70
385	0427	1954.1	10.5	1.94	2.93	109	26.5	2230	1938.3	9.04	9.50	611	611	22.1	37.8	379	9284	27.7	1.5	1115	646	.28	1.36	1.35	2.23	9.19	8.70
386	0428	1954.4	48.9	1.73	2.08	102	23.9	2240	1938.4	9.04	9.50	614	614	22.1	37.8	378	9324	28.0	1.5	100	638	.28	.92	.91	2.23	9.19	8.70
387	0429	1954.7	18.0	2.32	2.76	108	37.6	2250	1938.6	9.04	9.50	618	618	22.1	37.8	375	9435	28.3	1.5	272	634	.28	1.35	1.33	2.23	9.19	8.70
388	0430	1955.0	11.8	2.10	2.41	111	38.2	2250	1938.9	9.03	9.53	619	619	21.7	37.9	371	9588	28.7	1.5	368	633	.28	1.48	1.47	2.23	9.19	8.70
389	0432	1955.3	11.2	2.10	2.80	112	39.2	2250	1939.4	9.04	9.51	620	620	21.4	38.0	368	9785	29.0	1.5	470	631	.29	1.51	1.50	2.23	9.19	8.70
390	0433	1955.7	21.7	2.34	2.81	113	38.1	2250	1939.6	9.04	9.51	620	620	21.4	38.0	366	9890	29.2	1.6	288	627	.29	1.31	1.29	2.23	9.19	8.70
391	0433	1956.0	23.9	2.36	2.63	113	37.6	2250	1939.8	9.04	9.53	620	620	21.3	37.8	365	9974	29.5	1.6	237	622	.30	1.28	1.26	2.23	9.19	8.70
392	0434	1956.3	26.1	2.16	2.55	114	35.6	2250	1939.9	9.04	9.53	620	620	21.3	37.8	364	10052	29.8	1.6	219	618	.30	1.24	1.22	2.23	9.19	8.70
393	0435	1956.5	19.4	2.22	2.92	112	38.4	2250	1940.1	9.04	9.53	620	620	21.3	37.8	364	10136	30.2	1.6	238	614	.30	1.34	1.33	2.23	9.19	8.70
394	0436	1956.9	31.1	2.12	2.56	113	37.7	2250	1940.3	9.05	9.49	620	620	21.2	37.8	363	10214	30.4	1.6	223	611	.30	1.20	1.19	2.23	9.19	8.70
395	0436	1957.1	18.5	2.21	2.73	113	37.8	2260	1940.5	9.05	9.49	620	620	21.2	37.8	363	10302	30.8	1.6	198	605	.30	1.35	1.34	2.23	9.19	8.70
396	0437	1957.4	24.5	2.20	2.69	113	37.0	2250	1940.8	9.05	9.49	620	620	21.2	37.8	362	10385	31.1	1.6	297	605	.31	1.26	1.25	2.23	9.19	8.70
397	0438	1957.7	16.6	2.10	2.61	113	38.2	2250	1941.4	9.04	9.53	620	620	21.2	38.0	361	10505	31.4	1.7	285	599	.31	1.39	1.37	2.24	9.19	8.70

AMOCO AUST. Tilana No.1 329155

Data Printed at time 19:22 Date Oct 9
Data Recorded at time 04:39 Date Sep 25 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
398	0439	1958.0	22.1	2.22	3.33	111	38.6	2230	1942.0	9.04	9.53	618	618	21.2	38.0	361	10597	31.7	1.7	246	595	.31	1.31	1.29	2.23	9.19	8.70
399	0440	1958.3	30.0	2.26	2.65	113	38.4	2230	1942.3	9.05	9.56	618	618	21.2	37.8	360	10665	32.0	1.7	155	591	.32	1.22	1.20	2.24	9.19	8.70
400	0440	1958.7	43.1	2.28	2.49	114	38.5	2230	1942.5	9.05	9.56	617	617	21.2	37.8	361	10712	32.3	1.7	139	587	.32	1.12	1.10	2.24	9.19	8.70
401	0441	1959.0	24.6	2.20	2.67	113	37.8	2230	1942.9	9.05	9.56	616	616	21.2	37.8	360	10805	32.6	1.7	243	583	.32	1.27	1.25	2.24	9.19	8.70
402	0442	1959.3	16.4	2.14	2.60	111	35.8	2230	1943.3	9.04	9.51	616	616	21.2	38.0	360	10917	32.9	1.7	475	580	.32	1.36	1.34	2.24	9.19	8.70
403	0443	1959.9	33.6	2.22	2.56	112	38.0	2240	1943.6	9.04	9.51	617	617	21.2	38.0	359	11013	33.5	1.7	114	574	.32	1.18	1.17	2.24	9.19	8.70
404	0443	1960.2	32.8	2.21	2.51	112	38.2	2250	1943.8	9.04	9.51	619	619	21.2	38.0	359	11082	33.8	1.7	129	569	.33	1.19	1.17	2.24	9.19	8.70
405	0444	1960.5	15.1	2.25	2.74	112	39.5	2250	1943.9	9.03	9.50	620	620	21.0	38.0	359	11190	34.1	1.8	272	565	.33	1.43	1.41	2.24	9.19	8.70
406	0445	1960.8	41.1	2.37	2.77	111	39.5	2250	1944.0	9.03	9.50	620	620	21.0	38.0	359	11243	34.4	1.8	209	563	.33	1.13	1.12	2.24	9.19	8.70
407	0445	1961.1	25.8	2.23	2.46	112	37.0	2240	1944.0	9.03	9.50	619	619	21.0	38.0	359	11301	34.7	1.8	177	560	.33	1.25	1.23	2.24	9.19	8.70
408	0446	1961.5	39.1	2.30	2.45	111	38.8	2240	1944.1	8.99	9.45	618	618	20.8	38.0	358	11366	35.0	1.8	157	555	.33	1.14	1.13	2.24	9.19	8.70
409	0447	1962.0	25.0	2.38	4.14	110	40.0	2230	1944.3	8.99	9.45	618	618	20.8	38.0	359	11494	35.7	1.8	174	548	.34	1.28	1.26	2.24	9.20	8.70
410	0447	1962.3	73.1	2.21	5.04	106	37.5	2230	1944.3	8.99	9.45	618	618	20.8	38.0	358	11516	36.0	1.8	57	544	.34	.94	.92	2.24	9.20	8.70
411	0448	1962.7	54.0	2.44	5.43	102	36.9	2230	1944.3	9.00	9.42	617	617	20.7	38.1	359	11552	36.3	1.8	96	542	.34	1.01	.99	2.24	9.20	8.70
412	0448	1962.9	39.8	3.59	6.16	102	35.5	2230	1944.4	9.00	9.42	617	617	20.7	38.1	358	11589	36.6	1.8	101	538	.34	1.08	1.07	2.24	9.20	8.70
413	0449	1963.2	25.1	2.48	4.02	108	39.1	2230	1944.5	9.00	9.42	616	616	20.7	38.1	358	11665	36.9	1.8	162	533	.34	1.26	1.25	2.24	9.20	8.70
414	0449	1963.5	23.8	2.29	2.77	113	38.2	2200	1944.7	9.00	9.42	616	616	20.7	38.1	357	11738	37.2	1.8	224	531	.34	1.28	1.26	2.24	9.20	8.70
415	0456	1963.8	38.9	2.43	2.76	106	32.7	2220	1944.7	9.02	9.36	605	605	21.3	38.5	372	11801	37.4	1.8	252	530	.35	1.07	1.06	2.24	9.20	8.70
416	0500	1964.1	5.92	3.11	7.69	99	28.9	2220	1945.5	9.03	9.46	614	614	21.0	38.2	358	12051	37.8	1.9	800	529	.35	1.52	1.51	2.24	9.20	8.70
417	0501	1964.5	13.4	2.47	3.65	108	33.3	2230	1945.9	9.03	9.46	616	616	21.0	38.2	355	12205	38.1	1.9	378	528	.36	1.38	1.36	2.24	9.20	8.70
418	0502	1964.8	9.23	3.17	6.64	99	36.2	2210	1946.4	9.02	9.41	613	613	20.8	38.0	353	12335	38.4	1.9	554	527	.36	1.50	1.48	2.24	9.19	8.70
419	0504	1965.1	14.3	2.35	3.55	102	35.3	2230	1946.8	9.02	9.38	615	615	20.7	38.3	352	12466	38.7	2.0	320	526	.36	1.37	1.35	2.24	9.19	8.70
420	0505	1965.4	17.5	3.02	3.71	107	36.2	2230	1947.0	9.02	9.38	616	616	20.7	38.3	351	12577	38.9	2.0	544	525	.37	1.34	1.32	2.24	9.19	8.70
421	0506	1965.7	19.0	3.64	7.28	87	34.8	2190	1947.2	9.02	9.38	614	614	20.7	38.3	351	12659	39.3	2.0	272	522	.37	1.24	1.23	2.25	9.19	8.70
422	0507	1966.0	15.7	2.59	6.48	106	35.5	2220	1947.3	9.02	9.38	614	614	20.7	38.3	350	12780	39.6	2.0	324	521	.37	1.36	1.34	2.24	9.19	8.70
423	0509	1966.3	9.22	2.38	7.54	98	35.6	2220	1947.6	9.01	9.44	612	612	20.6	38.4	352	12934	39.9	2.0	673	520	.38	1.48	1.47	2.25	9.20	8.70
424	0509	1966.6	31.7	2.39	2.77	106	36.1	2220	1947.7	9.01	9.44	614	614	20.6	38.4	357	12997	40.2	2.0	423	519	.38	1.16	1.15	2.25	9.20	8.70
425	0510	1966.9	19.7	2.09	2.62	108	35.9	2230	1947.9	9.01	9.41	616	616	20.6	38.6	366	13093	40.5	2.1	258	516	.38	1.30	1.28	2.25	9.20	8.70
426	0511	1967.2	17.4	2.07	2.54	107	36.6	2230	1948.1	9.01	9.41	617	617	20.6	38.6	376	13204	40.8	2.1	449	515	.38	1.34	1.32	2.25	9.20	8.70
427	0513	1967.5	10.8	2.34	5.90	101	36.0	2230	1948.4	9.05	9.48	615	615	20.8	38.6	389	13360	41.1	2.1	341	513	.39	1.45	1.44	2.25	9.20	8.70
428	0514	1967.8	16.0	3.23	7.00	80	36.6	2200	1948.6	9.05	9.48	614	614	20.8	38.6	397	13445	41.4	2.1	254	512	.39	1.28	1.28	2.25	9.20	8.70
429	0518	1968.1	10.1	3.04	7.63	95	32.5	2180	1950.2	9.07	9.52	608	608	21.5	39.0	433	13590	41.7	2.2	1035	511	.39	1.41	1.40	2.25	9.19	8.70
430	0523	1968.4	4.47	2.15	7.51	99	16.0	2210	1953.2	9.05	9.61	609	609	22.6	39.3	440	13937	42.0	2.2	551	515	.40	1.37	1.36	2.25	9.18	8.70
431	0524	1968.7	11.9	3.32	7.26	96	19.6	2190	1953.8	9.05	9.61	609	609	22.6	39.3	439	14085	42.4	2.2	387	515	.40	1.20	1.19	2.25	9.18	8.70
432	0525	1969.0	16.0	2.38	7.39	94	21.2	2220	1953.9	9.06	9.56	609	609	22.2	39.1	438	14180	42.7	2.3	298	513	.40	1.14	1.13	2.25	9.18	8.70
433	0526	1969.4	25.6	2.72	4.66	105	27.9	2220	1953.9	9.06	9.56	610	610	22.2	39.1	437	14264	43.0	2.3	289	511	.41	1.14	1.12	2.25	9.18	8.70
434	0527	1969.6	24.1	2.58	4.34	99	30.3	2210	1953.9	9.06	9.56	610	610	22.2	39.1	437	14331	43.3	2.3	193	509	.41	1.16	1.15	2.25	9.18	8.70
435	0528	1970.0	14.8	1.99	5.66	102	33.6	2250	1954.2	9.06	9.64	610	610	22.0	39.1	437	14455	43.5	2.3	423	508	.41	1.34	1.33	2.25	9.18	8.70
436	0529	1970.2	11.0	3.70	7.13	100	35.3	2250	1954.5	9.07	9.62	613	613	22.0	38.9	438	14589	43.9	2.3	414	506	.41	1.44	1.43	2.25	9.18	8.70
437	0536	1970.5	3.62	3.92	7.74	97	20.6	2250	1956.3	9.04	9.53	616	616	22.2	39.0	432	15070	44.1	2.4	2277	512	.43	1.50	1.49	2.25	9.18	8.70
438	0540	1970.9	3.62	3.05	7.66	81	22.2	2240	1958.1	9.03	9.57	614	614	22.4	38.6	431	15501	44.5	2.5	1519	516	.44	1.49	1.49	2.25	9.17	8.70
439	0543	1971.5	10.7	2.19	4.22	110	31.4	2250	1959.2	9.02	9.58	616	616	22.5	38.9	428	15800	45.1	2.5	333	515	.45	1.43	1.41	2.25	9.17	8.70
440	0545	1971.8	12.0	4.90	7.73	97	33.5	2230	1959.8	9.03	9.67	615	615	22.4	38.6	426	15945	45.4	2.6	354	514	.45	1.39	1.37	2.25	9.17	8.70
441	0547	1972.1	8.95	3.30	7.56	107	30.2	2240	1960.9	9.04	9.21	615	615	22.1	38.4	423	16125	45.7	2.6	492	515	.45	1.45	1.43	2.25	9.16	8.70
442	0547	1972.4	25.9	2.47	3.55	112	40.7	2250	1961.2	9.04	9.21	617	617	22.1	38.4	423	16203	46.0	2.6	200	512	.45	1.29	1.26	2.25	9.16	8.70
443	0548	1972.7	20.5	2.17	2.36	114	39.6	2250	1961.7	9.07	9.08	618	618	21.9	38.5	422	16293	46.3	2.6	221	510	.46	1.35	1.32	2.25	9.16	8.70
444	0549	1973.0	30.4	2.18	2.71	115	39.7	2240	1962.1	9.07	9.08	618	618	21.9	38.5	422	16361	46.6	2.6	178	509	.46	1.24	1.21	2.25	9.16	8.70
445	0554	1973.3	35.7	2.67	4.31	108	39.0	2270	1963.4	9.07	9.06	612	612	21.8	38.9	437	16458	46.9	2.6	154	507	.46	1.17	1.15	2.26	9.15	8.70
446	0555	1973.6	27.9	2.51	3.26	108	36.9	2270	1963.5	9.07	9.06	617	617	21.8	38.9	436	16527	47.2	2.6	173	504	.46	1.22	1.20	2.25	9.15	8.70
447	0556	1973.9	26.4	3.87	6.38	106	39.1	2270	1963.6	9.05	9.02	619	619	22.1	38.7	433	16597	47.5	2.7	154	502	.46	1.25	1.23	2.26	9.15	8.70

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Data Recorded at time 05:57 Date Sep 25 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
448	0557	1974.2	14.3	2.88	4.92	108	40.2	2260	1963.9	9.05	9.02	619	619	22.1	38.7	429	16733	47.9	2.7	403	501	.47	1.45	1.43	2.26	9.15	8.70
449	0558	1974.5	16.1	2.53	3.44	112	40.6	2270	1964.0	9.04	8.99	619	619	21.9	38.4	427	16858	48.2	2.7	304	500	.47	1.43	1.40	2.26	9.16	8.70
450	0559	1974.8	15.4	2.51	3.97	112	40.3	2260	1964.0	9.04	8.99	619	619	21.9	38.4	425	16990	48.5	2.7	315	499	.47	1.44	1.41	2.26	9.16	8.70
451	0601	1975.1	11.3	2.76	3.84	114	41.0	2250	1964.3	9.03	9.03	620	620	21.6	38.5	420	17196	48.8	2.7	416	499	.48	1.54	1.52	2.26	9.16	8.70
452	0602	1975.4	23.8	2.49	3.06	115	39.0	2250	1964.4	9.01	9.03	620	620	21.3	38.6	419	17274	49.0	2.8	254	498	.48	1.30	1.28	2.26	9.16	8.70
453	0604	1975.8	9.54	2.34	2.77	116	40.3	2260	1964.8	9.01	9.03	621	621	21.3	38.6	417	17514	49.4	2.8	309	498	.49	1.59	1.56	2.26	9.16	8.70
454	0605	1976.0	10.6	2.44	3.05	113	42.1	2240	1965.2	9.03	8.90	619	619	21.1	38.6	415	17684	49.7	2.8	416	497	.49	1.57	1.54	2.26	9.16	8.70
455	0607	1976.3	11.4	2.37	2.68	113	41.0	2240	1965.6	9.01	9.09	620	620	21.0	38.7	414	17863	50.0	2.8	447	496	.50	1.54	1.51	2.26	9.16	8.70
456	0609	1976.6	10.6	2.20	2.86	112	39.2	2250	1966.0	9.03	9.16	620	620	20.8	38.6	412	18059	50.3	2.9	442	496	.50	1.53	1.51	2.26	9.16	8.70
457	0610	1976.9	16.8	2.30	2.80	113	37.7	2240	1966.2	9.03	9.16	620	620	20.8	38.6	412	18179	50.6	2.9	356	495	.51	1.38	1.36	2.26	9.16	8.70
458	0611	1977.2	18.0	2.45	3.28	114	37.4	2250	1966.5	9.04	9.12	621	621	20.7	38.6	410	18295	50.8	2.9	579	496	.51	1.36	1.34	2.26	9.16	8.70
459	0612	1977.5	13.9	2.29	3.13	114	40.0	2240	1966.9	9.04	9.12	621	621	20.7	38.6	411	18439	51.2	2.9	320	493	.51	1.47	1.44	2.26	9.16	8.70
460	0615	1977.9	5.37	1.98	2.82	115	40.0	2240	1967.8	9.04	9.25	620	620	20.7	38.8	408	18830	51.5	3.0	871	496	.52	1.75	1.72	2.26	9.16	8.70
461	0617	1978.2	7.49	2.29	2.86	112	40.6	2240	1967.9	9.04	9.25	619	619	20.7	38.8	406	19051	51.8	3.0	586	496	.53	1.65	1.63	2.26	9.16	8.70
462	0619	1978.5	18.4	2.45	2.77	114	40.2	2240	1968.0	9.04	9.25	620	620	20.7	38.8	405	19186	52.1	3.0	672	496	.53	1.39	1.36	2.26	9.16	8.70
463	0621	1978.8	8.20	2.45	3.02	113	39.4	2240	1968.1	9.03	9.19	620	620	20.4	38.9	405	19409	52.4	3.1	997	495	.54	1.61	1.59	2.26	9.16	8.70
464	0621	1979.1	25.8	2.37	2.73	113	40.4	2240	1968.1	9.03	9.13	620	620	20.4	38.8	405	19473	52.7	3.1	173	493	.54	1.29	1.26	2.26	9.16	8.70
465	0622	1979.4	15.7	2.49	3.07	115	40.9	2240	1968.1	9.03	9.13	620	620	20.4	38.8	405	19618	53.0	3.1	323	492	.54	1.44	1.42	2.26	9.17	8.70
466	0623	1979.8	26.1	2.39	3.07	113	39.1	2240	1968.2	9.03	9.04	619	619	20.5	39.1	405	19698	53.3	3.1	315	491	.55	1.27	1.24	2.26	9.17	8.70
467	0625	1980.3	20.4	2.30	2.91	112	40.0	2240	1968.5	9.03	9.04	620	620	20.5	39.1	404	19859	53.9	3.1	317	488	.55	1.35	1.32	2.26	9.17	8.70
468	0626	1980.6	15.4	2.07	2.99	114	39.5	2230	1968.9	9.03	9.07	619	619	20.4	39.0	403	19992	54.2	3.2	383	487	.55	1.43	1.40	2.26	9.17	8.70
469	0627	1980.9	20.7	2.12	2.76	116	40.6	2240	1969.2	9.03	9.07	619	619	20.4	39.0	403	20095	54.5	3.2	328	485	.56	1.36	1.33	2.27	9.17	8.70
470	0628	1981.2	10.5	2.13	2.93	116	39.4	2240	1969.7	9.04	9.08	620	620	20.5	39.0	402	20254	54.9	3.2	394	485	.56	1.55	1.52	2.26	9.16	8.70
471	0628	1981.5	43.9	2.07	2.83	117	38.5	2240	1969.8	9.04	9.08	620	620	20.5	39.0	402	20292	55.1	3.2	210	483	.56	1.13	1.10	2.27	9.16	8.70
472	0630	1981.9	13.4	2.18	2.92	115	39.9	2240	1970.1	9.03	9.02	620	620	20.6	39.1	401	20450	55.4	3.2	435	482	.57	1.48	1.45	2.27	9.16	8.70
473	0636	1982.4	18.1	1.91	2.82	110	28.6	2210	1970.5	9.00	9.03	593	593	20.5	39.1	412	20657	56.1	3.3	228	479	.57	1.25	1.23	2.27	9.16	8.70
474	0637	1983.0	28.9	2.92	7.46	108	37.6	2190	1970.5	9.03	8.97	612	612	21.3	39.2	409	20759	56.7	3.3	200	476	.57	1.21	1.19	2.27	9.17	8.70
475	0640	1983.3	8.71	2.34	7.45	110	33.0	2210	1970.6	9.03	8.98	612	612	21.2	39.2	401	20985	56.9	3.3	621	477	.58	1.50	1.48	2.27	9.17	8.70
476	0640	1983.6	29.4	2.22	2.66	117	39.8	2230	1970.6	9.01	8.95	613	613	20.8	39.4	401	21058	57.3	3.3	169	475	.58	1.25	1.22	2.27	9.17	8.70
477	0644	1983.9	5.24	3.23	7.37	113	40.7	2220	1970.9	9.02	8.97	614	614	20.8	39.5	396	21435	57.6	3.4	671	477	.59	1.76	1.73	2.27	9.17	8.70
478	0646	1984.2	9.94	2.38	4.09	115	41.0	2220	1971.2	8.99	8.98	614	614	20.7	39.3	396	21644	57.9	3.4	500	477	.59	1.58	1.55	2.27	9.16	8.70
479	0648	1984.6	8.29	3.72	7.58	108	40.6	2170	1971.6	9.00	9.03	614	614	20.6	39.2	394	21892	58.2	3.4	560	478	.60	1.61	1.59	2.27	9.16	8.70
480	0651	1984.9	7.83	3.35	7.76	110	30.7	2200	1972.6	9.00	9.05	610	610	20.5	39.4	392	22121	58.5	3.5	788	480	.61	1.50	1.48	2.27	9.16	8.70
481	0652	1985.2	17.0	2.23	2.85	117	39.3	2210	1972.8	9.00	9.05	614	614	20.5	39.4	391	22258	58.8	3.5	327	478	.61	1.41	1.38	2.27	9.16	8.70
482	0654	1985.5	14.9	2.17	2.79	118	40.2	2210	1973.0	9.00	8.98	614	614	20.5	39.7	391	22387	59.1	3.5	342	477	.61	1.46	1.43	2.27	9.16	8.70
483	0655	1985.8	16.5	2.28	2.88	118	39.1	2210	1973.3	9.00	8.98	615	615	20.5	39.7	390	22527	59.4	3.5	427	477	.62	1.42	1.39	2.27	9.16	8.70
484	0656	1986.1	9.17	2.29	2.91	117	40.4	2210	1973.7	9.00	9.06	614	614	20.4	39.4	389	22693	59.7	3.6	420	476	.62	1.60	1.57	2.27	9.16	8.70
485	0657	1986.4	18.5	2.43	3.19	116	40.7	2220	1974.1	9.00	9.06	614	614	20.4	39.4	390	22830	60.0	3.6	526	476	.62	1.40	1.37	2.27	9.16	8.70
486	0658	1986.7	18.3	2.38	3.06	118	40.5	2220	1974.4	9.01	9.07	615	615	20.5	39.1	390	22924	60.3	3.6	244	474	.63	1.40	1.37	2.27	9.16	8.70
487	0700	1987.0	11.4	2.33	3.32	116	40.5	2230	1974.8	9.00	9.08	614	614	20.5	39.3	389	23129	60.6	3.6	469	474	.63	1.54	1.51	2.27	9.15	8.70
488	0701	1987.3	11.1	2.32	3.07	117	40.4	2230	1975.0	9.00	9.08	615	615	20.5	39.3	388	23269	61.0	3.6	337	473	.64	1.55	1.52	2.27	9.15	8.70
489	0702	1987.6	18.2	2.99	7.42	113	40.6	2210	1975.2	9.01	9.02	614	614	20.5	39.6	389	23379	61.3	3.7	259	472	.64	1.39	1.36	2.27	9.15	8.70
490	0703	1987.9	14.9	2.53	6.24	112	40.4	2220	1975.4	9.01	9.02	613	613	20.5	39.6	388	23514	61.6	3.7	374	472	.64	1.45	1.42	2.27	9.15	8.70
491	0705	1988.2	13.5	2.26	2.63	114	41.6	2220	1975.7	9.00	8.96	614	614	20.4	39.7	387	23665	61.9	3.7	-357	471	.65	1.50	1.46	2.27	9.15	8.70
492	0708	1988.5	5.28	2.12	2.65	117	41.4	2230	1976.5	9.01	8.98	617	617	20.3	39.7	385	24092	62.2	3.8	1351	474	.66	1.78	1.75	2.27	9.15	8.70
493	0710	1988.8	10.6	2.14	2.50	117	41.2	2230	1976.8	9.02	9.03	616	616	20.3	39.5	385	24278	62.5	3.8	485	474	.66	1.57	1.54	2.28	9.14	8.70
494	0714	1989.2	5.73	2.11	2.69	115	41.7	2220	1977.6	9.03	9.15	615	615	20.1	39.4	382	24710	62.8	3.8	616	476	.67	1.76	1.72	2.27	9.14	8.70
495	0716	1989.5	6.45	2.16	2.94	116	43.1	2230	1978.0	9.03	9.29	617	617	20.2	39.6	381	25006	63.1	3.9	720	477	.68	1.74	1.71	2.28	9.14	8.70
496	0719	1989.8	4.80	1.99	2.60	117	41.8	2240	1978.5	9.02	9.34	619	619	20.0	39.7	380	25363	63.4	3.9	3018	480	.69	1.82	1.78	2.28	9.14	8.70
497	0722	1990.1	7.58	2.21	3.08	114	42.4	2240	1978.9	9.02	9.21	619	619	20.0	39.9	378	25640	63.7	4.0	704	480	.69	1.68	1.65	2.28	9.14	8.70

AMOCO AUST. Tilana No.1 329157 Data Printed at time 19:30 Date Oct 9
Data Recorded at time 07:24 Date Sep 25 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
498	0724	1990.4	7.76	2.20	3.23	115	41.2	2240	1979.8	9.04	9.17	620	620	20.0	39.8	378	25830	64.0	4.0	625	480	.70	1.66	1.63	2.28	9.13	8.70
499	0725	1990.7	10.4	2.24	2.55	114	40.6	2250	1980.2	9.04	9.26	620	620	20.0	39.8	376	26021	64.3	4.0	429	480	.70	1.57	1.53	2.28	9.13	8.70
500	0727	1991.0	9.82	1.96	2.44	116	41.8	2240	1980.7	9.03	9.28	620	620	19.9	39.8	376	26201	64.6	4.1	497	480	.71	1.60	1.57	2.28	9.13	8.70
501	0729	1991.3	8.72	2.19	3.00	114	41.6	2250	1981.3	9.03	9.28	619	619	19.9	39.8	374	26455	64.9	4.1	608	480	.71	1.63	1.60	2.28	9.13	8.70
502	0731	1991.6	6.62	2.32	5.13	111	41.6	2140	1981.9	9.03	9.16	619	619	19.9	39.9	371	26743	65.2	4.1	865	481	.72	1.71	1.67	2.28	9.13	8.70
503	0741	1991.9	7.22	2.23	5.59	115	40.1	2180	1983.1	9.10	9.07	611	611	20.3	40.0	377	27061	65.5	4.2	682	482	.73	1.67	1.64	2.28	9.12	8.70
504	0744	1992.2	6.22	1.83	2.06	117	40.7	2180	1983.7	9.02	9.03	612	612	19.6	40.1	370	27403	65.8	4.2	1095	484	.74	1.73	1.69	2.28	9.12	8.70
505	0749	1992.5	3.57	1.67	2.14	118	42.0	2170	1984.3	9.01	9.01	610	610	19.5	39.5	365	28028	66.1	4.3	3057	489	.75	1.91	1.88	2.28	9.12	8.70
506	0757	1992.8	2.25	1.56	2.55	116	43.0	2140	1985.7	9.03	9.17	609	609	19.5	40.1	360	28968	66.4	4.5	2451	496	.77	2.06	2.03	2.28	9.12	8.70
507	0802	1993.1	3.76	1.78	3.13	112	42.4	2130	1986.9	9.03	9.22	610	610	19.5	40.1	357	29496	66.7	4.5	1926	500	.78	1.89	1.85	2.28	9.11	8.70
508	0807	1993.5	4.29	1.77	2.08	117	41.2	1460	1988.0	9.06	9.30	525	525	19.5	40.1	352	30046	67.1	4.6	1085	504	.80	1.85	1.81	2.28	9.11	8.70
509	0812	1993.7	3.22	1.65	2.27	118	32.3	1390	1988.5	9.09	9.27	487	487	19.7	40.1	352	30650	67.4	4.7	1407	508	.81	1.80	1.76	2.28	9.10	8.70
510	0823	1994.0	1.68	1.62	1.95	118	31.2	1360	1989.6	9.13	9.21	480	480	19.6	39.5	333	31924	67.6	4.9	2579	519	.84	1.96	1.92	2.28	9.10	8.70
511	0828	1994.3	3.10	1.69	2.59	115	35.2	1360	1989.9	9.04	9.13	479	479	19.7	39.6	323	32613	68.0	5.0	1823	524	.86	1.85	1.81	2.28	9.11	8.70
512	0832	1994.6	3.77	1.73	2.37	118	34.2	1360	1990.4	9.05	9.13	480	480	19.9	39.5	319	33073	68.2	5.0	1514	526	.87	1.79	1.75	2.28	9.12	8.70
513	0837	1995.0	3.61	1.76	2.12	117	34.2	1370	1991.1	9.01	9.11	480	480	20.1	39.7	316	33670	68.5	5.1	1167	530	.88	1.79	1.75	2.28	9.12	8.70
514	0843	1995.3	3.26	1.76	2.27	118	34.3	1370	1991.6	9.01	9.08	479	479	20.2	39.2	325	34329	68.8	5.2	2843	535	.90	1.82	1.78	2.28	9.12	8.70
515	0857	1995.9	2.42	1.68	2.17	118	33.5	1400	1992.4	9.12	9.07	478	478	20.4	39.2	343	35932	69.4	5.4	3744	546	.93	1.90	1.85	2.28	9.12	8.70
516	0903	1996.1	1.93	1.72	2.12	118	35.2	1400	1992.6	9.07	9.05	475	475	20.8	39.0	375	36712	69.8	5.6	1756	551	.95	1.99	1.95	2.28	9.12	8.70
517	0905	1996.4	7.90	2.08	2.53	117	34.3	1410	1992.6	9.09	9.05	475	475	21.2	39.2	380	36973	70.1	5.6	658	552	.96	1.57	1.53	2.28	9.12	8.70
518	0907	1996.7	12.3	1.90	2.44	117	34.7	1410	1992.7	9.09	9.05	476	476	21.2	39.2	381	37145	70.4	5.6	405	551	.96	1.45	1.41	2.28	9.12	8.70
519	0911	1997.1	4.70	1.69	2.27	119	33.1	1400	1992.8	9.07	9.08	472	472	21.3	39.0	377	37615	70.7	5.7	2178	553	.97	1.70	1.66	2.28	9.13	8.70
520	0913	1997.4	6.05	1.82	2.54	117	34.7	1410	1992.9	9.07	9.05	474	474	21.2	38.8	377	37922	71.0	5.7	720	554	.98	1.65	1.61	2.28	9.13	8.70
521	0915	1997.7	10.0	1.91	2.42	118	33.8	1410	1993.0	9.07	9.04	474	474	21.4	38.6	375	38135	71.3	5.8	498	554	.98	1.50	1.46	2.28	9.13	8.70
522	0918	1998.0	6.36	1.74	2.17	118	33.6	1400	1993.2	9.09	9.05	474	474	21.7	38.9	375	38484	71.6	5.8	1661	555	.99	1.63	1.58	2.28	9.13	8.70
523	0922	1998.3	4.23	2.00	2.85	117	35.0	1390	1993.4	9.09	9.07	473	473	22.2	38.8	373	38972	71.9	5.9	1238	557	1.00	1.76	1.71	2.28	9.14	8.70
524	0925	1998.6	7.65	1.97	2.53	116	35.6	1400	1993.5	9.08	9.05	473	473	22.4	38.4	371	39258	72.2	5.9	771	558	1.01	1.60	1.55	2.28	9.14	8.70
525	0928	1998.9	5.67	1.98	2.92	116	35.1	1390	1993.7	9.09	9.05	473	473	22.8	38.6	370	39594	72.5	6.0	790	559	1.01	1.67	1.63	2.29	9.14	8.70
526	0929	1999.2	10.0	1.90	2.76	115	34.3	1390	1993.8	9.08	9.03	473	473	22.9	38.5	369	39779	72.8	6.0	464	558	1.02	1.50	1.46	2.29	9.14	8.70
527	0930	1999.5	46.2	2.22	3.08	114	32.6	1380	1993.8	9.08	9.03	473	473	22.9	38.5	369	39825	73.1	6.0	147	557	1.02	1.05	1.01	2.29	9.15	8.70
528	0936	1999.8	3.07	1.81	2.47	116	34.1	1380	1993.9	9.09	9.03	474	474	22.9	38.6	365	40591	73.4	6.1	710	562	1.03	1.83	1.78	2.29	9.15	8.70
529	0937	2000.1	11.1	1.91	3.14	116	34.0	1380	1994.0	9.09	9.03	474	474	22.9	38.6	363	40723	73.8	6.1	311	561	1.04	1.47	1.42	2.29	9.15	8.70
530	0940	2000.4	7.17	1.68	1.92	117	34.6	1380	1994.0	9.09	9.01	473	473	22.9	38.7	362	41016	74.1	6.2	758	561	1.04	1.60	1.55	2.29	9.16	8.70
531	0943	2000.7	5.73	1.70	1.83	117	34.4	1380	1994.2	9.09	9.03	473	473	22.9	38.7	360	41386	74.4	6.2	705	562	1.05	1.66	1.61	2.29	9.16	8.70
532	0948	2001.0	3.90	1.79	2.81	116	34.6	1380	1994.6	9.08	9.03	474	474	22.9	38.8	358	41939	74.7	6.3	986	566	1.06	1.77	1.72	2.29	9.15	8.70
+ NB#11 SMITH F2 12.25" 3x15 jets. Start depth 6568'. (2001·8m)																											
536	1738	2002.2	6.93	2.16	2.54	95	17.6	2220	2001.9	9.12	9.04	605	605	26.6	33.8	286	334	.30	.0	708	37390	.00	1.29	1.29	2.29	9.19	8.70
537	1741	2002.5	5.42	1.92	2.29	93	16.5	2220	2001.9	9.08	9.05	608	590	26.4	34.9	284	489	.61	.1	713	22267	.00	1.32	1.32	2.30	9.19	8.70
538	1742	2002.8	7.35	1.85	2.04	93	12.6	2220	2001.9	9.08	9.05	608	585	26.4	34.9	284	673	.91	.1	732	21389	.00	1.17	1.17	2.30	9.19	8.70
539	1743	2003.1	11.2	1.89	2.11	93	14.3	2210	2001.9	9.09	9.05	609	576	26.4	35.8	282	878	1.22	.1	267	14355	.00	1.11	1.11	2.30	9.19	8.70
540	1745	2003.5	12.6	1.90	2.22	95	17.6	2210	2001.9	9.07	9.02	608	561	26.3	36.7	285	1038	1.52	.2	291	12036	.00	1.15	1.15	2.30	9.20	8.70
541	1747	2003.8	7.15	2.02	2.40	93	20.1	2200	2001.9	9.05	8.98	608	559	26.3	37.5	281	1249	1.83	.2	726	9727	.01	1.32	1.32	2.30	9.20	8.70
542	1748	2004.1	17.5	1.89	2.32	93	18.8	2210	2001.9	9.05	9.00	607	546	26.3	37.9	282	1338	2.13	.2	277	8495	.01	1.08	1.09	2.30	9.20	8.70
543	1751	2004.4	8.09	2.13	2.72	96	24.8	2230	2001.9	9.05	8.97	610	548	25.6	37.9	283	1589	2.43	.3	-704	7453	.01	1.37	1.37	2.30	9.20	8.70
544	1753	2004.7	8.13	2.15	2.69	98	25.9	2220	2001.9	8.99	8.98	610	541	24.9	37.8	282	1766	2.74	.3	524	6645	.01	1.39	1.39	2.30	9.19	8.70
545	1754	2005.1	26.9	2.38	2.89	96	31.4	2220	2001.9	8.99	8.98	610	541	24.9	37.8	284	1850	3.01	.3	361	6070	.01	1.13	1.14	2.30	9.20	8.70
546	1757	2005.6	9.43	2.62	3.80	94	37.7	2300	2001.9	9.02	8.95	608	530	24.7	37.9	328	2145	3.63	.4	1520	5112	.01	1.49	1.49	2.30	9.20	8.70
547	1758	2006.2	37.5	2.57	3.88	90	34.9	2310	2001.9	9.02	8.95	607	528	24.7	37.9	338	2209	4.26	.4	126	4368	.01	1.06	1.06	2.30	9.20	8.70
548	1758	2006.5	35.2	2.62	3.44	88	34.3	2330	2001.9	9.02	8.95	607	520	24.7	37.9	345	2253	4.57	.4	137	4086	.01	1.07	1.07	2.30	9.20	8.70
549	1759	2006.8	32.4	2.59	3.32	89	34.6	2330	2001.9	9.02	8.95	606	522	24.7	37.9	348	2305	4.87	.4	151	3841	.01	1.09	1.10	2.30	9.20	8.70

AMOCO AUST. Tilana No.1 329158 Data Printed at time 19:34 Date Oct 9 '85
Data Recorded at time 17:59 Date Sep 25 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TV	DXC	NX	NXB	ECD	EST FM PR
550	1759	2007.1	23.1	2.48	3.52	90	33.0	2340	2001.9	9.01	8.94	605	526	24.9	37.7	347	2372	5.15	.4	211	3648	.01	1.18	1.18	2.30	9.20	8.70
551	1801	2007.4	15.1	2.34	3.48	83	34.0	2340	2001.9	9.01	8.94	604	518	24.9	37.7	345	2469	5.45	.4	428	3463	.01	1.28	1.28	2.30	9.20	8.70
552	1802	2007.7	11.7	2.44	3.07	91	32.8	2400	2001.9	9.01	8.93	606	509	24.7	37.9	345	2596	5.79	.5	415	3300	.01	1.36	1.37	2.30	9.19	8.70
553	1803	2008.2	22.5	2.36	3.62	100	36.2	2410	2001.9	9.00	8.91	606	506	25.0	38.0	343	2712	6.09	.5	417	3183	.01	1.25	1.25	2.30	9.19	8.70
554	1806	2008.7	11.7	2.37	3.49	98	34.5	2350	2001.9	8.97	8.92	606	503	25.2	38.2	341	2970	6.70	.5	324	2914	.01	1.41	1.41	2.30	9.19	8.70
555	1807	2008.9	11.0	2.30	3.33	98	34.5	2280	2001.9	8.97	8.92	608	525	25.2	38.2	342	3103	7.01	.5	370	2774	.01	1.42	1.42	2.30	9.19	8.70
556	1808	2009.3	25.7	2.60	3.40	98	36.8	2280	2001.9	8.97	8.91	609	555	25.4	38.2	341	3176	7.31	.6	260	2669	.01	1.21	1.21	2.30	9.19	8.70
557	1810	2009.6	8.77	2.32	2.80	98	35.5	2280	2001.9	8.98	8.91	610	566	25.7	38.1	341	3380	7.61	.6	594	2584	.02	1.50	1.50	2.30	9.19	8.70
558	1811	2009.9	11.2	2.30	2.83	96	35.2	2270	2001.9	8.98	8.91	610	570	25.7	38.1	344	3520	7.92	.6	478	2500	.02	1.42	1.42	2.30	9.19	8.70
559	1812	2010.2	20.9	2.41	3.57	96	33.5	2270	2001.9	8.96	8.90	611	563	27.6	38.1	349	3603	8.23	.6	289	2440	.02	1.23	1.23	2.31	9.19	8.70
560	1812	2010.5	89.7	2.47	2.80	97	35.0	2270	2001.9	8.96	8.90	611	563	27.6	38.1	350	3621	8.52	.6	133	2390	.02	.84	.84	2.31	9.19	8.70
561	1813	2010.8	45.2	2.39	2.69	96	32.9	2280	2001.9	8.96	8.90	611	561	27.6	38.1	350	3655	8.83	.6	98	2255	.02	1.01	1.01	2.31	9.19	8.70
562	1813	2011.1	43.1	2.65	3.23	96	29.7	2270	2001.9	8.96	8.90	611	562	27.6	38.1	352	3691	9.10	.6	146	2218	.02	.96	.96	2.31	9.19	8.70
563	1820	2011.5	20.4	2.08	2.31	98	28.4	2310	2001.9	9.11	8.89	610	558	29.1	38.1	406	3696	9.44	.6	105	2135	.02	1.18	1.18	2.31	9.18	8.70
564	1822	2012.0	18.6	2.87	4.31	95	29.7	2320	2001.9	9.22	8.84	617	589	28.8	38.2	409	3821	10.1	.7	345	1995	.02	1.21	1.22	2.31	9.18	8.70
565	1826	2012.3	4.97	2.44	2.90	98	34.6	2340	2001.9	9.21	8.62	616	661	28.5	39.0	423	4200	10.4	.7	2052	1969	.02	1.65	1.65	2.31	9.18	8.70
566	1828	2012.6	6.65	2.50	2.95	99	34.8	2350	2001.9	9.18	9.19	616	628	28.2	38.4	426	4469	10.7	.8	799	1934	.02	1.57	1.57	2.31	9.18	8.70
567	1831	2012.9	7.96	2.59	3.16	99	34.4	2370	2001.9	9.19	9.10	616	623	28.1	38.5	422	4695	10.9	.8	708	1901	.02	1.52	1.51	2.31	9.18	8.70
568	1834	2013.3	5.88	3.57	7.61	93	34.6	2370	2001.9	9.18	9.25	612	606	27.9	38.7	418	5009	11.3	.9	836	1870	.02	1.59	1.59	2.31	9.19	8.70
569	1835	2013.5	12.2	2.32	3.05	100	35.1	2380	2001.9	9.17	9.18	615	581	27.9	38.7	420	5134	11.6	.9	446	1830	.02	1.41	1.41	2.31	9.19	8.70
570	1836	2013.9	19.5	2.65	3.05	98	34.6	2380	2001.9	9.18	9.19	615	573	28.1	38.9	420	5240	11.8	.9	245	1796	.02	1.26	1.26	2.31	9.19	8.70
571	1841	2014.1	5.33	2.94	7.74	97	35.6	2350	2002.1	9.18	9.21	612	504	28.3	38.8	418	5501	12.2	1.0	7103	1765	.03	1.64	1.64	2.31	9.19	8.70
572	1845	2014.4	3.96	4.12	7.77	83	32.0	2360	2002.8	9.18	9.20	613	480	28.3	38.9	416	5871	12.5	1.0	1002	1753	.03	1.63	1.63	2.31	9.19	8.70
573	1847	2014.7	8.83	2.97	7.58	90	36.6	2360	2003.2	9.19	9.21	615	503	28.2	38.9	417	6054	12.8	1.1	578	1726	.03	1.49	1.49	2.31	9.19	8.70
574	1850	2015.0	6.03	3.61	7.87	88	36.5	2340	2003.7	9.18	9.19	613	495	28.1	38.8	417	6317	13.1	1.1	959	1706	.03	1.59	1.59	2.31	9.20	8.70
575	1855	2015.3	4.65	4.44	7.93	86	34.1	2320	2004.5	9.15	9.20	611	518	28.6	38.9	418	6631	13.4	1.2	907	1689	.03	1.62	1.62	2.31	9.21	8.70
576	1858	2015.6	6.49	3.79	7.74	89	36.4	2290	2005.3	9.15	9.25	612	548	28.5	38.7	417	6877	13.7	1.2	745	1669	.03	1.57	1.57	2.31	9.21	8.70
577	1901	2015.9	5.72	4.15	7.49	88	36.5	2290	2006.4	9.13	9.26	613	564	28.2	38.4	414	7157	14.0	1.3	797	1652	.03	1.60	1.60	2.31	9.21	8.70
578	1904	2016.3	7.94	3.20	7.63	94	38.6	2300	2007.2	9.12	9.29	616	582	27.9	38.6	414	7374	14.3	1.3	532	1632	.03	1.55	1.55	2.31	9.21	8.70
579	1908	2016.6	4.10	5.12	7.85	86	38.6	2250	2008.1	9.12	9.29	613	620	27.9	39.3	410	7702	14.6	1.4	1802	1621	.04	1.71	1.72	2.31	9.22	8.70
580	1911	2016.9	4.82	4.60	7.91	81	36.0	2290	2009.2	9.12	9.27	614	617	27.7	40.1	404	8008	14.9	1.4	1264	1611	.04	1.61	1.62	2.31	9.22	8.70
581	1914	2017.2	7.01	3.51	7.65	95	36.6	2280	2009.7	9.14	9.29	616	594	27.6	40.1	399	8274	15.2	1.5	808	1593	.04	1.56	1.56	2.31	9.23	8.70
582	1917	2017.5	6.79	4.23	7.75	88	37.4	2270	2011.0	9.12	9.29	614	600	27.6	40.0	395	8482	15.5	1.5	701	1572	.04	1.56	1.56	2.31	9.23	8.70
583	1921	2017.8	4.50	3.23	7.67	93	35.7	2280	2011.8	9.13	9.31	616	582	27.5	39.5	389	8859	15.8	1.6	981	1565	.04	1.67	1.67	2.32	9.23	8.70
584	1925	2018.1	4.59	3.04	7.47	89	36.5	2280	2012.3	9.11	9.13	614	578	27.3	39.6	386	9208	16.2	1.7	1092	1554	.04	1.66	1.66	2.32	9.24	8.70
585	1929	2018.4	4.13	2.52	6.61	93	37.5	2290	2012.7	9.13	9.11	615	585	27.3	39.8	382	9616	16.4	1.7	1235	1550	.05	1.71	1.71	2.32	9.25	8.70
586	1932	2018.7	6.05	2.43	3.23	93	37.1	2290	2013.1	9.10	9.13	615	578	27.2	39.7	379	9896	16.8	1.8	839	1535	.05	1.60	1.60	2.32	9.24	8.70
587	1936	2019.0	4.30	2.80	3.37	92	37.5	2290	2013.8	9.13	9.08	617	604	27.2	39.8	377	10286	17.1	1.9	1129	1528	.05	1.70	1.70	2.32	9.24	8.70
588	1940	2019.3	5.37	2.83	3.76	92	37.3	2290	2014.1	9.12	9.06	617	594	27.1	39.8	374	10600	17.4	1.9	1018	1518	.05	1.64	1.64	2.32	9.23	8.70
589	1946	2019.6	2.87	2.52	7.42	93	37.0	2300	2014.6	9.16	9.07	616	577	27.3	40.0	375	11144	17.7	2.0	3612	1519	.05	1.81	1.81	2.32	9.23	8.70
590	1951	2019.9	3.70	4.33	7.67	88	36.8	2300	2015.1	9.17	9.04	616	574	27.7	40.1	375	11575	18.0	2.1	1384	1516	.05	1.72	1.73	2.32	9.22	8.70
591	2006	2020.2	1.46	3.39	7.54	89	35.7	2320	2016.1	9.11	9.10	620	566	28.2	39.9	375	12208	18.3	2.2	4839	1524	.06	1.97	1.97	2.32	9.22	8.70
592	2008	2020.5	2.13	2.63	4.65	93	33.6	2320	2016.4	9.09	9.11	617	564	27.5	40.6	373	12418	18.6	2.3	3945	1509	.06	1.84	1.84	2.32	9.22	8.70
593	2013	2020.8	2.19	3.15	6.10	94	33.9	2320	2016.7	9.11	9.11	618	565	27.2	40.1	372	12878	18.9	2.3	2314	1507	.06	1.85	1.85	2.32	9.22	8.70
594	2017	2021.1	4.92	3.26	7.54	92	34.5	2320	2017.1	9.12	9.10	619	547	27.3	40.6	384	13221	19.2	2.4	1022	1498	.06	1.63	1.63	2.32	9.22	8.70
595	2018	2021.4	6.43	2.49	2.98	98	35.6	2320	2017.3	9.12	9.10	619	549	27.3	40.6	385	13363	19.5	2.4	987	1478	.06	1.64	1.64	2.32	9.22	8.70
596	2024	2021.7	2.80	3.65	7.89	89	35.1	2310	2018.0	9.12	9.09	617	533	27.2	40.8	380	13886	19.8	2.5	2498	1483	.07	1.78	1.78	2.32	9.21	8.70
597	2029	2022.1	3.57	4.05	7.73	89	34.6	2310	2018.3	9.12	9.12	619	552	27.1	40.9	377	14382	20.1	2.6	1636	1484	.07	1.71	1.71	2.32	9.21	8.70
598	2036	2022.3	2.41	3.06	7.64	94	33.7	2310	2019.0	9.11	9.12	619	550	27.3	40.7	376	15037	20.4	2.7	1706	1490	.07	1.82	1.82	2.32	9.21	8.70
599	2039	2022.7	6.30	3.24	7.06	89	32.7	2290	2019.3	9.10	9.09	617	553	27.3	40.5	373	15293	20.7	2.8	1005	1480	.07	1.52	1.52	2.32	9.21	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DKC	NK	NKB	ECD	EST FM PR
600	2042	2023.0	6.75	2.61	6.89	89	33.4	2290	2019.5	9.09	9.09	619	548	27.1	40.6	370	15550	21.0	2.8	810	1470	.07	1.52	1.52	2.32	9.21	8.78
601	2046	2023.3	4.46	2.42	3.20	90	34.2	2280	2019.9	9.08	9.11	619	557	27.0	41.0	366	15893	21.3	2.9	1078	1463	.07	1.65	1.65	2.32	9.21	8.78
602	2050	2023.6	4.53	3.21	7.56	86	33.2	2290	2020.0	9.11	9.10	619	553	27.0	41.1	364	16238	21.6	3.0	1027	1458	.08	1.61	1.61	2.32	9.21	8.78
603	2054	2023.9	4.27	2.66	3.84	92	35.3	2290	2020.3	9.08	9.11	620	590	27.0	40.8	360	16633	21.9	3.0	883	1454	.08	1.68	1.68	2.32	9.20	8.78
604	2056	2024.2	11.8	2.77	4.30	95	32.8	2300	2020.4	9.10	9.13	619	578	26.8	41.0	359	16787	22.2	3.1	502	1442	.08	1.37	1.37	2.32	9.20	8.78
605	2058	2024.5	7.59	2.48	3.33	95	31.2	2290	2020.4	9.08	9.14	620	580	26.8	41.1	358	17001	22.6	3.1	632	1430	.08	1.47	1.47	2.32	9.20	8.78
606	2103	2024.8	3.93	2.40	3.22	96	33.2	2290	2020.5	9.07	9.17	619	589	26.9	41.1	353	17445	22.9	3.2	1041	1427	.08	1.68	1.68	2.32	9.20	8.78
607	2106	2025.1	6.05	2.49	3.89	92	34.3	2300	2020.6	9.06	9.19	621	597	26.9	41.1	348	17723	23.2	3.2	842	1419	.08	1.57	1.57	2.32	9.20	8.78
608	2109	2025.4	5.04	2.33	2.93	96	33.6	2300	2020.9	9.06	9.14	621	577	26.9	41.3	346	18070	23.5	3.3	930	1414	.09	1.62	1.62	2.33	9.19	8.78
609	2117	2025.7	2.22	2.17	3.37	86	33.9	2280	2021.7	9.08	9.16	618	574	27.7	41.4	328	18768	23.8	3.4	2707	1424	.09	1.83	1.83	2.33	9.18	8.78
610	2125	2026.0	2.37	2.18	2.87	89	34.4	2290	2022.1	9.14	9.16	617	572	27.8	41.1	314	19451	24.1	3.5	2179	1433	.09	1.83	1.83	2.33	9.18	8.78
611	2132	2026.3	2.84	2.19	3.02	89	33.7	2270	2022.3	9.13	9.21	617	565	27.5	41.3	308	20023	24.4	3.6	1787	1437	.09	1.77	1.77	2.33	9.17	8.78
612	2137	2026.6	3.60	2.26	2.85	88	33.6	2280	2022.7	9.17	9.18	616	547	28.1	41.5	306	20434	24.7	3.7	1589	1438	.10	1.78	1.78	2.33	9.17	8.78
613	2140	2026.9	3.70	2.31	2.82	88	34.3	2270	2023.0	9.12	9.22	617	549	28.4	41.4	303	20789	25.0	3.8	1437	1432	.10	1.69	1.69	2.33	9.20	8.78
614	2144	2027.2	2.32	2.17	2.79	89	34.9	2280	2023.3	9.14	9.23	616	544	28.2	41.3	301	21084	25.3	3.8	2664	1426	.10	1.83	1.83	2.33	9.22	8.78
615	2146	2027.5	3.02	2.21	2.96	89	34.5	2280	2023.5	9.13	9.17	617	546	28.4	41.3	301	21319	25.6	3.9	2008	1417	.10	1.75	1.75	2.33	9.24	8.78
616	2150	2027.8	2.63	2.22	3.00	89	34.1	2290	2023.8	9.15	9.19	616	543	28.7	41.4	302	21652	25.9	4.0	1707	1412	.10	1.77	1.77	2.33	9.28	8.78
617	2157	2028.1	2.65	2.23	2.92	89	36.6	2250	2024.7	9.10	9.21	617	545	28.5	41.5	293	22261	26.2	4.1	2085	1418	.10	1.80	1.80	2.33	9.33	8.78
618	2206	2028.4	2.01	2.23	2.96	88	35.8	2230	2025.6	9.10	9.20	617	540	27.9	41.7	285	23063	26.5	4.2	2587	1430	.11	1.85	1.85	2.33	9.38	8.78
619	2215	2028.7	2.10	2.26	2.94	88	37.0	2220	2026.2	9.10	9.21	619	553	27.8	41.6	281	23828	26.8	4.4	2481	1440	.11	1.86	1.86	2.33	9.38	8.78
620	2223	2029.1	2.48	2.30	2.80	88	35.6	2220	2026.6	9.10	9.19	617	531	28.3	41.8	277	24524	27.1	4.5	2402	1450	.11	1.79	1.79	2.33	9.38	8.78
621	2231	2029.4	1.92	2.20	2.85	88	35.9	2230	2027.0	9.10	9.23	617	576	28.7	41.5	272	25297	27.4	4.6	2978	1459	.12	1.87	1.87	2.33	9.38	8.78
622	2238	2029.7	2.67	2.15	2.73	88	35.1	2180	2027.5	9.10	9.19	617	579	27.9	41.5	273	25895	27.7	4.8	1855	1464	.12	1.76	1.76	2.33	9.39	8.78
623	2245	2030.0	2.58	2.27	2.88	87	36.7	2180	2028.2	9.10	9.19	617	582	28.8	41.9	264	26511	28.0	4.9	2125	1469	.12	1.80	1.80	2.33	9.31	8.78
624	2254	2030.3	2.03	2.16	2.95	91	37.4	2230	2028.7	8.99	9.18	618	575	28.9	41.6	260	27323	28.3	5.0	2357	1479	.13	1.90	1.90	2.33	9.26	8.78
625	2301	2030.6	2.88	2.16	3.00	91	37.1	2190	2029.0	9.14	9.17	618	565	29.2	41.4	257	27904	28.7	5.1	1752	1482	.13	1.82	1.81	2.33	9.19	8.78
626	2312	2030.9	4.79	2.19	3.17	95	33.9	2180	2029.3	8.96	9.14	618	569	29.1	41.5	251	28312	28.9	5.2	1169	1480	.13	1.64	1.64	2.33	9.15	8.78
627	2317	2031.2	3.62	2.48	3.64	81	34.6	2170	2029.4	8.86	9.11	611	573	28.4	41.2	245	28748	29.2	5.3	5223	1479	.13	1.69	1.69	2.33	9.15	8.78
628	2322	2031.5	3.23	2.30	3.12	96	34.3	2130	2029.6	8.88	9.08	610	573	28.7	41.2	241	29258	29.6	5.4	1459	1478	.14	1.76	1.76	2.33	9.14	8.78
629	2330	2031.8	2.43	2.07	3.09	96	34.4	1970	2029.9	9.10	9.11	610	568	27.8	41.2	237	30009	29.9	5.5	3316	1487	.14	1.85	1.85	2.33	9.12	8.78
630	2335	2032.1	3.77	2.27	3.56	95	33.3	2120	2030.1	9.10	9.12	610	565	28.4	41.0	242	30469	30.2	5.6	1342	1484	.14	1.71	1.71	2.33	9.11	8.78
631	2346	2032.4	1.46	2.24	3.45	95	33.4	2170	2030.5	9.10	9.09	609	573	29.1	41.3	256	31546	30.5	5.8	3371	1500	.15	1.98	1.98	2.33	9.10	8.78
632	2351	2032.7	3.42	2.06	3.46	96	32.6	2160	2030.7	9.10	9.10	609	549	28.8	40.9	254	32034	30.8	5.9	1497	1499	.15	1.73	1.73	2.33	9.10	8.78
633	2356	2033.0	3.99	2.19	2.96	95	34.6	2170	2030.9	9.10	9.13	609	562	28.7	40.7	246	32479	31.1	5.9	1602	1498	.15	1.72	1.71	2.33	9.10	8.78
	Date	Sep 26 '85																									
634	0000	2033.3	4.55	2.08	2.78	96	35.2	2170	2031.1	9.10	9.08	610	564	28.5	40.8	246	32352	31.4	6.0	1015	1492	.15	1.69	1.69	2.33	9.10	8.78
635	0004	2033.6	5.05	1.98	2.86	98	34.1	2180	2031.2	9.10	9.10	609	567	28.3	40.6	243	33208	31.7	6.1	974	1491	.16	1.65	1.65	2.33	9.10	8.78
636	0007	2033.9	4.78	2.26	2.85	96	33.4	2170	2031.3	9.10	9.09	611	563	28.6	40.7	240	33574	32.0	6.1	957	1484	.16	1.65	1.65	2.34	9.11	8.78
637	0012	2034.2	3.62	2.28	2.93	96	35.3	2170	2031.7	9.10	9.09	610	548	27.8	40.8	248	34056	32.3	6.2	1227	1483	.16	1.75	1.75	2.34	9.11	8.78
638	0017	2034.5	3.99	2.13	2.85	96	33.2	2160	2031.8	9.10	9.07	611	552	28.1	41.0	288	34494	32.6	6.3	1237	1481	.16	1.70	1.69	2.34	9.11	8.78
639	0020	2034.8	5.76	2.04	2.80	97	33.6	2220	2032.0	9.10	9.08	611	574	27.8	40.9	294	34793	32.9	6.3	831	1475	.16	1.60	1.59	2.34	9.12	8.78
640	0026	2035.2	3.23	2.22	2.81	96	33.4	2250	2032.3	9.10	9.13	611	573	28.6	40.6	284	35339	33.2	6.4	1703	1478	.17	1.75	1.75	2.34	9.13	8.78
641	0027	2035.5	4.93	2.43	2.82	96	34.3	2230	2032.3	9.10	9.10	611	586	28.2	40.6	282	35479	33.5	6.5	397	1467	.17	1.59	1.59	2.34	9.13	8.78
642	0030	2035.8	5.63	2.45	2.83	98	33.6	2250	2032.5	9.10	9.14	611	561	28.5	40.5	280	35789	33.8	6.5	643	1464	.17	1.60	1.60	2.34	9.14	8.78
643	0033	2036.1	6.48	2.46	2.77	98	33.4	2250	2032.7	9.10	9.09	612	572	27.7	40.5	276	36063	34.1	6.6	789	1455	.17	1.56	1.56	2.34	9.15	8.78
644	0037	2036.4	4.89	2.14	2.89	97	32.5	2230	2032.9	9.10	9.12	610	580	28.0	40.3	273	36459	34.4	6.6	1236	1451	.17	1.62	1.62	2.34	9.18	8.78
645	0040	2036.7	5.88	2.36	2.87	97	33.6	2240	2032.9	9.10	9.13	611	598	28.7	40.4	275	36756	34.7	6.7	909	1446	.17	1.58	1.58	2.34	9.18	8.78
646	0041	2037.0	5.34	2.39	2.76	97	32.9	2220	2033.0	9.10	9.15	612	584	28.9	40.5	272	36831	35.0	6.7	979	1436	.17	1.64	1.64	2.34	9.18	8.78
647	0048	2037.3	2.69	2.42	3.32	96	35.1	2220	2033.2	9.10	9.10	611	585	29.1	40.3	269	37470	35.4	6.8	974	1438	.18	1.82	1.82	2.34	9.18	8.78
648	0056	2037.6	5.12	2.20	3.10	95	35.6	2230	2033.5	9.10	9.19	618	577	29.0	40.4	242	37828	35.7	6.9	1007	1435	.18	1.64	1.64	2.34	9.18	8.78

AMOCO AUST. Tilana No.1 329160 Data Printed at time 19:42 Date Oct 9 '85 92
Data Recorded at time 01:03 Date Sep 26 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
649	0103	2037.9	3.20	2.28	2.86	96	34.6	2250	2033.9	9.10	9.21	617	607	29.2	40.5	238	38474	36.0	7.0	2092	1440	.18	1.76	1.76	2.34	9.18	8.70
650	0103	2038.2	3.27	2.01	2.50	95	32.4	2240	2034.0	9.10	9.21	617	599	28.8	40.5	231	38552	36.3	7.0	1547	1431	.18	1.77	1.76	2.34	9.18	8.70
651	0109	2038.5	3.19	2.25	2.88	96	34.4	2230	2034.5	9.10	9.24	617	597	29.3	41.1	228	39052	36.6	7.1	653	1428	.18	1.76	1.76	2.34	9.18	8.70
652	0111	2038.8	7.29	2.24	2.74	95	34.6	2240	2034.7	9.10	9.26	617	594	29.1	43.9	243	39305	36.9	7.1	712	1423	.19	1.53	1.53	2.34	9.18	8.70
653	0115	2039.1	4.68	2.18	2.93	95	35.1	2220	2034.9	9.10	9.23	616	591	28.7	40.6	251	39647	37.2	7.2	1211	1419	.19	1.66	1.66	2.34	9.18	8.70
654	0118	2039.4	7.16	2.31	2.92	94	33.5	2240	2035.1	9.10	9.23	616	572	28.8	40.5	248	39902	37.5	7.2	730	1414	.19	1.52	1.52	2.34	9.18	8.70
655	0122	2039.7	4.29	2.48	3.13	95	34.4	2240	2035.5	9.10	9.17	616	562	28.1	40.3	247	40305	37.8	7.3	1401	1412	.19	1.68	1.67	2.34	9.18	8.70
656	0125	2040.0	5.71	2.28	3.01	95	34.9	2160	2035.6	9.10	9.17	616	567	27.8	40.4	245	40590	38.1	7.3	896	1407	.19	1.60	1.60	2.34	9.18	8.70
657	0131	2040.3	6.41	2.16	2.95	97	29.6	2170	2036.0	9.10	9.20	600	535	28.7	40.4	256	40762	38.4	7.4	568	1402	.19	1.54	1.54	2.34	9.18	8.70
658	0132	2040.7	7.36	2.22	2.29	95	34.5	2160	2036.1	9.10	9.20	601	532	28.7	40.4	255	40772	38.7	7.4	988	1393	.19	1.53	1.53	2.34	9.18	8.70
659	0133	2041.0	12.4	2.29	3.16	97	32.8	2250	2036.2	9.10	9.16	616	563	30.0	39.9	249	40908	39.0	7.4	5940	1384	.19	1.37	1.36	2.34	9.18	8.70
660	0139	2041.6	4.87	2.40	2.97	97	34.8	2233	2036.8	9.10	9.21	617	564	30.4	39.6	239	41474	39.6	7.5	473	1372	.20	1.65	1.65	2.35	9.19	8.70
661	0140	2041.9	9.63	2.48	3.14	97	34.1	1940	2036.9	9.10	9.24	618	575	30.8	39.4	230	41540	39.9	7.5	618	1363	.20	1.47	1.47	2.35	9.19	8.70
662	0141	2042.2	14.1	2.74	2.94	96	33.4	2230	2036.9	9.10	9.24	616	555	30.8	39.4	230	41665	40.2	7.5	641	1361	.20	1.34	1.33	2.35	9.19	8.70
663	0143	2042.5	6.68	2.45	4.12	95	34.3	2240	2037.2	9.10	9.28	616	547	30.7	39.5	232	41914	40.5	7.6	489	1351	.20	1.55	1.55	2.35	9.19	8.70
664	0146	2042.8	8.58	2.44	3.11	96	35.4	2220	2037.7	9.10	9.33	616	567	30.5	39.6	231	42115	40.8	7.6	478	1345	.20	1.50	1.49	2.35	9.19	8.70
665	0149	2043.1	6.22	2.35	2.97	88	35.4	2260	2037.7	9.10	9.19	615	545	30.8	39.8	229	42378	41.1	7.7	919	1342	.20	1.56	1.56	2.35	9.19	8.70
666	0151	2043.4	7.14	2.32	2.98	83	35.5	2250	2037.9	9.10	9.20	614	547	30.8	40.0	227	42581	41.4	7.7	638	1336	.20	1.53	1.52	2.35	9.19	8.70
667	0154	2043.7	6.58	2.69	3.21	87	34.2	2250	2038.0	9.10	9.32	616	553	30.7	39.9	230	42846	41.7	7.7	6507	1333	.20	1.53	1.53	2.35	9.19	8.70
668	0159	2044.0	2.91	2.34	3.25	87	35.2	2220	2038.3	9.10	9.23	616	551	30.9	40.1	222	43281	42.1	7.8	1736	1333	.20	1.77	1.77	2.35	9.19	8.70
669	0230	2044.3	3.43	2.40	2.30	87	33.5	2240	2038.3	9.10	9.23	617	537	30.9	40.1	222	43343	42.3	7.8	2458	1325	.20	1.73	1.73	2.35	9.19	8.70
670	0237	2044.6	2.31	2.55	6.05	87	35.3	2270	2038.7	9.10	9.23	616	552	31.4	40.2	222	43955	42.6	8.0	2132	1329	.21	1.84	1.83	2.35	9.19	8.70
671	0210	2044.9	5.95	2.53	3.23	87	34.9	2220	2039.1	9.10	9.29	616	548	31.7	40.1	211	44222	43.0	8.0	940	1326	.21	1.57	1.56	2.35	9.19	8.70
672	0216	2045.2	2.83	2.42	3.19	89	35.8	2260	2039.7	9.10	9.23	616	552	31.5	40.1	254	44791	43.3	8.1	3606	1329	.21	1.80	1.79	2.35	9.19	8.70
673	0222	2045.5	3.01	2.72	3.27	89	35.2	2310	2040.2	9.10	9.31	615	561	28.3	40.2	324	45277	43.6	8.2	1453	1329	.21	1.77	1.76	2.35	9.19	8.70
674	0225	2045.8	5.61	2.03	2.74	90	35.5	2340	2040.4	9.10	9.22	614	559	26.5	40.0	355	45570	43.9	8.3	983	1326	.21	1.60	1.60	2.35	9.19	8.70
675	0226	2046.1	3.70	2.54	2.72	90	34.3	2350	2040.5	9.10	9.22	614	569	26.5	40.0	347	45716	44.2	8.3	1243	1320	.21	1.71	1.71	2.35	9.19	8.70
676	0235	2046.4	2.20	2.34	2.82	87	34.7	2390	2041.8	9.10	9.25	612	541	27.0	39.6	341	46441	44.5	8.4	4446	1328	.22	1.84	1.84	2.35	9.18	8.70
677	0240	2046.7	3.76	2.18	2.75	87	35.9	2380	2042.3	9.10	9.15	613	545	28.0	39.7	337	46866	44.8	8.5	1322	1327	.22	1.71	1.71	2.35	9.18	8.70
678	0242	2047.0	3.49	2.23	2.73	88	36.2	2340	2042.7	9.10	9.15	613	571	28.4	39.6	331	47040	45.1	8.5	1087	1322	.22	1.73	1.72	2.35	9.18	8.70
679	0247	2047.3	3.42	2.34	3.14	88	35.0	2340	2043.5	9.10	9.19	614	566	29.3	39.2	326	47508	45.4	8.6	1011	1322	.22	1.73	1.72	2.35	9.18	8.70
680	0252	2047.6	3.66	2.33	3.01	87	37.0	2310	2044.2	9.10	9.15	615	524	29.9	39.0	321	47941	45.7	8.7	1283	1323	.22	1.74	1.73	2.35	9.18	8.70
681	0258	2048.0	3.26	2.21	2.74	87	34.5	2290	2044.5	9.10	9.15	614	505	30.9	39.2	324	48465	46.0	8.8	2145	1325	.23	1.73	1.73	2.35	9.18	8.70
682	0303	2048.3	3.13	2.33	2.83	86	35.4	2280	2045.0	9.10	9.15	613	510	31.3	39.1	324	48835	46.3	8.9	1492	1325	.23	1.75	1.75	2.35	9.18	8.70
683	0308	2048.6	3.62	2.18	2.90	87	35.3	2280	2045.4	9.10	9.14	614	492	31.6	38.9	325	49350	46.6	9.0	1638	1327	.23	1.71	1.71	2.35	9.18	8.70
684	0317	2048.9	2.02	2.33	2.77	87	35.2	2280	2045.9	9.10	9.16	615	495	32.1	39.1	326	50134	46.9	9.1	$	1333	.23	1.88	1.87	2.36	9.18	8.70
685	0320	2049.2	5.31	2.26	2.86	87	34.1	2240	2046.2	9.10	9.19	614	497	32.4	39.0	319	50385	47.2	9.2	841	1330	.24	1.59	1.59	2.36	9.17	8.70
686	0329	2049.5	2.02	2.58	3.15	86	35.6	2270	2046.8	9.10	9.14	614	458	31.3	39.3	314	51206	47.5	9.3	1547	1338	.24	1.88	1.88	2.36	9.17	8.70
687	0333	2049.8	5.24	2.40	3.05	87	35.2	2240	2047.0	9.10	9.15	614	506	31.0	39.3	308	51508	47.8	9.4	828	1336	.24	1.61	1.61	2.36	9.17	8.70
688	0349	2050.1	5.53	2.33	3.17	87	33.6	2320	2047.7	9.10	9.25	617	496	33.4	38.3	315	51962	48.1	9.5	891	1337	.24	1.57	1.57	2.36	9.17	8.70
689	0353	2050.4	4.35	2.22	2.98	88	34.8	2290	2047.9	9.10	9.28	618	476	33.2	38.8	301	52328	48.4	9.6	1482	1336	.24	1.66	1.65	2.36	9.17	8.70
690	0359	2050.7	3.02	2.79	3.26	87	34.8	2300	2048.4	9.10	9.26	618	491	32.9	39.3	296	52830	48.8	9.7	1360	1337	.25	1.76	1.75	2.36	9.17	8.70
691	0403	2051.0	5.70	2.08	2.88	87	34.5	2310	2048.5	9.10	9.27	617	454	32.9	39.5	297	53149	49.1	9.7	1267	1337	.25	1.58	1.57	2.36	9.17	8.70
692	0409	2051.3	2.79	2.41	3.30	87	35.2	2330	2048.9	9.10	9.33	618	470	33.2	39.3	292	53659	49.4	9.8	2226	1337	.25	1.79	1.78	2.36	9.17	8.70
693	0411	2051.6	6.23	3.14	3.42	87	34.4	2330	2049.0	9.10	9.28	618	470	33.3	39.3	291	53912	49.7	9.9	940	1333	.25	1.55	1.54	2.36	9.17	8.70
694	0416	2051.9	4.49	2.94	3.62	87	34.7	2330	2049.3	9.10	9.32	618	489	33.4	39.3	288	54262	50.0	9.9	1135	1332	.25	1.64	1.64	2.36	9.17	8.70
695	0418	2052.2	6.86	2.47	3.14	87	32.4	2320	2049.5	9.10	9.30	617	488	33.5	39.4	291	54494	50.2	10.0	1310	1332	.25	1.50	1.49	2.36	9.17	8.70
696	0426	2052.8	3.73	2.13	3.34	83	32.9	2320	2049.8	9.10	9.33	616	477	33.7	39.3	280	55164	50.9	10.1	1785	1327	.26	1.66	1.65	2.36	9.18	8.70
697	0434	2053.1	1.96	2.10	3.07	85	34.0	2320	2050.1	9.10	9.33	617	474	33.8	39.5	277	55881	51.2	10.2	2143	1332	.26	1.86	1.86	2.36	9.18	8.70
698	0438	2053.4	5.51	2.67	3.17	84	32.4	2290	2050.2	9.10	9.31	617	467	34.1	39.5	272	56153	51.5	10.3	903	1328	.26	1.55	1.54	2.36	9.18	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
699	0444	2053.7	2.83	2.81	3.49	85	34.6	2300	2050.5	9.10	9.32	616	616	34.2	39.5	272	56705	51.8	10.4	1486	1331	.26	1.77	1.76	2.36	9.18	8.70
700	0447	2054.0	6.53	2.56	3.26	85	34.0	2300	2050.5	9.10	9.25	617	617	34.2	39.5	271	56938	52.1	10.5	762	1328	.27	1.52	1.52	2.36	9.18	8.70
701	0451	2054.4	4.71	2.37	3.28	87	33.5	1940	2050.8	9.10	9.25	597	585	34.3	39.5	265	57302	52.4	10.5	957	1327	.27	1.61	1.61	2.36	9.18	8.70
702	0456	2054.7	3.18	2.23	3.19	86	34.2	1940	2051.2	9.10	9.22	564	564	34.5	39.6	263	57744	52.7	10.6	1720	1328	.27	1.73	1.73	2.36	9.17	8.70
703	0500	2055.0	5.17	2.29	3.11	86	34.6	1940	2051.3	9.10	9.23	564	564	34.5	39.5	261	58047	53.0	10.7	1073	1326	.27	1.60	1.60	2.36	9.18	8.70
704	0505	2055.3	3.63	2.70	3.46	86	36.7	1940	2051.6	9.10	9.26	564	564	34.5	38.9	254	58477	53.3	10.8	1656	1326	.27	1.73	1.73	2.36	9.18	8.70
705	0510	2055.6	3.29	2.23	3.06	86	34.0	1920	2052.0	9.10	9.25	565	565	34.4	39.2	250	58952	53.6	10.8	1737	1327	.27	1.72	1.71	2.36	9.18	8.70
706	0514	2055.9	5.68	2.45	3.58	86	37.1	1920	2052.3	9.10	9.32	565	565	34.3	39.1	246	59228	53.9	10.9	1731	1326	.28	1.61	1.60	2.37	9.18	8.70
707	0520	2056.2	2.92	2.47	3.64	86	34.6	1900	2052.8	9.10	9.30	565	565	34.3	38.9	240	59810	54.3	11.0	1140	1328	.28	1.76	1.76	2.37	9.17	8.70
708	0524	2056.5	4.90	2.26	3.20	85	32.6	1890	2053.2	9.10	9.21	565	564	34.2	38.8	236	60096	54.5	11.1	933	1326	.28	1.59	1.58	2.37	9.17	8.70
709	0529	2056.8	3.26	2.52	3.52	84	34.1	1900	2053.4	9.10	9.19	564	564	34.1	38.8	233	60571	54.9	11.2	1163	1326	.28	1.72	1.71	2.37	9.17	8.70
710	0534	2057.1	3.34	2.98	3.28	85	34.9	1910	2053.6	9.10	9.21	566	566	34.1	38.8	232	60943	55.2	11.2	1322	1326	.28	1.72	1.72	2.37	9.17	8.70
711	0539	2057.4	3.38	2.79	3.46	84	36.0	2210	2053.8	9.10	9.15	605	610	33.9	38.8	227	61395	55.5	11.3	1446	1326	.29	1.74	1.73	2.37	9.18	8.70
712	0543	2057.7	5.14	2.26	2.85	84	34.9	2200	2054.0	9.10	9.22	613	613	34.0	38.8	223	61689	55.8	11.4	976	1325	.29	1.60	1.59	2.37	9.18	8.70
713	0549	2058.0	2.92	3.03	3.77	83	34.2	2260	2054.5	9.10	9.15	614	614	34.1	39.0	217	62244	56.1	11.5	1885	1327	.29	1.74	1.74	2.37	9.18	8.70
714	0559	2058.3	1.86	3.04	3.63	82	35.0	2270	2055.3	9.10	9.19	613	613	34.1	39.1	213	63057	56.4	11.7	4191	1336	.29	1.88	1.88	2.37	9.18	8.70
715	0604	2058.6	3.34	3.12	3.61	83	34.9	2230	2055.7	9.10	9.13	613	613	34.3	39.4	202	63477	56.7	11.7	1465	1335	.29	1.72	1.71	2.37	9.17	8.70
716	0610	2058.9	3.29	3.09	3.51	83	35.6	2190	2056.0	9.10	9.20	613	613	34.3	39.4	198	63936	57.0	11.8	1503	1336	.30	1.73	1.73	2.37	9.17	8.70
717	0623	2059.3	3.61	2.62	3.36	85	33.6	2270	2056.6	9.10	9.25	613	613	34.2	38.8	217	64583	57.3	12.0	2042	1341	.30	1.68	1.68	2.37	9.17	8.70
718	0628	2059.5	2.42	2.66	3.25	86	33.4	2310	2057.1	9.10	9.19	613	613	27.8	39.1	297	65055	57.6	12.1	4383	1341	.30	1.80	1.79	2.37	9.17	8.70
719	0632	2059.9	5.09	2.45	3.23	87	31.5	2360	2057.4	9.10	9.17	611	611	26.3	39.0	347	65382	57.9	12.1	1140	1340	.30	1.56	1.56	2.37	9.17	8.70
720	0636	2060.2	4.51	2.73	3.02	86	32.3	2380	2057.6	9.10	9.23	611	611	25.3	38.8	362	65728	58.2	12.2	1084	1338	.30	1.61	1.60	2.37	9.17	8.70
721	0641	2060.5	4.14	2.50	3.45	85	33.6	2380	2058.0	9.10	9.19	610	610	26.0	38.5	371	66105	58.5	12.3	1252	1338	.31	1.65	1.64	2.37	9.17	8.70
722	0647	2060.8	2.97	2.91	3.69	85	34.8	2370	2058.3	9.10	9.24	612	612	25.9	38.0	387	66624	58.8	12.4	2004	1340	.31	1.76	1.75	2.37	9.17	8.70
723	0650	2061.1	5.50	3.31	3.71	85	34.1	2370	2058.5	9.10	9.23	612	612	27.3	37.9	393	66904	59.1	12.4	939	1337	.31	1.57	1.57	2.37	9.17	8.70
724	0654	2061.4	2.93	3.23	3.84	85	35.0	2360	2058.7	9.10	9.25	611	611	27.7	37.4	392	67271	59.4	12.5	2274	1337	.31	1.76	1.76	2.37	9.17	8.70
725	0657	2061.7	6.30	3.36	3.73	85	35.2	2350	2058.8	9.10	9.25	613	613	28.2	37.3	386	67504	59.7	12.5	807	1334	.31	1.55	1.55	2.37	9.17	8.70
726	0704	2062.0	2.59	3.21	3.73	85	34.2	2333	2059.2	9.10	9.18	612	612	29.9	37.3	385	68122	60.0	12.7	$	1337	.31	1.78	1.78	2.37	9.17	8.70
727	0708	2062.3	4.48	3.18	3.82	85	35.3	2310	2059.3	9.10	9.19	612	612	30.3	37.3	379	68430	60.3	12.7	1960	1336	.32	1.65	1.64	2.37	9.17	8.70
728	0712	2062.6	3.83	3.01	3.64	85	34.9	2300	2059.5	9.10	9.19	612	612	30.9	37.0	377	68775	60.7	12.8	1377	1334	.32	1.69	1.68	2.37	9.18	8.70
729	0719	2062.9	2.59	3.22	3.73	85	36.3	2290	2059.8	9.10	9.16	613	613	31.7	37.5	377	69391	60.9	12.9	1866	1339	.32	1.82	1.81	2.37	9.18	8.70
730	0727	2063.2	2.49	3.27	3.58	85	34.5	2300	2060.1	9.10	9.12	613	613	32.4	37.4	373	70005	61.2	13.0	$	1342	.32	1.80	1.79	2.38	9.18	8.70
731	0733	2063.5	2.76	3.16	3.61	84	36.3	2300	2060.5	9.10	9.09	613	613	32.6	37.6	368	70536	61.6	13.1	1729	1343	.33	1.79	1.79	2.38	9.18	8.70
732	0736	2063.8	6.29	3.14	3.55	83	36.2	2290	2060.7	9.10	9.12	614	614	32.7	37.5	368	70779	61.9	13.2	797	1340	.33	1.56	1.55	2.38	9.18	8.70
733	0740	2064.1	4.57	3.11	3.51	85	34.6	2300	2061.0	9.10	9.15	613	613	33.0	37.5	369	71112	62.2	13.3	2052	1339	.33	1.63	1.62	2.38	9.18	8.70
734	0743	2064.4	6.39	3.11	3.44	84	36.6	2290	2061.2	9.10	9.14	612	612	33.1	37.6	367	71358	62.4	13.3	914	1338	.33	1.56	1.55	2.38	9.18	8.70
735	0743	2064.7	13.6	3.23	3.37	83	35.4	2240	2061.2	9.10	9.14	612	612	33.1	37.6	360	71385	62.8	13.3	421	1331	.33	1.35	1.33	2.38	9.18	8.70
736	0747	2065.0	4.68	2.90	3.41	82	34.6	2290	2061.3	9.10	9.12	610	610	33.1	37.8	362	71712	63.1	13.4	547	1330	.33	1.62	1.61	2.38	9.18	8.70
737	0749	2065.3	11.9	3.19	3.74	83	35.0	2280	2061.5	9.10	9.16	609	609	33.2	38.0	364	71828	63.4	13.4	384	1326	.33	1.36	1.36	2.38	9.18	8.70
738	0750	2065.6	13.3	2.97	3.97	84	36.1	2280	2061.7	9.10	9.16	610	610	33.2	38.0	363	71941	63.7	13.4	368	1321	.33	1.35	1.34	2.38	9.18	8.70
+ Negative flow check at 6778ft (2066m).																											
740	0757	2066.2	9.12	2.93	5.17	83	33.6	2310	2062.0	9.10	9.12	613	613	33.2	38.0	365	72150	64.3	13.5	456	1312	.33	1.42	1.41	2.38	9.18	8.70
741	0758	2066.5	14.7	2.78	3.63	85	33.9	2280	2062.0	9.10	9.09	613	613	33.2	37.7	360	72245	64.6	13.5	320	1307	.33	1.30	1.29	2.38	9.18	8.70
742	0800	2066.8	13.3	3.42	3.82	84	35.1	2320	2062.1	9.10	9.09	613	613	33.2	37.7	358	72360	64.9	13.5	-452	1303	.33	1.33	1.33	2.38	9.18	8.70
743	0802	2067.2	7.84	3.49	4.15	85	35.0	2330	2062.3	9.10	9.09	613	613	33.1	37.7	356	72556	65.2	13.5	709	1299	.33	1.49	1.48	2.38	9.19	8.70
744	0804	2067.5	11.9	3.41	3.93	86	33.3	2330	2062.5	9.10	9.08	614	614	32.9	38.0	353	72700	65.5	13.6	599	1296	.33	1.35	1.34	2.38	9.19	8.70
745	0805	2067.8	15.7	3.44	3.70	86	34.1	2330	2062.6	9.10	9.08	614	614	32.9	38.0	347	72790	65.8	13.6	332	1291	.34	1.28	1.28	2.38	9.19	8.70
746	0808	2068.1	5.86	3.42	4.01	86	34.5	2320	2062.8	9.10	9.06	614	614	32.8	38.1	346	73052	66.1	13.6	519	1288	.34	1.56	1.56	2.38	9.19	8.70
747	0810	2068.4	8.13	3.31	3.81	86	35.8	2330	2062.9	9.10	9.08	614	614	32.8	38.0	345	73246	66.4	13.7	622	1286	.34	1.49	1.48	2.38	9.19	8.70
748	0817	2068.8	20.5	2.64	3.64	86	36.9	2350	2063.2	9.10	9.11	615	615	32.9	38.1	358	73387	66.7	13.7	196	1281	.34	1.24	1.23	2.38	9.19	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	MX	MXB	ECD	EST FM PR
749	0817	2069.0	25.0	2.37	2.63	86	36.6	2360	2063.2	9.10	9.11	615	615	32.9	38.1	355	73398	67.0	13.7	248	1273	.34	1.19	1.17	2.38	9.19	8.70
750	0820	2069.3	5.43	2.96	4.01	86	37.7	2360	2063.3	9.10	9.12	618	618	32.8	37.6	338	73658	67.4	13.8	539	1274	.34	1.62	1.62	2.38	9.19	8.70
751	0823	2069.6	5.09	3.20	3.60	86	37.2	2360	2063.4	9.10	9.12	618	618	32.6	38.0	335	73911	67.7	13.8	838	1272	.34	1.64	1.63	2.38	9.19	8.70
752	0826	2069.9	5.39	2.98	3.67	86	36.7	2350	2063.8	9.10	9.08	618	618	32.5	38.0	330	74198	68.0	13.9	841	1271	.34	1.61	1.61	2.38	9.19	8.70
753	0830	2070.2	4.91	2.73	3.88	84	36.4	2360	2063.8	9.10	9.12	619	619	32.5	38.2	326	74537	68.3	13.9	1010	1270	.34	1.63	1.62	2.38	9.19	8.70
754	0833	2070.5	5.30	3.29	3.81	85	37.0	2380	2063.9	9.10	9.11	621	621	32.5	38.3	327	74804	68.6	14.0	935	1268	.34	1.62	1.61	2.39	9.20	8.70
755	0836	2070.8	7.29	3.14	3.70	85	38.1	2350	2064.0	9.10	9.13	621	621	32.6	38.2	323	75015	68.9	14.0	698	1265	.34	1.54	1.53	2.39	9.20	8.70
756	0839	2071.1	7.19	3.37	3.71	84	38.5	2350	2064.1	9.10	9.11	619	619	32.6	38.3	319	75240	69.2	14.1	641	1263	.35	1.55	1.54	2.39	9.20	8.70
757	0846	2071.4	2.44	3.18	3.84	84	37.0	2360	2064.8	9.10	9.14	619	619	32.6	38.3	317	75368	69.5	14.2	872	1267	.35	1.84	1.83	2.39	9.19	8.70
758	0849	2071.7	5.84	3.38	3.80	83	38.3	2360	2065.3	9.10	9.14	620	620	32.7	38.5	314	76115	69.8	14.2	642	1264	.35	1.60	1.60	2.39	9.19	8.70
759	0855	2072.0	3.03	3.16	3.40	85	38.2	2370	2066.3	9.10	9.20	622	622	32.9	38.4	309	76651	70.1	14.4	1639	1267	.35	1.80	1.79	2.39	9.19	8.70
760	0904	2072.4	2.03	3.15	3.47	85	38.3	2350	2067.7	9.10	9.29	620	620	33.1	38.4	309	77407	70.4	14.5	2327	1272	.36	1.92	1.91	2.39	9.18	8.70
761	0908	2072.7	5.30	3.08	3.64	85	36.9	2350	2068.3	9.10	9.29	621	621	32.8	38.5	309	77698	70.7	14.6	1047	1270	.36	1.62	1.61	2.39	9.18	8.70
762	0912	2073.0	4.14	2.92	3.40	85	35.0	2340	2068.8	9.10	9.23	621	621	32.4	38.6	311	78075	71.0	14.6	1311	1271	.36	1.67	1.66	2.39	9.18	8.70
763	0915	2073.3	4.23	3.02	3.33	85	36.2	2330	2069.1	9.10	9.19	621	621	32.2	38.7	314	78367	71.3	14.7	1358	1271	.36	1.68	1.67	2.39	9.18	8.70
764	0926	2073.6	1.60	2.76	3.40	86	38.6	2360	2070.4	9.10	9.16	621	621	32.2	38.5	312	79238	71.6	14.9	1659	1275	.36	1.99	1.98	2.39	9.18	8.70
765	0933	2073.9	2.65	2.41	2.99	86	38.9	2370	2071.0	9.10	9.15	621	621	32.4	38.4	316	79828	71.9	15.0	1775	1278	.37	1.85	1.84	2.39	9.17	8.70
766	0937	2074.2	4.23	2.16	2.70	86	37.7	2350	2071.5	9.10	9.09	621	621	32.6	38.3	316	80198	72.2	15.1	1639	1278	.37	1.70	1.69	2.39	9.17	8.70
767	0943	2074.5	3.19	1.92	2.73	86	37.5	2370	2071.8	9.10	9.10	621	621	32.7	38.2	320	80687	72.5	15.1	1768	1279	.37	1.78	1.77	2.39	9.17	8.70
768	0948	2074.8	2.88	2.91	3.29	84	37.9	2380	2072.3	9.10	9.11	621	621	32.8	38.3	323	81156	72.8	15.2	1611	1279	.37	1.81	1.80	2.39	9.17	8.70
769	0956	2075.1	2.45	3.07	3.34	85	39.2	2380	2072.6	9.10	9.10	623	623	32.8	38.3	326	81787	73.2	15.4	2152	1283	.37	1.88	1.87	2.39	9.17	8.70
770	1001	2075.4	3.65	3.00	3.27	84	38.8	2390	2072.8	9.10	9.08	624	624	32.6	38.4	325	82221	73.4	15.4	1469	1283	.38	1.75	1.75	2.39	9.17	8.70
771	1007	2075.7	2.95	3.03	3.28	85	39.4	2390	2073.2	9.10	9.10	625	625	32.5	38.6	326	82735	73.8	15.5	1834	1285	.38	1.82	1.82	2.39	9.17	8.70
772	1012	2076.0	3.16	3.04	3.34	85	39.7	2400	2073.5	9.10	9.11	624	624	32.8	38.5	328	83223	74.1	15.6	1414	1286	.38	1.81	1.80	2.39	9.17	8.70
773	1017	2076.3	4.10	3.06	3.31	85	39.9	2390	2073.9	9.10	9.11	623	623	32.9	38.5	328	83604	74.3	15.7	1525	1287	.38	1.74	1.73	2.39	9.17	8.70
774	1023	2076.6	3.11	2.96	3.25	84	39.4	2380	2073.1	9.10	9.12	623	623	33.0	38.6	330	84094	74.7	15.8	1596	1287	.38	1.81	1.80	2.39	9.18	8.70
775	1027	2076.9	4.41	3.03	3.42	85	40.1	2380	2073.4	9.10	9.11	623	623	33.0	38.8	329	84445	75.0	15.9	1077	1286	.39	1.72	1.71	2.39	9.18	8.70
776	1030	2077.2	5.89	2.97	3.32	84	39.9	2360	2073.7	9.10	9.12	623	623	33.0	38.7	327	84707	75.3	15.9	779	1285	.39	1.63	1.62	2.39	9.18	8.70
777	1036	2077.5	3.05	2.94	3.30	84	40.2	2380	2074.1	9.10	9.12	623	623	33.1	38.7	334	85214	75.6	16.0	1702	1286	.39	1.82	1.81	2.39	9.18	8.70
778	1040	2077.8	4.97	2.89	3.22	85	39.7	2370	2074.5	9.10	9.12	624	624	33.1	38.7	332	85524	75.9	16.1	1357	1286	.39	1.68	1.67	2.39	9.18	8.70
779	1048	2078.1	4.65	2.69	3.28	86	37.9	2350	2074.9	9.10	9.10	588	588	33.0	39.0	348	85868	76.2	16.2	1115	1284	.39	1.68	1.67	2.40	9.17	8.70
780	1050	2078.4	8.00	2.16	2.74	87	35.3	2360	2075.1	9.10	9.14	619	619	33.2	38.5	341	86055	76.5	16.2	590	1282	.39	1.49	1.48	2.40	9.18	8.70
781	1053	2078.8	6.80	2.19	2.85	86	34.7	2350	2075.3	9.10	9.13	619	619	33.0	38.4	337	86295	76.8	16.3	779	1280	.39	1.53	1.52	2.40	9.18	8.70
782	1056	2079.1	6.84	2.11	2.79	85	35.0	2350	2075.4	9.10	9.13	618	618	33.0	38.7	332	86520	77.1	16.3	943	1279	.40	1.53	1.52	2.40	9.18	8.70
783	1101	2079.4	2.85	2.36	3.05	84	36.2	2350	2075.9	9.10	9.11	618	618	32.9	38.6	334	87009	77.4	16.4	2350	1279	.40	1.78	1.77	2.40	9.18	8.70
784	1106	2079.7	3.65	2.24	2.94	86	36.2	2350	2076.2	9.10	9.13	617	617	33.0	38.7	338	87435	77.7	16.5	1498	1279	.40	1.72	1.71	2.40	9.18	8.70
785	1111	2080.0	4.04	2.13	2.87	84	34.9	2350	2076.5	9.10	9.11	618	618	32.0	38.9	343	87815	78.0	16.5	1435	1279	.40	1.67	1.66	2.40	9.18	8.70
786	1114	2080.3	5.73	2.12	2.64	84	35.7	2350	2076.7	9.10	9.11	618	618	31.7	39.0	348	88047	78.3	16.6	814	1277	.40	1.58	1.57	2.40	9.18	8.70
787	1117	2080.6	4.81	2.24	3.18	84	35.4	2360	2077.1	9.10	9.09	618	618	31.5	39.1	353	88377	78.6	16.7	1091	1277	.40	1.63	1.62	2.40	9.18	8.70
788	1121	2080.9	5.41	2.31	3.09	86	36.6	2350	2077.4	9.10	9.10	618	618	31.4	38.7	360	88659	78.9	16.7	897	1274	.40	1.62	1.61	2.40	9.18	8.70
789	1124	2081.2	4.91	2.16	2.91	83	35.3	2370	2076.4	9.10	9.10	617	617	31.3	38.6	368	88976	79.2	16.8	1063	1274	.41	1.61	1.60	2.40	9.18	8.70
790	1128	2081.5	5.35	2.19	2.85	83	36.8	2360	2076.6	9.10	9.11	617	617	31.3	38.6	372	89232	79.5	16.8	877	1272	.41	1.61	1.60	2.40	9.19	8.70
791	1130	2081.8	9.23	2.20	2.83	84	36.3	2370	2076.8	9.10	9.10	617	617	31.3	38.5	374	89398	79.8	16.9	544	1270	.41	1.45	1.44	2.40	9.19	8.70
792	1131	2082.1	10.6	2.23	3.01	84	35.0	2370	2076.9	9.10	9.10	616	616	31.3	38.5	378	89527	80.2	16.9	-480	1266	.41	1.40	1.39	2.40	9.19	8.70
793	1134	2082.4	5.37	2.09	2.95	85	35.4	2380	2077.4	9.10	9.09	617	617	31.3	38.6	391	89814	80.4	16.9	782	1266	.41	1.59	1.58	2.40	9.19	8.70
794	1138	2082.7	4.16	2.11	2.79	85	35.8	2380	2077.6	9.10	9.10	616	616	31.6	38.6	390	90148	80.7	17.0	1188	1265	.41	1.68	1.67	2.40	9.19	8.70
795	1144	2083.0	3.09	2.22	2.82	85	35.1	2380	2078.1	9.10	9.10	616	616	32.4	38.4	390	90597	81.0	17.1	1745	1265	.41	1.75	1.74	2.40	9.19	8.70
796	1147	2083.3	4.97	2.13	2.85	86	33.3	2380	2078.4	9.10	9.11	616	616	32.7	38.3	387	90877	81.4	17.2	996	1264	.41	1.59	1.58	2.40	9.19	8.70
797	1151	2083.6	4.58	2.17	2.62	84	34.8	2370	2078.8	9.10	9.10	615	615	33.0	38.3	385	91180	81.6	17.2	1078	1263	.42	1.63	1.62	2.40	9.18	8.70
798	1154	2083.9	6.16	2.00	2.84	84	33.9	2360	2079.2	9.10	9.09	616	616	33.2	38.5	381	91429	82.0	17.3	893	1261	.42	1.53	1.52	2.40	9.18	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM Pr
799	1158	2084.2	3.94	2.16	2.81	83	35.1	2350	2079.9	9.10	9.08	616	616	33.5	38.5	380	91816	82.3	17.3	1175	1261	.42	1.67	1.67	2.40	9.18	8.7
800	1203	2084.5	3.84	2.26	3.07	85	35.3	2360	2080.3	9.10	9.09	616	616	33.5	38.4	356	92214	82.6	17.4	1421	1261	.42	1.69	1.68	2.40	9.18	8.7
801	1206	2084.9	6.82	2.25	2.93	84	34.7	2350	2080.6	9.10	9.10	615	615	33.6	38.5	352	92459	82.9	17.5	834	1260	.42	1.52	1.51	2.40	9.18	8.7
802	1209	2085.1	4.99	2.21	2.71	83	34.2	2350	2080.9	9.10	9.12	616	616	33.7	38.7	351	92738	83.2	17.5	967	1258	.42	1.60	1.59	2.40	9.18	8.7
803	1212	2085.5	6.76	2.12	2.88	84	32.5	2350	2081.1	9.10	9.11	616	616	33.7	38.6	348	92981	83.5	17.6	794	1256	.42	1.49	1.48	2.41	9.18	8.7
804	1214	2085.7	7.16	2.27	2.66	84	33.3	2340	2081.4	9.10	9.13	617	617	33.8	38.7	344	93179	83.8	17.6	721	1254	.42	1.48	1.48	2.41	9.18	8.7
805	1219	2086.1	4.07	2.22	2.85	84	34.1	2350	2082.0	9.10	9.15	617	617	33.9	38.9	347	93581	84.1	17.7	1100	1254	.43	1.65	1.64	2.41	9.18	8.7
806	1223	2086.4	4.71	2.58	3.30	82	34.0	2340	2082.4	9.10	9.16	617	617	34.1	39.0	345	93930	84.4	17.8	1128	1253	.43	1.60	1.60	2.41	9.18	8.7
807	1226	2086.7	5.16	2.89	3.26	81	34.3	2340	2082.7	9.10	9.17	618	618	34.2	39.1	344	94170	84.7	17.8	925	1252	.43	1.58	1.57	2.41	9.18	8.7
808	1231	2087.0	4.05	3.00	3.54	82	33.4	2360	2083.3	9.10	9.20	619	619	34.3	39.1	350	94562	85.0	17.9	1924	1252	.43	1.64	1.63	2.41	9.18	8.7
809	1233	2087.3	8.82	3.15	3.47	82	32.0	2350	2083.5	9.10	9.23	620	620	34.4	39.3	357	94722	85.3	17.9	630	1250	.43	1.41	1.40	2.41	9.18	8.7
810	1241	2087.6	7.28	2.71	3.24	81	32.7	2320	2084.0	9.10	9.18	606	606	34.3	39.4	374	94976	85.6	18.0	672	1249	.43	1.46	1.45	2.41	9.18	8.7
811	1243	2087.9	9.86	2.33	3.10	80	33.6	2340	2084.1	9.10	9.18	615	615	34.3	39.4	366	95109	85.9	18.0	482	1246	.43	1.39	1.38	2.41	9.18	8.7
812	1245	2088.2	7.38	3.26	3.59	79	33.3	2340	2084.4	9.10	9.22	616	616	34.5	38.9	358	95304	86.2	18.0	640	1244	.43	1.46	1.45	2.41	9.18	8.7
813	1248	2088.5	5.04	3.19	3.52	79	34.1	2340	2084.6	9.10	9.22	615	615	34.4	39.0	354	95561	86.5	18.1	1272	1242	.43	1.58	1.57	2.41	9.18	8.7
814	1251	2088.8	6.24	3.11	3.48	79	33.2	2310	2084.7	9.10	9.20	615	615	34.5	39.2	350	95760	86.9	18.1	703	1240	.44	1.51	1.50	2.41	9.18	8.7
815	1256	2089.1	3.53	3.01	3.35	79	34.7	2340	2085.2	9.10	9.19	614	614	34.6	39.3	349	96168	87.2	18.2	1216	1241	.44	1.68	1.68	2.41	9.18	8.7
816	1302	2089.4	3.12	3.01	3.41	79	33.7	2340	2085.7	9.10	9.16	615	615	34.8	39.5	346	96644	87.5	18.3	1518	1242	.44	1.71	1.70	2.41	9.18	8.7
817	1305	2089.7	4.71	3.00	3.30	79	34.5	2350	2085.9	9.10	9.18	614	614	34.7	39.6	344	96920	87.8	18.4	1222	1241	.44	1.60	1.59	2.41	9.18	8.7
818	1309	2090.0	5.32	2.85	3.30	79	33.7	2340	2086.1	9.10	9.16	615	615	34.8	39.6	340	97190	88.0	18.4	1302	1241	.44	1.56	1.55	2.41	9.18	8.7
819	1314	2090.3	2.98	2.97	3.42	79	34.2	2350	2086.7	9.10	9.17	615	615	35.0	39.4	343	97625	88.4	18.5	1409	1241	.44	1.73	1.72	2.41	9.18	8.7
820	1318	2090.6	4.66	3.04	3.31	79	33.8	2350	2087.2	9.10	9.17	614	614	35.1	39.3	340	97933	88.7	18.6	1084	1241	.44	1.60	1.59	2.41	9.18	8.7
821	1328	2090.9	3.09	3.08	3.47	79	33.9	2410	2087.7	9.10	9.15	622	622	35.3	39.2	350	98368	89.0	18.7	1906	1242	.45	1.71	1.70	2.41	9.18	8.7
822	1332	2091.2	4.50	2.98	3.45	81	34.8	2410	2087.9	9.11	9.18	622	622	35.4	38.2	342	98694	89.3	18.7	1143	1241	.45	1.62	1.61	2.41	9.18	8.7
823	1340	2091.5	6.09	2.63	3.35	82	32.7	2410	2088.4	9.11	9.23	621	621	35.4	38.8	337	98948	89.6	18.8	937	1240	.45	1.52	1.51	2.41	9.18	8.7
824	1342	2091.9	8.16	3.04	3.34	80	33.4	2400	2088.6	9.11	9.23	621	621	35.3	38.9	336	99145	89.9	18.8	1037	1239	.45	1.44	1.43	2.41	9.18	8.7
825	1344	2092.1	6.87	2.98	3.36	81	33.5	2400	2088.8	9.09	9.21	622	622	35.2	39.4	331	99335	90.2	18.9	1252	1236	.45	1.49	1.48	2.41	9.18	8.7
826	1346	2092.5	9.88	3.30	3.62	79	33.1	2400	2088.9	9.09	9.21	622	622	35.2	39.4	332	99481	90.5	18.9	476	1233	.45	1.38	1.37	2.41	9.18	8.7
827	1350	2092.8	4.54	3.15	3.43	81	34.3	2400	2089.4	9.04	9.22	621	621	35.2	39.3	325	99798	90.8	19.0	714	1233	.45	1.62	1.61	2.42	9.18	8.7
828	1355	2093.1	3.58	2.88	3.16	79	35.9	2400	2090.0	9.13	9.17	622	622	35.3	39.5	326	100209	91.1	19.1	1020	1234	.45	1.70	1.69	2.42	9.17	8.7
829	1407	2093.4	1.62	2.71	3.05	80	34.1	2390	2090.8	9.11	9.14	620	620	35.6	39.5	322	101113	91.4	19.2	1605	1239	.46	1.90	1.89	2.42	9.17	8.7
830	1413	2093.7	3.31	2.87	3.32	81	34.7	1800	2089.3	9.15	9.11	574	574	35.7	39.8	319	101642	91.7	19.4	1726	1241	.46	1.71	1.70	2.42	9.20	8.7
831	1418	2094.0	2.89	3.19	3.40	81	33.5	1750	2089.5	9.14	9.08	523	523	35.8	40.0	321	102008	92.0	19.4	1851	1241	.46	1.73	1.72	2.42	9.20	8.7
832	1426	2094.3	2.30	2.93	3.25	82	33.0	1750	2090.0	9.10	9.09	525	525	35.9	39.2	314	102715	92.4	19.6	2149	1245	.46	1.79	1.78	2.42	9.20	8.7
833	1431	2094.6	3.38	2.93	3.27	82	34.1	1760	2090.3	9.12	9.09	524	524	36.0	39.3	310	103077	92.7	19.6	1223	1245	.47	1.69	1.68	2.42	9.20	8.7
834	1440	2094.9	2.13	2.83	3.35	82	33.6	1760	2090.8	9.12	9.10	524	524	36.0	39.1	307	103831	93.0	19.8	1593	1249	.47	1.82	1.81	2.42	9.20	8.7
835	1444	2095.2	4.43	2.85	3.25	80	33.7	2350	2091.0	9.10	9.07	615	615	36.0	39.4	301	104130	93.3	19.9	1162	1248	.47	1.61	1.60	2.42	9.20	8.7
836	1450	2095.5	2.43	2.83	3.33	79	33.6	2330	2091.5	9.09	9.09	616	616	35.8	39.8	294	104681	93.6	20.0	1565	1250	.47	1.77	1.76	2.42	9.20	8.7
837	1457	2095.8	2.86	2.80	3.18	80	34.4	2350	2092.0	9.08	9.08	615	615	35.9	39.7	290	105220	93.9	20.1	1874	1252	.48	1.74	1.73	2.42	9.20	8.7
838	1500	2096.1	7.58	2.83	3.08	79	34.5	2330	2092.1	9.10	9.09	615	615	36.0	39.8	291	105410	94.1	20.1	1243	1251	.48	1.47	1.46	2.42	9.19	8.7
839	1507	2096.4	2.37	2.91	3.26	79	34.6	2350	2092.6	9.12	9.06	615	615	36.0	40.0	288	105977	94.5	20.2	1161	1252	.48	1.80	1.78	2.42	9.19	8.7
840	1515	2096.7	6.71	2.48	3.35	78	28.5	2350	2092.9	9.11	9.07	607	607	36.2	39.7	298	106141	94.7	20.3	687	1251	.48	1.52	1.51	2.42	9.18	8.7
841	1516	2097.0	3.69	2.15	2.27	80	28.6	2350	2093.0	9.11	9.07	609	609	36.2	39.7	296	106157	95.1	20.3	1591	1248	.48	1.65	1.64	2.42	9.18	8.7
842	1521	2097.4	3.13	2.87	3.30	80	33.5	2340	2093.3	9.07	9.10	611	611	36.1	39.9	285	106636	95.4	20.4	9123	1249	.48	1.70	1.69	2.42	9.18	8.7
843	1526	2097.6	3.21	3.05	3.42	79	34.4	2330	2093.6	9.10	9.11	611	611	36.2	40.0	288	107040	95.7	20.5	1383	1248	.48	1.71	1.70	2.42	9.18	8.7
844	1531	2098.0	4.24	3.10	3.36	78	32.9	2330	2093.8	9.13	9.11	612	612	36.0	39.8	299	107413	96.0	20.5	1502	1249	.48	1.61	1.60	2.42	9.18	8.7
845	1534	2098.3	5.83	3.18	3.38	79	33.1	2310	2094.0	9.15	9.12	612	612	35.1	40.0	308	107683	96.3	20.6	1855	1250	.49	1.52	1.51	2.42	9.18	8.7
846	1543	2098.5	1.57	3.08	3.36	79	35.1	2360	2094.4	9.15	9.12	612	612	33.7	40.0	334	108331	96.6	20.7	1421	1250	.49	1.92	1.91	2.42	9.18	8.7
847	1546	2098.9	4.95	2.99	3.31	79	35.1	2360	2094.7	9.13	9.14	612	612	32.9	39.9	347	108624	96.9	20.8	1012	1250	.49	1.60	1.59	2.42	9.18	8.7
848	1551	2099.2	5.05	2.95	3.21	79	34.2	2350	2094.9	9.12	9.13	612	612	32.3	39.8	356	108962	97.2	20.9	1380	1249	.49	1.58	1.57	2.42	9.19	8.7

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Data Recorded at time 15:56 Date Sep 26 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
849	1556	2099.5	2.63	3.02	3.34	79	34.6	2350	2095.2	9.13	9.13	611	611	31.9	39.5	374	109400	97.5	21.0	2260	1250	.49	1.76	1.75	2.42	9.19	8.70
850	1559	2099.8	5.21	3.07	3.44	79	35.4	2360	2095.4	9.10	9.13	611	611	31.7	39.5	380	109626	97.8	21.0	1027	1249	.49	1.58	1.57	2.42	9.19	8.70
851	1603	2100.1	5.15	3.09	3.46	79	34.7	2360	2095.5	9.08	9.13	612	612	31.4	39.8	392	109927	98.1	21.1	1153	1249	.50	1.58	1.57	2.43	9.19	8.70
852	1605	2100.4	7.78	3.11	3.41	79	33.8	2370	2095.7	9.08	9.14	611	611	31.2	39.6	403	110110	98.4	21.1	1047	1247	.50	1.45	1.44	2.43	9.19	8.70
853	1610	2100.7	3.66	3.14	3.43	79	34.3	2360	2095.9	9.14	9.13	611	611	31.2	39.4	418	110464	98.7	21.2	1151	1246	.50	1.67	1.66	2.43	9.20	8.70
854	1613	2101.0	5.07	3.11	3.42	79	34.5	2350	2096.1	9.07	9.13	611	611	31.0	39.2	423	110718	99.1	21.2	940	1245	.50	1.58	1.57	2.43	9.20	8.70
855	1616	2101.3	5.99	2.94	3.28	79	35.0	2330	2096.2	9.05	9.15	610	610	30.9	39.2	424	110941	99.4	21.3	846	1242	.50	1.54	1.53	2.43	9.20	8.70
856	1621	2101.6	3.43	3.14	3.41	79	34.6	2350	2096.8	9.12	9.15	611	611	30.9	39.0	419	111359	99.7	21.4	923	1243	.50	1.69	1.68	2.43	9.20	8.70
857	1626	2101.9	3.85	3.07	3.43	79	34.7	2350	2097.1	9.08	9.13	610	610	30.9	39.3	419	111756	100	21.4	1344	1243	.50	1.66	1.65	2.43	9.20	8.70
858	1630	2102.2	3.96	2.94	3.25	79	34.4	2350	2097.4	9.11	9.13	610	610	31.5	39.0	418	112062	100	21.5	1227	1243	.50	1.65	1.64	2.43	9.19	8.70
859	1635	2102.5	3.34	2.92	3.23	79	35.0	2360	2097.7	9.08	9.16	610	610	32.0	38.8	413	112492	101	21.6	1359	1244	.51	1.70	1.69	2.43	9.19	8.70
860	1641	2102.8	3.18	2.93	3.25	79	34.8	2360	2098.0	9.00	9.14	610	610	32.1	38.7	411	112967	101	21.7	1781	1245	.51	1.71	1.70	2.43	9.19	8.70
861	1645	2103.1	4.40	2.97	3.30	79	36.8	2340	2098.2	9.06	9.14	611	611	32.9	38.8	411	113262	101	21.8	1121	1244	.51	1.65	1.64	2.43	9.19	8.70
862	1651	2103.4	3.00	3.03	3.34	79	36.1	2350	2098.6	9.08	9.13	611	611	33.3	39.1	406	113741	101	21.9	2326	1246	.51	1.75	1.74	2.43	9.18	8.70
863	1654	2103.7	6.12	2.96	3.15	79	36.4	2340	2098.9	9.03	9.12	611	611	33.4	39.2	402	113953	102	21.9	967	1245	.51	1.55	1.54	2.43	9.18	8.70
864	1700	2104.0	2.99	2.95	3.38	79	35.9	2350	2099.2	9.04	9.12	611	611	33.7	39.2	402	114431	102	22.0	1294	1246	.51	1.75	1.74	2.43	9.17	8.70
865	1704	2104.4	3.99	3.08	3.42	79	35.9	2360	2099.7	9.02	9.10	611	611	33.9	39.4	401	114756	102	22.1	1178	1246	.51	1.67	1.66	2.43	9.17	8.70
866	1710	2104.7	3.20	3.10	3.45	79	34.9	2350	2100.1	9.00	9.10	612	612	34.2	39.6	397	115204	103	22.2	1564	1246	.52	1.72	1.71	2.43	9.16	8.70
867	1712	2104.9	5.95	3.14	3.34	79	36.6	2350	2100.4	9.02	9.11	611	611	34.3	39.8	392	115414	103	22.2	789	1244	.52	1.57	1.56	2.43	9.16	8.70
868	1717	2105.3	4.16	3.11	3.43	78	36.6	2350	2100.8	9.05	9.08	611	611	34.5	39.9	390	115768	103	22.3	1190	1245	.52	1.67	1.66	2.43	9.15	8.70
869	1723	2105.6	3.04	3.02	3.39	79	36.5	2360	2101.2	9.06	9.10	612	612	34.7	39.8	388	116239	104	22.4	1461	1245	.52	1.76	1.75	2.43	9.14	8.70
870	1728	2105.9	3.82	2.98	3.35	79	37.3	2360	2101.5	9.01	9.09	612	612	34.9	39.8	388	116615	104	22.5	1319	1246	.52	1.71	1.69	2.43	9.14	8.70
871	1732	2106.2	3.74	3.05	3.38	79	37.0	2350	2101.8	9.01	9.08	612	612	35.1	40.0	383	116960	104	22.5	1548	1245	.52	1.71	1.70	2.43	9.14	8.70
872	1745	2106.5	4.72	2.90	3.43	80	36.5	2430	2102.2	9.06	9.06	620	620	35.6	38.6	391	117166	105	22.6	1046	1244	.52	1.64	1.83	2.43	9.14	8.70
873	1748	2106.8	5.43	2.35	2.73	83	34.9	2420	2102.4	9.06	9.08	620	620	35.4	38.6	380	117436	105	22.6	2355	1244	.53	1.59	1.57	2.43	9.14	8.70
874	1753	2107.1	3.23	2.26	2.90	86	35.0	2420	2102.8	9.02	9.08	620	620	35.2	39.6	370	117918	105	22.7	1231	1244	.53	1.75	1.73	2.43	9.13	8.70
875	1757	2107.4	4.81	2.09	2.91	87	35.1	2420	2103.0	8.99	9.08	620	620	35.2	39.6	365	118243	105	22.8	1057	1243	.53	1.64	1.62	2.44	9.13	8.70
876	1800	2107.7	5.62	2.25	2.71	80	34.9	2430	2103.1	8.98	9.09	620	620	35.2	39.7	364	118473	106	22.8	985	1242	.53	1.57	1.56	2.44	9.13	8.70
877	1803	2108.0	5.90	2.35	2.98	79	33.8	2420	2103.3	9.01	9.08	620	620	35.2	39.7	363	118691	106	22.9	730	1240	.53	1.54	1.53	2.44	9.13	8.70
878	1808	2108.3	3.48	2.26	2.63	79	34.9	2400	2103.7	9.05	9.08	620	620	35.4	39.6	360	119103	106	23.0	965	1241	.53	1.70	1.69	2.44	9.12	8.70
879	1814	2108.6	3.27	2.92	3.27	79	34.5	2430	2104.1	9.01	9.09	619	619	35.4	39.5	356	119545	107	23.1	1458	1242	.53	1.72	1.70	2.44	9.12	8.70
880	1817	2108.9	6.07	3.19	3.61	79	34.5	2410	2104.3	9.01	9.09	619	619	35.4	39.7	355	119805	107	23.1	936	1241	.54	1.54	1.53	2.44	9.12	8.70
881	1819	2109.2	6.89	3.43	3.71	78	35.6	2410	2104.4	9.03	9.09	619	619	35.5	39.6	355	119972	107	23.1	788	1239	.54	1.52	1.51	2.44	9.12	8.70
882	1822	2109.5	5.29	3.25	3.78	78	36.5	2400	2104.6	9.03	9.11	619	619	35.6	39.5	350	120217	108	23.2	941	1238	.54	1.60	1.59	2.44	9.12	8.70
+ Wiper trip at 6921'. (2109.5m)																											
884	1957	2110.1	5.43	2.40	2.88	79	34.2	2350	2105.6	9.03	9.17	609	609	35.6	25.5	318	120823	108	23.3	954	1234	.54	1.60	1.59	2.44	9.11	8.70
885	1957	2110.4	6.52	2.34	2.68	79	32.5	2310	2105.7	8.99	9.12	604	604	35.2	31.0	318	120880	109	23.3	1211	1232	.54	1.49	1.48	2.44	9.11	8.70
886	2003	2110.7	3.20	2.26	2.99	79	31.8	2350	2105.9	9.03	9.10	609	609	33.6	36.4	313	121299	109	23.4	923	1233	.54	1.68	1.67	2.44	9.10	8.70
887	2006	2111.1	4.21	2.55	3.10	79	33.5	2310	2106.0	9.02	9.07	602	602	33.0	37.3	312	121525	109	23.5	1209	1233	.54	1.63	1.62	2.44	9.11	8.70
888	2008	2111.4	6.56	3.10	3.46	78	33.2	2330	2106.2	9.05	9.09	602	602	32.4	38.0	312	121742	109	23.5	918	1233	.54	1.50	1.49	2.44	9.11	8.70
889	2012	2111.7	4.76	3.32	3.75	78	35.8	2340	2106.3	9.01	9.07	609	609	31.8	38.5	313	122034	110	23.6	845	1231	.54	1.63	1.61	2.44	9.11	8.70
890	2015	2112.0	6.16	3.40	3.86	78	35.0	2320	2106.5	9.02	9.08	605	605	31.7	38.7	332	122265	110	23.6	699	1230	.55	1.54	1.53	2.44	9.10	8.70
891	2019	2112.3	4.83	3.37	3.85	78	34.0	2370	2106.8	9.06	9.08	610	610	32.3	38.8	357	122562	110	23.7	1034	1230	.55	1.60	1.59	2.44	9.10	8.70
892	2022	2112.6	4.92	3.29	3.68	78	34.4	2360	2106.9	9.05	9.08	610	610	32.5	38.9	365	122823	111	23.8	1151	1229	.55	1.60	1.59	2.44	9.10	8.70
893	2026	2112.9	5.27	3.38	3.70	78	36.0	2360	2107.1	9.04	9.11	611	611	32.1	39.1	362	123092	111	23.8	907	1228	.55	1.60	1.59	2.44	9.10	8.70
894	2028	2113.2	8.23	3.36	3.53	78	35.5	2370	2107.2	9.04	9.11	611	611	32.1	39.1	361	123265	111	23.8	625	1227	.55	1.47	1.45	2.44	9.11	8.70
895	2033	2113.5	3.77	3.41	3.68	78	34.4	2390	2107.5	9.09	9.12	610	610	32.6	39.1	358	123677	112	23.9	757	1227	.55	1.67	1.66	2.44	9.11	8.70
896	2035	2113.8	7.02	3.39	3.66	78	35.1	2390	2107.6	9.06	9.15	610	610	33.0	39.3	355	123841	112	24.0	624	1226	.55	1.51	1.49	2.44	9.11	8.70
897	2040	2114.1	3.88	3.37	3.59	78	34.9	2380	2108.0	9.10	9.14	610	610	33.4	39.5	351	124240	112	24.1	2814	1226	.55	1.67	1.66	2.44	9.11	8.70
898	2045	2114.4	4.11	3.29	3.55	78	33.7	2400	2108.4	9.11	9.16	612	612	33.8	39.4	352	124584	112	24.1	1158	1225	.56	1.64	1.62	2.45	9.12	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
899	2057	2114.8	3.54	3.17	3.45	78	33.1	2430	2108.6	9.05	9.17	614	614	34.7	39.1	353	125048	113	24.2	1767	1226	.56	1.67	1.66	2.45	9.12	8.70
900	2058	2115.0	4.02	3.21	3.57	79	36.9	2420	2108.7	9.05	9.17	616	616	34.7	39.1	349	125127	113	24.2	1568	1224	.56	1.64	1.63	2.45	9.13	8.70
901	2100	2115.3	7.63	3.43	3.65	79	35.3	2420	2109.1	9.05	9.20	617	617	34.7	38.6	340	125283	113	24.3	454	1222	.56	1.48	1.47	2.45	9.13	8.70
902	2106	2115.6	3.49	3.45	3.99	79	35.0	2420	2109.7	8.97	9.12	617	617	34.5	39.3	334	125722	114	24.4	3211	1223	.56	1.70	1.69	2.45	9.13	8.70
903	2109	2115.9	5.77	3.46	3.84	79	35.0	2420	2109.9	9.05	9.14	617	617	34.6	39.1	331	125951	114	24.4	861	1222	.56	1.56	1.55	2.45	9.13	8.70
904	2111	2116.3	8.27	3.21	3.58	79	36.2	2410	2110.1	9.08	9.02	616	616	34.7	39.5	331	126155	114	24.5	1001	1221	.56	1.47	1.46	2.45	9.13	8.70
905	2115	2116.6	4.61	3.30	3.72	79	35.5	2400	2110.4	9.11	9.10	615	615	35.0	39.6	332	126433	115	24.5	2468	1220	.56	1.63	1.62	2.45	9.13	8.70
906	2117	2116.8	6.87	3.26	3.66	79	34.0	2380	2110.6	9.11	9.14	616	616	35.1	39.6	328	126608	115	24.6	896	1218	.56	1.50	1.48	2.45	9.13	8.70
907	2126	2117.2	2.18	3.32	3.73	79	35.3	2380	2111.4	9.07	9.16	615	615	35.4	39.5	323	127307	115	24.7	$	1221	.57	1.84	1.82	2.45	9.13	8.70
908	2133	2117.4	2.32	3.40	3.72	79	35.9	2390	2112.1	9.10	9.16	615	615	35.2	39.5	288	127886	116	24.8	2266	1223	.57	1.83	1.82	2.45	9.14	8.70
909	2139	2117.8	3.40	3.42	3.77	79	36.0	2380	2112.6	9.12	9.16	615	615	35.4	39.5	287	128334	116	24.9	1649	1224	.57	1.72	1.71	2.45	9.15	8.70
910	2144	2118.1	3.42	3.36	3.70	79	35.4	2390	2113.0	9.09	9.14	615	615	35.5	39.7	286	128713	116	25.0	1472	1224	.57	1.71	1.70	2.45	9.15	8.70
911	2148	2118.4	4.43	3.22	3.65	79	35.4	2390	2113.2	9.09	9.13	616	616	35.5	40.0	282	129021	116	25.1	1053	1224	.57	1.64	1.62	2.45	9.15	8.70
912	2151	2118.7	6.04	3.28	3.68	79	34.8	2380	2113.5	9.09	9.12	616	616	35.5	40.1	279	129269	117	25.1	930	1223	.57	1.54	1.53	2.45	9.15	8.70
913	2155	2119.0	4.69	3.23	3.60	79	35.4	2380	2113.7	9.05	9.12	615	615	35.7	39.8	281	129574	117	25.2	1203	1223	.58	1.62	1.61	2.45	9.16	8.70
914	2203	2119.3	4.39	3.08	3.46	78	36.2	2380	2114.0	9.08	9.10	610	610	35.8	39.8	263	129877	117	25.2	1236	1223	.58	1.65	1.63	2.45	9.16	8.70
915	2206	2119.6	4.66	3.15	3.50	78	35.6	2380	2114.4	9.04	9.10	614	614	35.7	39.6	256	130152	118	25.3	1006	1221	.58	1.62	1.61	2.45	9.16	8.70
916	2211	2119.9	3.71	3.16	3.49	78	34.6	2330	2114.8	9.03	9.11	613	613	35.7	40.0	247	130535	118	25.4	1444	1222	.58	1.67	1.66	2.45	9.16	8.70
917	2216	2120.2	3.88	3.29	3.53	78	35.0	2340	2115.2	9.07	9.12	613	613	35.6	39.9	245	130901	118	25.5	1339	1222	.58	1.66	1.65	2.45	9.17	8.70
918	2219	2120.5	5.03	3.16	3.60	78	34.0	2340	2115.6	9.01	9.13	613	613	35.5	40.0	246	131128	119	25.5	1038	1221	.58	1.58	1.56	2.45	9.16	8.70
919	2222	2120.8	5.81	3.18	3.45	78	34.6	2330	2115.8	9.07	9.15	613	613	35.5	39.8	242	131367	119	25.6	782	1220	.58	1.54	1.53	2.45	9.16	8.70
920	2223	2121.1	7.05	3.14	3.47	78	34.2	2340	2115.9	9.02	9.15	613	613	35.4	39.9	243	131485	119	25.6	859	1218	.58	1.48	1.47	2.45	9.16	8.70
921	2224	2121.4	15.1	3.12	3.47	78	33.2	2350	2116.0	9.05	9.15	613	613	35.4	39.9	242	131570	119	25.6	357	1216	.58	1.26	1.25	2.46	9.15	8.70
922	2229	2121.7	3.61	3.17	3.41	78	33.7	2350	2116.2	9.03	9.16	613	613	35.4	40.0	241	131960	120	25.7	659	1216	.59	1.67	1.66	2.46	9.14	8.70
923	2231	2122.0	9.84	3.22	3.47	78	34.5	2340	2116.4	9.10	9.15	613	613	35.4	40.2	237	132105	120	25.7	522	1214	.59	1.40	1.39	2.46	9.12	8.70
924	2235	2122.3	4.43	3.30	3.59	78	36.4	2350	2116.7	9.10	9.17	613	613	35.4	40.3	236	132397	120	25.8	732	1213	.59	1.65	1.64	2.46	9.12	8.70
925	2240	2122.7	4.12	3.13	3.42	78	35.2	2350	2117.1	9.10	9.19	614	614	35.4	40.3	236	132770	121	25.9	1125	1214	.59	1.66	1.64	2.46	9.12	8.70
926	2241	2122.9	16.5	3.16	3.36	79	33.7	2300	2117.2	9.10	9.19	614	614	35.4	40.3	238	132850	121	25.9	537	1212	.59	1.25	1.23	2.46	9.12	8.70
927	2244	2123.3	5.81	3.20	3.44	78	35.7	2320	2117.4	9.09	9.18	614	614	35.0	40.1	251	133110	121	25.9	713	1211	.59	1.56	1.55	2.46	9.13	8.70
928	2248	2123.5	3.07	3.18	3.47	78	36.2	2340	2117.8	9.04	9.19	614	614	33.5	40.2	266	133447	122	26.0	1618	1210	.59	1.75	1.74	2.46	9.13	8.70
929	2251	2123.8	6.28	3.17	3.48	78	34.7	2340	2118.0	9.09	9.20	614	614	33.0	40.4	276	133674	122	26.0	798	1209	.59	1.53	1.51	2.46	9.14	8.70
930	2254	2124.2	6.21	3.08	3.40	78	34.5	2330	2118.3	9.09	9.20	615	615	32.7	40.6	284	133904	122	26.1	821	1208	.59	1.53	1.52	2.46	9.13	8.70
931	2258	2124.5	4.40	3.08	3.40	78	35.1	2340	2118.6	9.14	9.21	614	614	32.4	40.3	296	134227	123	26.2	943	1208	.60	1.63	1.62	2.46	9.13	8.70
932	2311	2124.8	4.92	3.14	3.44	78	35.1	2380	2119.2	9.10	9.17	615	615	32.1	38.9	356	134580	123	26.2	1032	1208	.60	1.60	1.59	2.46	9.15	8.70
933	2313	2125.1	9.29	3.37	3.67	79	34.2	2400	2119.4	9.10	9.17	619	619	32.1	38.9	353	134721	123	26.3	911	1208	.60	1.41	1.40	2.46	9.15	8.70
934	2315	2125.4	9.95	3.41	3.61	80	35.9	2390	2119.5	9.10	9.17	620	620	31.7	38.8	356	134852	123	26.3	514	1205	.60	1.41	1.40	2.46	9.15	8.70
935	2320	2125.7	3.18	3.24	3.68	80	35.8	2370	2120.0	9.10	9.19	619	619	30.9	39.3	367	135232	124	26.4	926	1205	.60	1.74	1.72	2.46	9.16	8.70
936	2322	2126.0	7.75	3.25	3.56	79	35.1	2360	2120.2	9.10	9.18	619	619	30.8	39.4	373	135479	124	26.4	679	1204	.60	1.47	1.46	2.46	9.17	8.70
937	2325	2126.3	5.97	3.32	3.62	80	35.6	2360	2120.4	9.10	9.17	619	619	30.6	39.3	382	135710	124	26.5	721	1203	.60	1.55	1.54	2.46	9.17	8.70
938	2329	2126.6	5.03	3.34	3.56	79	35.2	2360	2120.7	9.11	9.18	618	618	30.5	39.2	394	136011	125	26.5	1115	1203	.60	1.60	1.58	2.46	9.17	8.70
939	2332	2126.9	5.83	3.15	3.61	80	36.0	2350	2121.0	9.07	9.18	617	617	30.5	39.1	402	136250	125	26.6	884	1202	.60	1.56	1.55	2.46	9.18	8.70
940	2335	2127.2	6.44	3.18	3.53	80	36.8	2350	2121.2	9.08	9.18	617	617	30.4	39.1	410	136483	125	26.6	1010	1201	.60	1.55	1.53	2.46	9.18	8.70
941	2337	2127.5	7.71	3.37	3.53	80	37.2	2320	2121.5	9.09	9.18	617	617	30.5	39.0	414	136671	126	26.7	678	1199	.61	1.50	1.48	2.46	9.18	8.70
942	2341	2127.8	5.17	3.24	3.58	80	36.5	2340	2121.9	9.08	9.19	617	617	30.5	38.9	428	136951	126	26.7	-795	1199	.61	1.60	1.59	2.46	9.18	8.70
943	2344	2128.1	6.76	3.30	3.66	80	38.7	2330	2122.1	9.10	9.17	617	617	30.6	39.0	436	137160	126	26.8	727	1198	.61	1.56	1.54	2.46	9.19	8.70
944	2346	2128.5	7.95	3.10	3.54	80	37.1	2320	2122.3	9.10	9.17	616	616	30.6	39.0	442	137365	126	26.8	792	1197	.61	1.49	1.47	2.47	9.19	8.70
945	2350	2128.7	2.99	3.07	3.55	80	36.8	2330	2122.8	9.05	9.19	617	617	30.5	38.8	454	137708	127	26.9	1989	1196	.61	1.76	1.75	2.47	9.19	8.70
946	2353	2129.0	7.12	3.20	3.56	80	36.4	2320	2123.1	9.11	9.19	616	616	30.5	38.7	457	137912	127	26.9	615	1195	.61	1.51	1.50	2.47	9.19	8.70
947	2355	2129.3	9.46	3.45	3.71	90	37.8	2320	2123.2	9.10	9.19	616	616	30.5	38.6	460	138051	127	27.0	606	1194	.61	1.45	1.43	2.47	9.19	8.7
948	2358	2129.7	6.22	3.40	3.85	80	38.0	2330	2123.4	9.11	9.19	616	616	30.5	38.5	459	138308	128	27.0	393	1193	.61	1.57	1.55	2.47	9.18	8.

AMOCO AUST. Tilana No.1 329166 Data Printed at time 20:06 Date Oct 9 '85 98
Data Recorded at time 00:01 Date Sep 27 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TV	DXC	NX	NKB	ECD	EST FM PR
949	0031	2129.9	5.59	3.31	3.66	80	37.3	2320	2123.8	9.11	9.17	616	616	30.6	38.3	457	138542	128	27.1	803	1192	.61	1.59	1.58	2.47	9.19	8.70
950	0033	2130.2	8.01	3.32	3.62	80	37.2	2320	2124.0	9.09	9.16	617	617	30.5	38.3	453	138723	128	27.1	569	1190	.61	1.49	1.47	2.47	9.19	8.70
951	0037	2130.6	5.03	3.35	3.69	80	36.5	2310	2124.2	9.06	9.16	617	617	30.5	38.1	452	139015	129	27.2	556	1190	.62	1.61	1.59	2.47	9.20	8.70
952	0039	2130.9	9.69	3.51	3.98	79	36.0	2330	2124.4	9.06	9.16	616	616	30.5	38.1	452	139166	129	27.2	737	1189	.62	1.42	1.40	2.47	9.20	8.70
953	0041	2131.2	7.18	3.55	4.00	80	36.7	2300	2124.4	9.08	9.14	616	616	30.7	38.1	452	139343	129	27.2	622	1187	.62	1.51	1.50	2.47	9.20	8.70
954	0044	2131.5	6.22	3.39	3.86	80	37.0	2320	2124.6	9.06	9.14	616	616	31.1	37.8	452	139582	130	27.3	844	1186	.62	1.56	1.54	2.47	9.19	8.70
955	0046	2131.8	8.25	3.41	3.66	79	36.6	2330	2124.9	9.10	9.11	617	617	31.3	37.7	450	139726	130	27.3	624	1184	.62	1.47	1.45	2.47	9.19	8.70
956	0023	2132.1	2.64	3.34	3.71	80	38.0	2340	2125.4	9.05	9.12	617	617	31.7	37.7	446	140322	130	27.4	2327	1187	.62	1.82	1.80	2.47	9.19	8.70
957	0026	2132.4	5.57	3.21	3.75	80	37.9	2350	2125.7	9.07	9.12	617	617	31.9	37.7	443	140561	130	27.5	859	1186	.62	1.60	1.58	2.47	9.19	8.70
958	0029	2132.7	6.03	3.26	3.67	80	37.7	2360	2126.1	9.06	9.10	617	617	32.2	37.7	442	140820	131	27.5	874	1185	.62	1.58	1.56	2.47	9.18	8.70
959	0032	2133.0	5.96	3.46	3.72	80	37.6	2350	2126.3	9.10	9.10	617	617	32.4	37.7	442	141022	131	27.6	895	1184	.62	1.58	1.56	2.47	9.18	8.70
960	0034	2133.3	8.79	3.50	3.66	79	36.9	2350	2126.6	9.10	9.10	617	617	32.5	37.7	441	141187	131	27.6	563	1182	.62	1.46	1.44	2.47	9.18	8.70
961	0037	2133.6	6.14	3.38	3.70	79	36.7	2360	2126.9	9.11	9.10	617	617	32.7	37.7	442	141421	132	27.7	791	1181	.62	1.56	1.54	2.47	9.18	8.70
962	0039	2133.9	7.86	3.52	3.84	80	37.9	2350	2127.2	9.12	9.07	616	616	32.8	37.7	442	141606	132	27.7	632	1180	.63	1.50	1.49	2.47	9.18	8.70
963	0047	2134.3	6.58	3.44	3.80	81	36.5	2370	2127.7	9.10	9.05	616	616	33.1	37.8	448	141803	132	27.7	847	1179	.63	1.53	1.51	2.47	9.18	8.70
964	0049	2134.5	6.53	3.39	3.75	83	35.8	2380	2128.0	9.11	9.05	617	617	33.3	37.4	442	142006	133	27.8	6199	1178	.63	1.54	1.52	2.47	9.18	8.70
965	0052	2134.8	6.96	3.41	3.83	81	35.9	2350	2128.3	9.08	9.06	616	616	33.4	37.9	436	142202	133	27.8	638	1177	.63	1.52	1.50	2.47	9.18	8.70
966	0056	2135.1	4.46	3.39	3.92	80	35.8	2380	2128.6	9.10	9.04	616	616	33.5	37.6	440	142550	133	27.9	2270	1177	.63	1.64	1.62	2.47	9.18	8.70
967	0058	2135.4	8.38	3.51	3.88	81	37.0	2360	2128.8	9.13	9.04	616	616	33.6	37.9	436	142725	133	27.9	547	1175	.63	1.48	1.46	2.48	9.18	8.70
968	0102	2135.8	4.27	3.49	3.85	80	37.6	2370	2129.3	9.10	9.03	616	616	33.7	38.0	440	143035	134	28.0	2778	1175	.63	1.68	1.66	2.48	9.18	8.70
969	0103	2136.1	10.6	3.62	3.97	81	36.3	2370	2129.5	9.13	9.03	617	617	33.8	38.0	440	143161	134	28.0	822	1174	.63	1.40	1.38	2.48	9.18	8.70
970	0106	2136.4	8.75	3.67	3.90	80	37.5	2370	2129.7	9.15	9.02	617	617	33.8	38.0	436	143327	134	28.1	659	1172	.63	1.47	1.45	2.48	9.18	8.70
971	0109	2136.7	4.89	3.54	3.97	81	37.4	2330	2130.0	9.12	9.04	617	617	33.9	37.9	438	143597	135	28.1	1109	1172	.63	1.64	1.62	2.48	9.18	8.70
972	0110	2137.0	15.4	3.58	3.90	80	36.7	2370	2130.1	9.12	9.04	616	616	33.9	38.1	437	143688	135	28.1	303	1170	.63	1.30	1.28	2.48	9.19	8.70
973	0113	2137.3	6.45	3.55	4.01	80	38.0	2360	2130.5	9.15	9.03	617	617	34.0	38.1	438	143914	135	28.2	339	1169	.64	1.56	1.54	2.48	9.19	8.70
974	0115	2137.6	7.43	3.63	3.93	80	37.5	2370	2130.8	9.14	9.03	615	615	34.0	38.3	438	144110	136	28.2	568	1167	.64	1.51	1.50	2.48	9.19	8.70
975	0118	2137.9	5.79	3.44	4.02	81	37.6	2360	2131.2	9.16	9.02	617	617	34.0	38.3	437	144363	136	28.3	840	1167	.64	1.59	1.57	2.48	9.19	8.70
976	0121	2138.2	8.15	3.55	3.88	81	38.2	2370	2131.5	9.14	9.03	616	616	34.1	38.5	436	144542	136	28.3	457	1166	.64	1.50	1.48	2.48	9.19	8.70
977	0124	2138.5	6.22	3.34	3.98	82	38.2	2370	2131.7	9.12	9.05	617	617	34.1	38.4	438	144785	137	28.4	1010	1166	.64	1.58	1.56	2.48	9.19	8.70
978	0126	2138.8	6.39	3.44	3.81	80	39.2	2360	2131.7	9.15	9.04	617	617	34.3	38.4	436	145009	137	28.4	632	1164	.64	1.58	1.56	2.48	9.20	8.70
979	0131	2139.1	4.45	3.55	3.83	83	38.3	1750	2132.0	9.13	9.05	525	525	34.3	38.4	437	145350	137	28.5	862	1164	.64	1.68	1.66	2.48	9.20	8.70
980	0134	2139.4	5.61	3.41	3.81	83	37.1	1740	2132.4	9.16	9.07	521	521	34.5	38.4	439	145619	137	28.5	994	1164	.64	1.60	1.58	2.48	9.20	8.70
981	0137	2139.7	5.25	3.47	3.79	82	36.9	1740	2132.6	9.14	9.09	521	521	34.6	38.4	441	145905	138	28.6	932	1163	.64	1.61	1.59	2.48	9.20	8.70
982	0145	2140.0	2.34	3.39	3.78	82	37.4	2340	2133.5	9.12	9.08	614	614	34.9	37.9	435	146533	138	28.7	1896	1165	.65	1.84	1.83	2.48	9.21	8.70
983	0149	2140.3	4.70	3.35	3.83	82	36.8	2350	2133.8	9.13	9.09	614	614	34.9	38.4	430	146850	138	28.8	1102	1165	.65	1.64	1.62	2.48	9.22	8.70
984	0150	2140.6	9.99	3.31	3.64	80	36.3	2330	2133.8	9.13	9.09	614	614	34.9	38.4	427	146982	139	28.8	530	1163	.65	1.41	1.39	2.48	9.22	8.70
985	0156	2140.9	3.33	3.33	3.78	81	37.3	2320	2134.5	9.11	9.12	614	614	34.9	38.7	427	147423	139	28.9	660	1164	.65	1.74	1.72	2.48	9.22	8.70
986	0200	2141.2	4.50	3.30	3.62	80	38.0	2330	2134.8	9.11	9.11	613	613	34.9	38.6	428	147752	139	29.0	1165	1164	.65	1.66	1.64	2.48	9.22	8.70
987	0204	2141.5	4.52	3.31	3.69	81	38.0	2340	2135.3	9.13	9.15	614	614	34.9	38.8	428	148078	140	29.0	1039	1163	.65	1.66	1.64	2.48	9.22	8.70
988	0207	2141.8	5.69	3.51	3.75	80	38.6	2330	2135.6	9.13	9.16	614	614	34.9	38.7	426	148313	140	29.1	845	1163	.65	1.60	1.58	2.48	9.22	8.70
989	0211	2142.2	4.64	3.42	3.76	81	38.7	2340	2136.1	9.13	9.18	614	614	35.0	38.7	427	148656	140	29.1	1300	1163	.65	1.66	1.64	2.48	9.22	8.70
990	0213	2142.4	8.17	3.50	3.69	80	37.9	2340	2136.3	9.14	9.17	615	615	35.0	38.9	425	148834	141	29.2	554	1161	.66	1.49	1.47	2.49	9.22	8.70
991	0217	2142.8	4.47	3.51	3.71	81	38.6	2330	2136.9	9.14	9.16	614	614	35.1	39.0	424	149156	141	29.2	1426	1161	.66	1.67	1.65	2.49	9.22	8.70
992	0222	2143.1	3.83	3.54	3.96	81	38.6	2340	2137.4	9.12	9.15	613	613	35.2	39.0	423	149539	141	29.3	1978	1162	.66	1.72	1.70	2.49	9.22	8.70
993	0225	2143.4	6.05	3.68	3.88	80	38.9	2310	2137.7	9.14	9.19	613	613	35.2	39.1	422	149782	141	29.4	895	1161	.66	1.58	1.57	2.49	9.22	8.70
994	0232	2143.7	5.43	3.36	3.70	81	34.7	2410	2138.3	9.12	9.21	618	618	35.4	38.7	426	149830	142	29.4	1247	1159	.66	1.60	1.57	2.49	9.22	8.70
995	0233	2144.0	5.84	3.50	3.60	79	36.4	2410	2138.3	9.12	9.21	624	624	35.4	38.7	423	149900	142	29.4	944	1157	.66	1.72	1.70	2.49	9.22	8.70
996	0240	2144.3	2.81	3.43	3.75	81	36.1	2390	2138.9	9.08	9.20	620	620	35.4	38.9	410	150413	142	29.5	2981	1158	.66	1.77	1.75	2.49	9.22	8.70
997	0243	2144.6	5.33	3.45	3.71	82	36.5	2390	2139.2	9.09	9.19	620	620	35.4	38.7	407	150689	143	29.6	1229	1158	.66	1.60	1.58	2.49	9.22	8.70
998	0245	2144.9	6.22	3.54	3.81	80	36.1	2390	2139.4	9.09	9.18	619	619	35.3	39.1	400	150894	143	29.6	743	1157	.66	1.54	1.53	2.49	9.22	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NX	NXB	ECD	EST FM PR
999	0251	2145.2	3.55	3.41	3.88	80	37.8	2390	2139.7	9.08	9.14	620	620	35.4	39.1	401	151316	143	29.7	1250	1157	.67	1.72	1.71	2.49	9.21	8.70
1000	0254	2145.5	5.56	3.49	3.76	80	37.0	2390	2140.0	9.10	9.16	620	620	35.4	39.2	396	151554	144	29.7	815	1156	.67	1.59	1.57	2.49	9.21	8.70
1001	0259	2145.8	3.23	3.44	3.83	81	38.0	2390	2140.4	9.10	9.14	620	620	35.4	39.0	397	152008	144	29.8	1173	1157	.67	1.76	1.74	2.49	9.21	8.70
1002	0302	2146.1	5.78	3.48	3.73	80	36.9	2390	2140.7	9.12	9.10	620	620	35.4	39.0	394	152236	144	29.9	844	1157	.67	1.58	1.56	2.49	9.20	8.70
2	0316	2147.0	4.99	3.31	3.64	81	35.9	2400	2141.8	9.05	9.11	619	619	35.6	39.2	385	153371	145	30.1	1025	1157	.67	1.61	1.59	2.49	9.20	8.70
3	0320	2147.3	4.40	3.40	3.70	81	36.6	2390	2142.2	9.09	9.12	620	620	35.6	39.3	386	153702	145	30.2	1311	1157	.68	1.65	1.64	2.49	9.19	8.70
4	0322	2147.6	4.46	3.46	3.75	80	36.6	2370	2142.4	9.07	9.12	620	620	35.5	39.3	382	153833	146	30.2	847	1156	.68	1.64	1.62	2.49	9.19	8.70
5	0327	2147.9	3.81	3.47	3.79	80	36.0	2380	2142.8	9.06	9.10	621	621	35.5	39.3	383	154217	146	30.3	1491	1156	.68	1.68	1.67	2.49	9.19	8.70
6	0329	2148.2	5.58	3.49	3.85	81	36.0	2370	2143.0	9.07	9.09	621	621	35.6	39.3	379	154371	146	30.3	789	1155	.68	1.58	1.57	2.49	9.19	8.70
7	0333	2148.6	4.72	3.48	3.82	81	36.0	2390	2143.4	9.04	9.10	620	620	35.6	39.2	379	154711	147	30.4	1075	1155	.68	1.63	1.61	2.49	9.18	8.70
8	0336	2148.9	5.41	3.47	3.67	80	36.4	2390	2143.7	9.09	9.09	621	621	35.6	39.3	377	154957	147	30.4	884	1154	.68	1.59	1.57	2.49	9.18	8.70
9	0339	2149.2	5.06	3.46	3.75	81	36.3	2380	2143.9	9.10	9.09	620	620	35.7	39.6	380	155219	147	30.5	1021	1153	.68	1.61	1.59	2.49	9.18	8.70
10	0346	2149.4	2.02	3.34	3.65	80	36.3	2380	2144.3	9.08	9.09	620	620	35.6	39.6	376	155810	148	30.6	2458	1155	.68	1.87	1.86	2.50	9.17	8.70
11	0351	2149.8	4.49	3.34	3.52	80	36.3	2370	2144.7	9.12	9.12	620	620	35.7	39.5	372	156138	148	30.7	1125	1155	.69	1.65	1.63	2.50	9.17	8.70
12	0354	2150.1	5.71	3.30	3.72	81	36.6	2370	2145.0	9.10	9.13	621	621	35.7	39.6	370	156394	148	30.7	903	1155	.69	1.58	1.57	2.50	9.17	8.70
13	0402	2150.4	2.31	3.28	3.54	80	36.6	2360	2145.6	9.09	9.13	620	620	36.0	39.6	372	157080	148	30.9	1728	1157	.69	1.84	1.82	2.50	9.17	8.70
14	0403	2150.7	2.62	3.18	3.53	81	36.5	2330	2146.1	9.10	9.14	620	620	36.0	39.7	371	157585	149	31.0	1754	1158	.69	1.80	1.78	2.50	9.17	8.70
15	0413	2151.0	4.51	3.20	3.43	80	37.1	2380	2146.3	9.10	9.15	619	619	36.0	39.7	368	157910	149	31.1	1302	1158	.69	1.66	1.64	2.50	9.17	8.70
16	0420	2151.3	2.21	3.29	3.47	80	36.8	2350	2146.8	9.09	9.15	618	618	36.0	39.5	370	158530	149	31.2	3360	1160	.70	1.86	1.84	2.50	9.17	8.70
17	0427	2151.6	2.63	3.21	3.46	80	35.5	2360	2147.5	9.08	9.17	610	610	36.0	39.8	365	159093	150	31.3	2062	1161	.70	1.79	1.77	2.50	9.17	8.70
18	0432	2151.9	4.17	3.30	3.51	81	36.9	2380	2147.9	9.09	9.15	619	619	36.1	39.6	362	159468	150	31.4	1555	1162	.70	1.68	1.66	2.50	9.16	8.70
19	0438	2152.2	2.83	3.40	3.82	82	36.5	2410	2148.4	9.10	9.16	578	578	36.2	39.9	365	159969	150	31.5	1448	1162	.70	1.79	1.77	2.50	9.16	8.70
20	0443	2152.5	3.64	3.45	3.76	81	36.2	2400	2149.0	9.12	9.15	623	623	36.2	39.6	363	160395	151	31.6	1371	1163	.70	1.71	1.69	2.50	9.16	8.70
21	0451	2152.8	5.29	3.07	3.77	81	35.9	2370	2149.1	9.10	9.15	608	608	36.2	39.8	371	160663	151	31.6	936	1163	.70	1.60	1.58	2.50	9.17	8.70
22	0452	2153.1	5.06	2.49	3.59	82	34.9	2380	2149.1	9.10	9.15	617	617	36.2	39.8	369	160726	151	31.6	1009	1161	.70	1.62	1.60	2.50	9.17	8.70
23	0452	2153.4	3.71	3.53	3.72	81	36.0	2390	2149.2	9.10	9.15	617	617	36.2	39.8	365	160751	151	31.6	1125	1158	.70	1.68	1.67	2.50	9.17	8.70
24	0505	2153.7	2.53	3.58	3.92	81	36.3	2340	2149.8	9.15	9.13	613	613	36.1	39.3	362	161310	152	31.7	809	1160	.71	1.81	1.79	2.50	9.17	8.70
25	0507	2154.0	5.06	3.55	3.81	81	36.3	2340	2149.9	9.15	9.13	612	612	36.1	39.3	360	161466	152	31.8	1032	1159	.71	1.61	1.59	2.50	9.17	8.70
26	0511	2154.3	3.97	3.56	3.85	80	38.3	2340	2150.1	9.10	9.13	612	612	36.0	39.9	361	161782	152	31.8	811	1159	.71	1.71	1.69	2.50	9.18	8.70
27	0516	2154.6	3.34	3.62	3.91	80	37.5	2340	2150.4	9.13	9.13	612	612	35.9	39.7	364	162236	153	31.9	1332	1159	.71	1.74	1.72	2.50	9.18	8.70
28	0520	2154.9	5.26	3.60	3.80	81	37.3	2340	2150.6	9.14	9.14	613	613	35.9	39.7	363	162505	153	32.0	941	1159	.71	1.61	1.59	2.50	9.18	8.70
29	0523	2155.3	6.28	3.28	3.69	81	36.7	2350	2150.9	9.11	9.11	613	613	35.8	39.7	361	162744	153	32.0	993	1158	.71	1.56	1.54	2.50	9.18	8.70
30	0526	2155.6	5.10	3.36	3.71	80	37.7	2340	2150.9	9.13	9.12	614	614	35.8	39.8	362	163002	154	32.1	1005	1158	.71	1.62	1.60	2.50	9.18	8.70
31	0529	2155.9	6.01	3.43	3.60	80	37.8	2320	2151.0	9.13	9.13	614	614	35.8	40.0	360	163238	154	32.1	812	1157	.71	1.58	1.56	2.50	9.19	8.70
32	0531	2156.2	4.76	3.45	3.64	80	37.7	2340	2151.2	9.12	9.14	613	613	35.8	39.9	359	163395	154	32.2	998	1156	.72	1.63	1.61	2.50	9.19	8.70
33	0536	2156.5	3.71	3.35	3.62	80	36.9	2340	2151.3	9.12	9.14	612	612	35.9	39.9	363	163791	155	32.3	1127	1156	.72	1.70	1.69	2.51	9.20	8.70
34	0540	2156.8	4.60	3.42	3.69	80	37.1	2340	2151.4	9.14	9.15	612	612	35.9	39.9	363	164107	155	32.3	1185	1156	.72	1.65	1.63	2.51	9.20	8.70
35	0545	2157.1	3.42	3.30	3.71	80	36.6	2340	2151.7	9.09	9.14	613	613	35.4	39.8	363	164492	155	32.4	1584	1156	.72	1.72	1.70	2.51	9.20	8.70
36	0547	2157.4	7.60	3.32	3.71	81	36.7	2340	2152.0	9.12	9.16	613	613	34.9	39.9	359	164704	155	32.4	747	1155	.72	1.50	1.48	2.51	9.20	8.70
37	0551	2157.7	3.76	3.39	3.67	81	36.3	2340	2152.2	9.08	9.14	612	612	35.2	40.1	363	165017	156	32.5	1871	1155	.72	1.69	1.67	2.51	9.21	8.70
38	0554	2158.0	6.05	3.36	3.73	81	36.6	2340	2152.4	9.15	9.16	612	612	35.0	40.0	362	165257	156	32.6	860	1155	.72	1.56	1.54	2.51	9.21	8.70
39	0557	2158.3	6.85	3.49	3.91	79	37.5	2330	2152.6	9.17	9.17	611	611	35.1	40.2	362	165467	156	32.6	752	1154	.72	1.53	1.51	2.51	9.21	8.70
40	0600	2158.6	5.95	3.32	3.69	80	38.0	2320	2153.1	9.15	9.14	612	612	35.4	40.2	360	165713	157	32.7	816	1153	.73	1.58	1.56	2.51	9.21	8.70
41	0603	2158.9	5.74	3.35	3.65	80	37.9	2320	2153.2	9.09	9.10	612	612	35.7	40.1	359	165966	157	32.7	1057	1152	.73	1.59	1.57	2.51	9.21	8.70
42	0606	2159.2	5.76	3.37	3.70	79	37.5	2340	2153.3	9.11	9.10	612	612	35.5	40.0	360	166218	157	32.8	1151	1153	.73	1.58	1.56	2.51	9.21	8.70
43	0612	2159.5	3.47	3.41	3.68	80	37.6	2340	2153.8	9.05	9.13	612	612	35.5	40.1	362	166675	158	32.9	2897	1153	.73	1.73	1.71	2.51	9.21	8.70
44	0616	2159.8	4.48	3.40	3.77	81	37.3	2330	2154.0	9.14	9.17	612	612	35.5	40.1	358	166999	158	32.9	1003	1153	.73	1.65	1.63	2.51	9.22	8.70
45	0619	2160.1	5.19	3.37	3.64	80	36.9	2340	2154.3	9.11	9.18	612	612	35.6	39.9	356	167257	158	33.0	934	1152	.73	1.60	1.58	2.51	9.22	8.70
46	0623	2160.4	4.51	3.32	3.61	80	36.1	2340	2154.6	9.08	9.17	612	612	35.7	39.8	355	167581	158	33.0	1111	1152	.73	1.63	1.61	2.51	9.22	8.70
47	0627	2160.7	4.64	3.35	3.63	80	36.8	2330	2155.0	9.09	9.18	612	612	35.7	39.9	354	167895	159	33.1	975	1152	.73	1.63	1.61	2.51	9.21	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TV	DXC	NX	NXB	ECD	EST FM PR
48	0631	2161.0	4.42	3.25	3.60	81	36.7	2340	2155.4	9.09	9.16	612	612	35.7	40.2	354	168228	159	33.2	1288	1152	.74	1.65	1.63	2.51	9.21	8.70
49	0636	2161.3	3.39	3.24	3.53	80	36.6	2330	2155.9	9.11	9.19	612	612	35.7	40.0	354	168658	159	33.3	2323	1152	.74	1.72	1.70	2.51	9.21	8.70
50	0640	2161.6	4.74	3.23	3.49	81	37.5	2330	2156.2	9.10	9.17	611	611	35.7	40.0	352	168968	160	33.3	1184	1152	.74	1.64	1.62	2.51	9.20	8.70
51	0645	2162.0	4.56	3.20	3.48	80	36.7	2330	2156.5	9.13	9.16	612	612	35.8	40.1	349	169307	160	33.4	1283	1152	.74	1.64	1.62	2.51	9.20	8.70
52	0654	2162.9	4.50	3.25	3.50	80	37.4	2340	2157.1	9.10	9.16	619	614	35.9	40.1	373	169596	161	33.5	1025	1152	.74	1.66	1.64	2.52	9.14	8.70
53	0742	2164.1	3.82	2.32	3.25	83	18.2	2280	2157.4	9.11	9.18	574	574	36.3	37.7	348	169653	162	33.5	1219	1140	.74	1.68	1.66	2.52	9.20	8.70
54	0743	2164.4	3.44	3.39	3.57	85	33.5	2290	2157.4	9.11	9.18	603	603	36.3	37.7	341	169735	162	33.5	1462	1138	.74	1.71	1.70	2.52	9.20	8.70
55	0749	2164.7	3.33	3.38	3.62	83	35.5	2270	2158.2	9.07	9.20	603	603	36.3	38.3	336	170186	163	33.6	9486	1139	.74	1.72	1.70	2.52	9.20	8.70
56	0752	2165.0	3.98	3.27	3.74	80	36.8	2320	2158.7	9.04	9.18	610	610	35.4	37.8	341	170480	163	33.6	1261	1138	.74	1.68	1.66	2.52	9.20	8.70
57	0758	2165.3	3.12	3.14	3.51	80	36.4	2330	2159.4	9.08	9.15	612	612	34.1	39.2	347	170951	163	33.7	1390	1139	.75	1.75	1.73	2.52	9.20	8.70
58	0802	2165.6	4.29	3.15	3.55	81	37.7	2340	2159.7	9.06	9.14	612	612	33.5	39.2	355	171294	164	33.8	986	1139	.75	1.67	1.65	2.52	9.20	8.70
59	0810	2165.9	2.55	3.23	3.59	80	37.1	2350	2160.4	9.09	9.14	611	611	32.4	39.4	371	171872	164	33.9	2556	1141	.75	1.82	1.80	2.52	9.18	8.70
60	0813	2166.2	4.38	3.18	3.49	80	37.2	2340	2160.7	9.07	9.14	612	612	32.1	39.5	376	172141	164	34.0	1097	1140	.75	1.66	1.64	2.52	9.18	8.70
61	0818	2166.5	3.34	3.26	3.55	80	36.1	2350	2161.2	9.06	9.15	612	612	32.1	39.4	389	172578	165	34.1	1871	1141	.75	1.73	1.71	2.52	9.17	8.70
62	0823	2166.8	2.88	3.17	3.55	80	36.9	2350	2161.8	9.11	9.15	611	611	32.1	39.3	398	172990	165	34.2	1665	1141	.75	1.78	1.76	2.52	9.17	8.70
63	0828	2167.2	4.05	3.07	3.46	81	35.8	2350	2162.2	9.09	9.14	611	611	32.2	39.3	406	173383	165	34.2	1396	1142	.76	1.67	1.65	2.52	9.17	8.70
64	0837	2167.4	1.81	3.18	3.70	80	37.8	2370	2162.9	9.11	9.16	614	614	32.4	38.9	416	174052	166	34.4	2406	1144	.76	1.93	1.91	2.52	9.17	8.70
65	0840	2167.7	5.69	3.47	3.67	93	36.6	2370	2163.3	9.08	9.16	615	615	32.5	39.0	416	174351	166	34.4	1083	1143	.76	1.63	1.60	2.52	9.17	8.70
66	0846	2168.1	3.41	3.41	3.73	92	37.3	2380	2163.5	9.11	9.15	615	615	32.6	39.1	427	174887	166	34.5	1865	1144	.76	1.78	1.75	2.52	9.17	8.70
67	0852	2168.4	2.60	3.41	3.72	93	38.3	2390	2164.4	9.06	9.15	615	615	32.7	38.8	436	175475	166	34.6	2325	1145	.77	1.88	1.85	2.52	9.16	8.70
68	0855	2168.7	5.42	3.36	3.66	94	38.1	2380	2164.6	9.10	9.16	615	615	32.8	38.7	437	175759	167	34.7	1314	1145	.77	1.66	1.64	2.52	9.16	8.70
69	0900	2169.0	3.09	3.41	3.65	93	37.7	2370	2164.8	9.07	9.14	615	615	32.9	38.8	442	176199	167	34.8	1852	1145	.77	1.82	1.79	2.52	9.16	8.70
70	0908	2169.3	2.05	3.40	3.74	94	38.2	2370	2165.4	9.06	9.14	614	614	33.0	38.7	447	177028	167	34.9	2335	1147	.77	1.94	1.92	2.52	9.16	8.70
71	0914	2169.6	3.05	3.35	3.62	94	38.4	2380	2165.7	9.06	9.14	615	615	33.1	38.5	445	177532	168	35.0	1525	1148	.77	1.83	1.81	2.52	9.16	8.70
72	0920	2169.9	3.04	3.31	3.60	95	37.8	2370	2166.1	9.11	9.16	615	615	33.4	38.8	441	178095	168	35.1	1651	1148	.78	1.83	1.80	2.52	9.16	8.70
73	0928	2170.2	1.93	3.27	3.84	93	38.6	2380	2166.6	9.09	9.16	616	616	33.8	38.6	438	178394	168	35.2	2974	1151	.78	1.97	1.94	2.52	9.16	8.70
74	0936	2170.5	2.36	3.21	3.45	94	38.7	2380	2167.0	9.10	9.13	616	616	34.2	38.8	436	179616	169	35.4	2393	1152	.78	1.91	1.88	2.53	9.16	8.70
75	0943	2170.8	2.41	3.18	3.53	94	38.7	2370	2167.4	9.11	9.15	617	617	34.5	38.8	433	180290	169	35.5	2058	1154	.79	1.90	1.88	2.53	9.16	8.70
76	0952	2171.1	2.18	3.18	3.52	94	38.9	2360	2167.9	9.09	9.12	613	613	34.7	39.0	430	181074	169	35.6	2358	1156	.79	1.94	1.91	2.53	9.16	8.70
77	0956	2171.4	4.16	3.22	3.44	93	38.4	2360	2168.1	9.09	9.12	612	612	35.0	39.2	427	181487	169	35.7	1422	1156	.79	1.74	1.71	2.53	9.16	8.70
78	1006	2171.7	1.89	3.17	3.56	94	39.7	2370	2168.7	9.06	9.15	612	612	35.2	39.0	429	182428	170	35.9	5049	1159	.80	1.99	1.96	2.53	9.16	8.70
79	1013	2172.0	2.41	3.27	3.49	94	39.5	2360	2169.0	9.11	9.17	613	613	35.5	39.4	428	183044	170	36.0	1923	1160	.80	1.92	1.89	2.53	9.16	8.70
80	1020	2172.3	2.87	3.18	3.55	94	39.2	2360	2169.4	9.10	9.16	612	612	35.7	39.3	423	183721	170	36.1	2214	1162	.80	1.86	1.83	2.53	9.16	8.70
81	1027	2172.6	1.89	3.20	3.48	94	40.2	2350	2169.7	9.08	9.15	614	614	35.8	39.5	422	184414	171	36.2	2242	1163	.80	2.00	1.97	2.53	9.17	8.70
82	1035	2172.9	2.45	3.15	3.46	93	38.9	2380	2170.0	9.06	9.15	614	614	36.0	39.8	420	185111	171	36.3	2056	1164	.81	1.90	1.87	2.53	9.17	8.70
83	1044	2173.2	4.69	2.35	3.49	93	36.9	2390	2170.3	9.11	9.14	613	613	36.3	39.4	428	185501	171	36.4	2075	1165	.81	1.68	1.66	2.53	9.17	8.70
84	1048	2173.5	4.43	2.64	3.51	92	37.6	2360	2170.4	9.14	9.15	612	612	36.3	39.1	421	185883	172	36.5	1862	1164	.81	1.71	1.68	2.53	9.17	8.70
85	1053	2173.8	3.26	3.18	3.54	94	38.0	2330	2170.6	9.14	9.15	606	606	36.3	39.7	418	186405	172	36.6	1988	1165	.81	1.81	1.78	2.53	9.17	8.70
86	1102	2174.1	2.20	3.16	3.55	94	38.2	2320	2171.0	9.15	9.14	607	607	36.6	39.6	439	187177	172	36.7	1911	1167	.82	1.92	1.90	2.53	9.16	8.70
87	1113	2174.5	1.80	3.21	3.59	94	38.2	2320	2171.5	9.13	9.15	606	606	36.5	39.5	418	188232	172	36.9	$	1170	.82	1.98	1.96	2.53	9.16	8.70
88	1120	2174.8	2.41	3.26	3.64	96	39.0	2320	2171.8	9.14	9.13	606	606	36.6	39.8	414	188953	173	37.0	2260	1172	.82	1.91	1.89	2.53	9.17	8.70
89	1128	2175.1	2.11	3.20	3.64	98	37.6	2310	2172.1	9.13	9.10	605	605	36.7	39.8	414	189696	173	37.1	6996	1173	.83	1.94	1.91	2.53	9.18	8.70
90	1136	2175.4	2.39	3.41	3.72	96	38.2	2330	2172.4	9.15	9.11	607	607	36.8	39.9	410	190428	173	37.3	2341	1175	.83	1.90	1.87	2.53	9.19	8.70
91	1143	2175.7	2.58	3.32	3.68	95	38.0	2320	2172.7	9.14	9.14	606	606	36.9	39.7	410	191165	174	37.4	2120	1177	.83	1.87	1.84	2.53	9.19	8.70
92	1150	2176.0	2.30	3.46	3.85	96	38.9	2320	2173.2	9.14	9.10	606	606	36.9	40.0	409	191780	174	37.5	1730	1178	.84	1.92	1.89	2.53	9.19	8.70
93	1155	2176.3	4.19	3.58	3.93	96	38.2	2320	2173.4	9.13	9.10	605	606	36.9	40.0	408	192232	174	37.6	1423	1178	.84	1.74	1.71	2.53	9.20	8.70
94	1201	2176.6	2.73	3.58	3.85	96	38.9	2310	2173.6	9.12	9.12	607	607	37.0	39.9	406	192807	175	37.7	1867	1179	.84	1.87	1.84	2.53	9.21	8.70
95	1208	2176.9	2.58	3.51	3.99	96	37.8	2310	2174.0	9.13	9.13	606	606	37.0	39.9	405	193480	175	37.8	1983	1180	.84	1.87	1.84	2.53	9.21	8.70
96	1214	2177.2	2.85	3.63	3.99	96	39.6	2330	2174.1	9.12	9.13	607	607	37.0	40.1	403	194091	175	37.9	1691	1181	.85	1.87	1.84	2.54	9.21	8.70
97	1220	2177.5	3.11	3.57	3.95	96	39.0	2330	2174.3	9.13	9.13	607	607	37.0	40.2	401	194650	176	38.0	1750	1182	.85	1.83	1.80	2.54	9.22	8.70

Data Printed at time 20:19 Date Oct 9 '85
Data Recorded at time 12:26 Date Sep 27 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM
98	1226	2177.8	2.89	3.49	3.81	96	38.2	2330	2174.7	9.13	9.13	608	608	37.0	40.2	400	195212	176	38.1	1624	1182	.85	1.84	1.81	2.54	9.21	8.
99	1232	2178.1	3.05	3.47	3.81	96	39.4	2340	2174.8	9.16	9.13	608	608	36.9	40.1	400	195785	176	38.2	1698	1183	.85	1.84	1.81	2.54	9.21	8.7
100	1240	2178.4	2.28	3.38	3.83	95	38.4	2350	2175.0	9.14	9.14	609	609	36.9	40.2	395	196594	176	38.3	3286	1186	.86	1.91	1.88	2.54	9.21	8.7
101	1244	2178.7	3.64	3.40	3.75	96	38.7	2350	2175.1	9.14	9.14	610	610	36.9	40.2	393	196976	177	38.4	1089	1185	.86	1.78	1.75	2.54	9.21	8.7
102	1248	2179.0	4.40	3.39	3.82	96	38.6	2350	2175.3	9.13	9.14	611	611	37.0	40.2	392	197313	177	38.5	1024	1185	.86	1.73	1.70	2.54	9.21	8.7
103	1255	2179.3	2.47	3.41	3.83	95	39.5	2360	2175.7	9.14	9.14	611	611	36.9	40.3	392	198018	177	38.6	1429	1186	.86	1.90	1.87	2.54	9.21	8.70
104	1303	2179.6	2.23	3.33	3.74	95	38.8	2350	2176.2	9.14	9.15	612	612	37.2	40.3	394	198799	178	38.7	2191	1188	.87	1.92	1.89	2.54	9.21	8.70
105	1310	2179.9	2.70	3.40	3.75	96	38.7	2360	2176.5	9.13	9.15	611	611	37.2	40.6	392	199474	178	38.8	1886	1189	.87	1.87	1.84	2.54	9.21	8.7
106	1320	2180.2	1.87	3.35	3.71	96	40.5	2360	2177.1	9.14	9.15	611	611	37.3	40.5	394	200367	178	39.0	2618	1191	.87	2.00	1.97	2.54	9.21	8.7
107	1327	2180.6	2.44	3.33	3.69	96	39.6	2350	2177.4	9.13	9.16	610	610	37.4	40.7	390	201113	179	39.1	2230	1193	.88	1.91	1.88	2.54	9.21	8.70
108	1334	2180.9	2.90	3.31	3.62	97	39.4	2350	2177.7	9.13	9.15	610	610	37.5	40.7	392	201714	179	39.2	1717	1194	.88	1.86	1.83	2.54	9.21	8.70
109	1343	2181.1	1.94	3.22	3.65	96	38.6	2350	2178.1	9.14	9.17	609	609	37.5	40.8	388	202587	179	39.4	2669	1196	.88	1.96	1.93	2.54	9.21	8.70
110	1350	2181.5	2.69	3.31	3.67	96	38.3	2340	2178.5	9.12	9.15	610	610	37.5	40.7	388	203234	180	39.5	1771	1197	.89	1.86	1.83	2.54	9.21	8.7
111	1356	2181.8	2.68	3.29	3.59	96	38.7	2340	2178.9	9.15	9.14	610	610	37.6	40.7	388	203887	180	39.6	1530	1198	.89	1.87	1.84	2.54	9.21	8.7
112	1404	2182.1	2.40	3.31	3.64	96	37.8	2340	2179.2	9.14	9.16	610	610	37.6	41.0	383	204628	180	39.7	1892	1200	.89	1.89	1.86	2.54	9.21	8.7
113	1416	2182.4	3.22	3.31	3.70	96	38.1	2380	2179.6	9.15	9.17	612	612	37.7	40.9	381	205302	180	39.9	1733	1201	.90	1.81	1.78	2.54	9.21	8.7
114	1421	2182.7	3.03	3.41	3.83	98	37.8	2380	2179.8	9.13	9.16	616	616	37.8	40.9	370	205830	181	39.9	1748	1202	.90	1.83	1.80	2.54	9.21	8.7
115	1428	2183.0	2.67	3.45	3.83	97	37.2	2380	2180.0	9.13	9.16	615	615	37.8	40.9	365	206489	181	40.1	2301	1203	.90	1.85	1.82	2.54	9.21	8.7
116	1433	2183.3	3.59	3.47	3.82	97	37.5	2370	2180.2	9.12	9.18	614	614	37.9	40.8	364	206976	181	40.1	1225	1203	.90	1.77	1.74	2.54	9.21	8.7
117	1441	2183.6	2.48	3.43	3.82	97	36.9	2380	2180.6	9.13	9.16	615	615	37.7	40.8	361	207687	182	40.3	1944	1204	.91	1.87	1.84	2.54	9.21	8.7
118	1448	2183.9	2.51	3.45	3.80	98	37.9	2380	2180.8	9.14	9.19	613	613	37.6	41.0	360	208400	182	40.4	1960	1206	.91	1.88	1.85	2.54	9.21	8.7
119	1452	2184.2	3.67	3.34	3.76	98	38.4	2390	2181.0	9.13	9.19	613	613	37.6	41.0	360	208839	182	40.5	1287	1206	.91	1.78	1.75	2.55	9.21	8.7
120	1459	2184.5	2.89	3.38	3.79	98	37.4	2380	2181.3	9.15	9.19	613	613	37.6	41.0	359	209515	183	40.6	3223	1207	.92	1.84	1.80	2.55	9.21	8.7
121	1508	2184.8	2.11	3.36	3.73	97	37.8	2390	2181.7	9.15	9.17	613	613	37.7	41.0	359	210355	183	40.7	2061	1209	.92	1.93	1.90	2.55	9.21	8.7
122	1515	2185.1	2.63	3.25	3.74	98	37.7	2390	2182.0	9.15	9.17	613	613	37.7	41.1	355	211036	183	40.8	2116	1210	.92	1.87	1.84	2.55	9.21	8.7
123	1522	2185.4	2.38	3.31	3.60	98	38.4	2380	2182.4	9.17	9.15	614	614	37.8	41.3	352	211718	183	40.9	2188	1211	.92	1.91	1.87	2.55	9.21	8.7
124	1529	2185.7	2.81	3.29	3.64	98	36.9	2340	2182.5	9.16	9.16	608	608	37.9	41.2	353	212344	184	41.0	1695	1212	.93	1.84	1.80	2.55	9.21	8.7
+ Pull out of hole at 7173' due to low ROP.																											
+ NB#12 SMITH F3 12.25" with 3x15 jets. Start depth 7173' (2186.4m).																											
129	2353	2187.0	2.24	2.93	3.28	79	20.7	1590	2186.3	9.18	9.21	466	534	29.0	37.4	373	1447	.61	.3	2392	31055	.01	1.55	1.56	2.55	9.31	8.70
	Date	Sep 28 '85																									
130	0000	2187.3	2.70	2.95	3.23	79	28.5	1940	2186.3	9.18	9.17	544	608	29.6	37.3	366	1979	.91	.4	2357	22091	.01	1.64	1.65	2.55	9.31	8.70
131	0011	2187.6	1.51	2.99	3.31	79	31.6	2100	2186.3	9.18	9.12	572	608	31.3	38.2	360	2839	1.21	.6	3122	16766	.01	1.85	1.86	2.55	9.31	8.70
132	0019	2187.9	2.07	3.06	3.37	80	32.9	2340	2186.3	9.19	9.11	608	635	31.9	38.4	400	3483	1.52	.7	2342	13839	.02	1.78	1.79	2.55	9.30	8.70
133	0024	2188.2	3.72	3.14	3.43	80	32.8	2350	2186.3	9.15	9.03	606	585	31.4	39.2	439	3907	1.82	.8	1659	11989	.02	1.63	1.64	2.55	9.30	8.70
134	0030	2188.5	3.05	3.04	3.35	80	33.3	2310	2186.3	9.17	8.81	603	641	30.8	39.8	474	4348	2.13	.9	1650	10298	.02	1.69	1.70	2.55	9.30	8.70
135	0037	2188.8	2.60	2.98	3.39	79	33.8	2290	2186.3	9.17	9.27	602	725	30.7	39.6	476	4945	2.43	1.0	1982	9275	.02	1.74	1.75	2.55	9.29	8.70
136	0042	2189.1	3.43	3.07	3.37	79	33.1	2310	2186.3	9.17	9.15	602	666	31.4	39.4	477	5367	2.73	1.1	1707	8511	.03	1.65	1.66	2.55	9.29	8.70
137	0048	2189.4	2.77	3.03	3.36	80	33.7	2310	2186.4	9.14	9.25	602	582	32.0	39.3	470	5858	3.05	1.2	2116	7719	.03	1.72	1.73	2.55	9.29	8.70
138	0056	2189.7	2.34	3.12	3.35	79	33.6	2340	2186.8	9.15	9.25	606	584	32.7	39.0	466	6478	3.35	1.3	2050	7212	.03	1.76	1.77	2.55	9.28	8.70
139	0103	2190.0	2.77	3.05	3.31	80	35.1	2350	2187.1	9.13	9.33	609	582	33.3	38.9	463	7004	3.66	1.4	2044	6762	.03	1.74	1.75	2.55	9.28	8.70
140	0110	2190.3	2.49	3.05	3.36	80	34.1	1520	2187.4	9.15	9.33	498	489	33.9	38.9	464	7589	3.96	1.6	2302	6395	.04	1.76	1.77	2.55	9.27	8.70
141	0116	2190.6	3.41	3.09	3.38	81	35.6	1530	2187.5	9.18	9.37	480	467	34.3	38.8	463	8045	4.26	1.7	1625	6054	.04	1.70	1.71	2.55	9.26	8.70
142	0122	2190.9	2.77	3.07	3.41	84	35.2	1770	2187.7	9.14	9.36	522	500	34.7	38.5	461	8572	4.57	1.8	1662	5762	.04	1.76	1.77	2.56	9.26	8.70
143	0131	2191.2	2.25	3.07	3.40	83	35.6	2390	2188.1	9.12	9.37	613	571	35.1	38.7	454	9343	4.86	1.9	2230	5590	.05	1.82	1.83	2.55	9.27	8.70
144	0138	2191.5	2.21	2.99	3.38	83	35.0	2380	2188.5	9.12	9.36	613	559	35.3	38.7	449	9932	5.18	2.0	2147	5345	.05	1.82	1.83	2.56	9.26	8.70
145	0145	2191.8	2.63	2.93	3.24	82	35.1	2370	2188.8	9.10	9.36	613	556	35.7	39.6	446	10483	5.49	2.2	1984	5149	.05	1.77	1.78	2.56	9.25	8.70
146	0205	2192.1	2.28	3.04	3.47	86	35.7	1980	2189.4	9.11	9.32	557	508	36.0	38.7	453	11227	5.79	2.3	1954	5004	.06	1.83	1.84	2.56	9.24	8.70
147	0211	2192.4	3.28	3.06	3.41	87	36.2	1970	2189.7	9.14	9.32	557	485	35.7	39.0	449	11723	6.07	2.4	2117	4891	.06	1.75	1.75	2.56	9.23	8.70
148	0218	2192.7	2.47	3.01	3.32	84	37.1	2020	2190.0	9.14	9.33	557	494	34.0	39.1	506	12342	6.38	2.5	1832	4713	.06	1.83	1.83	2.56	9.23	8.70

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Data Recorded at time 02:25 Date Sep 28 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST FM PR
149	0225	2193.0	2.62	3.04	3.34	85	37.6	1970	2190.2	9.15	9.34	557	507	34.4	39.0	502	12925	6.69	2.6	1814	4579	.06	1.82	1.83	2.56	9.23	8.70
150	0232	2193.3	2.44	2.98	3.34	84	37.5	1930	2190.6	9.10	9.35	557	508	34.6	38.9	500	13543	7.01	2.8	2042	4459	.07	1.84	1.84	2.56	9.23	8.70
151	0239	2193.6	2.65	3.00	3.27	84	37.8	1960	2190.9	9.14	9.37	554	518	34.6	39.0	498	14127	7.30	2.9	1975	4364	.07	1.82	1.83	2.56	9.23	8.70
152	0246	2194.0	2.86	3.17	3.46	83	37.1	1970	2191.1	9.12	9.40	556	509	34.7	39.1	496	14660	7.59	3.0	1928	4263	.07	1.79	1.79	2.56	9.23	8.70
153	0250	2194.3	4.52	3.27	3.68	84	37.9	1930	2191.3	9.11	9.39	694	501	34.8	39.3	495	14993	7.90	3.0	1233	4142	.07	1.66	1.67	2.56	9.24	8.70
154	0258	2194.6	3.25	3.19	3.54	79	41.3	2350	2191.6	9.10	9.40	609	563	35.4	39.2	497	15429	8.21	3.1	1433	4041	.08	1.79	1.80	2.56	9.23	8.70
155	0301	2194.9	5.17	3.17	3.49	79	42.2	2330	2191.7	9.11	9.41	609	560	35.6	39.3	490	15707	8.53	3.2	1262	3949	.08	1.67	1.67	2.56	9.23	8.70
156	0306	2195.2	3.64	3.15	3.56	78	42.0	2340	2191.9	9.11	9.42	609	556	35.8	39.5	487	16099	8.84	3.3	1210	3834	.08	1.76	1.77	2.56	9.23	8.70
157	0311	2195.5	3.66	3.20	3.51	78	42.1	2350	2192.0	9.11	9.42	609	563	35.9	39.8	487	16490	9.14	3.4	1380	3752	.08	1.76	1.77	2.56	9.23	8.70
158	0315	2195.8	4.53	3.17	3.46	79	42.0	2330	2192.1	9.14	9.42	610	543	36.0	40.1	485	16832	9.45	3.4	1224	3666	.08	1.70	1.70	2.56	9.23	8.70
159	0320	2196.1	4.31	3.25	3.59	79	43.2	2330	2192.3	9.11	9.44	608	562	36.2	40.2	485	17161	9.75	3.5	1147	3592	.08	1.73	1.74	2.56	9.24	8.70
160	0324	2196.4	3.75	3.29	3.64	79	42.5	2330	2192.5	9.11	9.42	607	574	36.3	39.8	481	17514	10.1	3.6	1385	3519	.09	1.76	1.77	2.56	9.23	8.70
161	0328	2196.7	4.87	3.28	3.60	79	41.7	2340	2192.7	9.13	9.42	608	558	36.5	40.2	480	17830	10.4	3.6	1121	3450	.09	1.68	1.68	2.56	9.24	8.70
162	0333	2197.0	3.51	3.18	3.55	79	41.7	2340	2192.9	9.12	9.42	610	555	36.6	40.3	478	18209	10.7	3.7	1359	3387	.09	1.77	1.78	2.56	9.24	8.70
163	0338	2197.3	4.03	3.22	3.75	79	42.1	2340	2193.2	9.11	9.22	609	514	36.8	39.7	478	18588	11.0	3.8	1319	3332	.09	1.74	1.74	2.56	9.23	8.70
164	0343	2197.6	3.79	3.14	3.49	79	42.2	2340	2193.4	9.11	9.24	609	531	36.9	40.1	477	18964	11.3	3.9	1591	3284	.09	1.76	1.76	2.56	9.24	8.70
165	0348	2197.9	3.44	3.16	3.51	79	41.7	2350	2193.6	9.11	9.37	609	564	37.1	40.4	473	19357	11.6	4.0	1424	3225	.10	1.78	1.79	2.56	9.24	8.70
166	0352	2198.2	4.74	3.18	3.46	79	42.1	2350	2193.8	9.09	9.38	609	556	37.1	40.3	473	19660	11.9	4.0	997	3170	.10	1.69	1.70	2.57	9.24	8.70
167	0356	2198.5	4.29	3.16	3.44	79	41.7	2340	2194.2	9.09	9.39	610	557	37.2	40.5	471	20010	12.2	4.1	1210	3124	.10	1.71	1.72	2.56	9.24	8.70
168	0400	2198.8	4.72	3.16	3.48	78	42.2	2340	2194.3	9.10	9.41	609	553	37.4	40.4	470	20297	12.5	4.2	1022	3069	.10	1.69	1.70	2.57	9.23	8.70
169	0405	2199.1	3.62	3.10	3.34	79	41.7	2340	2194.7	9.12	9.43	609	551	37.5	40.6	467	20711	12.8	4.3	2295	3032	.10	1.76	1.77	2.57	9.23	8.70
170	0410	2199.4	3.59	3.05	3.41	79	41.7	2330	2195.0	9.12	9.43	609	546	37.6	40.4	468	21070	13.1	4.3	1335	2992	.10	1.76	1.77	2.57	9.23	8.70
171	0413	2199.8	5.37	3.11	3.39	78	42.4	2340	2195.2	9.12	9.42	610	513	37.7	40.6	469	21336	13.4	4.4	1032	2946	.11	1.66	1.66	2.57	9.23	8.70
172	0418	2200.0	3.11	3.07	3.38	78	42.9	2340	2195.6	9.16	9.44	610	509	37.7	40.6	467	21736	13.7	4.5	1480	2908	.11	1.82	1.83	2.57	9.23	8.70
173	0423	2200.4	3.84	3.09	3.35	78	42.1	2320	2195.9	9.13	9.43	610	531	37.9	40.9	466	22108	14.0	4.6	1362	2875	.11	1.75	1.76	2.57	9.23	8.70
174	0427	2200.7	3.98	3.07	3.45	78	42.8	2340	2196.2	9.16	9.45	610	536	37.9	40.8	465	22457	14.3	4.6	1388	2838	.11	1.75	1.76	2.57	9.23	8.70
175	0431	2201.0	4.63	3.06	3.47	78	42.4	2350	2196.5	9.14	9.45	612	530	38.0	41.1	464	22765	14.6	4.7	1134	2801	.11	1.70	1.71	2.57	9.23	8.70
176	0436	2201.3	3.77	3.02	3.32	79	41.8	2340	2196.8	9.14	9.47	610	536	38.1	41.0	461	23148	14.9	4.8	1421	2772	.11	1.75	1.76	2.57	9.23	8.70
177	0443	2201.6	3.79	2.33	3.24	78	34.1	2290	2197.1	9.14	9.46	596	511	38.1	41.1	473	23303	15.2	4.8	1387	2730	.11	1.76	1.77	2.57	9.23	8.70
178	0444	2201.9	4.01	3.04	3.26	79	39.6	2360	2197.2	9.20	9.32	603	532	38.1	41.1	469	23367	15.5	4.8	1342	2681	.11	1.75	1.76	2.57	9.24	8.70
179	0448	2202.2	4.55	3.05	3.32	79	41.7	2360	2197.4	9.20	9.32	611	549	38.1	41.0	460	23678	15.8	4.9	1501	2651	.12	1.70	1.70	2.57	9.24	8.70
180	0452	2202.5	3.88	2.99	3.39	80	42.1	2350	2197.7	9.19	9.33	611	537	38.0	40.8	455	24048	16.1	5.0	1409	2624	.12	1.75	1.76	2.57	9.24	8.70
181	0458	2202.8	3.02	3.16	3.54	79	43.3	2350	2198.1	9.20	9.33	611	527	37.7	41.2	456	24478	16.5	5.1	1649	2602	.12	1.84	1.84	2.57	9.25	8.70
182	0502	2203.1	4.85	3.08	3.38	79	42.4	2360	2198.4	9.20	9.33	610	528	37.7	41.2	456	24803	16.8	5.1	1153	2578	.12	1.68	1.69	2.57	9.25	8.70
183	0507	2203.4	3.32	3.10	3.43	79	41.5	2340	2198.8	9.20	9.33	610	520	37.9	41.3	453	25233	17.1	5.2	1413	2554	.12	1.78	1.79	2.57	9.26	8.70
184	0512	2203.7	3.02	3.09	3.52	79	41.9	2350	2199.1	9.18	9.32	610	508	37.8	41.3	453	25619	17.4	5.3	1445	2533	.13	1.81	1.82	2.57	9.26	8.70
185	0516	2204.0	3.45	3.17	3.44	78	42.0	2350	2199.3	9.18	9.33	610	529	37.7	41.4	450	25877	17.7	5.3	1643	2505	.13	1.78	1.79	2.57	9.27	8.70
186	0520	2204.3	3.96	3.13	3.53	78	42.8	2310	2199.7	9.14	9.31	610	521	38.1	41.4	449	26237	18.0	5.4	1638	2484	.13	1.74	1.75	2.57	9.28	8.70
187	0525	2204.6	4.14	3.11	3.46	79	42.3	2340	2199.9	9.08	9.32	609	525	38.3	41.2	447	26583	18.3	5.5	1254	2463	.13	1.72	1.73	2.57	9.28	8.70
188	0529	2204.9	4.41	3.21	3.51	79	42.9	2350	2200.2	9.13	9.30	611	524	38.5	41.4	446	26933	18.6	5.6	1240	2443	.13	1.71	1.72	2.58	9.28	8.70
189	0533	2205.2	4.22	3.13	3.51	79	42.7	2350	2200.5	9.15	9.30	610	523	38.5	41.5	444	27272	18.9	5.6	1144	2422	.13	1.72	1.73	2.57	9.29	8.70
190	0536	2205.5	3.19	3.11	3.40	79	42.3	2350	2200.7	9.14	9.29	611	535	38.6	41.5	443	27490	19.2	5.7	1543	2396	.13	1.81	1.85	2.58	9.29	8.70
191	0542	2205.9	3.59	3.16	3.47	79	42.6	2350	2201.1	9.14	9.31	610	515	38.7	41.7	442	27912	19.5	5.8	1261	2382	.14	1.77	1.77	2.58	9.28	8.70
192	0551	2206.2	4.92	3.12	3.59	81	41.3	2340	2201.7	9.16	9.31	607	470	38.9	41.6	446	28184	19.8	5.8	1142	2364	.14	1.67	1.67	2.58	9.28	8.70
193	0555	2206.4	4.14	3.24	3.56	81	40.4	2350	2202.1	9.20	9.31	607	499	38.9	41.7	443	28520	20.1	5.9	1122	2341	.14	1.71	1.71	2.58	9.28	8.70
194	0559	2206.8	4.31	3.15	3.53	80	41.2	2350	2202.4	9.20	9.32	607	494	38.9	41.8	441	28875	20.4	6.0	1225	2324	.14	1.70	1.71	2.58	9.28	8.70
195	0604	2207.1	4.03	3.18	3.45	80	41.3	2340	2202.7	9.15	9.29	608	499	38.9	41.7	439	29238	20.7	6.1	1377	2309	.14	1.72	1.73	2.58	9.28	8.70
196	0608	2207.4	4.82	3.10	3.47	81	41.0	2330	2202.9	9.17	9.32	607	514	39.0	41.9	439	29544	21.0	6.1	1084	2291	.14	1.67	1.67	2.58	9.28	8.70
197	0611	2207.7	5.28	3.13	3.45	80	41.0	2330	2203.1	9.18	9.33	607	524	39.0	41.8	435	29812	21.3	6.2	825	2270	.15	1.64	1.64	2.58	9.28	8.70
198	0615	2208.0	4.62	3.11	3.56	81	40.3	2330	2203.4	9.15	9.34	607	507	39.1	41.6	435	30131	21.6	6.2	1002	2253	.15	1.67	1.68	2.58	9.28	8.70

AMOCO AUST. Tilana No.1

329171

Data Printed at time 20:27 Date Oct 9 '85
Data Recorded at time 06:19 Date Sep 28 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
199	0619	2203.3	4.70	3.04	3.38	82	40.5	2320	2203.6	9.14	9.34	607	495	39.2	41.9	433	30445	21.9	6.3	740	2236	.15	1.67	1.68	2.58	9.28	8.70
200	0623	2203.6	4.02	2.97	3.32	80	40.8	2330	2204.0	9.13	9.33	607	507	39.2	42.2	433	30809	22.2	6.4	1086	2223	.15	1.72	1.72	2.58	9.28	8.70
201	0629	2203.9	3.07	2.97	3.39	81	40.5	2340	2204.4	9.16	9.35	606	513	39.3	42.6	433	31296	22.5	6.5	1368	2216	.15	1.79	1.80	2.58	9.28	8.70
202	0634	2209.2	3.58	2.96	3.31	80	41.3	2340	2204.7	9.15	9.36	606	509	39.5	42.5	431	31704	22.8	6.6	1515	2206	.16	1.76	1.76	2.58	9.28	8.70
203	0640	2209.5	3.32	2.91	3.26	80	41.4	2340	2205.1	9.19	9.36	607	510	39.7	42.5	428	32142	23.2	6.7	1600	2195	.16	1.78	1.79	2.58	9.28	8.70
204	0644	2209.8	4.71	2.87	3.19	81	41.2	2330	2205.4	9.16	9.37	607	515	39.7	42.5	427	32449	23.5	6.7	1067	2180	.16	1.68	1.68	2.58	9.27	8.70
205	0650	2210.1	2.96	2.92	3.19	80	41.7	2330	2205.9	9.17	9.38	608	493	39.9	42.4	425	32945	23.7	6.8	1777	2178	.16	1.82	1.82	2.58	9.28	8.70
206	0656	2210.4	2.93	2.87	3.17	80	40.9	2340	2206.1	9.17	9.39	608	514	40.0	42.5	426	33435	24.0	6.9	1623	2170	.16	1.81	1.81	2.58	9.28	8.70
207	0704	2210.7	2.96	2.86	3.28	82	39.5	2360	2206.5	9.15	9.38	538	470	40.1	42.6	436	33767	24.4	7.0	1880	2157	.17	1.82	1.83	2.58	9.28	8.70
208	0706	2211.0	2.72	2.91	3.22	85	40.4	2360	2206.6	9.15	9.38	610	514	40.1	42.6	429	33910	24.7	7.0	1967	2133	.17	1.89	1.90	2.58	9.29	8.70
209	0712	2211.3	2.72	2.97	3.26	83	40.7	2350	2207.1	9.15	9.41	609	614	39.9	42.6	420	34461	25.0	7.1	2391	2129	.17	1.84	1.84	2.58	9.29	8.70
210	0717	2211.7	4.00	3.00	3.32	83	42.2	2340	2207.5	9.10	9.40	609	629	39.8	42.7	417	34872	25.3	7.2	1441	2123	.17	1.75	1.75	2.59	9.28	8.70
211	0723	2211.9	3.05	2.91	3.27	83	42.1	2340	2207.9	9.15	9.41	610	613	39.8	42.5	416	35325	25.6	7.3	1384	2113	.17	1.83	1.83	2.58	9.28	8.70
212	0730	2212.2	2.61	2.97	3.29	84	41.8	2330	2208.4	9.12	9.40	609	632	39.8	42.8	414	35905	25.9	7.4	1694	2110	.18	1.87	1.87	2.59	9.28	8.70
213	0734	2212.5	4.01	3.00	3.35	83	41.3	2330	2208.7	9.14	9.40	609	610	39.8	42.8	411	36280	26.2	7.5	1231	2100	.18	1.74	1.74	2.59	9.27	8.70
214	0739	2212.8	3.82	3.11	3.62	82	41.4	2340	2209.0	9.14	9.41	609	605	39.9	43.1	413	36673	26.5	7.6	1205	2091	.18	1.75	1.75	2.59	9.27	8.70
215	0743	2213.2	5.48	3.24	3.66	82	41.3	2340	2209.1	9.11	9.42	610	602	40.0	43.1	412	36947	26.8	7.6	897	2078	.18	1.64	1.64	2.59	9.27	8.70
216	0747	2213.5	3.73	3.24	3.66	82	41.3	2350	2209.4	9.15	9.42	609	586	40.0	43.0	411	37349	27.1	7.7	1280	2070	.18	1.75	1.76	2.59	9.27	8.70
217	0751	2213.8	5.30	3.25	3.73	82	40.8	2350	2209.7	9.16	9.43	609	585	40.1	43.0	409	37675	27.4	7.8	1170	2059	.18	1.65	1.65	2.59	9.27	8.70
218	0754	2214.1	5.04	3.28	3.55	81	41.1	2350	2209.9	9.15	9.43	610	604	40.2	43.1	409	37923	27.7	7.8	945	2045	.19	1.66	1.66	2.59	9.27	8.70
219	0800	2214.4	3.68	3.25	3.64	82	41.8	2350	2210.1	9.13	9.41	610	594	40.3	42.9	408	38348	28.0	7.9	1439	2041	.19	1.76	1.77	2.59	9.27	8.70
220	0803	2214.7	4.93	3.32	3.58	81	41.0	2350	2210.3	9.12	9.41	610	596	40.4	43.3	406	38636	28.3	8.0	992	2027	.19	1.67	1.67	2.59	9.26	8.70
221	0806	2215.0	6.18	3.26	3.56	81	42.5	2360	2210.5	9.14	9.42	610	637	40.4	43.2	404	38876	28.7	8.0	713	2014	.19	1.62	1.62	2.59	9.26	8.70
222	0811	2215.3	4.23	3.30	3.67	82	41.3	2360	2210.9	9.16	9.43	610	583	40.5	43.3	405	39240	28.9	8.1	1258	2008	.19	1.72	1.72	2.59	9.26	8.70
223	0813	2215.6	6.00	3.35	3.68	81	41.1	2360	2211.0	9.14	9.41	611	609	39.4	43.2	402	39454	29.3	8.1	702	1993	.19	1.61	1.61	2.59	9.26	8.70
224	0818	2215.9	3.86	3.30	3.72	82	41.5	2360	2211.3	9.14	9.42	611	611	39.6	43.0	401	39854	29.6	8.2	1148	1986	.20	1.75	1.75	2.59	9.26	8.70
225	0823	2216.2	3.87	3.27	3.64	82	41.6	2360	2211.6	9.15	9.25	611	601	39.8	43.5	401	40239	29.9	8.3	1300	1981	.20	1.75	1.75	2.59	9.26	8.70
226	0826	2216.5	5.64	3.20	3.52	82	41.2	2360	2211.7	9.14	9.26	611	611	39.9	43.8	400	40504	30.2	8.4	881	1969	.20	1.63	1.64	2.59	9.26	8.70
227	0831	2216.8	3.74	3.22	3.54	82	41.3	2360	2211.9	9.12	9.28	611	618	39.8	43.7	398	40901	30.5	8.4	1276	1962	.20	1.75	1.76	2.59	9.26	8.70
228	0836	2217.1	3.51	3.17	3.49	82	41.8	2350	2212.2	9.11	9.29	611	627	39.9	43.7	396	41317	30.8	8.5	1248	1955	.20	1.78	1.78	2.59	9.26	8.70
229	0841	2217.4	3.86	3.07	3.41	82	41.2	2350	2212.5	9.14	9.29	610	634	39.9	44.1	396	41706	31.1	8.6	1207	1949	.20	1.75	1.75	2.59	9.26	8.70
230	0846	2217.7	3.45	3.17	3.65	83	41.8	2360	2212.9	9.14	9.30	610	625	39.8	44.4	395	42141	31.4	8.7	1430	1944	.21	1.79	1.79	2.59	9.26	8.70
231	0851	2218.0	3.41	3.13	3.41	83	42.4	2360	2213.3	9.08	9.33	610	621	39.7	44.6	394	42585	31.7	8.8	1335	1939	.21	1.80	1.80	2.59	9.26	8.70
232	0859	2218.3	2.47	3.08	3.39	83	42.0	2360	2213.8	9.14	9.31	610	632	39.4	45.0	393	43201	32.0	8.9	1996	1940	.21	1.89	1.89	2.60	9.25	8.70
233	0903	2218.6	4.24	3.10	3.43	83	42.3	2370	2214.2	9.13	9.33	610	627	39.8	44.7	390	43557	32.3	9.0	1612	1936	.21	1.74	1.74	2.59	9.26	8.70
234	0908	2218.9	3.29	3.04	3.39	82	42.4	2370	2214.5	9.12	9.35	610	626	40.0	44.8	388	44013	32.6	9.1	1491	1929	.22	1.81	1.81	2.60	9.26	8.70
235	0914	2219.2	3.05	3.05	3.41	82	42.2	2360	2215.1	9.16	9.37	610	622	40.6	45.1	389	44505	32.9	9.2	1654	1927	.22	1.83	1.83	2.60	9.25	8.70
236	0918	2219.6	5.04	3.13	3.49	82	41.2	2360	2215.4	9.14	9.35	610	624	40.8	45.1	387	44803	33.2	9.2	1064	1918	.22	1.67	1.67	2.60	9.26	8.70
237	0921	2219.9	5.35	3.16	3.55	82	41.4	2360	2215.6	9.16	9.36	610	612	41.0	44.9	385	45084	33.5	9.3	966	1909	.22	1.65	1.65	2.60	9.26	8.70
238	0932	2220.2	5.13	3.21	3.59	83	40.9	2400	2216.2	9.13	9.34	613	627	41.9	44.9	387	45430	33.8	9.4	1031	1903	.22	1.66	1.66	2.60	9.25	8.70
239	0935	2220.5	5.97	3.15	3.57	85	39.0	2390	2216.5	9.16	9.34	614	626	41.9	45.5	383	45675	34.1	9.4	759	1893	.22	1.60	1.60	2.60	9.26	8.70
240	0940	2220.8	3.72	3.24	3.55	83	39.5	2380	2216.8	9.14	9.32	613	622	42.1	44.9	379	46081	34.4	9.5	951	1888	.23	1.74	1.74	2.60	9.26	8.70
241	0945	2221.1	4.11	3.20	3.51	83	39.2	2390	2217.1	9.17	9.32	614	629	41.9	45.1	378	46463	34.7	9.6	1133	1883	.23	1.71	1.71	2.60	9.26	8.70
242	0949	2221.4	4.27	3.22	3.57	83	39.4	2380	2217.3	9.14	9.31	613	629	42.4	45.5	376	46818	35.0	9.6	1142	1876	.23	1.70	1.70	2.60	9.25	8.70
243	0953	2221.7	4.16	3.16	3.44	84	39.5	2390	2217.6	9.12	9.34	613	633	42.5	45.6	376	47178	35.4	9.7	1292	1870	.23	1.71	1.71	2.60	9.25	8.70
244	0958	2222.0	4.21	3.12	3.41	84	39.6	2390	2217.9	9.19	9.35	614	630	42.7	45.3	377	47546	35.7	9.8	1205	1865	.23	1.71	1.71	2.60	9.26	8.70
245	1003	2222.3	3.17	3.11	3.53	83	40.4	2390	2218.1	9.18	9.35	614	609	42.9	45.9	374	47979	35.9	9.9	1493	1862	.24	1.80	1.79	2.60	9.26	8.70
246	1008	2222.6	3.76	3.17	3.51	84	39.4	2390	2218.3	9.18	9.36	613	625	42.9	45.6	373	48383	36.3	9.9	1252	1856	.24	1.73	1.73	2.60	9.26	8.70
247	1012	2222.9	3.89	3.06	3.43	85	39.7	2390	2218.7	9.18	9.34	614	608	42.6	45.6	369	48779	36.6	10.0	1390	1852	.24	1.73	1.73	2.60	9.26	8.70
248	1016	2223.2	5.36	3.12	3.52	85	39.7	2390	2218.9	9.16	9.34	614	613	42.5	45.9	367	49066	36.9	10.1	941	1844	.24	1.64	1.64	2.60	9.27	8.70

AMOCO AUST. Tilana No.1 329172 Data Printed at time 20:32 Date Oct 9 '85
Data Recorded at time 10:25 Date Sep 28 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NX	NXB	ECD	EST FM PR
249	1025	2223.5	2.05	2.96	3.41	84	39.8	2400	2219.4	9.19	9.35	614	619	41.7	45.7	336	49813	37.2	10.2	1303	1850	.24	1.91	1.91	2.60	9.27	8.70
250	1030	2223.8	2.89	3.07	3.49	85	40.0	2390	2219.8	9.16	9.35	615	613	41.5	45.5	397	50299	37.5	10.3	1578	1847	.25	1.82	1.82	2.60	9.27	8.70
251	1035	2224.1	3.83	3.12	3.46	84	39.5	2390	2220.0	9.16	9.35	615	586	41.5	45.5	407	50698	37.8	10.4	1254	1842	.25	1.73	1.73	2.60	9.27	8.70
252	1039	2224.4	4.99	3.19	3.51	83	39.2	2390	2220.2	9.20	9.34	615	594	40.8	45.7	412	51002	38.1	10.5	1047	1835	.25	1.64	1.64	2.60	9.28	8.70
253	1042	2224.7	6.38	3.28	3.73	84	37.8	2400	2220.4	9.22	9.33	616	578	40.5	45.3	418	51242	38.4	10.5	708	1828	.25	1.56	1.56	2.60	9.28	8.70
254	1045	2225.0	5.59	3.18	3.47	83	38.9	2390	2220.6	9.16	9.34	615	601	40.2	45.2	425	51515	38.7	10.6	825	1820	.25	1.61	1.61	2.61	9.28	8.70
255	1050	2225.3	3.58	3.06	3.58	83	38.8	2380	2221.0	9.16	9.33	615	611	39.8	45.1	435	51937	39.0	10.6	1171	1816	.25	1.73	1.73	2.60	9.28	8.70
256	1054	2225.7	4.56	3.06	3.52	83	38.9	2390	2221.3	9.17	9.34	614	610	39.6	45.0	443	52294	39.3	10.7	1092	1812	.26	1.66	1.66	2.61	9.29	8.70
257	1058	2226.0	3.96	3.15	3.56	83	39.5	2380	2221.6	9.18	9.37	614	609	39.5	44.8	451	52649	39.6	10.8	1241	1807	.26	1.71	1.71	2.61	9.29	8.70
258	1103	2226.3	4.75	3.13	3.50	83	39.9	2390	2221.9	9.19	9.36	614	588	39.5	44.7	460	52939	39.9	10.9	1193	1802	.26	1.67	1.67	2.61	9.29	8.70
259	1108	2226.6	3.17	3.07	3.53	84	39.2	2390	2222.2	9.20	9.40	615	597	39.5	44.6	488	53437	40.2	10.9	1469	1799	.26	1.77	1.77	2.61	9.29	8.70
260	1112	2226.9	5.01	3.16	3.44	83	39.8	2390	2222.4	9.18	9.43	615	612	39.3	44.9	485	53757	40.5	11.0	1248	1795	.26	1.65	1.65	2.61	9.29	8.70
261	1117	2227.2	3.56	3.10	3.74	84	38.8	2390	2222.8	9.21	9.42	615	606	39.3	44.8	486	54159	40.8	11.1	1586	1790	.27	1.74	1.73	2.61	9.29	8.70
262	1119	2227.5	6.71	3.25	3.58	83	39.0	2380	2222.9	9.20	9.42	615	585	39.3	44.4	485	54399	41.1	11.1	1293	1787	.27	1.55	1.55	2.61	9.30	8.70
263	1125	2227.8	3.36	3.21	3.59	83	39.6	2380	2223.2	9.21	9.43	615	588	39.7	44.2	485	54850	41.4	11.2	1501	1780	.27	1.76	1.76	2.61	9.30	8.70
264	1128	2228.1	5.20	3.02	3.43	84	38.8	2370	2223.4	9.15	9.42	615	603	39.8	44.4	485	55131	41.8	11.3	971	1774	.27	1.63	1.63	2.61	9.30	8.70
265	1133	2228.4	3.60	2.92	3.34	85	40.4	2370	2223.7	9.12	9.44	614	597	40.0	44.7	482	55559	42.1	11.4	1121	1771	.27	1.76	1.75	2.61	9.30	8.70
266	1138	2228.7	3.48	3.06	3.37	84	40.1	2380	2224.0	9.23	9.43	615	602	40.2	44.7	483	55996	42.4	11.5	1305	1769	.27	1.76	1.76	2.61	9.30	8.70
267	1143	2229.0	3.93	3.13	3.41	83	40.6	2380	2224.3	9.19	9.44	615	585	40.1	44.7	483	56393	42.7	11.5	1364	1766	.28	1.73	1.73	2.61	9.30	8.70
268	1148	2229.3	4.16	3.19	3.56	83	40.0	2380	2224.7	9.18	9.40	614	587	40.3	44.8	483	56755	43.0	11.6	1281	1763	.28	1.70	1.70	2.61	9.30	8.70
269	1157	2229.6	5.43	3.04	3.53	82	39.0	2400	2225.2	9.19	9.41	615	597	40.1	43.9	439	57131	43.3	11.7	849	1758	.28	1.61	1.61	2.61	9.29	8.70
270	1202	2229.9	3.63	3.09	3.41	81	38.4	2400	2225.6	9.17	9.40	614	584	40.3	44.2	482	57548	43.6	11.8	1468	1756	.28	1.72	1.72	2.61	9.29	8.70
271	1206	2230.2	4.40	3.12	3.58	82	39.0	2390	2225.9	9.15	9.39	614	593	40.5	44.3	479	57885	43.9	11.8	1146	1752	.28	1.67	1.67	2.61	9.30	8.70
272	1210	2230.5	5.41	3.14	3.64	82	38.2	2400	2226.1	9.19	9.39	614	604	40.5	44.4	480	58156	44.2	11.9	867	1745	.29	1.60	1.60	2.61	9.30	8.70
273	1213	2230.8	4.87	3.19	3.64	81	37.5	2400	2226.4	9.18	9.36	614	530	40.5	44.4	477	58460	44.5	12.0	1095	1741	.29	1.62	1.62	2.61	9.29	8.70
274	1218	2231.1	3.94	3.22	3.73	81	38.5	2400	2226.6	9.13	9.38	615	598	40.6	44.5	480	58833	44.8	12.0	1426	1737	.29	1.69	1.69	2.61	9.30	8.70
275	1219	2231.4	13.1	3.52	4.18	80	38.2	2400	2226.8	9.13	9.38	615	619	40.6	44.5	478	58946	45.1	12.1	454	1728	.29	1.34	1.34	2.61	9.30	8.70
276	1224	2231.7	3.95	3.07	3.90	82	37.5	2410	2227.1	9.17	9.35	615	580	40.7	44.5	479	59321	45.4	12.1	980	1725	.29	1.68	1.68	2.62	9.30	8.70
277	1229	2232.1	4.05	3.22	3.99	81	38.3	2400	2227.5	9.16	9.36	615	576	40.8	44.6	479	59720	45.7	12.2	1463	1723	.29	1.68	1.68	2.61	9.30	8.70
278	1233	2232.4	4.24	3.12	3.56	81	38.5	2400	2227.8	9.18	9.35	615	586	40.8	44.8	479	60068	46.0	12.3	1109	1719	.29	1.67	1.67	2.62	9.30	8.70
279	1237	2232.7	4.48	3.06	3.64	81	39.0	2400	2228.1	9.19	9.37	615	571	40.7	44.7	479	60395	46.3	12.4	1175	1715	.30	1.66	1.66	2.62	9.29	8.70
280	1241	2233.0	4.10	3.11	3.44	81	39.0	2400	2228.3	9.20	9.37	614	565	40.8	44.5	476	60724	46.6	12.4	1159	1711	.30	1.69	1.69	2.62	9.29	8.70
281	1245	2233.3	5.11	3.12	3.74	81	38.9	2400	2228.6	9.22	9.34	614	583	40.7	44.6	477	61013	46.9	12.5	997	1707	.30	1.62	1.62	2.62	9.29	8.70
282	1251	2233.6	3.36	2.91	3.50	81	39.3	2400	2228.9	9.17	9.39	615	581	40.8	45.0	476	61486	47.2	12.6	1536	1706	.30	1.75	1.75	2.62	9.29	8.70
283	1257	2233.9	2.67	2.90	3.31	81	38.9	2400	2229.3	9.17	9.48	614	595	40.8	45.0	476	61998	47.5	12.7	2844	1706	.30	1.81	1.81	2.62	9.29	8.70
284	1301	2234.2	4.14	2.96	3.39	82	38.6	2390	2229.4	9.14	9.50	614	610	40.8	45.1	475	62357	47.9	12.8	1298	1703	.31	1.68	1.68	2.62	9.30	8.70
285	1305	2234.5	5.34	3.20	3.57	81	39.3	2400	2229.7	9.12	9.48	615	596	40.9	45.2	474	62652	48.1	12.8	957	1700	.31	1.61	1.61	2.62	9.30	8.70
286	1311	2234.8	2.59	3.16	3.71	81	39.0	2400	2230.1	9.17	9.52	614	599	41.0	45.0	474	63130	48.5	12.9	1362	1698	.31	1.82	1.82	2.62	9.30	8.70
287	1317	2235.1	2.93	3.33	3.97	81	37.9	2390	2230.7	9.11	9.46	614	593	40.9	45.4	473	63635	48.8	13.0	1666	1698	.31	1.77	1.77	2.62	9.30	8.70
288	1323	2235.4	3.26	3.61	4.24	81	37.6	2400	2231.1	9.15	9.33	615	588	40.8	45.6	472	64088	49.1	13.1	1560	1697	.31	1.74	1.73	2.62	9.29	8.70
289	1327	2235.7	5.11	3.37	4.09	81	37.8	2400	2231.5	9.15	9.33	615	600	40.8	45.6	473	64393	49.4	13.2	1169	1694	.32	1.61	1.61	2.62	9.29	8.70
290	1331	2236.0	3.95	3.45	3.99	81	38.5	2390	2231.8	9.17	9.29	615	595	41.2	45.1	474	64730	49.7	13.3	1438	1691	.32	1.69	1.69	2.62	9.29	8.70
291	1333	2236.3	7.89	3.47	4.16	81	36.9	2400	2231.9	9.17	9.29	614	594	41.2	45.1	473	64917	50.0	13.3	645	1684	.32	1.48	1.48	2.62	9.29	8.70
292	1336	2236.6	5.70	3.57	4.14	81	36.7	2390	2232.1	9.19	9.29	614	588	41.2	45.7	473	65165	50.3	13.3	-714	1678	.32	1.56	1.56	2.62	9.29	8.70
293	1338	2236.9	9.84	3.44	3.93	81	37.8	2390	2232.2	9.19	9.29	613	589	41.2	45.7	474	65310	50.6	13.4	491	1671	.32	1.43	1.42	2.62	9.29	8.70
294	1339	2237.2	16.8	2.95	7.13	79	37.2	2390	2232.3	9.19	9.25	612	570	41.3	45.7	473	65399	50.9	13.4	365	1665	.32	1.26	1.26	2.62	9.29	8.70
295	1341	2237.5	7.37	3.38	4.09	81	37.1	2390	2232.5	9.11	9.27	613	603	41.3	45.6	473	65595	51.2	13.4	501	1658	.32	1.50	1.50	2.62	9.29	8.70
296	1344	2237.8	6.06	3.35	4.01	82	38.6	2390	2232.8	9.16	9.29	613	598	41.3	45.4	470	65837	51.5	13.5	801	1652	.32	1.57	1.57	2.62	9.29	8.70
297	1348	2238.1	5.26	3.48	4.20	82	38.3	2380	2233.0	9.17	9.30	612	596	41.0	45.4	471	66113	51.8	13.5	864	1648	.32	1.61	1.61	2.62	9.29	8.70
298	1350	2238.5	8.85	3.67	4.24	82	38.5	2390	2233.2	9.20	9.29	613	579	41.0	45.5	471	66282	52.1	13.6	668	1643	.32	1.47	1.46	2.63	9.29	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MK	MKB	ECD	P
299	1352	2238.8	7.75	3.92	4.52	81	37.5	2380	2233.4	9.22	9.26	612	576	41.0	45.6	471	66471	52.4	13.6	612	1636	.33	1.49	1.49	2.62	9.29	8.
300	1521	2239.1	7.85	3.45	4.08	82	37.4	1800	2238.8	9.19	9.44	253	466	42.6	48.2	488	66514	52.8	13.6	575	1634	.33	1.48	1.48	2.78	9.32	8.70
301	1525	2239.3	9.32	3.69	4.21	80	36.0	1170	2238.8	9.22	9.40	339	390	41.6	47.2	480	66776	53.0	13.7	850	565	.33	1.34	1.34	2.78	9.82	8.70
302	1528	2239.6	6.25	3.68	4.42	82	34.2	1880	2238.8	9.20	9.34	362	425	41.3	46.6	477	67012	53.3	13.7	1176	566	.33	1.43	1.42	2.78	9.83	8.70
303	1529	2239.9	13.1	3.68	4.12	85	35.2	2000	2238.8	9.20	9.38	528	535	41.3	46.5	475	67129	53.6	13.7	425	565	.33	1.25	1.25	2.78	9.86	8.70
304	1530	2240.3	12.6	3.82	4.46	85	34.7	2030	2238.8	9.22	9.40	560	526	41.2	45.9	473	67251	53.9	13.8	433	565	.33	1.26	1.25	2.78	9.86	8.70
305	1534	2240.6	5.75	3.75	4.33	85	36.0	2070	2238.8	9.24	9.45	571	548	41.2	45.9	473	67518	54.2	13.8	682	566	.33	1.48	1.47	2.78	9.86	8.70
306	1535	2240.9	14.2	3.79	4.16	85	34.6	2070	2238.8	9.22	9.46	572	554	41.1	45.7	470	67626	54.5	13.8	391	565	.33	1.22	1.22	2.78	9.86	8.70
307	1536	2241.2	25.4	3.67	4.36	83	35.4	2080	2238.8	9.22	9.46	573	527	41.1	45.7	469	67685	54.8	13.9	193	565	.33	1.07	1.07	2.78	9.86	8.70
308	1537	2241.5	11.9	3.53	4.07	79	34.9	2070	2238.8	9.22	9.46	573	532	41.1	46.1	469	67815	55.1	13.9	687	564	.33	1.26	1.26	2.78	9.86	8.70
309	1539	2241.8	9.32	3.72	4.09	81	35.0	2070	2238.8	9.19	9.47	572	544	40.9	46.2	468	67958	55.4	13.9	574	564	.33	1.32	1.32	2.78	9.86	8.70
310	1543	2242.1	4.63	3.38	3.86	78	35.5	1760	2238.8	9.18	9.47	663	471	40.6	46.2	468	68262	55.8	14.0	1529	565	.33	1.51	1.51	2.79	9.82	8.70
311	1545	2242.4	10.5	3.27	4.04	73	34.3	1670	2238.8	9.18	9.47	627	478	40.6	46.2	466	68398	56.0	14.0	505	565	.33	1.27	1.27	2.79	9.82	8.70
312	1548	2242.7	4.70	3.38	3.87	78	35.0	2200	2238.8	9.14	9.48	1157	537	40.0	46.0	467	68672	56.4	14.1	857	566	.34	1.49	1.49	2.79	9.86	8.70
313	1553	2243.0	4.35	3.47	3.85	80	34.7	2310	2238.8	9.13	9.47	606	576	39.6	45.7	459	69011	56.7	14.1	1136	567	.34	1.52	1.52	2.79	9.81	8.70
314	1559	2243.3	2.75	3.55	4.08	83	36.9	2300	2238.8	9.18	9.45	605	597	39.3	46.0	457	69558	57.0	14.3	2179	569	.34	1.69	1.68	2.79	9.81	8.70
315	1605	2243.6	3.17	3.49	3.94	83	36.8	2300	2238.8	9.13	9.42	604	603	38.9	45.5	453	70062	57.3	14.4	1626	572	.34	1.65	1.64	2.79	9.80	8.70
316	1608	2243.9	6.90	3.52	4.04	82	37.7	2300	2238.8	9.12	9.45	605	577	38.8	45.6	449	70279	57.6	14.4	969	572	.34	1.45	1.45	2.79	9.80	8.70
317	1618	2244.5	5.08	3.45	7.82	87	35.8	2430	2241.0	9.12	9.38	605	493	39.1	43.1	453	71106	58.2	14.6	279	1352	.38	1.60	1.59	2.65	9.34	8.70
318	1628	2245.0	4.53	3.79	4.03	85	32.3	2420	2241.3	9.12	9.38	611	457	39.1	43.1	470	71541	58.7	14.7	162	1348	.38	1.57	1.57	2.65	9.34	8.70
319	1633	2245.5	4.82	3.86	4.23	85	34.0	2420	2241.5	9.12	9.38	619	449	39.1	43.1	463	72421	59.2	14.8	285	1344	.38	1.58	1.57	2.65	9.34	8.70
320	1638	2246.0	4.80	3.75	4.09	85	31.8	2420	2241.5	9.16	9.36	620	425	38.8	43.0	458	72863	59.7	14.9	241	1339	.38	1.55	1.55	2.65	9.34	8.70
321	1643	2246.5	4.93	3.73	4.30	85	32.6	2390	2241.7	9.16	9.36	620	462	38.8	43.0	450	73303	60.1	15.0	578	1336	.38	1.55	1.55	2.65	9.34	8.70
322	1648	2247.0	5.15	4.16	5.59	81	32.8	2410	2241.9	9.19	9.36	619	499	38.8	42.6	448	74181	60.6	15.2	382	1332	.38	1.54	1.53	2.66	9.34	8.70
323	1653	2247.5	5.19	3.62	7.89	80	30.7	2380	2242.2	9.20	9.38	616	476	38.7	42.9	442	74622	61.1	15.2	4098	1329	.39	1.50	1.50	2.66	9.33	8.70
324	1658	2248.0	5.06	4.26	7.81	78	32.4	2380	2242.3	9.20	9.38	616	480	38.7	42.9	442	74855	61.6	15.2	298	1324	.39	1.52	1.52	2.66	9.33	8.70
325	1708	2248.5	4.80	3.92	5.21	85	32.4	2390	2242.4	9.19	9.41	618	468	38.6	43.4	441	75495	62.1	15.4	332	1320	.39	1.56	1.55	2.66	9.33	8.70
326	1712	2249.0	5.55	3.90	4.69	86	31.8	2400	2242.5	9.19	9.41	618	491	38.6	43.4	438	75975	62.6	15.5	268	1316	.39	1.52	1.51	2.66	9.34	8.70
327	1722	2250.0	17.2	3.86	4.80	86	32.4	2410	2242.7	9.19	9.41	620	531	38.6	43.4	441	76211	63.6	15.6	292	1312	.39	1.22	1.21	2.66	9.34	8.70
328	1726	2251.0	31.8	3.93	7.84	86	32.3	2390	2242.8	9.19	9.44	619	536	38.5	43.5	438	76418	64.6	15.6	248	1307	.39	1.05	1.04	2.66	9.34	8.70
329	1731	2253.0	29.6	4.02	7.76	79	32.0	2420	2242.8	9.19	9.44	618	522	38.5	43.5	435	76858	66.6	15.7	350	1304	.39	1.05	1.04	2.66	9.34	8.70
330	1736	2255.0	22.9	4.37	5.97	84	34.2	2410	2242.8	9.19	9.44	619	559	38.5	43.5	440	77297	68.6	15.7	302	1300	.39	1.15	1.15	2.66	9.34	8.70
331	1748	2258.3	9.99	3.88	7.82	87	35.8	2430	2241.0	9.12	9.38	605	493	39.1	43.1	453	78114	72.0	15.9	279	1352	.38	1.41	1.40	2.65	9.34	8.70
332	1755	2258.6	51.9	3.79	4.03	85	32.3	2420	2241.3	9.12	9.38	611	457	39.1	43.1	470	78163	72.2	15.9	162	1348	.38	.92	.91	2.65	9.34	8.70
333	1756	2258.9	16.6	3.86	4.23	85	34.0	2420	2241.5	9.12	9.38	619	449	39.1	43.1	463	78256	72.5	15.9	285	1344	.38	1.24	1.24	2.66	9.34	8.70
334	1757	2259.2	21.4	3.75	4.09	85	31.8	2420	2241.5	9.16	9.36	620	425	38.8	43.0	458	78327	72.8	16.0	241	1339	.38	1.15	1.14	2.66	9.34	8.70
335	1759	2259.5	8.64	3.73	4.30	85	32.6	2390	2241.7	9.16	9.36	620	462	38.8	43.0	450	78503	73.2	16.0	578	1336	.38	1.40	1.40	2.66	9.34	8.70
336	1801	2259.8	12.7	4.16	5.59	81	32.8	2410	2241.9	9.19	9.36	619	499	38.8	42.6	448	78621	73.5	16.0	382	1332	.38	1.29	1.29	2.66	9.34	8.70
337	1804	2260.1	8.04	5.66	7.89	80	30.7	2380	2242.2	9.20	9.38	616	476	38.7	42.9	442	78797	73.7	16.0	4098	1329	.39	1.38	1.38	2.66	9.33	8.70
338	1804	2260.4	21.9	4.26	7.81	78	32.4	2380	2242.3	9.20	9.38	616	480	38.7	42.9	442	78855	74.1	16.1	298	1324	.39	1.13	1.13	2.66	9.33	8.70
339	1806	2260.7	13.2	3.92	5.21	85	32.4	2390	2242.4	9.19	9.41	618	468	38.6	43.4	441	78968	74.4	16.1	332	1320	.39	1.29	1.28	2.66	9.33	8.70
340	1807	2261.0	17.6	3.90	4.69	86	31.8	2400	2242.5	9.19	9.41	618	491	38.6	43.4	438	79048	74.7	16.1	268	1316	.39	1.21	1.20	2.66	9.34	8.70
341	1808	2261.3	15.6	3.86	4.80	86	32.4	2410	2242.7	9.19	9.41	620	531	38.6	43.4	441	79140	75.0	16.1	292	1312	.39	1.25	1.24	2.66	9.34	8.70
342	1809	2261.6	19.3	3.93	7.84	86	32.3	2390	2242.8	9.19	9.44	619	536	38.5	43.5	438	79209	75.3	16.1	-248	1307	.39	1.19	1.18	2.66	9.34	8.70
343	1810	2261.9	15.2	4.02	7.76	79	32.0	2420	2242.8	9.19	9.44	618	522	38.5	43.5	435	79301	75.6	16.2	350	1304	.39	1.22	1.22	2.66	9.34	8.70
344	1811	2262.2	15.1	4.37	5.97	84	34.2	2410	2242.8	9.19	9.44	619	559	38.5	43.5	440	79394	75.9	16.2	302	1300	.39	1.27	1.26	2.66	9.34	8.70
345	1812	2262.5	17.9	4.46	5.74	84	33.8	2420	2242.9	9.20	9.44	620	554	38.5	43.8	440	79475	76.2	16.2	275	1296	.39	1.22	1.21	2.66	9.34	8.70
346	1813	2262.8	19.7	4.22	7.58	86	33.3	2400	2243.0	9.20	9.44	621	529	38.5	43.8	440	79549	76.5	16.2	259	1291	.39	1.19	1.19	2.66	9.34	8.70
347	1816	2263.2	14.9	4.28	7.87	84	25.8	2430	2243.2	9.20	9.44	621	470	38.4	43.8	445	79655	76.8	16.2	442	1288	.39	1.18	1.17	2.66	9.34	8.70
348	1817	2263.4	14.9	3.97	4.89	91	34.4	2420	2243.3	9.21	9.46	622	502	37.9	44.2	446	79758	77.1	16.2	327	1284	.39	1.29	1.28	2.66	9.34	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
349	1820	2263.8	6.27	3.94	4.41	91	35.7	2410	2243.4	9.18	9.46	621	531	37.8	44.3	446	80032	77.4	16.3	525	1282	.39	1.55	1.54	2.66	9.34	8.70
350	1822	2264.1	7.93	3.80	4.33	91	36.1	2400	2243.5	9.16	9.45	621	574	37.4	44.0	445	80220	77.7	16.3	601	1279	.39	1.49	1.48	2.66	9.34	8.70
351	1824	2264.4	8.97	3.73	4.49	90	35.8	2400	2243.7	9.16	9.45	621	562	37.4	44.0	445	80432	78.0	16.4	587	1277	.39	1.45	1.44	2.66	9.34	8.70
352	1825	2264.7	21.8	4.03	4.86	90	35.4	2400	2243.8	9.16	9.45	620	568	37.4	44.0	444	80474	78.3	16.4	223	1272	.39	1.20	1.19	2.66	9.34	8.70
353	1827	2265.0	8.43	3.97	4.55	91	36.0	2400	2243.9	9.15	9.48	621	570	37.1	44.1	443	80673	78.6	16.4	1363	1270	.39	1.47	1.46	2.67	9.34	8.70
354	1829	2265.3	8.63	3.92	4.40	91	37.2	2400	2244.2	9.15	9.49	621	578	36.8	43.8	439	80854	78.9	16.4	585	1267	.40	1.48	1.47	2.67	9.34	8.70
355	1832	2265.6	7.18	3.77	4.39	90	35.9	2390	2244.8	9.15	9.50	620	596	36.7	43.7	441	81092	79.2	16.5	718	1265	.40	1.51	1.50	2.67	9.34	8.70
356	1834	2265.9	7.62	3.86	4.45	90	37.0	2390	2245.5	9.16	9.49	620	604	36.5	43.6	439	81299	79.6	16.5	669	1262	.40	1.51	1.50	2.67	9.34	8.70
357	1836	2266.2	8.23	3.72	4.32	91	36.2	2390	2246.3	9.16	9.49	620	633	36.5	43.6	437	81493	79.9	16.6	591	1260	.40	1.48	1.47	2.67	9.34	8.70
358	1837	2266.5	18.8	3.91	4.33	90	35.7	2390	2246.7	9.13	9.50	619	617	36.4	43.6	438	81587	80.2	16.6	277	1256	.40	1.24	1.23	2.67	9.34	8.70
359	1838	2266.8	23.5	4.05	4.48	90	34.2	2380	2250.1	9.13	9.50	619	596	36.4	43.6	437	81657	80.5	16.6	205	1253	.40	1.17	1.16	2.67	9.34	8.70
360	1838	2267.1	26.7	4.08	4.55	91	36.3	2380	2250.3	9.13	9.50	619	607	36.4	43.6	436	81719	80.8	16.6	145	1248	.40	1.15	1.14	2.67	9.32	8.70
361	1840	2267.4	13.0	3.89	4.32	91	35.7	2380	2250.7	9.14	9.49	619	625	36.5	43.8	434	81846	81.1	16.6	349	1245	.40	1.35	1.34	2.67	9.32	8.70
362	1848	2267.7	15.2	4.07	4.47	90	34.5	2380	2252.3	9.10	9.58	617	585	36.6	43.5	435	81972	81.4	16.6	351	1242	.40	1.29	1.28	2.67	9.32	8.70
363	1849	2268.0	32.8	3.58	4.14	86	29.8	2400	2252.5	9.10	9.58	618	587	36.6	43.5	435	82015	81.7	16.7	175	1238	.40	1.02	1.01	2.67	9.32	8.70
364	1850	2268.3	13.5	3.76	4.25	86	32.9	2390	2252.9	9.10	9.58	620	591	36.6	43.5	432	82131	82.0	16.7	562	1234	.40	1.29	1.28	2.67	9.32	8.70
365	1851	2268.6	16.3	3.88	4.48	87	32.7	2400	2253.3	9.12	9.58	621	593	36.6	44.1	432	82225	82.3	16.7	361	1232	.40	1.24	1.23	2.67	9.32	8.70
366	1853	2268.9	11.6	3.95	4.27	86	37.5	2390	2253.7	9.12	9.58	620	596	36.6	44.1	429	82348	82.6	16.7	413	1228	.40	1.39	1.38	2.67	9.32	8.70
367	1855	2269.2	9.09	3.74	4.16	86	36.5	2390	2254.3	9.12	9.59	621	613	36.6	44.4	427	82523	82.9	16.8	577	1226	.40	1.44	1.44	2.67	9.32	8.70
368	1858	2269.5	5.37	3.60	4.08	86	36.2	2390	2254.8	9.13	9.60	621	620	36.7	43.7	423	82812	83.2	16.8	962	1225	.41	1.59	1.58	2.67	9.32	8.70
369	1901	2269.8	6.80	3.61	4.29	86	36.4	2390	2255.4	9.12	9.58	620	598	36.9	43.6	423	83044	83.5	16.9	748	1223	.41	1.53	1.52	2.67	9.32	8.70
370	1904	2270.2	5.62	3.58	4.13	86	36.1	2390	2255.7	9.14	9.55	619	599	37.3	43.9	423	83321	83.8	16.9	849	1222	.41	1.57	1.57	2.67	9.32	8.70
371	1909	2270.5	3.90	3.62	4.09	86	37.1	2390	2256.5	9.13	9.54	621	596	37.5	43.9	423	83758	84.1	17.0	1463	1222	.41	1.69	1.68	2.67	9.32	8.70
372	1911	2270.8	8.71	3.59	3.87	86	36.5	2380	2256.8	9.13	9.54	621	577	37.5	43.9	423	83920	84.4	17.0	897	1220	.41	1.46	1.45	2.67	9.32	8.70
373	1917	2271.1	3.09	3.57	4.28	86	37.7	2380	2258.1	9.13	9.51	622	607	37.9	43.7	423	84424	84.7	17.1	1153	1221	.41	1.76	1.76	2.67	9.32	8.70
374	1922	2271.4	3.46	3.78	4.98	86	37.7	2380	2259.2	9.16	9.52	621	568	38.1	43.7	423	84921	85.0	17.2	1820	1222	.42	1.73	1.72	2.67	9.32	8.70
375	1927	2271.7	2.82	3.73	4.20	86	37.3	2390	2259.9	9.14	9.41	621	597	38.4	43.5	423	85326	85.3	17.3	1358	1222	.42	1.78	1.78	2.68	9.31	8.70
376	1932	2272.0	4.24	3.85	4.53	86	36.9	2390	2260.5	9.14	9.23	622	540	38.5	43.8	423	85720	85.6	17.4	961	1222	.42	1.67	1.66	2.68	9.31	8.70
377	1935	2272.3	5.18	3.57	4.14	86	38.3	2390	2261.0	9.15	9.19	622	578	38.5	43.6	423	86021	85.9	17.4	964	1222	.42	1.63	1.62	2.68	9.31	8.70
378	1940	2272.6	3.68	3.43	4.04	86	38.2	2390	2261.5	9.15	9.12	622	570	38.7	43.5	423	86446	86.2	17.5	1253	1222	.42	1.73	1.72	2.68	9.30	8.70
379	1945	2272.9	3.93	3.51	4.13	86	37.3	2380	2262.2	9.13	9.10	621	509	38.7	43.5	423	86943	86.6	17.6	1232	1222	.42	1.69	1.69	2.68	9.30	8.70
380	1949	2273.2	4.43	3.62	3.93	86	37.8	2390	2263.2	9.09	9.10	621	527	38.7	43.4	423	87196	86.9	17.7	1231	1222	.43	1.67	1.66	2.68	9.29	8.70
381	1953	2273.5	3.94	3.48	3.97	86	36.7	2410	2263.4	9.13	9.08	622	567	38.7	43.7	423	87591	87.2	17.7	1194	1222	.43	1.69	1.68	2.68	9.29	8.70
382	1958	2273.8	4.14	3.77	4.76	86	36.3	2390	2264.5	9.16	9.05	622	518	38.8	43.2	423	87966	87.5	17.8	1455	1222	.43	1.67	1.66	2.68	9.28	8.70
383	2003	2274.1	3.41	3.84	4.94	85	35.6	2380	2265.2	9.15	9.00	623	514	38.5	43.1	423	88401	87.8	17.9	1563	1222	.43	1.71	1.70	2.68	9.28	8.70
384	2007	2274.4	4.54	3.51	4.02	86	36.0	2400	2265.7	9.17	8.99	623	559	38.0	43.3	423	88759	88.1	18.0	1266	1223	.43	1.64	1.63	2.68	9.28	8.70
385	2011	2274.7	4.67	3.57	4.07	86	36.2	2390	2266.0	9.15	8.99	623	548	37.6	43.5	366	89082	88.4	18.0	956	1221	.44	1.63	1.63	2.68	9.28	8.70
386	2017	2275.0	3.08	3.84	4.93	86	35.8	2410	2266.6	9.08	8.96	623	608	37.2	43.2	354	89601	88.7	18.1	1313	1223	.44	1.75	1.74	2.68	9.27	8.70
387	2020	2275.3	5.59	3.99	4.80	85	36.9	2390	2266.7	9.06	8.96	621	566	37.0	43.1	364	89850	89.0	18.2	948	1222	.44	1.59	1.58	2.68	9.27	8.70
388	2024	2275.6	4.15	3.59	4.00	86	36.4	2400	2266.9	9.06	8.95	621	513	36.3	43.1	384	90225	89.3	18.2	1459	1222	.44	1.67	1.66	2.68	9.28	8.70
389	2029	2275.9	3.74	3.57	4.03	86	37.5	2390	2267.2	9.05	8.95	621	553	35.6	43.0	407	90633	89.6	18.3	1277	1222	.44	1.71	1.71	2.68	9.28	8.70
390	2033	2276.3	5.26	3.48	3.83	86	36.9	2400	2267.4	9.05	8.98	621	526	34.9	43.1	418	90935	89.9	18.4	794	1221	.44	1.61	1.60	2.68	9.28	8.70
391	2037	2276.6	4.48	3.53	4.45	85	35.9	2400	2267.7	9.06	9.01	622	563	33.4	43.2	429	91283	90.2	18.5	1365	1221	.45	1.64	1.63	2.68	9.28	8.70
392	2039	2276.9	8.85	3.99	4.68	86	36.6	2400	2267.8	9.06	9.00	622	562	32.7	42.9	428	91458	90.5	18.5	-608	1219	.45	1.46	1.45	2.68	9.28	8.70
393	2039	2277.2	51.6	5.24	7.81	84	34.3	2380	2267.9	9.06	9.00	622	560	32.7	42.9	426	91437	90.8	18.5	92	1215	.45	.94	.93	2.68	9.28	8.70
394	2051	2277.5	39.1	3.95	7.68	77	20.9	2420	2268.5	9.06	8.87	628	550	32.9	42.6	420	91549	91.1	18.5	166	1211	.45	.87	.86	2.68	9.27	8.70
395	2052	2277.8	16.8	3.22	5.76	81	30.9	2450	2268.5	9.06	8.87	629	581	32.9	42.6	424	91634	91.4	18.5	245	1208	.45	1.20	1.19	2.68	9.28	8.70
396	2056	2278.1	19.8	3.23	7.93	83	17.1	2450	2268.8	9.03	8.90	628	561	33.8	42.9	421	91703	91.7	18.5	357	1205	.45	1.00	.99	2.68	9.27	8.70
397	2056	2278.4	74.0	2.82	4.33	85	23.0	2450	2268.8	9.08	8.90	628	576	33.8	42.9	420	91723	92.0	18.5	61	1201	.45	.75	.75	2.69	9.27	8.70
398	2056	2278.7	69.6	2.89	3.58	86	30.0	2460	2268.8	9.08	8.90	629	588	33.8	42.9	422	91744	92.4	18.5	68	1197	.45	.83	.82	2.69	9.27	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DKC	NK	NKB	ECD	EST FM PR
399	2056	2279.0	39.7	3.28	3.68	87	32.5	2460	2268.9	9.08	8.90	630	559	33.8	42.9	421	91780	92.7	18.6	116	1194	.45	1.00	.99	2.69	9.27	8.70
400	2100	2279.3	5.37	3.11	3.49	87	32.2	2460	2269.1	9.08	8.88	632	587	34.0	42.9	417	92058	93.0	18.6	1301	1193	.45	1.54	1.53	2.69	9.27	8.70
401	2101	2279.6	11.1	3.50	4.12	87	33.8	2460	2269.2	9.09	8.90	632	594	34.5	42.7	415	92199	93.3	18.6	453	1190	.45	1.37	1.36	2.69	9.27	8.70
402	2104	2279.9	7.30	3.70	6.78	86	33.3	2450	2269.4	9.09	8.90	632	565	34.5	42.7	414	92411	93.6	18.7	934	1189	.45	1.47	1.47	2.69	9.26	8.70
403	2106	2280.2	10.1	4.28	7.55	82	32.3	2430	2269.5	9.09	8.90	631	591	34.5	42.7	411	92561	93.9	18.7	526	1186	.45	1.36	1.35	2.69	9.26	8.70
404	2109	2280.5	5.95	3.11	6.19	85	34.1	2460	2269.7	9.07	8.88	633	551	34.9	42.6	411	92837	94.2	18.8	1506	1186	.45	1.54	1.53	2.69	9.26	8.70
405	2112	2280.8	5.91	3.89	7.50	84	32.3	2450	2269.9	9.08	8.88	632	604	35.3	42.5	408	93096	94.5	18.8	979	1184	.46	1.51	1.51	2.69	9.26	8.70
406	2115	2281.1	6.23	3.60	4.00	87	33.5	2440	2270.1	9.06	8.88	632	581	35.7	42.7	405	93332	94.8	18.9	816	1183	.46	1.52	1.51	2.69	9.25	8.70
407	2118	2281.4	6.19	3.65	3.99	86	33.0	2450	2270.3	9.05	8.89	632	594	36.0	42.8	403	93600	95.1	18.9	851	1182	.46	1.52	1.51	2.69	9.25	8.70
408	2120	2281.7	8.30	3.80	5.43	86	31.3	2440	2270.5	9.05	8.90	632	595	36.3	42.7	402	93788	95.4	18.9	651	1180	.46	1.41	1.41	2.69	9.25	8.70
409	2121	2282.0	15.3	3.69	4.35	87	32.1	2450	2270.5	9.07	8.91	632	586	36.5	42.4	400	93886	95.7	19.0	318	1177	.46	1.26	1.25	2.69	9.25	8.70
410	2124	2282.4	6.14	3.65	4.14	86	31.4	2430	2270.7	9.05	8.90	631	562	36.8	42.3	398	94150	96.0	19.0	773	1176	.46	1.50	1.49	2.69	9.25	8.70
411	2126	2282.7	10.5	3.59	4.00	86	32.2	2430	2270.9	9.05	8.90	630	589	36.8	42.3	395	94298	96.3	19.0	475	1174	.46	1.36	1.35	2.69	9.25	8.70
412	2129	2283.0	5.61	3.52	3.98	86	31.3	2430	2271.1	9.06	8.92	631	565	36.9	42.1	392	94576	96.6	19.1	903	1173	.46	1.52	1.51	2.69	9.25	8.70
413	2131	2283.3	7.42	3.77	4.27	86	33.0	2430	2271.3	9.03	8.90	632	572	37.1	42.2	393	94760	96.9	19.1	648	1171	.46	1.47	1.46	2.69	9.25	8.70
414	2135	2283.6	4.89	3.59	4.05	86	32.6	2430	2271.5	9.03	8.89	631	576	37.3	42.3	389	95090	97.2	19.2	939	1171	.47	1.58	1.57	2.69	9.24	8.70
415	2138	2283.9	6.94	3.57	4.05	86	31.7	2440	2271.7	9.04	8.91	630	549	37.5	42.3	386	95310	97.5	19.2	742	1169	.47	1.47	1.46	2.69	9.24	8.70
416	2141	2284.2	5.94	3.65	5.12	86	31.8	2440	2272.0	9.05	8.91	631	562	37.7	42.3	384	95573	97.8	19.3	792	1168	.47	1.52	1.51	2.69	9.24	8.70
417	2145	2284.5	4.58	3.71	4.39	86	33.9	2420	2272.3	9.05	8.91	631	552	38.1	42.7	380	95923	98.1	19.4	1104	1168	.47	1.62	1.61	2.69	9.23	8.70
418	2149	2284.8	3.81	3.52	4.47	87	32.9	2440	2272.9	9.06	8.91	631	572	38.1	42.6	377	96335	98.4	19.4	1294	1169	.47	1.66	1.65	2.69	9.22	8.70
419	2153	2285.1	5.67	3.40	4.16	87	33.3	2430	2273.0	9.09	8.93	630	588	37.9	42.5	374	96611	98.7	19.5	867	1168	.47	1.55	1.54	2.70	9.22	8.70
420	2157	2285.4	4.21	3.19	3.72	86	32.7	2430	2273.3	9.08	8.88	629	574	38.2	42.4	371	96982	99.1	19.6	1040	1168	.47	1.62	1.62	2.70	9.22	8.70
421	2203	2285.7	3.25	3.24	3.65	86	32.3	2440	2274.9	9.11	8.88	629	525	38.1	42.4	372	97465	99.4	19.7	1601	1169	.48	1.69	1.68	2.70	9.21	8.70
422	2206	2286.0	5.58	3.16	3.65	86	32.1	2430	2275.2	9.11	8.91	629	513	38.1	42.1	365	97748	99.6	19.7	1059	1168	.48	1.54	1.53	2.70	9.21	8.70
423	2218	2286.3	4.97	3.13	3.77	85	30.3	2290	2276.2	9.10	9.07	550	416	38.3	42.4	379	98084	100	19.8	1075	1168	.48	1.54	1.54	2.70	9.19	8.70
424	2219	2286.6	13.3	3.19	3.54	81	34.2	2290	2276.3	9.11	9.18	608	473	38.0	42.0	372	98185	100	19.8	333	1165	.48	1.31	1.30	2.70	9.21	8.70
425	2221	2287.0	12.0	3.19	3.92	81	31.3	2230	2276.5	9.11	9.18	610	551	38.0	42.0	363	98329	101	19.8	668	1164	.48	1.31	1.30	2.70	9.21	8.70
426	2222	2287.2	14.2	3.50	4.17	81	30.9	2290	2276.5	9.06	9.21	610	516	38.4	41.8	359	98403	101	19.8	270	1161	.48	1.25	1.25	2.70	9.21	8.70
427	2223	2287.5	10.2	3.21	4.67	80	30.7	2290	2276.7	9.06	9.21	611	511	38.4	41.8	358	98536	101	19.9	434	1158	.48	1.34	1.33	2.70	9.21	8.70
428	2224	2287.8	20.8	3.24	3.91	87	31.2	2180	2276.8	9.06	9.21	544	463	38.4	41.8	357	98613	101	19.9	226	1155	.48	1.17	1.16	2.70	9.21	8.70
429	2225	2288.2	23.2	3.67	4.37	90	30.0	2380	2276.9	9.03	9.20	587	524	38.5	41.9	355	98687	102	19.9	201	1153	.48	1.14	1.13	2.70	9.21	8.70
430	2226	2288.4	14.9	3.42	4.03	92	30.8	2380	2277.0	9.03	9.20	619	535	38.5	41.9	354	98789	102	19.9	293	1150	.48	1.28	1.26	2.70	9.21	8.70
431	2228	2288.7	7.88	3.54	3.99	91	31.1	2390	2277.2	9.00	9.21	620	538	39.1	42.1	350	98985	102	19.9	606	1148	.48	1.45	1.44	2.70	9.22	8.70
432	2229	2289.1	20.7	3.67	4.41	92	32.4	2380	2277.3	9.00	9.21	621	533	39.1	42.1	350	99071	103	20.0	264	1146	.48	1.20	1.19	2.70	9.22	8.70
433	2231	2289.4	8.51	3.63	4.02	91	30.8	2380	2277.6	9.02	9.18	621	541	39.1	42.4	355	99263	103	20.0	653	1144	.49	1.42	1.41	2.70	9.22	8.70
434	2234	2289.7	7.31	3.25	3.97	92	30.7	2380	2278.0	9.01	9.19	620	552	38.9	42.5	364	99478	103	20.0	621	1143	.49	1.46	1.45	2.70	9.22	8.70
435	2237	2290.0	5.41	3.43	3.95	91	31.0	2380	2278.5	9.05	9.18	621	527	38.1	42.9	382	99801	104	20.1	794	1142	.49	1.55	1.54	2.70	9.22	8.70
436	2242	2290.3	3.62	3.39	4.13	92	30.6	2390	2279.0	9.04	9.19	622	558	37.3	42.9	407	100238	104	20.2	1357	1143	.49	1.65	1.64	2.70	9.22	8.70
437	2246	2290.6	4.05	3.54	4.15	91	31.5	2380	2279.4	9.06	9.21	621	549	35.3	42.5	418	100650	104	20.2	1265	1143	.49	1.63	1.62	2.70	9.22	8.70
438	2249	2290.9	7.59	3.53	4.27	91	33.8	2390	2279.7	9.06	9.19	621	545	33.9	42.5	413	100878	105	20.3	731	1142	.49	1.49	1.48	2.70	9.22	8.70
439	2251	2291.2	8.22	3.62	4.24	91	31.7	2390	2279.9	9.06	9.19	621	544	33.9	42.5	413	101080	105	20.3	649	1140	.49	1.44	1.43	2.71	9.22	8.70
440	2253	2291.5	11.1	3.63	4.03	92	30.6	2390	2280.0	9.06	9.19	622	543	33.9	42.7	410	101230	105	20.4	498	1138	.50	1.35	1.34	2.71	9.22	8.70
441	2255	2291.8	7.50	3.59	3.95	92	31.2	2390	2280.2	9.06	9.19	622	557	34.3	42.4	412	101444	105	20.4	585	1136	.50	1.46	1.45	2.71	9.22	8.70
442	2256	2292.1	16.4	3.73	4.05	91	30.3	2390	2280.3	9.06	9.19	622	537	34.3	42.4	410	101544	106	20.4	-312	1134	.50	1.24	1.23	2.71	9.22	8.70
443	2258	2292.4	8.07	3.56	3.95	91	33.1	2400	2280.4	9.05	9.20	623	559	34.6	42.2	407	101752	106	20.4	1376	1133	.50	1.47	1.45	2.71	9.22	8.70
444	2301	2292.7	7.64	3.60	3.97	91	34.2	2390	2280.6	9.06	9.21	624	537	35.0	42.1	405	101968	106	20.5	622	1132	.50	1.50	1.48	2.71	9.22	8.70
445	2304	2293.0	6.06	3.62	4.15	91	33.7	2390	2280.9	9.05	9.22	623	559	35.5	42.2	404	102240	107	20.5	904	1130	.50	1.55	1.54	2.71	9.22	8.70
446	2306	2293.3	7.60	3.61	4.06	91	33.1	2390	2281.1	9.06	9.23	623	529	36.0	42.1	402	102458	107	20.6	646	1129	.50	1.48	1.47	2.71	9.22	8.70
447	2308	2293.6	9.52	3.73	4.09	91	34.4	2390	2281.2	9.06	9.23	624	546	36.0	42.1	400	102614	107	20.6	541	1127	.50	1.44	1.42	2.71	9.22	8.70
448	2310	2293.9	6.86	3.69	4.27	91	34.1	2330	2281.3	9.05	9.23	623	541	36.6	42.1	400	102856	108	20.6	1014	1126	.50	1.52	1.51	2.71	9.22	8.70

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Data Recorded at time 23:12 Date Sep 28 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TQ	DXC	NX	NXB	ECD	EST FM PR
449	2312	2294.2	13.8	3.61	3.93	91	33.0	2390	2281.4	9.07	9.25	624	530	36.6	42.1	397	102976	108	20.7	391	1124	.50	1.32	1.30	2.71	9.22	8.70
450	2314	2294.5	7.70	3.55	3.97	91	34.1	2400	2281.5	9.07	9.25	624	541	36.6	42.1	394	103193	108	20.7	559	1123	.50	1.49	1.48	2.71	9.22	8.70
451	2319	2294.8	4.06	3.63	4.25	91	34.4	2390	2281.8	9.06	9.22	624	526	37.6	42.1	392	103601	109	20.8	974	1123	.51	1.67	1.66	2.71	9.23	8.70
452	2322	2295.1	6.29	3.61	4.11	91	34.2	2390	2281.9	9.05	9.22	624	541	37.9	42.2	391	103866	109	20.8	856	1122	.51	1.55	1.53	2.71	9.23	8.70
453	2324	2295.5	8.61	3.72	4.05	91	34.4	2390	2281.9	9.05	9.21	625	542	38.0	42.3	389	104074	109	20.9	563	1120	.51	1.46	1.45	2.71	9.23	8.70
454	2327	2295.8	6.22	3.70	4.01	91	33.9	2390	2282.7	9.05	9.21	625	517	38.0	42.3	387	104319	109	20.9	788	1119	.51	1.55	1.54	2.71	9.23	8.70
455	2335	2296.1	7.30	3.52	3.96	87	33.2	2390	2284.2	9.07	9.20	623	537	38.5	42.2	387	104589	110	21.0	763	1119	.51	1.48	1.47	2.71	9.22	8.70
456	2338	2296.4	6.07	3.29	3.60	83	33.8	2380	2284.8	9.10	9.24	623	564	38.2	41.9	380	104839	110	21.0	867	1118	.51	1.53	1.52	2.71	9.22	8.70
457	2342	2296.7	4.45	3.43	3.81	82	33.4	2390	2285.4	9.09	9.27	623	525	38.8	41.9	376	105202	110	21.1	1550	1118	.51	1.61	1.60	2.71	9.21	8.70
458	2346	2297.0	5.24	3.46	4.01	83	33.1	2390	2285.7	9.10	9.28	623	551	38.8	42.3	375	105470	111	21.1	1002	1117	.52	1.56	1.55	2.71	9.21	8.70
459	2349	2297.3	5.60	3.52	4.04	83	32.9	2380	2286.0	9.10	9.25	623	572	38.8	42.4	374	105756	111	21.2	983	1117	.52	1.54	1.53	2.71	9.21	8.70
460	2351	2297.6	9.55	3.61	4.06	82	32.5	2390	2286.1	9.10	9.25	623	550	38.8	42.4	373	105913	111	21.2	516	1115	.52	1.39	1.38	2.71	9.21	8.70
461	2353	2297.9	7.48	3.95	4.80	84	31.9	2390	2286.2	9.10	9.23	623	548	38.4	42.4	372	106103	112	21.3	621	1114	.52	1.45	1.44	2.72	9.21	8.70
462	2356	2298.2	7.34	4.03	4.86	86	32.8	2390	2286.5	9.10	9.20	623	545	38.6	42.5	370	106314	112	21.3	622	1113	.52	1.47	1.46	2.72	9.21	8.70
463	2357	2298.5	15.9	3.89	4.41	87	32.2	2390	2286.6	9.10	9.20	623	566	38.6	42.5	372	106418	112	21.3	488	1111	.52	1.26	1.25	2.72	9.21	8.70
464	2358	2298.8	30.4	4.15	4.47	86	33.2	2390	2286.7	9.10	9.20	622	561	38.6	42.5	371	106467	112	21.3	154	1108	.52	1.09	1.08	2.72	9.21	8.70
465	2358	2299.1	28.5	3.94	4.43	86	31.8	2390	2286.7	9.10	9.20	623	569	38.6	42.5	369	106522	113	21.3	222	1106	.52	1.09	1.08	2.72	9.21	8.70
466	2359	2299.4	31.2	3.95	4.55	86	29.4	2390	2286.8	9.10	9.20	623	555	38.6	42.5	372	106572	113	21.4	201	1104	.52	1.05	1.03	2.72	9.21	8.70
467	2359	2299.7	63.2	4.39	4.87	87	26.9	2400	2286.9	9.10	9.20	623	545	38.6	42.5	367	106594	113	21.4	63	1101	.52	.84	.83	2.72	9.21	8.70
468	2359	2300.0	49.7	4.23	6.03	87	29.0	2400	2286.9	9.10	9.20	623	560	38.6	42.5	369	106626	114	21.4	102	1098	.52	.92	.91	2.72	9.21	8.70
	Date	Sep 29 '85																									
469	0000	2300.3	41.7	3.89	4.99	87	32.1	2390	2287.0	9.10	9.20	623	565	38.6	42.5	369	106662	114	21.4	114	1095	.52	.99	.98	2.72	9.21	8.70
470	0000	2300.6	43.8	3.65	4.45	89	30.5	2400	2287.0	9.12	9.18	623	544	38.5	42.4	369	106697	114	21.4	107	1092	.52	.97	.96	2.72	9.21	8.70
471	0009	2300.9	42.0	2.97	4.23	86	27.4	2330	2287.8	9.12	9.15	612	481	36.7	42.1	371	106737	115	21.4	147	1091	.52	.94	.93	2.72	9.21	8.70
472	0009	2301.2	79.0	3.24	4.92	84	30.4	2320	2287.8	9.12	9.15	612	472	36.7	42.1	372	106753	115	21.4	47	1088	.52	.80	.79	2.72	9.21	8.70
473	0009	2301.6	68.9	3.97	4.31	87	30.0	2340	2287.9	9.12	9.15	612	470	36.7	42.1	372	106774	115	21.4	65	1085	.52	.84	.83	2.72	9.21	8.70
474	0010	2301.9	37.5	3.83	4.23	88	31.1	2330	2288.0	9.12	9.15	613	463	36.7	42.1	368	106814	116	21.4	112	1082	.52	1.02	1.01	2.72	9.21	8.70
475	0010	2302.2	35.3	3.66	4.93	89	31.6	2340	2288.1	9.10	9.14	613	460	36.9	41.8	369	106860	116	21.4	143	1079	.52	1.04	1.03	2.72	9.22	8.70
476	0011	2302.5	45.6	3.72	4.39	88	30.2	2340	2288.1	9.10	9.14	613	438	36.9	41.8	367	106896	116	21.4	120	1078	.52	.96	.94	2.72	9.22	8.70
477	0011	2302.8	42.0	3.66	4.49	88	28.2	2340	2288.2	9.10	9.14	613	451	36.9	41.8	364	106934	116	21.4	113	1074	.52	.96	.95	2.72	9.22	8.70
478	0012	2303.1	31.3	3.66	4.52	89	30.0	2340	2288.2	9.10	9.14	613	491	36.9	41.8	367	106987	117	21.4	149	1072	.52	1.06	1.04	2.72	9.22	8.70
479	0012	2303.4	58.6	3.44	4.11	88	30.0	2340	2288.2	9.10	9.14	613	459	36.9	41.8	365	107012	117	21.4	99	1070	.52	.89	.87	2.72	9.22	8.70
480	0135	2303.7	20.2	3.59	4.61	86	26.6	2320	2299.2	8.94	9.11	611	468	39.5	46.0	396	107098	117	21.5	257	1068	.52	1.13	1.12	2.72	9.18	8.70
481	0135	2304.0	41.5	4.01	4.73	87	33.4	2310	2299.2	8.90	9.10	612	474	38.9	45.9	395	107130	118	21.5	104	1065	.52	1.01	1.00	2.73	9.18	8.70
482	0136	2304.3	37.4	3.73	4.34	88	30.1	2310	2299.2	8.90	9.10	611	477	38.9	45.9	397	107174	118	21.5	130	1062	.52	1.01	1.00	2.73	9.18	8.70
483	0136	2304.6	22.6	3.83	4.43	88	30.1	2320	2299.2	8.90	9.10	611	483	38.9	45.9	402	107236	118	21.5	217	1061	.52	1.15	1.13	2.73	9.18	8.70
484	0137	2304.9	29.0	3.82	4.47	87	29.9	2310	2299.2	8.90	9.10	611	507	38.9	45.9	402	107290	119	21.5	170	1058	.52	1.07	1.06	2.73	9.18	8.70
485	0146	2305.3	41.3	3.81	4.43	85	25.8	2370	2299.2	8.90	9.10	561	381	37.1	45.0	415	107345	119	21.5	174	1056	.53	.94	.93	2.73	9.16	8.70
486	0147	2305.5	37.9	3.81	4.01	85	32.8	2360	2299.2	8.90	9.10	611	406	37.1	45.0	415	107354	119	21.5	173	1054	.53	1.01	1.00	2.73	9.17	8.70
487	0147	2305.8	41.9	3.92	4.50	88	34.2	2370	2299.2	8.90	9.10	611	438	37.1	45.0	416	107369	119	21.5	162	1051	.53	.97	.96	2.73	9.17	8.70
488	0147	2306.1	60.8	4.10	4.49	88	29.9	2370	2299.2	8.90	9.10	606	451	37.1	45.0	413	107395	120	21.5	80	1048	.53	.88	.87	2.73	9.17	8.70
489	0148	2306.4	20.6	3.97	5.49	88	32.4	2370	2299.2	8.90	9.12	617	519	35.8	44.1	409	107473	120	21.5	230	1046	.53	1.20	1.18	2.73	9.17	8.70
490	0148	2306.7	28.1	3.93	4.52	87	31.0	2370	2299.2	8.90	9.12	619	558	35.8	44.1	406	107523	120	21.5	160	1044	.53	1.09	1.08	2.73	9.17	8.70
491	0149	2307.0	37.9	3.66	4.93	87	28.8	2370	2299.2	8.90	9.12	619	568	35.8	44.1	403	107564	121	21.5	-139	1042	.53	.99	.98	2.73	9.17	8.70
492	0149	2307.3	57.6	3.92	4.82	88	28.3	2370	2299.2	8.90	9.12	619	554	35.8	44.1	401	107591	121	21.6	102	1040	.53	.88	.87	2.73	9.17	8.70
493	0150	2307.6	49.2	4.10	4.56	87	31.8	2370	2299.2	8.90	9.12	619	566	35.8	44.1	399	107620	121	21.6	85	1037	.53	.95	.94	2.73	9.18	8.70
494	0151	2307.9	11.0	3.90	4.47	87	32.3	2350	2299.2	8.90	9.15	619	577	36.8	43.9	396	107764	122	21.6	351	1035	.53	1.37	1.35	2.73	9.17	8.70
495	0152	2308.3	23.2	3.92	5.27	86	31.2	2360	2299.2	8.90	9.15	619	566	36.8	43.9	396	107832	122	21.6	256	1034	.53	1.15	1.14	2.73	9.17	8.70
496	0153	2308.6	24.9	4.38	5.81	87	31.4	2360	2299.2	8.90	9.15	619	567	36.8	43.9	393	107894	122	21.6	195	1031	.53	1.13	1.12	2.73	9.17	8.70
497	0155	2308.9	7.39	3.50	4.39	88	33.3	2360	2299.2	8.95	9.16	619	529	37.6	43.6	394	108105	123	21.7	652	1030	.53	1.49	1.48	2.73	9.17	8.70

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Data Printed at time 20:52 Date Oct 9 '85
Data Recorded at time 01:57 Date Sep 29 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST FM P
498	0157	2309.2	11.4	3.61	6.95	85	33.8	2340	2299.2	8.95	9.16	619	502	37.6	43.6	391	103243	123	21.7	465	1029	.53	1.37	1.36	2.73	9.17	8.7
499	0159	2309.5	7.35	3.61	6.87	84	33.4	2360	2299.2	8.93	9.15	618	517	38.0	43.3	392	103453	123	21.7	705	1028	.53	1.48	1.47	2.73	9.16	8.70
500	0201	2309.8	14.2	3.40	4.38	86	33.4	2360	2299.2	8.95	9.14	619	530	38.2	43.2	391	103563	123	21.7	345	1026	.53	1.31	1.30	2.73	9.16	8.70
501	0202	2310.1	12.1	3.74	4.27	86	33.5	2370	2299.2	8.95	9.14	618	467	38.2	43.2	389	103680	124	21.8	430	1025	.53	1.35	1.34	2.73	9.16	8.70
502	0203	2310.4	15.9	3.53	3.96	86	33.2	2360	2299.2	8.95	9.14	618	476	38.2	43.2	388	103779	124	21.8	322	1023	.53	1.27	1.26	2.73	9.16	8.70
503	0205	2310.7	11.4	3.34	4.25	85	32.7	2360	2299.2	8.97	9.15	619	481	39.0	43.4	388	103924	124	21.8	569	1022	.53	1.36	1.34	2.74	9.16	8.70
504	0206	2311.0	11.3	3.37	4.09	86	32.9	2360	2299.2	8.97	9.15	618	477	39.0	43.4	388	103962	125	21.8	450	1020	.53	1.36	1.35	2.74	9.16	8.70
505	0207	2311.3	16.1	3.57	4.34	86	32.3	2360	2299.2	8.95	9.12	618	477	39.2	43.5	386	104157	125	21.9	316	1018	.53	1.26	1.25	2.74	9.16	8.70
506	0208	2311.6	18.0	3.60	4.17	86	32.7	2370	2299.2	8.95	9.12	618	490	39.2	43.5	386	104230	125	21.9	234	1016	.53	1.23	1.22	2.74	9.16	8.70
507	0210	2311.9	13.7	3.54	4.25	86	32.8	2360	2299.2	8.95	9.12	618	463	39.2	43.5	386	104349	126	21.9	339	1015	.53	1.31	1.30	2.74	9.16	8.70
508	0211	2312.2	14.4	3.66	4.26	85	32.8	2370	2299.2	8.95	9.12	618	496	39.2	43.5	386	104455	126	21.9	331	1013	.54	1.29	1.28	2.74	9.16	8.70
509	0213	2312.5	9.55	3.57	4.19	86	32.8	2360	2299.2	8.97	9.11	618	446	39.1	43.0	388	104617	126	21.9	584	1012	.54	1.41	1.40	2.74	9.15	8.70
510	0214	2312.8	21.2	3.68	4.31	86	32.1	2370	2299.2	8.97	9.11	618	493	39.1	43.0	386	104690	126	22.0	342	1011	.54	1.18	1.17	2.74	9.15	8.70
511	0215	2313.1	11.6	3.57	4.48	86	31.8	2360	2299.2	8.97	9.11	618	529	39.1	43.0	384	104811	127	22.0	612	1009	.54	1.34	1.33	2.74	9.16	8.70
512	0216	2313.4	12.7	3.51	3.99	85	32.6	2370	2299.2	8.98	9.11	618	531	39.3	43.1	381	104932	127	22.0	392	1007	.54	1.33	1.32	2.74	9.15	8.70
513	0218	2313.7	11.8	3.26	4.01	86	32.6	2370	2299.2	8.98	9.11	618	552	39.3	43.1	380	105058	127	22.0	380	1006	.54	1.35	1.34	2.74	9.15	8.70
514	0220	2314.0	8.22	3.43	4.05	86	33.0	2380	2299.2	9.02	9.12	620	543	39.9	43.1	377	105247	128	22.1	658	1005	.54	1.46	1.44	2.74	9.15	8.70
515	0221	2314.4	15.2	3.51	3.94	86	31.7	2370	2299.2	9.01	9.12	620	495	39.9	42.9	379	105354	128	22.1	358	1003	.54	1.27	1.26	2.74	9.15	8.70
516	0226	2314.7	17.5	3.45	3.84	83	28.5	2350	2299.2	9.01	9.12	601	464	39.9	42.9	387	105410	128	22.1	422	1002	.54	1.38	1.37	2.74	9.14	8.70
517	0227	2315.0	18.3	3.57	4.06	80	30.4	2350	2299.2	9.04	9.10	609	495	39.0	42.8	386	105439	129	22.1	647	999	.54	1.14	1.13	2.74	9.14	8.70
518	0228	2315.3	12.4	3.66	4.40	88	33.1	2350	2299.2	9.04	9.10	616	438	39.0	42.8	379	105564	129	22.1	414	998	.54	1.35	1.34	2.74	9.14	8.70
519	0231	2315.6	6.63	3.81	4.49	88	33.0	2350	2299.2	9.01	9.04	616	518	39.4	43.0	373	105807	129	22.2	1344	997	.54	1.52	1.51	2.74	9.14	8.70
520	0233	2315.9	7.45	3.69	4.28	87	34.1	2350	2299.2	8.95	9.01	616	459	40.4	42.7	370	105999	130	22.2	639	996	.54	1.50	1.49	2.74	9.14	8.70
521	0235	2316.2	12.3	3.86	4.35	89	33.8	2350	2299.2	8.95	9.01	616	489	40.4	42.7	367	111129	130	22.2	408	995	.54	1.36	1.35	2.74	9.14	8.70
522	0237	2316.5	8.86	3.58	4.30	89	32.5	2350	2299.2	8.95	9.02	615	474	40.9	42.7	368	111292	130	22.3	486	994	.54	1.44	1.43	2.74	9.13	8.70
523	0239	2316.8	8.22	3.66	4.28	87	33.3	2350	2299.2	8.92	9.01	615	465	40.9	43.0	364	111485	130	22.3	723	993	.54	1.47	1.45	2.75	9.14	8.70
524	0241	2317.1	10.4	3.67	4.27	88	33.0	2360	2299.2	8.92	9.01	616	499	40.9	43.0	364	111636	131	22.3	565	992	.55	1.40	1.38	2.75	9.13	8.70
525	0243	2317.4	7.36	3.57	4.55	87	32.3	2350	2299.2	8.97	9.01	616	476	40.9	43.2	362	111849	131	22.4	591	991	.55	1.48	1.47	2.75	9.13	8.70
526	0244	2317.7	12.9	3.37	6.56	82	31.8	2330	2299.2	8.97	9.01	615	461	40.9	43.2	362	111966	131	22.4	504	990	.55	1.30	1.29	2.75	9.13	8.70
527	0246	2318.0	9.44	2.96	4.50	81	32.6	2350	2299.3	8.91	9.01	614	467	41.1	43.2	361	112109	132	22.4	651	988	.55	1.40	1.39	2.75	9.13	8.70
528	0248	2318.3	11.4	3.23	6.00	82	32.4	2330	2299.5	8.91	9.01	613	437	41.1	43.2	359	112228	132	22.4	498	987	.55	1.35	1.34	2.75	9.13	8.70
529	0250	2318.6	9.03	3.01	4.67	82	33.6	2340	2300.1	8.95	9.02	614	467	41.1	43.1	360	112394	132	22.5	490	986	.55	1.43	1.42	2.75	9.13	8.70
530	0250	2318.9	42.1	2.85	4.58	83	32.2	2340	2300.3	8.95	9.02	614	467	41.1	43.1	358	112427	133	22.5	187	984	.55	.99	.98	2.75	9.13	8.70
531	0251	2319.2	28.1	3.04	6.60	82	30.3	2330	2300.5	8.95	9.02	614	473	41.1	43.1	359	112482	133	22.5	178	982	.55	1.08	1.07	2.75	9.13	8.70
532	0251	2319.5	21.4	2.72	4.02	85	30.5	2340	2300.8	8.95	9.02	614	501	41.1	43.1	358	112541	133	22.5	199	980	.55	1.16	1.15	2.75	9.13	8.70
533	0252	2319.8	28.3	3.10	4.71	84	31.4	2330	2300.9	8.99	9.02	613	469	41.1	43.2	357	112595	133	22.5	185	979	.55	1.09	1.08	2.75	9.14	8.70
534	0253	2320.1	22.1	3.83	7.59	76	32.2	2340	2300.9	8.99	9.02	613	473	41.1	43.2	356	112657	134	22.5	223	977	.55	1.14	1.14	2.75	9.14	8.70
535	0253	2320.4	27.0	2.86	4.44	83	32.5	2340	2300.9	8.99	9.02	613	498	41.1	43.2	356	112711	134	22.5	187	975	.55	1.11	1.10	2.75	9.14	8.70
536	0255	2320.8	16.1	3.48	5.52	83	32.9	2340	2300.9	8.99	9.02	614	519	41.1	43.2	357	112802	134	22.6	308	974	.55	1.26	1.25	2.75	9.14	8.70
537	0255	2321.1	25.2	2.94	4.37	85	32.5	2350	2301.1	8.95	9.03	613	505	41.3	43.1	356	112865	135	22.6	212	972	.55	1.14	1.13	2.75	9.14	8.70
538	0256	2321.4	32.7	2.88	4.03	85	33.2	2350	2301.4	8.95	9.03	613	512	41.3	43.1	354	112906	135	22.6	150	970	.55	1.07	1.06	2.75	9.14	8.70
539	0301	2321.7	15.6	2.84	3.95	85	30.7	2370	2303.2	8.97	9.02	613	480	41.3	42.7	363	113016	135	22.6	310	968	.55	1.25	1.24	2.75	9.14	8.70
540	0302	2322.0	28.8	2.96	4.25	86	33.3	2370	2303.4	8.97	9.02	617	459	41.3	42.7	360	113068	136	22.6	166	967	.55	1.11	1.10	2.75	9.14	8.70
541	0303	2322.3	17.5	2.96	4.43	84	31.4	2370	2303.8	8.97	9.02	618	469	41.3	42.7	357	113154	136	22.6	-270	965	.55	1.22	1.21	2.75	9.14	8.70
542	0304	2322.6	21.8	2.87	4.10	86	30.6	2370	2304.2	8.97	9.02	619	483	41.3	42.7	356	113225	136	22.6	235	963	.55	1.16	1.15	2.75	9.14	8.70
543	0305	2322.9	13.0	2.67	4.12	85	32.7	2370	2304.4	8.99	9.02	618	465	41.2	42.7	352	113311	137	22.7	307	962	.55	1.23	1.22	2.75	9.14	8.70
544	0306	2323.2	18.5	2.81	4.22	86	31.4	2370	2304.5	8.99	9.02	619	510	41.2	42.7	351	113391	137	22.7	280	960	.55	1.21	1.20	2.75	9.14	8.70
545	0307	2323.5	16.6	3.17	4.45	83	32.3	2370	2304.7	8.99	9.02	619	520	41.2	42.7	349	113482	137	22.7	255	959	.55	1.24	1.23	2.76	9.14	8.70
546	0308	2323.8	9.59	3.20	4.64	83	31.7	2360	2305.0	8.97	9.03	618	567	41.5	42.5	346	113640	137	22.7	404	958	.56	1.39	1.38	2.76	9.15	8.70
547	0434	2324.0	18.5	2.77	4.74	85	31.4	2320	2319.7	8.92	8.98	614	545	43.6	46.5	278	113689	138	22.7	354	957	.56	1.22	1.21	2.76	9.09	8.7

AMOCO AUST. Tilana No.1 329178 Data Printed at time 20:56 Date Oct 9 '85
Data Recorded at time 04:34 Date Sep 29 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
548	0434	2324.0	0.00	2.77	4.74	85	31.4	2300	2319.7	8.92	8.98	613	540	43.6	46.5	279	113639	138	22.7	354	957	.56	0.00	0.00	2.76	9.09	8.70
549	0618	2324.3	13.9	3.66	3.78	90	32.2	2270	2324.3	8.93	9.01	614	765	43.8	46.3	275	113698	138	22.7	372	955	.56	1.32	1.31	2.76	9.07	8.70
550	0624	2324.7	4.11	3.39	3.92	89	32.5	2360	2324.3	8.94	9.06	614	555	40.6	37.7	296	114215	138	22.8	1023	956	.56	1.67	1.66	2.76	9.03	8.70
551	0629	2325.0	3.51	3.35	3.98	89	32.8	2380	2324.3	9.01	9.04	616	548	38.2	41.2	363	114674	139	22.9	1472	957	.56	1.72	1.70	2.76	9.04	8.70
552	0634	2325.3	4.04	3.60	4.33	88	34.2	2380	2324.3	8.98	9.04	615	568	34.5	41.9	384	115070	139	23.0	1278	957	.56	1.70	1.68	2.76	9.04	8.70
553	0639	2325.6	3.63	3.35	4.26	88	35.0	2410	2324.3	8.96	9.05	615	546	33.6	42.3	376	115509	139	23.1	1454	958	.56	1.74	1.72	2.76	9.04	8.70
554	0644	2325.9	3.66	3.47	4.18	87	34.5	2420	2324.3	8.94	9.04	617	564	34.2	42.3	372	115928	140	23.2	1310	959	.57	1.72	1.71	2.76	9.05	8.70
555	0647	2326.2	5.75	3.44	4.21	87	33.6	2420	2324.3	8.92	9.06	617	580	34.7	42.2	372	116213	140	23.2	880	959	.57	1.58	1.57	2.76	9.05	8.70
556	0651	2326.5	4.14	3.55	4.18	87	33.8	2420	2324.3	9.01	9.06	618	547	35.5	41.9	370	116548	140	23.3	1052	959	.57	1.68	1.66	2.76	9.05	8.70
557	0654	2326.8	6.42	3.47	4.13	88	34.2	2410	2324.3	8.96	9.08	617	553	36.0	41.9	366	116795	141	23.3	783	958	.57	1.56	1.55	2.76	9.05	8.70
558	0657	2327.1	5.31	3.52	4.21	87	34.0	2410	2324.3	8.99	9.08	617	544	36.7	41.6	365	117094	141	23.4	959	958	.57	1.61	1.59	2.76	9.06	8.70
559	0700	2327.5	5.98	3.60	4.27	87	33.3	2410	2324.3	8.97	9.08	618	572	37.0	41.6	363	117362	141	23.4	842	958	.57	1.57	1.55	2.76	9.06	8.70
560	0703	2327.8	6.97	3.44	4.13	87	33.8	2410	2324.3	8.97	9.08	619	580	37.4	41.7	362	117588	141	23.5	758	958	.57	1.53	1.51	2.76	9.07	8.70
561	0705	2328.1	9.12	3.73	4.53	87	33.7	2410	2324.3	8.94	9.07	619	546	37.6	41.8	361	117761	142	23.5	586	957	.58	1.45	1.44	2.76	9.07	8.70
562	0708	2328.4	6.05	4.11	5.16	87	33.7	2400	2324.3	8.95	9.07	619	558	37.9	42.0	360	118021	142	23.6	877	956	.58	1.57	1.55	2.76	9.07	8.70
563	0709	2328.7	11.8	4.61	5.60	87	33.1	2410	2324.3	9.03	9.07	619	563	38.1	42.0	358	118155	142	23.6	441	955	.58	1.37	1.36	2.76	9.08	8.70
564	0712	2329.0	6.79	4.00	5.35	87	33.3	2400	2324.3	9.00	9.07	618	583	38.2	42.0	357	118391	143	23.6	735	955	.58	1.53	1.52	2.76	9.08	8.70
565	0715	2329.3	5.32	3.58	4.21	87	33.9	2390	2324.3	9.01	9.10	617	599	38.4	41.8	352	118690	143	23.7	883	955	.58	1.60	1.59	2.76	9.08	8.70
566	0718	2329.6	7.99	3.57	4.39	87	33.6	2400	2324.3	8.93	9.11	618	575	38.6	41.9	348	118889	143	23.7	591	954	.58	1.49	1.47	2.76	9.09	8.70
567	0721	2329.9	5.83	3.68	4.19	87	34.4	2390	2324.3	8.91	9.10	618	574	38.9	42.0	348	119182	144	23.8	835	954	.58	1.58	1.57	2.76	9.09	8.70
568	0724	2330.2	6.14	3.56	4.33	87	33.5	2380	2324.3	8.98	9.09	618	584	39.0	42.1	347	119439	144	23.8	795	954	.58	1.56	1.54	2.76	9.09	8.70
569	0727	2330.5	5.97	3.85	4.41	87	33.7	2380	2324.4	8.92	9.09	618	574	39.2	42.0	345	119704	144	23.9	840	953	.58	1.57	1.55	2.77	9.10	8.70
570	0730	2330.8	6.15	3.91	4.46	87	34.1	2370	2324.6	8.91	9.10	618	580	39.2	42.0	378	119942	144	23.9	785	953	.59	1.56	1.55	2.77	9.10	8.70
571	0733	2331.1	5.82	3.74	4.38	87	34.5	2370	2324.8	9.04	9.15	618	637	36.6	41.4	418	120234	145	24.0	855	953	.59	1.58	1.57	2.77	9.10	8.70
572	0736	2331.4	6.05	3.77	4.23	87	34.0	2380	2325.0	9.04	9.15	618	564	36.6	41.4	435	120477	145	24.0	813	952	.59	1.57	1.55	2.77	9.10	8.70
573	0739	2331.7	6.07	3.81	4.59	87	33.8	2390	2325.2	9.08	9.45	618	562	32.5	41.5	430	120738	145	24.1	818	952	.59	1.56	1.55	2.77	9.10	8.70
574	0742	2332.0	5.78	3.62	4.34	87	33.9	2400	2325.4	9.00	9.05	619	541	31.4	42.1	426	121013	146	24.1	840	952	.59	1.58	1.56	2.77	9.10	8.70
575	0745	2332.3	5.92	3.67	4.23	87	34.6	2400	2325.6	9.02	9.09	618	531	31.8	42.1	424	121281	146	24.2	819	952	.59	1.58	1.57	2.77	9.11	8.70
576	0750	2332.6	3.95	3.57	4.23	87	33.4	2410	2325.9	9.06	9.12	620	554	33.1	42.1	422	121703	146	24.3	1378	953	.59	1.68	1.66	2.77	9.11	8.70
577	0759	2333.0	5.47	3.67	4.32	87	32.3	2340	2326.5	8.97	9.04	609	509	33.4	41.8	422	122015	147	24.3	814	953	.60	1.57	1.55	2.77	9.11	8.70
578	0800	2333.3	5.77	3.44	5.29	86	31.0	2360	2326.5	8.97	9.04	611	507	33.4	41.8	420	122072	147	24.3	837	951	.60	1.57	1.56	2.77	9.11	8.70
579	0803	2333.6	6.28	3.55	5.28	83	33.4	2360	2326.8	9.00	9.06	614	523	33.9	42.1	416	122307	147	24.4	824	951	.60	1.53	1.52	2.77	9.12	8.70
580	0806	2333.9	6.39	3.55	5.21	84	32.1	2360	2327.1	8.96	9.04	615	557	34.8	42.3	412	122544	148	24.4	720	950	.60	1.51	1.50	2.77	9.12	8.70
581	0808	2334.2	6.20	3.63	5.33	84	32.3	2350	2327.3	9.03	9.04	615	567	35.7	41.9	407	122781	148	24.5	792	950	.60	1.52	1.51	2.77	9.12	8.70
582	0811	2334.5	6.26	3.62	5.36	94	32.1	2360	2327.6	8.93	9.05	614	543	36.5	42.0	408	123024	148	24.5	493	950	.60	1.52	1.50	2.77	9.12	8.70
583	0816	2334.8	3.65	3.51	5.28	85	33.4	2340	2328.3	8.99	9.07	613	566	36.6	42.1	407	123445	148	24.6	1114	950	.60	1.69	1.68	2.77	9.12	8.70
584	0820	2335.1	5.23	3.30	5.11	84	33.2	2340	2328.7	8.95	9.04	613	584	37.0	42.3	404	123745	149	24.7	991	951	.60	1.58	1.57	2.77	9.12	8.70
585	0824	2335.4	4.69	3.29	5.26	84	33.3	2340	2329.1	9.02	9.06	613	540	37.7	42.2	402	124070	149	24.7	1276	951	.61	1.61	1.60	2.77	9.12	8.70
586	0827	2335.7	4.84	3.64	5.65	84	33.0	2320	2329.6	8.98	9.07	613	531	38.0	42.1	400	124385	149	24.8	1103	951	.61	1.60	1.59	2.77	9.12	8.70
587	0831	2336.0	4.69	3.75	6.24	94	32.6	2330	2329.9	9.03	9.08	612	516	38.8	42.4	396	124707	150	24.9	1162	951	.61	1.60	1.59	2.77	9.12	8.70
588	0834	2336.3	6.52	3.51	5.43	93	33.4	2320	2330.2	9.02	9.10	612	521	39.1	42.2	394	124939	150	24.9	753	951	.61	1.52	1.51	2.77	9.12	8.70
589	0836	2336.6	11.0	3.66	5.39	83	33.2	2330	2330.3	8.99	9.09	612	521	39.5	42.3	393	125075	150	24.9	460	950	.61	1.37	1.36	2.77	9.12	8.70
590	0837	2336.9	12.2	3.50	5.38	82	33.2	2320	2330.5	8.99	9.09	613	520	39.5	42.3	393	125199	151	24.9	419	949	.61	1.34	1.33	2.78	9.12	8.70
591	0839	2337.2	8.29	3.87	5.52	81	32.6	2320	2330.7	8.99	9.09	614	530	39.7	42.4	391	125376	151	25.0	-513	948	.61	1.44	1.42	2.78	9.12	8.70
592	0840	2337.5	18.2	4.15	5.56	81	32.2	2330	2330.9	9.04	9.09	613	539	39.8	42.3	390	125464	151	25.0	307	947	.61	1.21	1.20	2.78	9.13	8.70
593	0841	2337.8	23.6	4.08	5.59	81	32.4	2330	2330.9	9.04	9.09	612	532	39.8	42.3	390	125521	151	25.0	184	945	.61	1.14	1.13	2.78	9.13	8.70
594	0842	2338.1	31.2	4.45	7.62	71	32.3	2330	2331.0	9.04	9.09	612	534	39.8	42.3	390	125565	152	25.0	173	944	.61	1.03	1.02	2.78	9.13	8.70
595	0844	2338.4	7.53	4.17	6.11	80	33.0	2310	2331.2	9.01	9.08	611	543	40.0	42.4	388	125739	152	25.1	858	943	.61	1.46	1.45	2.78	9.13	8.70
596	0848	2338.7	4.74	3.73	6.72	81	33.1	2310	2331.6	9.01	9.09	611	560	40.0	42.6	385	126053	152	25.1	900	943	.61	1.60	1.58	2.78	9.13	8.70
597	0849	2339.1	25.3	3.62	5.73	82	31.4	2320	2331.7	9.02	9.09	611	572	40.2	42.7	385	126116	153	25.1	229	942	.61	1.11	1.10	2.78	9.14	8.70

F#	TIME	DEPTH	ROP	TORQUE		RPM	WOB	PUMP	RTRNS	MW lb/gal		FLOW/MIN		TEMP (C)		PVT	THIS BIT			COST		EST	DXC	NX	NXB	ECD	EST
		m	m/hr	AVG	MAX	AVG	AVG	PRES	DEPTH	IN	OUT	IN	OUT	IN	OUT		REVS	m	hrs	INST	RUN	TVI					FM PR
598	0850	2339.3	12.5	3.65	5.55	83	31.7	2330	2331.8	9.02	9.09	613	540	40.2	42.7	384	126227	153	25.2	504	940	.62	1.32	1.30	2.78	9.14	8.70
599	0853	2339.6	5.51	3.49	5.78	83	32.8	2310	2332.1	9.03	9.10	612	568	40.5	42.7	382	126498	153	25.2	752	940	.62	1.56	1.54	2.78	9.14	8.70
600	0854	2340.0	31.6	3.97	6.27	82	32.4	2290	2332.2	9.03	9.10	612	547	40.5	42.7	381	126543	154	25.2	172	939	.62	1.07	1.05	2.78	9.14	8.70
601	0855	2340.3	21.5	4.90	7.63	81	33.2	2300	2332.2	9.03	9.10	612	576	40.5	42.7	381	126611	154	25.2	214	937	.62	1.17	1.16	2.78	9.14	8.70
602	0856	2340.6	15.6	4.60	6.67	81	37.7	2300	2332.3	9.03	9.10	612	539	40.5	42.7	381	126709	154	25.3	414	936	.62	1.31	1.30	2.78	9.14	8.70
603	0857	2340.9	18.3	4.05	6.23	83	39.1	2300	2332.4	9.03	9.10	612	509	40.5	42.7	380	126787	155	25.3	268	935	.62	1.29	1.28	2.78	9.14	8.70
604	0858	2341.2	16.3	3.59	5.94	84	38.7	2310	2332.5	9.03	9.10	612	519	40.7	42.6	379	126881	155	25.3	356	934	.62	1.32	1.30	2.78	9.14	8.70
605	0859	2341.5	15.4	3.40	4.90	84	38.9	2290	2332.5	9.03	9.10	611	520	40.7	42.6	379	126979	155	25.3	302	932	.62	1.34	1.33	2.78	9.14	8.70
606	0900	2341.8	12.1	3.58	5.70	82	38.3	2290	2332.6	9.10	9.07	611	511	40.6	42.8	379	127091	155	25.3	408	931	.62	1.40	1.38	2.78	9.14	8.70
607	0901	2342.1	19.1	3.26	5.15	84	38.5	2300	2332.7	9.10	9.07	610	497	40.6	42.8	378	127168	156	25.3	261	930	.62	1.27	1.26	2.78	9.15	8.70
608	0903	2342.4	13.9	3.25	4.83	84	38.2	2300	2332.8	9.10	9.07	610	542	40.6	42.8	378	127276	156	25.4	353	929	.62	1.36	1.35	2.78	9.15	8.70
609	0904	2343.7	22.3	3.19	4.21	86	37.8	2340	2332.9	9.10	9.06	611	601	40.6	42.9	381	127308	157	25.4	311	921	.62	1.24	1.22	2.79	9.05	8.70
610	0908	2343.9	20.0	3.04	4.18	87	38.5	2360	2333.0	9.12	9.02	611	524	40.0	42.8	385	127348	158	25.4	323	921	.62	1.29	1.29	2.79	9.15	8.70
611	0909	2344.2	18.0	3.09	5.02	86	39.7	2360	2333.0	9.12	9.02	616	525	40.0	42.8	383	127405	158	25.4	214	919	.62	1.32	1.31	2.79	9.16	8.70
612	0910	2344.5	19.1	3.45	5.08	85	41.3	2340	2333.1	9.12	9.02	615	535	40.0	42.8	379	127485	158	25.4	240	918	.62	1.30	1.29	2.79	9.16	8.70
613	0911	2344.8	18.6	3.10	4.81	84	40.7	2330	2333.2	9.10	9.04	615	543	40.1	42.5	376	127561	158	25.4	300	917	.62	1.30	1.29	2.79	9.16	8.70
614	0912	2345.1	17.9	3.21	4.59	85	41.3	2330	2333.4	9.10	9.04	614	567	40.1	42.5	374	127645	159	25.4	286	915	.62	1.32	1.31	2.79	9.16	8.70
615	0913	2345.4	13.3	3.27	4.84	85	41.3	2330	2333.6	9.09	9.02	615	565	40.8	42.7	372	127760	159	25.5	338	914	.62	1.41	1.39	2.79	9.16	8.70
616	0914	2345.7	24.1	3.03	4.36	85	41.4	2330	2333.7	9.09	9.02	614	535	40.8	42.7	370	127824	159	25.5	251	913	.62	1.23	1.22	2.79	9.16	8.70
617	0915	2346.0	18.9	3.06	4.41	85	41.0	2330	2333.8	9.09	9.02	614	554	40.8	42.7	369	127905	160	25.5	269	912	.62	1.30	1.29	2.79	9.16	8.70
618	0915	2346.4	22.3	3.08	4.69	85	40.1	2350	2333.9	9.09	9.05	615	553	41.0	42.9	367	127974	160	25.5	206	910	.62	1.24	1.23	2.79	9.17	8.70
619	0916	2346.7	20.5	3.27	5.09	85	40.8	2340	2334.0	9.09	9.05	615	566	41.0	42.9	367	128037	160	25.5	220	909	.62	1.28	1.26	2.79	9.17	8.70
620	0917	2347.0	26.0	3.17	4.67	84	41.2	2370	2334.1	9.09	9.05	615	563	41.0	42.9	367	128093	161	25.5	131	908	.62	1.21	1.19	2.79	9.17	8.70
621	0918	2347.3	18.5	3.19	4.32	85	41.3	2370	2334.2	9.07	9.05	620	564	41.1	43.2	366	128175	161	25.5	250	906	.62	1.31	1.29	2.79	9.17	8.70
622	0918	2347.6	23.2	3.31	4.86	84	40.5	2380	2334.2	9.07	9.05	621	587	41.1	43.2	366	128228	161	25.6	177	905	.62	1.17	1.16	2.79	9.18	8.70
623	0919	2347.9	26.6	3.30	4.55	84	40.1	2380	2334.3	9.07	9.05	621	607	41.1	43.2	364	128285	162	25.6	189	904	.63	1.19	1.17	2.79	9.18	8.70
624	0920	2348.2	35.1	3.11	4.28	85	39.0	2370	2334.3	9.07	9.05	621	567	41.1	43.2	362	128330	162	25.6	161	902	.63	1.10	1.08	2.79	9.18	8.70
625	0921	2348.5	14.8	2.90	4.93	85	40.3	2380	2334.5	9.05	9.06	622	542	41.3	42.9	364	128428	162	25.6	283	901	.63	1.37	1.35	2.79	9.18	8.70
626	0924	2348.8	5.13	3.51	5.30	83	40.6	2370	2334.8	9.01	9.05	619	587	41.4	42.9	361	128728	162	25.7	855	901	.63	1.67	1.66	2.79	9.19	8.70
627	0930	2349.1	3.57	3.57	5.70	83	42.5	2350	2335.3	9.00	9.06	615	587	41.6	43.1	358	129150	163	25.7	1597	902	.63	1.80	1.79	2.79	9.19	8.70
628	0933	2349.4	4.95	3.68	5.92	83	41.6	2350	2335.6	9.02	9.08	615	585	41.8	43.0	356	129455	163	25.8	930	902	.63	1.69	1.68	2.80	9.20	8.70
629	0934	2349.7	18.1	3.13	5.03	84	40.5	2360	2335.7	9.02	9.08	615	599	41.8	43.0	355	129538	163	25.8	275	901	.63	1.30	1.29	2.80	9.20	8.70
630	0937	2350.0	5.79	3.57	5.79	85	41.6	2350	2335.9	9.03	9.09	616	580	41.9	43.4	352	129795	164	25.9	520	901	.63	1.65	1.64	2.80	9.20	8.70
631	0939	2350.3	10.5	3.51	5.81	84	41.1	2370	2336.1	9.03	9.09	616	614	41.9	43.4	350	129943	164	25.9	522	900	.63	1.47	1.45	2.80	9.20	8.70
632	0940	2350.6	12.7	3.98	5.79	83	40.9	2380	2336.3	9.04	9.09	617	651	41.9	43.4	351	130062	164	25.9	408	899	.63	1.40	1.39	2.80	9.20	8.70
633	0942	2350.9	14.2	3.73	5.52	84	41.0	2370	2336.4	9.04	9.09	617	675	41.9	43.4	349	130157	165	25.9	328	898	.63	1.38	1.36	2.80	9.20	8.70
634	0944	2351.2	8.78	3.86	6.11	84	41.4	2380	2336.6	9.05	9.09	617	676	42.0	43.1	349	130331	165	26.0	425	898	.63	1.52	1.51	2.80	9.20	8.70
635	0949	2351.5	3.35	3.39	5.57	84	42.1	2370	2337.6	9.07	9.10	617	676	42.2	43.4	346	130783	165	26.1	4668	899	.64	1.82	1.80	2.80	9.20	8.70
636	0953	2351.8	4.95	3.50	5.49	85	42.4	2370	2338.9	9.05	9.11	618	697	42.5	43.2	344	131091	166	26.1	1188	899	.64	1.71	1.69	2.80	9.20	8.70
637	0956	2352.1	5.04	3.19	5.43	84	42.2	2370	2339.3	9.06	9.14	619	715	42.5	43.5	341	131396	166	26.2	971	899	.64	1.70	1.68	2.80	9.20	8.70
638	1001	2352.4	4.21	3.61	5.94	85	42.0	2320	2340.2	9.03	9.15	619	716	42.5	43.3	345	131760	166	26.3	1068	900	.64	1.75	1.73	2.80	9.20	8.70
639	1003	2352.8	7.91	3.14	5.27	84	42.0	2370	2340.5	9.02	9.13	619	726	42.3	43.4	344	131954	166	26.3	612	899	.64	1.56	1.55	2.80	9.20	8.70
640	1012	2353.1	6.58	3.46	5.39	82	39.5	2340	2342.7	9.06	9.08	612	632	40.4	43.8	467	132196	167	26.3	957	899	.64	1.58	1.57	2.80	9.20	8.70
641	1013	2353.4	6.58	3.43	4.99	82	33.8	2320	2342.8	9.09	9.08	612	657	33.6	43.7	471	132211	167	26.3	-140	898	.64	1.57	.84	2.80	9.20	8.70
642	1014	2353.7	17.6	3.66	5.54	86	38.6	2330	2343.0	9.09	9.08	615	649	33.6	43.7	478	132292	167	26.4	256	896	.64	1.30	1.28	2.80	9.20	8.70
643	1017	2354.0	4.96	3.50	5.79	83	41.1	2340	2343.6	9.07	9.07	615	682	31.7	43.9	465	132567	168	26.4	588	896	.65	1.68	1.67	2.80	9.20	8.70
644	1021	2354.3	4.27	3.28	5.84	31	40.9	2330	2344.7	8.96	9.02	615	671	31.0	43.8	457	132912	168	26.5	1086	897	.65	1.72	1.71	2.80	9.19	8.70
645	1026	2354.6	3.76	3.37	5.58	81	41.2	2320	2346.2	8.93	8.93	616	691	31.3	43.1	453	133305	168	26.6	1289	897	.65	1.76	1.75	2.80	9.18	8.70
646	1030	2354.9	4.22	3.68	5.78	81	41.1	2300	2348.0	8.93	8.85	616	705	32.0	43.2	453	133656	169	26.6	1189	898	.65	1.73	1.72	2.80	9.18	8.70
647	1036	2355.2	2.98	3.42	6.04	81	41.4	2320	2348.8	8.99	8.79	615	700	32.6	42.9	438	134151	169	26.7	1911	899	.65	1.84	1.82	2.80	9.16	8.70

AMOCO AUST. Tilana No.1 329180 Data Printed at time 21:04 Date Oct 9 '85
Data Recorded at time 10:42 Date Sep 29 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NX	NXB	ECD	EST FM PR
648	1042	2355.5	3.31	3.28	5.57	81	41.0	2330	2349.1	8.91	8.96	616	713	34.6	42.5	420	134630	169	26.8	2020	901	.65	1.80	1.79	2.80	9.15	8.70
649	1045	2355.8	6.41	3.64	5.44	81	40.8	2330	2349.6	8.91	9.05	616	709	35.8	42.3	418	134860	169	26.9	782	900	.66	1.61	1.59	2.81	9.14	8.70
650	1048	2356.1	5.74	3.67	5.57	81	41.4	2330	2349.9	8.93	9.09	616	695	37.3	42.3	416	135098	170	26.9	819	900	.66	1.65	1.63	2.81	9.14	8.70
651	1051	2356.4	7.72	3.22	5.45	81	40.7	2330	2350.4	8.94	9.10	616	701	37.6	42.2	415	135300	170	27.0	725	900	.66	1.55	1.54	2.81	9.14	8.70
652	1053	2356.7	7.19	3.45	5.84	82	41.2	2330	2350.8	8.93	9.10	616	714	37.9	42.1	414	135505	170	27.0	922	900	.66	1.59	1.57	2.81	9.13	8.70
653	1054	2357.0	23.4	3.35	4.80	81	40.2	2330	2350.9	8.93	9.10	616	707	37.9	42.1	415	135563	171	27.0	206	898	.66	1.22	1.21	2.81	9.13	8.70
654	1056	2357.3	9.64	3.39	5.28	82	41.0	2330	2351.1	8.93	9.12	615	706	38.1	42.3	413	135701	171	27.1	515	898	.66	1.49	1.48	2.81	9.13	8.70
655	1057	2357.6	11.2	3.67	5.29	81	40.6	2340	2351.3	8.93	9.12	616	698	38.1	42.3	413	135833	171	27.1	445	897	.66	1.45	1.43	2.81	9.13	8.70
656	1101	2357.9	4.36	3.70	5.63	81	41.5	2320	2351.5	8.96	9.18	615	713	38.5	42.2	411	136168	172	27.2	1581	897	.66	1.74	1.72	2.81	9.12	8.70
657	1106	2358.2	4.03	3.36	6.17	81	41.9	2320	2351.8	8.97	9.19	615	688	38.5	42.4	407	136518	172	27.2	1262	898	.66	1.76	1.75	2.81	9.12	8.70
658	1110	2358.6	4.59	3.38	5.44	81	42.2	2300	2352.1	8.96	9.16	615	689	38.9	42.0	401	136849	172	27.3	1113	898	.66	1.73	1.71	2.81	9.11	8.70
659	1113	2358.8	4.80	3.36	5.50	81	41.8	2310	2352.5	8.97	9.15	616	652	39.2	42.2	402	137147	173	27.4	1372	898	.67	1.71	1.70	2.81	9.10	8.70
660	1117	2359.2	5.64	3.43	5.63	81	41.9	2340	2352.8	9.08	9.14	615	526	38.5	42.3	403	137414	173	27.4	942	898	.67	1.67	1.65	2.81	9.10	8.70
661	1120	2359.5	5.65	3.31	5.78	80	40.9	2330	2353.0	9.10	9.14	615	672	38.0	42.5	405	137642	173	27.5	838	898	.67	1.65	1.64	2.81	9.09	8.70
662	1122	2359.8	8.30	3.67	5.68	81	41.1	2330	2353.3	9.11	9.13	615	657	38.0	42.5	404	137820	173	27.5	592	897	.67	1.54	1.53	2.81	9.09	8.70
663	1123	2360.1	12.7	3.84	6.07	79	41.0	2320	2353.6	9.11	9.13	615	621	38.0	42.5	404	137934	174	27.5	429	897	.67	1.41	1.40	2.81	9.09	8.70
664	1125	2360.4	11.3	3.66	5.96	81	41.1	2330	2353.7	9.10	9.12	616	673	38.0	42.6	404	138062	174	27.5	474	896	.67	1.45	1.44	2.81	9.09	8.70
665	1126	2360.7	11.0	3.89	5.90	80	41.0	2330	2353.9	9.11	9.15	617	647	37.9	42.9	402	138194	174	27.6	439	895	.67	1.46	1.44	2.81	9.09	8.70
666	1129	2361.0	7.10	3.51	6.45	79	42.0	2310	2354.1	9.11	9.15	616	698	37.9	42.9	400	138400	175	27.6	893	895	.67	1.60	1.58	2.81	9.09	8.70
667	1130	2361.3	14.8	3.76	5.52	80	40.2	2320	2354.2	9.07	9.13	615	698	37.9	43.0	397	138499	175	27.6	331	894	.67	1.36	1.34	2.81	9.10	8.70
668	1132	2361.6	11.8	3.85	5.59	80	41.3	2320	2354.3	9.03	9.09	616	681	38.2	42.8	395	138621	175	27.7	500	893	.67	1.44	1.42	2.81	9.10	8.70
669	1134	2361.9	7.61	3.60	6.11	80	40.7	2340	2354.4	9.03	9.09	616	666	38.4	42.8	395	138812	176	27.7	639	893	.67	1.56	1.55	2.82	9.10	8.70
670	1136	2362.2	10.8	3.81	5.80	80	41.2	2300	2354.6	9.03	9.09	615	658	38.4	42.8	393	138946	176	27.7	447	892	.67	1.46	1.45	2.82	9.10	8.70
671	1141	2362.5	9.01	3.95	5.64	77	34.8	2360	2354.7	9.01	9.07	613	558	38.5	42.7	401	138993	176	27.7	296	891	.67	1.50	.88	2.82	9.10	8.70
672	1142	2362.8	14.6	4.21	6.03	79	40.4	2400	2354.8	9.03	8.98	625	599	37.6	42.7	395	139091	176	27.8	452	890	.68	1.36	1.34	2.82	9.11	8.70
673	1143	2363.1	15.7	3.95	6.74	79	40.9	2400	2354.9	9.03	8.98	625	606	37.6	42.7	392	139176	177	27.8	320	889	.68	1.34	1.33	2.82	9.11	8.70
674	1145	2363.4	8.99	3.82	6.52	79	41.3	2420	2355.0	9.03	8.98	626	644	37.6	42.7	389	139335	177	27.8	461	888	.68	1.51	1.50	2.82	9.11	8.70
675	1147	2363.7	10.4	4.14	6.51	79	42.6	2410	2355.1	8.98	9.02	626	643	38.5	42.5	386	139478	177	27.8	514	887	.68	1.48	1.47	2.82	9.12	8.70
676	1151	2364.0	4.72	3.59	5.56	79	41.7	2420	2355.2	8.98	8.99	626	649	39.0	42.3	382	139767	178	27.9	1090	887	.68	1.71	1.69	2.82	9.13	8.70
677	1157	2364.3	2.74	3.22	6.23	79	43.2	2400	2355.8	8.99	8.95	626	652	39.6	43.0	377	140293	178	28.0	1525	889	.68	1.89	1.87	2.82	9.13	8.70
678	1203	2364.6	3.44	4.05	6.32	79	42.4	2410	2356.5	8.97	9.00	625	671	40.0	43.1	374	140727	178	28.1	1521	890	.68	1.81	1.79	2.82	9.13	8.70
679	1208	2364.9	3.16	3.81	5.99	79	43.3	2420	2357.5	8.98	9.02	627	704	40.2	43.0	370	141167	179	28.2	1660	891	.68	1.84	1.83	2.82	9.13	8.70
680	1213	2365.3	3.79	4.14	6.11	79	42.3	2430	2357.9	8.94	9.03	626	689	40.4	43.2	365	141557	179	28.3	1276	892	.69	1.78	1.76	2.82	9.14	8.70
681	1220	2365.6	2.80	3.54	5.86	79	43.3	2400	2358.3	8.95	9.01	627	716	40.7	43.2	362	142057	179	28.4	1746	893	.69	1.88	1.87	2.82	9.14	8.70
682	1226	2365.9	2.90	3.70	6.01	79	42.6	2390	2358.9	8.98	9.04	628	728	41.2	43.7	358	142554	180	28.5	1679	895	.69	1.86	1.85	2.82	9.14	8.70
683	1228	2366.2	7.54	3.59	5.88	79	42.6	2380	2359.2	8.95	9.07	627	713	41.3	43.8	355	142744	180	28.5	780	894	.69	1.57	1.56	2.82	9.14	8.70
684	1230	2366.5	10.2	3.45	5.61	80	41.3	2410	2359.4	8.98	9.08	628	699	41.4	43.6	357	142888	180	28.6	581	894	.69	1.47	1.46	2.82	9.14	8.70
685	1231	2366.8	18.3	3.17	5.00	80	39.8	2400	2359.5	8.98	9.08	627	707	41.4	43.6	354	142967	180	28.6	264	893	.69	1.29	1.27	2.82	9.14	8.70
686	1232	2367.1	16.0	3.51	4.93	80	39.8	2410	2359.7	8.94	9.06	627	704	41.5	43.8	355	143056	181	28.6	323	892	.69	1.32	1.31	2.82	9.14	8.70
687	1233	2367.4	25.6	3.59	5.53	79	39.5	2400	2359.8	8.94	9.06	628	708	41.5	43.8	354	143111	181	28.6	194	891	.69	1.18	1.17	2.82	9.14	8.70
688	1237	2367.7	4.46	3.74	6.00	79	40.2	2390	2360.5	8.97	9.01	627	719	41.5	43.9	354	143428	181	28.7	1461	891	.70	1.70	1.69	2.82	9.14	8.70
689	1239	2368.0	10.0	3.74	6.10	79	39.2	2390	2360.8	8.95	9.04	626	687	41.6	43.9	351	143571	182	28.7	500	890	.70	1.45	1.43	2.83	9.14	8.70
690	1240	2368.3	15.8	4.05	6.58	79	41.6	2400	2361.0	8.95	9.04	626	709	41.6	43.9	352	143661	182	28.7	311	889	.70	1.34	1.33	2.83	9.14	8.70
691	1242	2368.6	11.6	4.04	6.27	79	39.6	2400	2361.3	8.92	9.02	626	708	41.4	44.3	351	143784	182	28.7	-580	889	.70	1.41	1.40	2.83	9.14	8.70
692	1245	2368.9	5.28	3.58	6.41	79	40.6	2390	2361.9	8.95	9.05	627	707	41.4	44.4	350	144035	183	28.8	847	888	.70	1.66	1.64	2.83	9.13	8.70
693	1247	2369.2	7.81	3.66	5.63	79	38.8	2370	2362.0	8.94	9.03	627	712	41.4	44.2	348	144220	183	28.8	640	888	.70	1.52	1.51	2.83	9.13	8.70
694	1249	2369.5	9.63	3.45	6.02	80	39.9	2400	2362.4	8.94	9.04	627	720	41.5	44.0	347	144379	183	28.9	559	887	.70	1.48	1.46	2.83	9.12	8.70
695	1252	2369.8	6.36	3.73	6.11	79	39.6	2390	2363.1	8.95	9.06	627	747	41.5	44.1	346	144588	183	28.9	643	887	.70	1.59	1.58	2.83	9.11	8.70
696	1255	2370.1	5.63	3.61	5.64	79	39.6	2390	2363.6	8.94	9.05	627	734	41.6	44.2	343	144843	184	29.0	854	887	.70	1.63	1.62	2.83	9.11	8.70
697	1257	2370.4	7.55	3.49	5.90	79	39.5	2370	2363.8	8.93	9.03	626	745	41.7	44.4	342	145034	184	29.0	703	887	.70	1.54	1.53	2.83	9.10	8.70

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329181

Data Printed at time 21:08 Date Oct 9 '85
Data Recorded at time 13:00 Date Sep 29 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NX	NKB	ECD	EST FM PR
698	1300	2370.7	6.26	3.59	5.70	80	39.6	2400	2364.0	8.93	9.02	627	714	41.7	44.5	340	145263	184	29.1	911	887	.70	1.60	1.59	2.83	9.10	8.70
699	1304	2371.1	4.57	3.32	5.54	80	39.1	2400	2364.2	8.92	9.01	626	708	41.9	44.7	338	145594	185	29.1	2219	887	.70	1.69	1.67	2.83	9.09	8.70
700	1307	2371.4	6.15	3.73	5.57	79	40.7	2380	2364.3	8.92	9.01	625	709	41.9	44.7	336	145828	185	29.2	973	887	.71	1.62	1.61	2.83	9.10	8.70
701	1309	2371.6	10.9	3.20	5.49	80	40.2	2380	2364.4	8.94	8.99	625	718	42.2	44.5	333	145954	185	29.2	494	886	.71	1.45	1.43	2.83	9.09	8.70
702	1314	2372.0	11.6	3.07	4.31	80	31.6	2340	2364.6	8.92	8.47	513	543	42.7	44.2	347	145991	186	29.2	117	885	.71	1.41	.84	2.83	9.07	8.70
703	1314	2372.3	29.9	3.39	5.09	79	37.9	2330	2364.6	8.92	8.47	585	621	42.7	44.2	342	146034	186	29.2	152	884	.71	1.13	1.11	2.83	9.08	8.70
704	1320	2372.6	3.08	3.43	6.14	78	40.0	2360	2364.8	8.92	8.90	617	707	42.9	44.5	330	146482	186	29.3	1736	885	.71	1.81	1.80	2.83	9.09	8.70
705	1321	2372.9	12.4	4.20	6.24	78	38.2	2360	2364.9	8.92	8.90	617	713	42.9	44.5	328	146600	187	29.3	446	884	.71	1.38	1.37	2.83	9.09	8.70
706	1322	2373.2	17.6	3.61	6.66	77	36.7	2370	2365.0	8.95	9.07	616	714	42.8	44.6	328	146672	187	29.4	261	883	.71	1.26	1.25	2.83	9.09	8.70
707	1323	2373.5	24.6	4.24	6.37	77	37.6	2370	2365.0	8.95	9.07	616	711	42.8	44.6	327	146723	187	29.4	212	882	.71	1.17	1.16	2.83	9.09	8.70
708	1325	2373.8	7.97	3.97	6.72	77	39.2	2370	2365.2	8.99	9.26	617	724	42.8	44.8	326	146892	187	29.4	1096	881	.71	1.52	1.51	2.83	9.09	8.70
709	1328	2374.1	7.30	4.09	5.56	78	38.0	2370	2365.3	8.94	9.27	617	739	42.9	45.1	325	147088	188	29.4	801	881	.71	1.53	1.52	2.84	9.09	8.70
710	1331	2374.4	6.50	3.65	5.93	78	38.8	2380	2365.4	8.93	9.28	616	692	43.0	44.9	325	147304	188	29.5	927	881	.71	1.58	1.56	2.84	9.09	8.70
711	1333	2374.7	6.43	3.60	5.36	78	39.0	2380	2365.6	8.91	9.27	617	691	43.0	45.1	325	147523	188	29.5	711	881	.71	1.58	1.57	2.84	9.09	8.70
712	1337	2375.0	5.60	3.62	5.53	77	38.8	2380	2365.8	8.97	9.24	617	688	43.1	44.9	325	147774	189	29.6	969	881	.71	1.62	1.61	2.84	9.08	8.70
713	1338	2375.3	16.1	3.42	5.27	77	39.0	2360	2365.8	9.08	9.17	617	694	43.1	44.7	325	147853	189	29.6	327	880	.71	1.31	1.30	2.84	9.09	8.70
714	1347	2375.6	2.19	3.71	5.94	78	39.7	2400	2367.5	9.18	9.15	617	706	42.6	45.0	335	148565	189	29.8	$	882	.72	1.91	1.90	2.84	9.08	8.70
715	1352	2375.9	3.11	3.60	5.45	78	38.9	2390	2368.4	9.16	9.13	617	712	42.8	45.0	334	148977	190	29.8	1755	883	.72	1.80	1.78	2.84	9.08	8.70
716	1358	2376.2	3.26	3.50	6.40	78	40.0	2400	2369.0	9.08	9.15	617	721	43.1	45.1	334	149409	190	29.9	1538	884	.72	1.79	1.78	2.84	9.09	8.70
717	1403	2376.6	4.07	3.78	6.29	77	40.4	2390	2369.6	9.11	9.14	617	732	43.4	45.0	335	149784	190	30.0	1402	885	.72	1.73	1.72	2.84	9.10	8.70
718	1408	2376.8	3.29	3.85	6.17	77	41.1	2390	2370.2	9.12	9.16	617	737	43.7	45.3	334	150175	190	30.1	1549	886	.73	1.80	1.78	2.84	9.11	8.70
719	1414	2377.1	2.81	3.87	6.35	77	39.7	2390	2370.8	9.09	9.19	617	723	43.9	45.4	333	150677	191	30.2	1817	887	.73	1.83	1.81	2.84	9.12	8.70
720	1422	2377.5	2.64	3.67	6.58	77	40.5	2410	2371.7	9.11	9.20	618	750	42.9	45.2	375	151248	191	30.3	2000	889	.73	1.85	1.84	2.84	9.14	8.70
721	1425	2377.7	4.69	4.06	6.59	77	40.3	2400	2372.2	9.08	9.19	617	733	41.8	45.3	394	151523	191	30.4	1004	889	.73	1.68	1.66	2.84	9.15	8.70
722	1427	2378.1	11.1	4.23	6.97	76	39.3	2390	2372.3	9.06	9.21	616	731	40.6	45.6	404	151657	192	30.4	556	889	.73	1.41	1.40	2.84	9.15	8.70
723	1428	2378.4	24.4	3.72	6.53	76	38.6	2400	2372.4	9.06	9.21	616	731	40.6	45.6	407	151711	192	30.4	194	888	.73	1.17	1.16	2.84	9.16	8.70
724	1429	2378.7	10.7	3.67	6.17	78	39.9	2400	2372.6	9.08	9.17	617	729	39.2	45.6	414	151839	192	30.5	832	887	.73	1.43	1.42	2.84	9.16	8.70
725	1432	2379.0	6.25	3.78	6.37	77	40.5	2400	2373.2	9.05	9.13	617	730	38.0	45.7	413	152064	193	30.5	1914	887	.73	1.59	1.58	2.84	9.17	8.70
726	1434	2379.3	8.25	3.40	6.02	78	41.1	2400	2373.5	9.05	9.13	617	740	38.0	45.7	410	152210	193	30.5	524	886	.73	1.52	1.51	2.84	9.17	8.70
727	1439	2379.6	3.69	3.78	6.61	77	41.4	2400	2374.2	9.04	9.21	617	752	37.8	45.1	409	152587	193	30.6	959	887	.74	1.76	1.74	2.84	9.18	8.70
728	1440	2379.9	12.0	3.39	5.90	78	40.4	2410	2374.3	9.04	9.21	619	752	37.8	45.1	408	152705	194	30.6	425	886	.74	1.40	1.39	2.84	9.18	8.70
729	1442	2380.2	8.91	3.89	6.37	77	40.9	2400	2374.6	9.07	9.23	617	752	38.1	45.1	409	152863	194	30.7	511	886	.74	1.49	1.48	2.85	9.19	8.70
730	1447	2380.5	4.11	3.59	6.11	78	40.3	2400	2375.2	9.08	9.27	617	748	39.1	45.0	409	153213	194	30.8	1132	886	.74	1.71	1.70	2.85	9.20	8.70
731	1448	2380.8	15.4	3.62	5.63	77	41.1	2390	2375.2	9.08	9.27	618	728	39.1	45.0	406	153302	194	30.8	310	885	.74	1.33	1.32	2.85	9.20	8.70
732	1452	2381.1	4.89	3.84	5.64	77	40.1	2400	2375.4	9.10	9.25	618	693	39.7	45.0	409	153585	195	30.8	882	885	.74	1.66	1.64	2.85	9.20	8.70
733	1457	2381.4	19.6	3.68	5.52	82	38.8	2430	2375.5	9.13	8.73	616	672	39.5	44.0	422	153705	195	30.9	311	885	.74	1.25	1.23	2.85	9.21	8.70
734	1502	2381.7	3.88	3.80	6.51	81	41.6	2430	2375.7	9.13	9.16	621	696	39.3	44.5	414	154079	195	30.9	$	885	.74	1.75	1.74	2.85	9.22	8.70
735	1507	2382.0	3.33	3.66	6.37	81	41.1	2420	2376.0	9.11	9.20	620	694	40.5	44.6	412	154519	196	31.0	1629	886	.74	1.79	1.77	2.85	9.22	8.70
736	1509	2382.3	10.1	3.62	5.59	81	40.7	2430	2376.1	9.11	9.20	621	691	40.5	44.6	412	154664	196	31.1	495	886	.75	1.46	1.44	2.85	9.22	8.70
737	1511	2382.6	12.2	3.55	5.30	82	40.9	2410	2376.2	9.12	9.19	621	710	40.6	44.6	413	154786	196	31.1	413	885	.75	1.41	1.39	2.85	9.23	8.70
738	1512	2382.9	10.8	3.49	5.46	81	39.4	2410	2376.4	9.12	9.19	620	688	40.6	44.6	411	154923	197	31.1	709	884	.75	1.43	1.41	2.85	9.23	8.70
739	1520	2383.2	2.36	3.49	6.88	79	41.3	2410	2376.7	9.13	9.23	620	691	41.6	44.7	410	155534	197	31.2	1623	886	.75	1.89	1.87	2.85	9.22	8.70
740	1527	2383.5	2.59	3.81	6.99	80	40.7	2410	2377.1	9.13	9.23	621	695	42.2	44.9	410	156098	197	31.4	1912	888	.75	1.85	1.84	2.85	9.22	8.70
741	1530	2383.8	6.59	3.64	6.77	81	38.9	2420	2377.2	9.13	9.21	621	666	42.4	45.0	409	156321	198	31.4	-844	887	.75	1.56	1.54	2.85	9.23	8.70
742	1532	2384.1	7.72	3.85	6.52	80	39.8	2440	2377.3	9.12	9.22	621	657	42.1	44.9	409	156510	198	31.4	708	887	.75	1.52	1.51	2.85	9.23	8.70
743	1539	2384.5	2.69	3.65	6.45	79	41.1	2430	2378.2	9.14	9.24	621	686	42.2	45.4	410	157049	198	31.6	1299	889	.76	1.85	1.83	2.85	9.23	8.70
744	1543	2384.8	4.16	3.93	6.55	80	40.6	2430	2378.9	9.12	9.25	621	702	42.3	45.2	410	157401	198	31.6	1197	889	.76	1.71	1.70	2.85	9.23	8.70
745	1547	2385.1	4.81	3.86	6.23	80	40.5	2430	2379.2	9.14	9.26	621	702	42.4	45.2	409	157705	199	31.7	1136	889	.76	1.67	1.65	2.85	9.23	8.70
746	1550	2385.4	5.98	4.17	6.55	80	41.1	2440	2379.6	9.14	9.27	621	673	42.4	45.2	410	157965	199	31.7	912	889	.76	1.61	1.60	2.85	9.23	8.70
747	1554	2385.7	5.78	4.12	6.77	79	39.8	2440	2380.0	9.18	9.22	621	647	42.9	44.9	407	158215	199	31.8	856	889	.76	1.61	1.59	2.85	9.23	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
748	1604	2386.0	1.79	3.77	7.33	79	41.6	2450	2380.9	9.16	9.17	620	596	43.1	44.9	409	159015	200	32.0	4285	892	.77	1.97	1.95	2.85	9.24	8.70
749	1609	2386.3	3.74	4.38	7.16	80	41.3	2450	2381.4	9.15	9.17	622	632	42.9	45.0	405	159401	200	32.0	1350	893	.77	1.75	1.73	2.86	9.24	8.70
750	1612	2386.6	4.49	4.21	7.02	79	40.6	2460	2381.6	9.16	9.16	622	680	42.9	44.9	407	159703	200	32.1	1154	893	.77	1.69	1.67	2.86	9.25	8.70
751	1617	2386.9	3.96	3.82	7.31	79	40.6	2470	2382.0	9.17	9.21	622	656	43.2	45.2	404	160070	201	32.2	1132	894	.77	1.72	1.70	2.86	9.25	8.70
752	1623	2387.2	2.97	3.79	7.00	79	41.7	2450	2382.8	9.15	9.24	622	690	43.2	45.3	406	160557	201	32.3	1708	895	.77	1.82	1.80	2.86	9.25	8.70
753	1627	2387.5	5.40	4.06	6.92	80	41.6	2470	2383.0	9.20	9.31	622	712	43.3	45.3	405	160839	201	32.3	999	895	.77	1.64	1.63	2.86	9.26	8.70
754	1632	2387.8	3.39	3.88	7.01	79	42.1	2470	2383.2	9.15	9.36	621	705	43.4	45.4	406	161261	201	32.4	1281	896	.78	1.78	1.77	2.86	9.26	8.70
755	1636	2388.1	4.10	4.02	6.83	79	42.6	2450	2383.4	9.15	9.35	620	705	43.5	45.9	404	161612	202	32.5	1279	896	.78	1.73	1.72	2.86	9.27	8.70
756	1641	2388.4	4.34	3.41	6.91	80	42.7	2460	2383.9	9.15	9.39	622	704	43.7	45.7	404	161946	202	32.6	1236	897	.78	1.72	1.70	2.86	9.27	8.70
757	1645	2388.7	3.73	3.97	7.02	79	41.9	2460	2384.1	9.15	9.41	621	678	43.6	45.8	405	162320	202	32.7	1513	897	.78	1.75	1.73	2.86	9.27	8.70
758	1650	2389.0	3.84	3.77	6.94	80	41.9	2450	2384.4	9.17	9.39	622	717	43.6	45.9	403	162697	203	32.7	1295	898	.78	1.75	1.73	2.86	9.27	8.70
759	1655	2389.3	3.56	3.71	6.99	79	40.8	2460	2384.8	9.18	9.38	622	720	43.7	45.7	404	163112	203	32.8	1325	899	.78	1.75	1.73	2.86	9.28	8.70
760	1701	2389.6	2.95	4.11	6.78	79	40.4	2480	2385.4	9.18	9.38	622	714	44.1	46.0	402	163601	203	32.9	1598	900	.79	1.80	1.78	2.86	9.28	8.70
761	1706	2389.9	4.36	3.32	6.56	80	40.2	2450	2385.6	9.16	9.38	622	696	44.0	45.6	401	163935	204	33.0	1443	900	.79	1.69	1.67	2.86	9.28	8.70
762	1711	2390.2	3.25	4.23	6.88	79	41.9	2470	2385.8	9.18	9.28	623	704	44.2	46.1	402	164374	204	33.1	1462	901	.79	1.79	1.77	2.86	9.28	8.70
763	1720	2390.5	5.07	3.96	6.80	79	40.1	2420	2386.1	9.20	9.27	607	657	44.0	45.8	414	164701	204	33.2	977	901	.79	1.64	1.62	2.86	9.29	8.70
764	1724	2390.9	3.94	4.08	7.34	78	41.3	2410	2386.4	9.22	9.18	613	677	42.8	45.9	409	165061	204	33.2	1359	902	.79	1.72	1.70	2.86	9.28	8.70
765	1730	2391.2	3.38	4.18	7.42	78	41.7	2400	2386.8	9.21	9.26	612	697	43.3	45.9	403	165481	205	33.3	1619	903	.79	1.77	1.75	2.86	9.29	8.70
766	1734	2391.5	4.16	4.11	7.30	78	41.4	2410	2387.0	9.21	9.28	613	644	43.7	45.6	401	165824	205	33.4	1219	903	.80	1.71	1.69	2.86	9.28	8.70
767	1740	2391.8	3.48	3.63	6.93	78	42.7	2410	2387.4	9.17	9.28	612	645	43.9	46.3	403	166273	205	33.5	1709	904	.80	1.78	1.76	2.86	9.29	8.70
768	1744	2392.1	3.46	4.08	7.17	78	41.3	2420	2387.7	9.13	9.27	612	627	43.7	46.0	403	166646	206	33.6	1411	905	.80	1.76	1.74	2.86	9.29	8.70
769	1751	2392.4	2.94	4.19	6.79	78	41.1	2410	2388.1	9.20	9.23	611	669	43.7	45.7	406	167134	206	33.7	1660	906	.80	1.80	1.79	2.87	9.29	8.70
770	1755	2392.7	4.80	4.16	6.72	78	41.5	2410	2388.4	9.21	9.25	612	651	43.6	45.9	406	167455	206	33.7	1138	906	.80	1.66	1.65	2.87	9.29	8.70
771	1758	2393.0	4.49	4.22	7.08	78	40.8	2430	2388.6	9.21	9.21	612	634	43.4	46.1	440	167747	207	33.8	1069	906	.80	1.67	1.66	2.87	9.30	8.70
772	1804	2393.3	3.32	4.44	6.86	78	40.4	2420	2389.0	9.22	9.22	613	670	38.7	45.7	436	168178	207	33.9	1397	907	.81	1.76	1.74	2.87	9.29	8.70
773	1809	2393.6	3.85	3.82	6.60	79	40.0	2410	2389.3	9.18	9.22	611	672	34.7	45.8	496	168550	207	34.0	1348	908	.81	1.71	1.69	2.87	9.30	8.70
774	1815	2393.9	3.04	3.53	6.76	78	40.9	2410	2389.6	9.15	9.24	613	693	34.3	45.5	493	169050	208	34.1	1480	909	.81	1.79	1.77	2.87	9.30	8.70
775	1819	2394.2	4.25	3.33	6.34	78	41.0	2410	2389.9	9.13	9.20	613	689	34.9	45.3	491	169365	208	34.1	1196	909	.81	1.69	1.67	2.87	9.31	8.70
776	1821	2394.5	11.3	3.48	5.32	79	39.5	2400	2389.9	9.13	9.20	614	709	34.9	45.3	491	169493	208	34.2	463	909	.81	1.39	1.37	2.87	9.31	8.70
777	1822	2394.8	17.4	3.29	5.19	79	38.5	2410	2390.0	9.19	9.26	614	704	35.1	45.1	490	169575	208	34.2	291	908	.81	1.26	1.24	2.87	9.31	8.70
778	1822	2395.1	26.3	3.36	5.90	80	36.5	2410	2390.0	9.19	9.26	614	688	35.1	45.1	491	169630	209	34.2	184	907	.81	1.13	1.11	2.87	9.31	8.70
779	1823	2395.4	28.2	3.54	5.15	79	39.4	2400	2390.0	9.19	9.26	614	689	35.1	45.1	491	169679	209	34.2	163	906	.81	1.13	1.11	2.87	9.31	8.70
780	1824	2395.7	23.5	3.37	5.13	79	40.4	2420	2390.1	9.18	9.29	613	672	35.7	44.9	491	169738	209	34.2	204	905	.81	1.19	1.17	2.87	9.32	8.70
781	1825	2396.0	20.4	3.52	5.17	79	38.6	2420	2390.1	9.18	9.29	614	666	35.7	44.9	489	169807	210	34.2	233	904	.81	1.21	1.20	2.87	9.32	8.70
782	1828	2396.3	6.49	3.45	6.76	78	40.8	2410	2390.3	9.19	9.26	613	696	35.7	45.0	489	170028	210	34.3	728	903	.81	1.56	1.55	2.87	9.32	8.70
783	1833	2396.7	3.52	4.28	6.63	78	40.0	2410	2390.6	9.19	9.30	613	699	35.9	44.7	488	170431	210	34.4	1538	904	.82	1.73	1.71	2.87	9.32	8.70
784	1835	2397.0	6.60	3.86	6.74	78	39.8	2390	2390.7	9.19	9.32	612	701	36.1	44.8	487	170645	211	34.4	841	904	.82	1.55	1.53	2.87	9.32	8.70
785	1838	2397.3	7.10	4.13	7.14	78	39.9	2410	2390.9	9.19	9.32	612	715	36.1	44.8	488	170844	211	34.5	760	904	.82	1.53	1.51	2.87	9.32	8.70
786	1839	2397.6	25.9	4.58	7.15	78	39.7	2400	2390.9	9.17	9.29	612	720	36.3	44.9	486	170893	211	34.5	188	903	.82	1.15	1.13	2.87	9.32	8.70
787	1840	2397.9	16.7	3.75	6.25	78	40.0	2400	2391.0	9.17	9.29	613	716	36.3	44.9	485	170977	212	34.5	317	902	.82	1.28	1.26	2.87	9.32	8.70
788	1841	2398.2	9.96	4.00	7.21	78	41.3	2400	2391.1	9.18	9.28	613	729	36.7	45.0	485	171116	212	34.5	337	901	.82	1.44	1.43	2.87	9.32	8.70
789	1843	2398.5	8.96	3.65	6.62	79	39.0	2400	2391.3	9.18	9.28	614	719	36.7	45.0	487	171276	212	34.5	599	901	.82	1.45	1.43	2.88	9.32	8.70
790	1845	2398.8	15.1	4.02	7.38	78	40.3	2420	2391.3	9.20	9.30	614	703	37.0	44.7	487	171369	212	34.6	323	900	.82	1.31	1.29	2.88	9.32	8.70
791	1847	2399.1	6.82	3.99	7.09	78	40.9	2420	2391.5	9.21	9.30	613	698	36.8	44.6	485	171577	213	34.6	-927	900	.82	1.55	1.53	2.88	9.32	8.70
792	1850	2399.4	7.50	4.42	7.11	78	39.9	2410	2391.6	9.21	9.30	613	729	36.8	44.6	487	171765	213	34.6	613	899	.82	1.51	1.49	2.88	9.33	8.70
793	1853	2399.7	5.15	3.95	6.70	78	39.5	2410	2391.9	9.24	9.35	614	696	36.6	44.9	486	172042	213	34.7	1169	899	.82	1.61	1.60	2.88	9.32	8.70
794	1859	2400.0	13.5	3.66	6.85	80	42.9	2410	2392.0	9.24	8.91	606	626	36.7	44.2	497	172175	214	34.7	549	899	.82	1.38	1.36	2.88	9.32	8.70
795	1901	2400.3	7.87	3.62	6.69	82	41.4	2400	2392.2	9.24	9.24	611	637	36.3	45.2	490	172346	214	34.8	1425	898	.82	1.53	1.51	2.88	9.32	8.70
796	1905	2400.6	4.60	4.41	6.92	83	40.6	2390	2392.4	9.24	9.24	612	669	36.3	45.2	489	172628	214	34.8	1059	898	.83	1.68	1.66	2.88	9.32	8.70
797	1909	2400.9	4.52	3.94	7.39	81	41.4	2400	2392.7	9.25	9.36	610	659	36.7	44.8	490	172964	215	34.9	1247	899	.83	1.69	1.67	2.88	9.32	8.70

AMOCO AUST. Tilana No.1 329183 Data Printed at time 21:16 Date Oct 9 115
Data Recorded at time 19:11 Date Sep 29 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NKB	ECD	EST FM PR
798	1911	2401.2	7.78	4.46	7.13	81	40.6	2390	2392.8	9.25	9.36	611	614	36.7	44.8	439	173154	215	34.9	343	899	.83	1.52	1.50	2.88	9.32	8.70
799	1913	2401.5	8.05	4.08	6.94	82	40.4	2390	2392.9	9.25	9.34	611	616	36.7	44.8	437	173336	215	35.0	602	898	.83	1.51	1.49	2.88	9.32	8.70
800	1916	2401.8	7.33	4.30	7.45	82	42.3	2380	2393.1	9.26	9.30	611	614	36.7	45.2	435	173541	215	35.0	633	898	.83	1.56	1.54	2.88	9.33	8.70
801	1918	2402.1	7.29	4.11	7.09	82	41.5	2390	2393.2	9.27	9.28	611	602	36.7	45.3	439	173724	216	35.0	615	897	.83	1.55	1.53	2.88	9.33	8.70
802	1920	2402.4	8.51	4.07	6.97	82	40.8	2380	2393.3	9.27	9.27	610	646	36.7	45.2	488	173897	216	35.1	631	897	.83	1.50	1.48	2.88	9.34	8.70
803	1924	2402.7	4.38	4.15	7.07	82	40.9	2370	2393.6	9.27	9.29	610	639	36.7	45.5	487	174234	216	35.2	853	897	.83	1.69	1.67	2.88	9.34	8.70
804	1928	2403.0	4.75	4.06	6.87	82	40.5	2380	2393.9	9.27	9.30	610	599	36.9	45.4	487	174545	217	35.2	980	897	.83	1.66	1.64	2.88	9.34	8.70
805	1932	2403.3	4.69	4.19	6.95	82	41.1	2390	2394.2	9.27	9.23	611	519	37.0	45.1	485	174863	217	35.3	989	897	.84	1.67	1.65	2.88	9.34	8.70
806	1936	2403.7	4.57	3.74	7.42	82	40.7	2400	2395.5	9.26	9.20	610	531	37.0	45.2	487	175187	217	35.3	1072	898	.84	1.67	1.65	2.88	9.34	8.70
807	1939	2404.0	5.02	4.05	6.58	81	41.4	2390	2396.1	9.27	9.21	609	573	37.1	44.8	484	175457	218	35.4	972	898	.84	1.65	1.63	2.88	9.34	8.70
808	1942	2404.3	5.93	3.83	7.41	83	41.5	2400	2396.3	9.25	9.17	610	555	37.3	44.9	486	175708	218	35.5	773	898	.84	1.61	1.59	2.88	9.34	8.70
809	1945	2404.6	8.00	4.02	7.49	82	40.1	2400	2396.5	9.25	9.17	610	582	37.3	44.9	484	175907	218	35.5	710	897	.84	1.50	1.48	2.89	9.35	8.70
810	1946	2404.9	9.98	3.68	6.63	82	37.2	2410	2396.7	9.27	9.21	611	600	37.1	44.9	485	176047	219	35.5	452	897	.84	1.41	1.39	2.89	9.35	8.70
811	1948	2405.2	13.2	4.64	7.40	82	38.6	2400	2396.9	9.27	9.21	611	567	37.1	44.9	487	176161	219	35.5	368	896	.84	1.34	1.32	2.89	9.35	8.70
812	1950	2405.5	10.1	4.91	7.48	82	41.1	2400	2397.2	9.26	9.25	611	590	37.2	44.9	484	176315	219	35.6	807	896	.84	1.45	1.42	2.89	9.36	8.70
813	1952	2405.8	8.67	4.22	7.36	81	40.7	2410	2397.6	9.28	9.25	611	554	37.3	44.8	486	176486	219	35.6	626	895	.84	1.48	1.46	2.89	9.36	8.70
814	1953	2406.1	14.7	4.18	7.47	80	40.5	2400	2397.9	9.28	9.25	610	584	37.3	44.8	486	176586	220	35.6	388	894	.84	1.33	1.31	2.89	9.36	8.70
815	1955	2406.4	8.29	3.91	6.72	83	40.9	2410	2398.3	9.27	9.25	611	578	37.2	44.9	486	176764	220	35.7	501	894	.85	1.50	1.48	2.89	9.37	8.70
816	1957	2406.7	7.56	3.85	6.97	83	40.7	2400	2398.6	9.25	9.28	610	626	37.2	44.9	487	176951	220	35.7	628	893	.85	1.53	1.51	2.89	9.37	8.70
817	2000	2407.0	7.86	4.07	7.17	82	40.7	2400	2398.9	9.25	9.31	611	624	37.1	44.8	488	177140	221	35.7	646	893	.85	1.51	1.49	2.89	9.37	8.70
818	2002	2407.3	7.47	4.04	7.09	81	40.3	2410	2399.3	9.28	9.30	610	575	37.0	45.0	485	177348	221	35.8	779	893	.85	1.52	1.50	2.89	9.37	8.70
819	2006	2407.6	5.45	3.79	7.11	82	41.2	2400	2399.5	9.25	9.27	611	605	37.0	44.9	486	177611	221	35.8	1000	893	.85	1.62	1.60	2.89	9.38	8.70
820	2023	2407.9	1.05	2.41	5.85	85	42.4	2400	2401.3	9.24	9.25	610	621	37.1	45.0	484	179159	222	36.1	9214	898	.86	2.13	2.10	2.89	9.39	8.70
821	2038	2408.2	1.23	3.23	7.33	84	41.9	2390	2402.9	9.24	9.32	610	614	37.0	45.2	485	180416	222	36.4	4116	903	.86	2.07	2.05	2.89	9.38	8.70
822	2044	2408.5	3.43	4.37	7.61	81	40.3	2400	2403.3	9.26	9.32	609	624	37.2	45.2	485	180845	222	36.5	1511	903	.86	1.74	1.72	2.89	9.38	8.70
823	2047	2408.8	5.09	4.01	7.69	80	40.5	2360	2403.6	9.23	9.32	608	639	37.2	45.3	486	181130	222	36.5	938	904	.86	1.63	1.61	2.89	9.38	8.70
824	2052	2409.1	4.03	3.80	7.58	82	41.3	2380	2404.0	9.22	9.36	610	614	37.4	45.3	483	181494	223	36.6	1236	904	.87	1.71	1.69	2.89	9.38	8.70
825	2059	2409.4	6.07	3.79	7.57	80	39.6	2410	2404.6	9.22	9.33	579	541	37.4	45.6	498	181750	223	36.7	830	904	.87	1.57	1.55	2.89	9.37	8.70
826	2103	2409.8	3.58	4.26	7.53	79	40.1	2400	2405.0	9.27	8.82	611	609	37.1	44.9	490	181895	223	36.7	499	903	.87	1.74	1.41	2.89	9.38	8.70
827	2105	2410.1	3.66	4.43	7.53	78	41.7	2370	2405.9	9.24	9.30	611	638	37.2	45.3	485	182280	224	36.8	2331	904	.87	1.73	1.71	2.89	9.37	8.70
828	2109	2410.4	5.45	4.07	7.48	79	41.1	2390	2406.4	9.22	9.37	611	675	37.5	45.1	482	182544	224	36.8	933	904	.87	1.61	1.59	2.89	9.37	8.70
829	2113	2410.7	3.71	4.13	7.49	80	41.2	2390	2406.9	9.22	9.36	610	640	37.6	45.6	479	182901	224	36.9	1145	904	.87	1.73	1.71	2.90	9.37	8.70
830	2122	2411.0	2.15	4.06	7.49	80	42.3	2380	2407.6	9.22	9.32	610	622	37.7	45.8	480	183623	225	37.1	2208	907	.88	1.90	1.88	2.90	9.36	8.70
831	2130	2411.3	2.15	4.27	7.58	79	42.1	2390	2407.7	9.24	9.30	609	626	37.9	46.1	480	184248	225	37.2	2229	908	.88	1.90	1.88	2.90	9.36	8.70
832	2140	2411.6	1.88	3.44	7.41	81	41.6	2370	2407.8	9.26	9.31	610	600	37.9	45.8	479	185026	225	37.3	2893	911	.88	1.94	1.92	2.90	9.35	8.70
833	2147	2411.9	2.58	3.17	7.29	80	41.4	2390	2408.0	9.26	9.28	610	615	38.3	45.7	478	185593	226	37.5	1980	912	.88	1.84	1.82	2.90	9.35	8.70
834	2152	2412.2	3.58	4.48	7.65	79	41.5	2400	2408.1	9.26	9.29	609	570	38.2	45.8	481	186023	226	37.6	1439	913	.89	1.74	1.72	2.90	9.35	8.70
835	2153	2412.5	18.2	5.91	7.71	70	38.7	2390	2408.2	9.26	9.28	609	604	38.2	45.9	481	186096	226	37.6	300	912	.89	1.21	1.19	2.90	9.35	8.70
836	2155	2412.8	10.6	5.52	7.81	74	39.9	2380	2408.3	9.26	9.28	609	568	38.2	45.9	481	186219	226	37.6	517	911	.89	1.39	1.37	2.90	9.36	8.70
837	2156	2413.1	13.0	5.93	7.64	76	38.9	2390	2408.4	9.26	9.30	609	563	38.3	45.9	481	186320	227	37.6	381	911	.89	1.33	1.31	2.90	9.36	8.70
838	2158	2413.4	9.21	5.73	7.67	75	39.4	2390	2408.6	9.26	9.30	607	581	38.3	45.9	480	186468	227	37.6	453	910	.89	1.43	1.41	2.90	9.36	8.70
839	2200	2413.7	11.8	5.76	7.69	77	38.7	2380	2408.7	9.26	9.31	608	564	38.4	45.9	480	186589	227	37.7	422	909	.89	1.36	1.34	2.90	9.36	8.70
840	2202	2414.0	9.66	5.90	7.72	73	40.5	2390	2408.8	9.26	9.31	609	612	38.4	45.9	481	186720	228	37.7	571	909	.89	1.42	1.40	2.90	9.36	8.70
841	2204	2414.3	8.36	5.44	7.80	72	40.5	2390	2409.0	9.26	9.32	608	578	38.4	45.7	481	186885	228	37.7	577	908	.89	1.46	1.44	2.90	9.36	8.70
842	2206	2414.6	8.03	5.10	7.72	75	41.0	2370	2409.1	9.24	9.34	608	577	38.5	45.7	481	187053	228	37.8	683	908	.89	1.48	1.47	2.90	9.36	8.70
843	2210	2414.9	5.05	4.67	7.70	76	40.7	2390	2409.4	9.25	9.34	609	591	38.6	46.0	480	187324	229	37.8	1177	908	.89	1.62	1.60	2.90	9.36	8.70
844	2216	2415.2	3.06	4.42	7.70	78	40.1	2410	2409.9	9.24	9.33	609	644	38.7	45.7	480	187783	229	37.9	1967	909	.89	1.76	1.74	2.90	9.36	8.70
845	2218	2415.5	6.85	4.77	7.56	78	41.2	2400	2410.1	9.22	9.32	609	620	38.8	45.6	480	187988	229	38.0	679	909	.90	1.54	1.52	2.90	9.36	8.70
846	2221	2415.8	7.71	5.15	7.65	77	42.4	2390	2410.3	9.23	9.32	609	642	38.9	45.7	478	188170	229	38.0	677	909	.90	1.52	1.50	2.90	9.36	8.70
847	2223	2416.2	8.22	3.07	7.49	80	41.9	2410	2410.4	9.22	9.34	610	660	39.2	46.1	479	188347	230	38.1	626	908	.90	1.51	1.48	2.90	9.37	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DKC	NX	NKB	BCD	EST FM PR
848	2224	2416.5	20.5	3.48	5.42	82	43.4	2410	2410.5	9.22	9.34	611	669	39.2	46.1	479	183420	230	38.1	277	907	.90	1.26	1.24	2.90	9.37	8.70
849	2225	2416.8	15.1	3.11	4.91	81	42.0	2400	2410.5	9.22	9.34	611	654	39.2	46.1	478	183516	230	38.1	359	907	.90	1.33	1.31	2.91	9.37	8.70
850	2226	2417.1	17.1	3.64	6.99	81	41.7	2390	2410.6	9.23	9.33	611	644	38.7	45.9	479	183601	231	38.1	232	906	.90	1.29	1.27	2.91	9.37	8.70
851	2228	2417.4	8.82	2.85	6.25	81	43.1	2400	2410.6	9.23	9.33	609	658	38.7	45.9	477	183766	231	38.1	2344	905	.90	1.50	1.48	2.91	9.37	8.70
852	2233	2417.7	3.52	2.38	5.50	84	42.1	2410	2410.9	9.21	9.33	611	632	38.8	45.7	478	189198	231	38.2	1126	906	.90	1.77	1.74	2.91	9.37	8.70
853	2240	2418.0	2.97	3.46	7.62	79	42.3	2400	2411.1	9.22	9.35	608	623	38.9	46.0	477	189728	232	38.3	2151	907	.90	1.80	1.78	2.91	9.37	8.70
854	2249	2418.3	1.82	4.13	7.63	79	43.4	2380	2411.4	9.22	9.37	609	599	39.0	46.0	476	190457	232	38.5	2906	909	.91	1.96	1.94	2.91	9.37	8.70
855	2254	2418.6	3.81	4.13	7.69	79	42.0	2380	2411.5	9.21	9.36	608	626	39.0	46.5	474	190864	232	38.6	1497	910	.91	1.73	1.70	2.91	9.37	8.70
856	2300	2418.9	3.52	4.45	7.55	64	37.6	2420	2411.7	9.24	8.83	618	597	39.0	45.0	482	190958	233	38.6	330	909	.91	1.76	1.21	2.91	9.37	8.70
857	2303	2419.2	7.06	4.51	7.69	66	41.9	2410	2411.8	9.26	9.34	611	592	38.6	46.5	480	191137	233	38.6	2493	909	.91	1.49	1.48	2.91	9.37	8.70
858	2308	2419.5	3.41	4.06	7.64	69	42.5	2410	2412.8	9.27	9.35	610	587	38.6	46.5	478	191497	233	38.7	1672	910	.91	1.73	1.71	2.91	9.37	8.70
859	2314	2419.8	2.80	4.97	7.73	72	42.7	2400	2413.8	9.26	9.38	610	620	38.8	46.4	478	191927	233	38.8	1677	911	.91	1.80	1.78	2.91	9.36	8.70
860	2325	2420.1	1.74	3.95	7.72	72	43.1	2390	2414.9	9.23	9.45	609	622	39.4	46.4	473	192721	234	39.0	2005	913	.92	1.95	1.93	2.91	9.35	8.70
861	2332	2420.4	2.44	4.69	7.67	71	43.9	2380	2415.5	9.27	9.42	611	648	39.3	46.6	473	193231	234	39.1	2017	915	.92	1.86	1.84	2.91	9.35	8.70
862	2340	2420.7	2.58	3.73	7.65	71	42.8	2400	2417.1	9.26	9.38	611	650	39.4	46.6	470	193743	234	39.3	1957	916	.92	1.82	1.81	2.91	9.35	8.70
863	2350	2421.0	1.85	4.33	7.66	71	43.6	2360	2417.7	9.27	9.34	611	641	39.6	46.3	467	194493	235	39.4	2667	918	.92	1.94	1.92	2.91	9.34	8.70
	Date	Sep 30 '85																									
864	0000	2421.3	1.71	4.44	7.65	73	44.2	2380	2418.1	9.26	9.37	611	660	39.9	46.6	465	195228	235	39.6	2941	921	.93	1.97	1.95	2.91	9.35	8.70
865	0009	2421.6	2.02	4.58	7.67	72	43.5	2410	2418.5	9.27	9.34	611	644	40.3	46.9	464	195877	235	39.7	2555	923	.93	1.91	1.89	2.91	9.35	8.70
866	0015	2421.9	2.97	4.86	7.58	71	43.2	2430	2419.1	9.30	9.36	611	609	40.6	46.6	463	196332	236	39.8	1831	924	.93	1.79	1.77	2.91	9.35	8.70
867	0024	2422.2	2.16	3.45	7.62	74	44.0	2370	2419.5	9.28	9.36	609	614	41.2	46.8	465	196941	236	40.0	2564	926	.93	1.90	1.88	2.91	9.36	8.70
868	0034	2422.6	1.78	3.37	7.57	73	43.9	2380	2419.9	9.26	9.37	609	597	41.9	46.8	463	197705	236	40.2	2449	928	.94	1.96	1.94	2.91	9.37	8.70
869	0043	2422.9	2.05	4.15	7.59	73	43.7	2390	2420.2	9.27	9.38	608	603	41.9	46.7	465	198339	237	40.3	2330	930	.94	1.91	1.89	2.92	9.37	8.70
870	0052	2423.2	2.00	4.39	7.58	75	44.2	2390	2420.6	9.29	9.38	609	608	41.7	46.7	465	199030	237	40.5	2576	932	.94	1.93	1.91	2.92	9.37	8.70
871	0059	2423.5	2.74	3.65	7.57	75	44.0	2400	2420.8	9.29	9.40	610	612	41.9	46.8	466	199522	237	40.6	1799	933	.94	1.83	1.81	2.92	9.37	8.70
872	0104	2423.8	3.21	4.43	7.59	75	43.6	2340	2420.9	9.27	9.41	610	546	41.9	46.9	464	199946	237	40.7	1522	934	.95	1.78	1.76	2.92	9.38	8.70
873	0114	2424.1	1.81	3.85	7.56	76	44.2	2390	2421.3	9.28	9.43	609	658	42.3	46.9	463	200597	238	40.8	2540	936	.95	1.96	1.94	2.92	9.38	8.70
874	0124	2424.4	1.85	4.00	7.58	75	43.9	2400	2421.6	9.26	9.39	609	604	42.1	46.6	462	201443	238	41.0	2623	938	.95	1.95	1.93	2.92	9.38	8.70
875	0141	2424.7	1.09	3.33	6.93	77	44.4	2390	2422.2	9.27	9.42	609	633	42.4	47.0	464	202722	238	41.3	5386	943	.96	2.12	2.09	2.92	9.39	8.70
876	0155	2425.0	1.34	3.94	7.18	77	43.9	2400	2422.7	9.31	9.41	610	709	42.2	47.1	466	203753	239	41.5	3933	947	.96	2.05	2.03	2.92	9.38	8.70
877	0159	2425.3	4.23	4.19	7.42	74	43.7	2390	2422.8	9.29	9.42	610	694	41.7	47.0	467	204075	239	41.6	1135	947	.96	1.70	1.68	2.92	9.38	8.70
878	0202	2425.6	6.09	3.96	6.77	77	43.8	2420	2422.9	9.30	9.42	611	697	41.7	47.2	466	204304	239	41.6	848	947	.97	1.60	1.58	2.92	9.38	8.70
879	0206	2425.9	4.70	3.27	7.59	79	43.4	2380	2423.1	9.32	9.44	610	669	41.6	47.2	466	204610	240	41.7	1462	947	.97	1.68	1.66	2.92	9.38	8.70
880	0210	2426.2	4.23	3.93	7.58	80	44.7	2370	2423.3	9.31	9.47	609	629	41.8	47.1	462	204953	240	41.8	1075	947	.97	1.73	1.71	2.92	9.39	8.70
881	0219	2426.5	2.01	3.77	7.66	79	44.7	2390	2423.7	9.23	9.46	608	633	41.5	46.8	464	205652	240	41.9	2014	949	.97	1.95	1.92	2.92	9.39	8.70
882	0229	2426.8	1.93	3.81	7.66	77	45.3	2350	2424.0	9.28	9.44	608	607	41.8	46.9	466	206375	240	42.1	2629	951	.97	1.96	1.94	2.92	9.39	8.70
883	0245	2427.1	1.11	4.30	7.65	77	45.1	2380	2424.4	9.28	9.46	610	584	39.9	47.3	466	207633	241	42.3	4079	956	.98	2.12	2.10	2.92	9.39	8.70
884	0259	2427.4	1.31	4.23	7.70	76	45.1	2360	2424.6	9.29	9.47	609	610	39.4	47.5	465	208692	241	42.6	4085	959	.98	2.07	2.05	2.92	9.39	8.70
885	0315	2427.7	1.16	4.00	7.69	75	45.5	2390	2425.6	9.30	9.49	610	615	40.9	47.4	465	209876	241	42.8	4691	963	.99	2.10	2.08	2.92	9.39	8.70
886	0321	2428.6	1.13	3.67	7.67	73	45.5	2390	2426.0	9.29	9.52	610	610	41.5	47.4	473	210243	243	42.9	3758	960	.99	2.10	2.00	2.93	9.29	8.70
887	0333	2429.6	1.01	4.24	7.63	78	41.5	2400	2426.6	9.23	9.50	610	616	41.7	47.4	465	210881	243	43.0	4917	961	.99	2.13	2.11	2.93	9.40	8.70
+ NB#13 SMITH F3 12.25" 3x14 jets. Start depth 2429.6m.																											
889	2005	2429.7	1.32	2.06	2.45	70	12.7	2820	2429.6	9.35	9.10	484	469	32.9	42.8	547	472	.10	.1	846	2E+05	.00	1.46	1.47	2.93	9.36	8.70
890	2016	2430.2	2.52	2.16	2.58	82	18.8	2790	2429.6	9.33	9.13	484	472	33.7	42.0	546	1396	.57	.3	1663	35104	.01	1.48	1.49	2.93	9.38	8.70
891	2023	2430.5	2.78	2.21	2.40	87	23.2	2790	2429.6	9.21	9.35	483	499	34.2	41.7	545	1966	.87	.4	1788	23470	.01	1.56	1.56	2.93	9.38	8.70
892	2028	2430.8	3.54	2.18	2.50	87	24.9	2810	2429.6	9.20	9.44	485	535	34.8	42.3	544	2431	1.16	.5	1744	18031	.02	1.52	1.53	2.93	9.38	8.70
893	2032	2431.1	4.93	2.25	2.45	86	31.0	2780	2429.6	9.19	9.48	483	556	35.1	42.7	543	2738	1.48	.6	1077	14327	.02	1.53	1.54	2.93	9.38	8.70
894	2039	2431.4	2.61	2.23	2.38	86	31.1	2800	2429.6	9.19	9.43	486	547	35.7	43.4	542	3341	1.79	.7	1741	12229	.03	1.70	1.71	2.93	9.38	8.70
895	2044	2431.7	3.37	2.18	2.40	87	30.0	2790	2429.6	9.19	9.37	485	556	36.1	43.6	544	3811	2.09	.8	1393	10665	.03	1.62	1.62	2.93	9.38	8.70
896	2051	2432.0	2.61	2.24	2.79	87	30.6	2840	2429.6	9.21	9.36	489	564	36.6	43.8	544	4433	2.39	.9	2102	9582	.03	1.70	1.70	2.94	9.37	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST FM PR
897	2054	2432.3	5.58	2.33	2.86	87	34.0	2800	2429.6	9.22	9.37	488	561	36.8	44.4	543	4681	2.70	.9	887	8564	.04	1.54	1.55	2.94	9.37	8.70
898	2057	2432.6	5.81	2.42	3.32	89	39.0	2800	2429.6	9.21	9.37	487	564	37.1	44.4	543	4959	3.01	1.0	834	7797	.04	1.60	1.61	2.94	9.37	8.70
899	2102	2432.9	3.98	2.44	3.14	88	41.0	2790	2429.6	9.20	9.17	486	558	37.7	44.1	544	5366	3.30	1.1	1503	7218	.04	1.73	1.74	2.94	9.37	8.70
900	2106	2433.2	4.24	2.40	2.70	88	41.4	2830	2429.6	9.20	9.07	491	555	37.6	43.1	544	5745	3.60	1.1	1167	6713	.04	1.72	1.73	2.94	9.37	8.70
901	2111	2433.5	3.76	2.42	3.02	88	41.1	2830	2429.6	9.20	9.29	491	477	37.8	42.2	544	6167	3.92	1.2	1425	6260	.05	1.75	1.76	2.94	9.37	8.70
902	2115	2433.8	4.08	2.33	2.81	89	40.6	2830	2429.6	9.20	9.24	490	484	36.5	43.5	542	6564	4.23	1.3	1242	5895	.05	1.72	1.73	2.94	9.36	8.70
903	2123	2434.1	4.58	2.36	2.69	88	41.6	2830	2429.6	9.19	9.08	491	453	37.4	44.0	535	7230	4.52	1.4	1134	5655	.06	1.70	1.71	2.94	9.36	8.70
904	2126	2434.4	6.60	2.44	2.73	89	41.4	2810	2429.6	9.19	9.19	491	473	37.8	43.9	533	7472	4.84	1.5	711	5337	.06	1.60	1.60	2.94	9.35	8.70
905	2129	2434.7	4.75	2.45	2.75	88	42.4	2820	2429.6	9.18	9.25	491	449	37.9	44.0	533	7811	5.14	1.5	1078	5096	.06	1.70	1.71	2.94	9.35	8.70
906	2134	2435.0	4.00	2.39	3.47	88	41.8	2820	2429.6	9.15	9.27	490	465	38.2	43.7	533	8212	5.45	1.6	1367	4864	.06	1.75	1.75	2.94	9.34	8.70
907	2137	2435.4	5.76	2.37	2.64	89	41.8	2810	2429.7	9.19	9.28	490	461	38.2	43.6	533	8492	5.75	1.7	882	4653	.06	1.64	1.65	2.94	9.34	8.70
908	2140	2435.7	6.49	2.45	3.08	88	41.9	2810	2429.8	9.18	9.29	490	447	38.3	43.7	532	8733	6.06	1.7	768	4456	.07	1.61	1.61	2.94	9.34	8.70
909	2143	2436.0	6.11	2.40	3.32	88	41.4	2810	2430.0	9.20	9.29	490	451	38.5	43.8	534	9000	6.36	1.7	772	4295	.07	1.62	1.62	2.94	9.33	8.70
910	2146	2436.3	6.97	2.39	2.58	88	42.3	2820	2430.0	9.20	9.29	491	475	38.5	43.8	533	9230	6.66	1.8	733	4119	.07	1.59	1.60	2.94	9.33	8.70
911	2148	2436.6	6.20	2.41	3.42	88	43.3	2810	2430.2	9.19	9.30	491	450	38.6	43.8	532	9483	6.97	1.8	778	3975	.07	1.64	1.64	2.94	9.32	8.70
912	2152	2436.9	5.31	2.31	2.59	88	40.8	2810	2430.4	9.18	9.28	490	457	38.8	43.7	532	9809	7.27	1.9	915	3852	.08	1.65	1.66	2.94	9.32	8.70
913	2155	2437.2	6.13	2.39	2.55	88	41.5	2790	2430.5	9.21	9.28	489	470	39.2	43.8	532	10053	7.58	1.9	834	3726	.08	1.63	1.63	2.94	9.32	8.70
914	2158	2437.5	6.06	2.35	2.85	88	42.3	2790	2430.7	9.20	9.29	490	465	39.6	43.9	532	10318	7.88	2.0	919	3614	.08	1.64	1.64	2.94	9.31	8.70
915	2202	2437.8	4.31	2.34	2.57	88	42.3	2770	2430.9	9.18	9.30	488	468	39.7	44.2	532	10692	8.19	2.1	1205	3523	.08	1.74	1.74	2.94	9.31	8.70
916	2205	2438.1	5.24	2.33	2.57	89	41.8	2760	2431.1	9.16	9.30	488	467	39.7	44.1	532	10934	8.49	2.1	936	3428	.08	1.68	1.68	2.95	9.31	8.70
917	2208	2438.4	6.31	2.39	2.54	99	42.1	2760	2431.2	9.18	9.29	488	477	39.7	44.3	531	11240	8.80	2.2	803	3336	.09	1.63	1.63	2.95	9.31	8.70
918	2213	2438.7	4.24	2.38	3.14	88	41.8	2760	2431.4	9.17	9.27	488	482	39.7	44.2	530	11617	9.10	2.2	1099	3265	.09	1.74	1.74	2.95	9.31	8.70
919	2215	2439.0	6.58	2.33	2.52	89	40.3	2750	2431.6	9.19	9.25	488	471	39.6	44.2	536	11861	9.41	2.3	933	3134	.09	1.59	1.59	2.95	9.31	8.70
920	2219	2439.3	5.52	2.36	2.50	88	41.4	2740	2431.7	9.21	9.27	487	460	39.5	44.3	533	12153	9.71	2.3	837	3112	.09	1.65	1.66	2.95	9.31	8.70
921	2230	2439.6	8.91	2.23	2.80	75	39.3	2370	2432.3	9.19	9.25	443	430	39.4	44.3	528	12506	10.0	2.4	331	3058	.10	1.44	1.45	2.95	9.30	8.70
922	2233	2439.9	7.00	2.24	3.02	71	37.6	610	2432.5	9.16	9.27	360	314	39.6	44.3	517	12741	10.2	2.5	1951	3025	.10	1.48	1.49	2.95	9.30	8.70
923	2237	2440.2	4.93	2.46	3.21	57	39.9	750	2432.7	9.12	9.27	386	359	39.4	44.2	511	13078	10.5	2.5	1667	2964	.10	1.54	1.57	2.95	9.31	8.70
924	2243	2440.5	2.86	2.33	3.56	87	39.5	2760	2433.1	9.15	9.28	487	481	39.1	44.0	504	13638	10.9	2.6	1286	2896	.10	1.82	1.82	2.95	9.31	8.70
925	2247	2440.8	4.18	2.35	2.80	91	39.5	2890	2433.3	9.12	9.27	504	498	39.0	44.0	501	14024	11.2	2.7	1195	2848	.11	1.72	1.72	2.95	9.31	8.70
926	2251	2441.1	4.25	2.47	3.19	91	42.1	2880	2433.6	9.13	9.29	504	530	38.8	44.1	500	14414	11.5	2.8	1214	2804	.11	1.75	1.75	2.95	9.30	8.70
927	2258	2441.4	4.72	1.76	3.09	89	19.9	2690	2433.9	9.14	9.30	480	441	38.8	44.3	506	14559	11.8	2.8	1137	2744	.11	1.73	1.73	2.95	9.30	8.70
928	2304	2441.9	4.59	2.33	3.25	53	39.1	600	2434.5	9.15	9.28	241	16	37.6	44.7	501	15013	12.0	2.9	869	2742	.12	1.54	1.56	2.95	9.28	8.70
929	2311	2442.1	3.72	2.21	4.12	74	37.9	2970	2434.9	9.15	9.28	505	489	38.2	44.3	501	15616	12.5	3.0	2043	2693	.12	1493	1.77	2.95	9.29	8.70
930	2315	2442.4	5.16	2.19	3.26	90	40.1	3050	2435.3	9.15	9.30	511	489	38.2	44.1	498	15941	12.7	3.1	1205	2659	.12	1.67	1.67	2.95	9.29	8.70
931	2318	2442.7	6.00	2.32	3.38	87	39.9	3060	2435.6	9.14	9.31	512	506	38.0	44.2	496	16201	13.1	3.1	862	2610	.12	1.61	1.61	2.95	9.29	8.70
932	2322	2443.0	4.07	2.09	2.60	87	39.6	3080	2436.0	9.13	9.32	513	508	38.0	44.4	494	16590	13.3	3.2	1639	2582	.13	1.72	1.72	2.95	9.29	8.70
933	2327	2443.3	3.74	2.14	3.44	86	42.0	2780	2436.6	9.14	9.30	498	498	37.8	44.7	494	17008	13.7	3.3	1542	2554	.13	1.77	1.78	2.95	9.28	8.70
934	2331	2443.6	4.68	2.45	3.41	84	41.1	2770	2436.9	9.13	9.30	483	469	37.9	44.7	494	17335	14.0	3.3	1054	2520	.13	1.69	1.69	2.95	9.28	8.70
935	2334	2443.9	5.42	2.52	3.52	84	40.9	2760	2437.2	9.14	9.29	485	473	38.0	44.5	494	17619	14.3	3.4	867	2484	.14	1.65	1.65	2.95	9.28	8.70
936	2337	2444.2	6.68	2.30	3.14	86	40.7	2770	2437.4	9.15	9.28	484	465	38.0	44.7	495	17854	14.6	3.4	771	2448	.14	1.59	1.59	2.96	9.27	8.70
937	2338	2444.3	12.6	2.09	2.39	87	41.7	2770	2437.5	9.15	9.28	484	474	38.0	44.7	494	17911	14.7	3.4	680	2428	.14	1.42	1.42	2.96	9.28	8.70
938	2343	2444.8	5.63	2.24	3.29	87	41.3	2770	2437.9	9.14	9.30	484	481	38.0	44.7	495	18342	15.2	3.5	1059	2381	.14	1.65	1.65	2.96	9.27	8.70
939	2346	2445.1	5.63	2.23	3.15	87	41.4	2770	2438.1	9.13	9.30	484	477	38.1	44.8	492	18623	15.5	3.6	907	2351	.14	1.65	1.65	2.96	9.27	8.70
940	2349	2445.4	6.51	2.18	2.65	87	40.7	2760	2438.3	9.13	9.30	484	484	38.0	44.8	492	18867	15.8	3.6	-734	2321	.14	1.60	1.60	2.96	9.27	8.70
941	2351	2445.7	6.28	2.32	3.36	87	41.4	2770	2438.6	9.13	9.30	484	487	38.0	44.8	491	19117	16.1	3.7	734	2292	.15	1.62	1.62	2.96	9.27	8.70
942	2355	2446.0	4.85	2.24	3.08	87	40.9	2770	2438.9	9.13	9.31	483	478	37.9	44.8	491	19442	16.4	3.7	903	2269	.15	1.69	1.69	2.96	9.27	8.70
943	2359	2446.3	4.97	2.16	2.48	87	41.9	2770	2439.2	9.14	9.30	484	483	38.0	44.9	492	19760	16.7	3.8	1005	2246	.15	1.70	1.70	2.96	9.26	8.70
	Date	Oct 1 '85																									
944	0002	2446.6	6.26	2.19	3.34	86	42.1	2770	2439.3	9.15	9.29	484	480	38.1	45.0	492	20011	17.0	3.9	790	2220	.15	1.63	1.63	2.96	9.26	8.70
945	0004	2447.0	8.28	2.17	3.06	86	41.1	2780	2439.6	9.15	9.29	484	476	38.1	45.0	492	20210	17.3	3.9	587	2195	.15	1.53	1.54	2.96	9.26	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NX	NXB	ECD	EST FM PR
946	0006	2447.2	9.06	2.19	2.78	86	39.9	2770	2439.8	9.16	9.29	484	490	38.1	44.8	492	20374	17.6	3.9	523	2163	.16	1.49	1.49	2.96	9.26	8.70
947	0010	2447.5	5.12	2.10	3.12	86	40.3	2770	2440.1	9.13	9.28	434	472	38.2	44.9	492	20679	17.9	4.0	866	2143	.16	1.67	1.67	2.96	9.26	8.70
948	0016	2447.9	2.80	2.05	3.10	86	40.2	2780	2440.6	9.15	9.28	484	476	38.2	44.9	491	21265	18.2	4.1	1568	2138	.16	1.84	1.84	2.96	9.25	8.70
949	0020	2448.2	5.68	2.06	3.05	87	39.3	2770	2440.9	9.15	9.27	484	471	38.3	44.9	491	21544	18.6	4.1	914	2117	.16	1.63	1.63	2.96	9.25	8.70
950	0022	2448.5	8.14	2.21	3.05	87	40.3	2780	2441.0	9.15	9.29	484	493	38.3	45.1	492	21731	18.9	4.2	628	2093	.17	1.53	1.53	2.96	9.26	8.70
951	0033	2448.8	10.3	2.18	3.08	87	39.5	2650	2441.3	9.16	9.29	417	350	38.5	44.9	507	21907	19.2	4.2	503	2068	.17	1.46	1.46	2.96	9.24	8.70
952	0033	2449.1	9.66	2.30	2.63	85	34.1	2670	2441.3	9.16	9.29	433	372	38.5	44.9	506	21922	19.5	4.2	527	2039	.17	1.48	1.48	2.96	9.25	8.70
953	0035	2449.4	14.1	2.45	3.23	86	40.1	2780	2441.4	9.16	9.29	480	458	38.5	44.9	503	22016	19.8	4.2	375	2010	.17	1.37	1.37	2.96	9.26	8.70
954	0036	2449.7	12.0	2.30	3.24	86	39.0	2770	2441.4	9.15	9.28	484	488	38.4	45.1	500	22146	20.1	4.3	400	1986	.17	1.40	1.40	2.97	9.25	8.70
955	0038	2450.0	9.34	2.27	3.04	87	39.9	2780	2441.5	9.15	9.28	484	486	38.4	45.1	496	22313	20.4	4.3	473	1964	.17	1.49	1.49	2.97	9.26	8.70
956	0040	2450.3	8.45	2.24	2.99	87	38.9	2790	2441.7	9.14	9.27	485	491	38.4	44.8	495	22501	20.7	4.3	556	1944	.17	1.51	1.51	2.97	9.26	8.70
957	0043	2450.6	6.27	2.21	3.07	88	39.2	2780	2441.9	9.13	9.26	485	487	38.4	44.9	492	22754	21.0	4.4	680	1927	.17	1.60	1.60	2.97	9.27	8.70
958	0046	2450.9	5.57	2.24	3.19	87	39.1	2790	2442.1	9.13	9.25	485	481	38.4	45.2	491	23049	21.3	4.4	896	1914	.18	1.63	1.63	2.97	9.27	8.70
959	0049	2451.2	6.11	2.30	3.34	87	39.8	2780	2442.4	9.12	9.26	485	498	38.3	45.2	490	23306	21.6	4.5	870	1898	.18	1.61	1.61	2.97	9.27	8.70
960	0051	2451.5	8.79	2.31	3.47	87	40.6	2780	2442.6	9.12	9.26	485	494	38.3	45.2	489	23480	21.9	4.5	587	1879	.18	1.51	1.51	2.97	9.27	8.70
961	0058	2451.8	7.90	2.25	3.78	87	40.1	2600	2442.9	9.11	9.27	480	456	38.4	45.1	493	23673	22.2	4.6	632	1861	.18	1.54	1.54	2.97	9.27	8.70
962	0102	2452.1	4.24	2.18	3.05	88	39.3	2610	2443.1	9.14	9.26	479	443	37.9	45.3	490	24047	22.5	4.6	909	1852	.18	1.71	1.71	2.97	9.27	8.70
963	0106	2452.4	4.28	2.21	3.25	88	39.8	2630	2443.4	9.14	9.26	482	460	37.0	45.1	489	24428	22.8	4.7	1155	1844	.19	1.72	1.71	2.97	9.26	8.70
964	0111	2452.7	4.09	2.16	3.19	88	38.9	2610	2443.9	9.12	9.26	482	461	36.5	45.0	487	24817	23.1	4.8	1237	1835	.19	1.72	1.71	2.97	9.26	8.70
965	0115	2453.0	4.35	2.19	2.57	88	39.6	2630	2444.3	9.13	9.26	487	465	36.5	45.4	487	25179	23.4	4.8	1160	1825	.19	1.71	1.71	2.97	9.26	8.70
966	0119	2453.3	4.29	2.24	3.19	88	40.2	2580	2444.8	9.14	9.26	482	444	36.7	45.4	488	25551	23.7	4.9	1134	1817	.20	1.72	1.72	2.97	9.26	8.70
967	0123	2453.6	5.20	2.26	3.09	88	39.5	2540	2445.1	9.14	9.26	481	443	36.6	45.3	487	25857	24.0	5.0	917	1806	.20	1.65	1.65	2.97	9.26	8.70
968	0128	2453.9	3.24	2.24	2.55	87	40.3	2550	2445.6	9.13	9.26	484	474	36.5	45.2	487	26347	24.3	5.1	1478	1803	.20	1.80	1.80	2.97	9.26	8.70
969	0133	2454.2	3.74	2.27	3.11	87	39.4	2560	2446.1	9.14	9.26	485	499	36.5	45.2	487	26772	24.6	5.1	1372	1798	.20	1.75	1.75	2.97	9.26	8.70
970	0138	2454.6	3.67	2.31	3.08	87	39.9	2540	2446.5	9.14	9.26	487	487	36.4	45.4	488	27206	25.0	5.2	1416	1792	.21	1.76	1.76	2.97	9.26	8.70
971	0142	2454.9	4.51	2.21	3.16	88	39.0	2510	2447.0	9.15	9.27	487	510	36.4	45.1	488	27560	25.3	5.3	1277	1784	.21	1.69	1.69	2.97	9.26	8.70
972	0147	2455.2	3.66	2.17	3.11	87	39.3	2500	2447.5	9.14	9.25	487	488	36.6	45.6	487	27996	25.6	5.4	1358	1779	.21	1.75	1.75	2.97	9.26	8.70
973	0154	2455.5	2.80	2.25	3.23	87	39.7	2470	2447.9	9.14	9.27	488	484	36.6	45.5	487	28564	25.9	5.5	1782	1779	.22	1.84	1.83	2.97	9.26	8.70
974	0159	2455.8	3.47	2.23	2.85	88	40.0	2420	2448.5	9.14	9.26	488	475	36.8	45.3	487	29025	26.2	5.6	1494	1775	.22	1.78	1.78	2.98	9.26	8.70
975	0204	2456.1	3.35	2.24	2.50	87	39.8	2490	2448.9	9.15	9.27	488	470	37.0	45.6	487	29499	26.5	5.7	1596	1771	.23	1.79	1.78	2.98	9.26	8.70
976	0207	2456.4	5.99	2.31	3.22	87	40.7	2320	2449.5	9.14	9.28	613	454	37.1	45.4	486	29765	26.8	5.7	883	1761	.23	1.63	1.62	2.98	9.27	8.70
977	0219	2456.7	2.26	2.17	3.18	87	39.2	2730	2450.8	9.14	9.29	478	510	38.5	45.4	484	30461	27.1	5.9	1782	1766	.23	1.89	1.89	2.98	9.25	8.70
978	0224	2457.0	3.96	2.22	3.04	87	39.3	2720	2451.3	9.13	9.30	478	511	38.6	45.3	483	30960	27.4	5.9	1126	1760	.24	1.73	1.73	2.98	9.25	8.70
979	0229	2457.3	3.89	2.18	3.01	87	39.7	2720	2451.6	9.13	9.33	478	521	38.9	45.6	483	31292	27.7	6.0	1429	1757	.24	1.74	1.74	2.98	9.25	8.70
980	0234	2457.6	3.43	2.26	3.11	87	39.3	2740	2452.1	9.13	9.33	518	529	39.1	45.6	482	31725	28.0	6.1	1475	1752	.24	1.77	1.77	2.98	9.26	8.70
981	0239	2457.9	3.72	2.19	2.92	87	39.8	2740	2452.4	9.15	9.33	479	525	39.3	45.6	481	32173	28.3	6.2	1431	1748	.25	1.75	1.75	2.98	9.25	8.70
982	0246	2458.2	3.62	2.24	2.93	87	36.8	2740	2452.8	9.15	9.33	480	521	39.5	45.6	487	32329	28.6	6.2	1348	1735	.25	1.77	1.77	2.98	9.25	8.70
983	0249	2458.5	3.42	2.16	2.54	89	38.5	2740	2453.0	9.15	9.33	480	524	39.5	45.6	482	32613	28.9	6.3	1464	1727	.25	1.78	1.78	2.98	9.25	8.70
984	0254	2458.8	3.82	2.35	2.86	89	39.5	2740	2453.3	9.15	9.34	480	539	39.9	45.6	480	33033	29.2	6.3	1158	1722	.25	1.75	1.75	2.98	9.25	8.70
985	0259	2459.1	3.19	2.29	3.53	89	40.2	2740	2453.8	9.15	9.34	480	540	39.6	45.9	479	33537	29.5	6.4	1568	1720	.26	1.81	1.81	2.98	9.25	8.70
986	0305	2459.4	3.29	2.30	3.07	89	40.1	2750	2454.1	9.15	9.34	480	528	39.7	45.8	481	34027	29.8	6.5	1539	1717	.26	1.80	1.80	2.98	9.25	8.70
987	0310	2459.7	3.25	2.26	3.63	89	39.5	2740	2454.5	9.17	9.34	480	524	39.9	46.1	481	34524	30.1	6.6	1578	1715	.26	1.80	1.79	2.98	9.25	8.70
988	0316	2460.0	3.56	2.16	2.93	89	39.3	2750	2454.8	9.16	9.35	480	517	39.8	46.0	481	34979	30.4	6.7	1421	1712	.27	1.77	1.76	2.98	9.25	8.70
989	0320	2460.3	4.57	2.21	3.10	87	39.3	2750	2455.0	9.15	9.35	480	537	39.9	46.0	480	35328	30.7	6.8	1064	1706	.27	1.69	1.69	2.98	9.25	8.70
990	0327	2460.7	2.54	2.22	3.47	87	39.3	2750	2455.4	9.16	9.33	481	512	40.1	46.1	481	35952	31.0	6.9	2015	1709	.27	1.86	1.86	2.98	9.25	8.70
991	0335	2461.0	3.73	2.29	2.83	87	39.7	2770	2455.8	9.15	9.32	475	449	40.2	46.2	491	36377	31.4	7.0	1420	1705	.28	1.75	1.75	2.98	9.25	8.70
992	0341	2461.3	3.22	2.30	2.72	87	39.4	2820	2456.1	9.16	9.32	487	535	39.2	46.2	484	36869	31.7	7.1	1442	1704	.28	1.79	1.79	2.98	9.25	8.70
993	0345	2461.6	3.83	2.25	3.00	87	39.4	2470	2456.3	9.15	9.31	472	530	38.6	46.0	481	37284	32.0	7.1	1279	1700	.28	1.74	1.74	2.98	9.25	8.70
994	0350	2461.9	3.76	2.24	3.94	87	40.1	2720	2456.4	9.15	9.32	478	511	38.3	46.1	480	37704	32.3	7.2	1443	1696	.29	1.76	1.75	2.99	9.26	8.70
995	0355	2462.2	3.56	2.20	2.75	89	39.5	2730	2456.7	9.16	9.34	481	520	38.3	46.2	480	38158	32.6	7.3	1427	1694	.29	1.77	1.76	2.99	9.26	8.70

Data Printed at time 21:32 Date Oct 9
Data Recorded at time 04:04 Date Oct 1 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	MX	MXB	ECD	EST FM PR
996	0434	2462.5	3.11	2.27	2.68	88	37.2	2510	2457.2	9.17	9.32	456	494	38.7	46.0	485	38673	32.9	7.4	1684	1693	.29	1.77	1.77	2.99	9.25	8.70
997	0438	2462.8	4.30	2.28	3.04	88	38.7	2490	2457.4	9.15	9.31	454	473	39.7	46.3	479	39043	33.2	7.5	1196	1688	.30	1.70	1.69	2.99	9.25	8.70
998	0443	2463.1	3.94	2.30	3.05	87	38.7	2500	2457.7	9.14	9.33	455	426	39.8	46.3	479	39425	33.5	7.6	1250	1683	.30	1.72	1.72	2.99	9.26	8.70
999	0448	2463.4	3.81	2.28	3.24	88	39.0	2460	2457.9	9.14	9.34	450	438	40.0	46.3	480	39844	33.8	7.6	1250	1680	.30	1.74	1.73	2.99	9.26	8.70
1000	0453	2463.7	3.61	2.35	2.82	87	39.2	2450	2458.3	9.15	9.34	451	421	40.0	46.3	479	40233	34.1	7.7	1334	1677	.31	1.75	1.75	2.99	9.26	8.70
1001	0458	2464.0	3.90	2.51	3.22	87	40.8	2460	2458.6	9.15	9.36	450	429	40.2	46.0	478	40707	34.4	7.8	1358	1675	.31	1.75	1.75	2.99	9.26	8.70
1002	0500	2464.3	9.07	2.54	3.67	86	38.9	2480	2458.7	9.15	9.36	451	434	40.2	46.0	478	40880	34.7	7.8	707	1667	.31	1.48	1.48	2.99	9.26	8.70
1003	0503	2464.6	18.7	2.23	2.62	87	38.8	2490	2458.8	9.16	9.37	452	423	40.2	46.0	478	40964	35.0	7.8	258	1653	.31	1.28	1.27	2.99	9.26	8.70
1004	0505	2464.9	14.9	2.23	2.72	87	38.7	2480	2458.9	9.16	9.37	453	436	40.2	46.0	477	41069	35.3	7.9	327	1641	.31	1.34	1.34	2.99	9.26	8.70
1005	0506	2465.2	21.5	2.22	2.66	87	38.9	2490	2458.9	9.16	9.37	453	432	40.2	46.0	478	41140	35.6	7.9	230	1630	.31	1.24	1.23	2.99	9.26	8.70
1006	0506	2465.5	21.4	2.31	2.58	87	38.1	2480	2458.9	9.16	9.37	453	434	40.2	46.0	477	41214	35.9	7.9	229	1618	.31	1.23	1.22	2.99	9.27	8.70
1007	0509	2465.8	8.41	2.21	2.62	87	38.1	2500	2459.0	9.23	9.39	455	431	40.4	46.2	477	41402	36.2	7.9	381	1609	.31	1.50	1.49	2.99	9.27	8.70
1008	0510	2466.1	30.4	2.41	2.52	87	37.3	2500	2459.1	9.23	9.39	454	418	40.4	46.2	476	41455	36.5	7.9	168	1598	.32	1.12	1.12	2.99	9.27	8.70
1009	0511	2466.4	27.0	2.48	2.63	87	40.9	2500	2459.1	9.23	9.39	454	411	40.4	46.2	477	41511	36.8	8.0	183	1586	.32	1.19	1.18	2.99	9.27	8.70
1010	0513	2466.7	14.6	2.38	2.69	87	41.5	2500	2459.2	9.28	9.39	454	429	40.5	46.2	476	41617	37.1	8.0	398	1575	.32	1.37	1.37	2.99	9.27	8.70
1011	0443	2467.1	3.72	2.36	2.56	87	42.5	2490	2459.4	9.28	9.39	453	423	40.5	46.2	476	42343	37.4	8.1	1907	1574	.32	1.79	1.78	2.99	9.27	8.70
1012	0447	2467.4	4.43	2.37	3.33	87	42.4	2500	2459.6	9.28	9.39	454	432	40.4	46.4	478	42402	37.8	8.1	1278	1570	.32	1.74	1.73	3.00	9.27	8.70
1013	0453	2467.7	4.16	1.94	3.32	87	30.8	2700	2459.9	9.32	9.39	475	406	40.5	46.5	486	42537	38.1	8.1	1198	1559	.32	1.75	1.75	3.00	9.27	8.70
1014	0454	2468.0	3.72	2.66	3.51	86	39.5	2700	2460.0	9.33	9.40	473	425	40.8	46.4	485	42573	38.4	8.2	1534	1549	.32	1.79	1.79	3.00	9.27	8.70
1015	0457	2468.3	7.46	2.47	3.40	87	40.6	2710	2460.1	9.33	9.40	474	444	40.8	46.4	481	42783	38.7	8.2	521	1542	.32	1.56	1.55	3.00	9.28	8.70
1016	0530	2468.6	6.02	2.30	3.32	87	41.0	2710	2460.2	9.29	9.40	475	448	40.7	46.5	478	43044	39.0	8.2	980	1536	.33	1.63	1.62	3.00	9.28	8.70
1017	0537	2468.9	2.62	2.29	3.29	87	43.8	2680	2460.6	9.29	9.40	472	452	40.7	46.5	477	43650	39.3	8.4	2270	1539	.33	1.91	1.90	3.00	9.29	8.70
1018	0513	2469.2	2.81	2.40	3.91	87	44.8	2680	2460.9	9.30	9.33	472	458	40.6	46.7	476	44216	39.6	8.5	1865	1541	.34	1.90	1.89	3.00	9.30	8.70
1019	0518	2469.5	3.67	2.32	2.92	88	45.0	2660	2461.2	9.31	9.33	469	441	40.6	46.7	476	44661	39.9	8.6	1539	1540	.34	1.82	1.81	3.00	9.31	8.70
1020	0524	2469.8	2.91	2.30	3.91	88	44.3	2640	2461.5	9.32	9.33	468	431	40.7	46.7	476	45199	40.2	8.7	1674	1541	.34	1.88	1.87	3.00	9.31	8.70
1021	0530	2470.1	2.98	2.41	3.83	87	45.0	2670	2461.9	9.31	9.33	471	443	40.7	46.6	475	45738	40.5	8.8	1613	1542	.35	1.88	1.87	3.00	9.33	8.70
2	0546	2471.0	3.55	2.31	3.45	88	44.2	2810	2462.8	9.30	9.35	493	449	40.7	46.9	474	47129	41.4	9.0	1544	1541	.36	1.81	1.80	3.00	9.35	8.70
3	0549	2471.3	6.99	2.50	3.76	87	40.7	2900	2462.9	9.31	9.35	491	458	40.8	47.1	473	47358	41.7	9.1	749	1535	.36	1.57	1.56	3.00	9.36	8.70
4	0551	2471.6	10.8	2.65	4.18	88	41.6	2890	2463.1	9.31	9.36	491	457	40.8	46.9	473	47505	42.0	9.1	459	1526	.36	1.45	1.45	3.00	9.36	8.70
5	0552	2471.9	17.5	2.66	3.73	87	39.9	2890	2463.1	9.31	9.36	491	465	40.8	46.9	474	47595	42.3	9.1	396	1518	.36	1.29	1.28	3.00	9.37	8.70
6	0552	2472.2	33.2	2.71	3.92	86	40.2	2900	2463.2	9.31	9.36	491	462	40.8	46.9	473	47642	42.6	9.1	146	1508	.36	1.11	1.10	3.00	9.37	8.70
7	0554	2472.5	13.2	2.55	3.57	90	40.6	2900	2463.3	9.31	9.36	491	454	40.8	46.9	472	47760	42.9	9.1	537	1501	.36	1.39	1.38	3.00	9.37	8.70
8	0556	2472.9	6.61	2.41	3.24	98	42.8	2880	2463.5	9.32	9.36	490	473	41.0	46.9	472	48018	43.2	9.2	1219	1495	.36	1.61	1.60	3.00	9.37	8.70
9	0600	2473.1	5.10	2.32	3.05	89	43.0	2890	2463.7	9.32	9.34	491	465	41.2	46.9	473	48311	43.5	9.3	1020	1491	.37	1.69	1.68	3.00	9.38	8.70
10	0604	2473.5	4.41	2.41	4.64	87	42.4	2890	2464.0	9.32	9.36	490	465	41.1	47.1	472	48671	43.9	9.3	1154	1488	.37	1.71	1.71	3.01	9.39	8.70
11	0605	2473.8	20.2	2.85	4.02	86	41.6	2880	2464.3	9.32	9.36	490	456	41.1	47.1	472	48749	44.2	9.3	267	1480	.37	1.26	1.25	3.01	9.39	8.70
12	0605	2474.1	31.8	2.99	4.08	87	41.3	2890	2464.4	9.32	9.36	490	447	41.1	47.1	472	48801	44.5	9.3	160	1471	.37	1.13	1.12	3.01	9.39	8.70
13	0606	2474.4	20.9	4.11	6.83	80	40.7	2900	2464.6	9.32	9.36	490	451	41.1	47.1	472	48864	44.8	9.4	216	1463	.37	1.22	1.22	3.01	9.39	8.70
14	0607	2474.7	24.0	2.77	3.94	86	40.0	2890	2464.8	9.32	9.36	491	457	41.1	47.1	472	48931	45.1	9.4	217	1454	.37	1.19	1.19	3.01	9.39	8.70
15	0608	2475.0	24.7	3.39	5.02	85	39.7	2890	2465.0	9.33	9.34	490	465	41.1	47.0	473	48989	45.4	9.4	187	1446	.37	1.18	1.17	3.01	9.40	8.70
16	0608	2475.3	35.2	3.52	6.15	85	40.9	2880	2465.1	9.33	9.34	490	472	41.1	47.0	471	49031	45.7	9.4	137	1437	.37	1.09	1.08	3.01	9.40	8.70
17	0610	2475.6	7.79	2.58	4.54	96	40.6	2900	2465.6	9.33	9.34	491	473	41.1	47.0	472	49225	46.0	9.4	648	1431	.37	1.52	1.52	3.01	9.40	8.70
18	0613	2475.9	7.27	2.79	4.35	87	42.4	2890	2466.5	9.33	9.36	491	470	41.0	47.1	472	49451	46.3	9.5	763	1427	.37	1.57	1.56	3.01	9.40	8.70
19	0614	2476.2	27.7	3.45	5.18	84	40.4	2900	2466.7	9.33	9.36	491	471	41.0	47.1	471	49505	46.6	9.5	-189	1418	.37	1.15	1.15	3.01	9.40	8.70
20	0614	2476.5	24.2	3.27	4.83	83	41.0	2880	2466.8	9.32	9.35	491	468	40.9	47.2	472	49566	46.9	9.5	201	1412	.38	1.19	1.19	3.01	9.41	8.70
21	0615	2476.8	23.1	3.21	5.05	83	40.3	2890	2466.8	9.32	9.35	490	471	40.9	47.2	472	49631	47.2	9.5	211	1403	.38	1.20	1.19	3.01	9.41	8.70
22	0627	2477.1	37.1	3.09	4.80	84	35.0	2990	2467.3	9.33	9.33	494	430	41.1	47.0	478	49688	47.5	9.5	183	1397	.38	1.02	1.01	3.01	9.43	8.70
23	0627	2477.4	27.6	2.78	3.34	88	40.2	2990	2467.3	9.33	9.33	496	437	41.1	47.0	479	49710	47.8	9.5	226	1388	.38	1.15	1.15	3.01	9.43	8.70
24	0627	2477.7	22.2	2.93	4.06	87	36.7	2980	2467.3	9.33	9.33	497	433	41.1	47.0	476	49743	48.1	9.5	231	1379	.38	1.23	1.23	3.01	9.43	8.70
25	0628	2478.0	18.8	2.88	3.61	87	39.3	2970	2467.3	9.33	9.33	497	450	41.1	47.0	476	49818	48.4	9.5	237	1372	.38	1.26	1.25	3.01	9.43	8.70

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MX	MXB	ECD	EST FM PR
26	0629	2478.3	27.7	3.01	4.01	84	39.8	2970	2467.5	9.34	9.35	497	450	41.2	47.3	476	49372	48.7	9.6	191	1365	.38	1.14	1.14	3.01	9.44	8.70
27	0630	2478.6	17.8	2.72	3.81	86	40.0	2970	2467.7	9.34	9.35	497	441	41.2	47.3	474	49960	49.0	9.6	274	1358	.38	1.28	1.27	3.01	9.44	8.70
28	0633	2478.9	6.31	2.76	3.83	87	41.5	2970	2468.1	9.32	9.37	497	448	41.1	47.0	472	50208	49.3	9.6	532	1353	.38	1.59	1.58	3.02	9.44	8.70
29	0634	2479.2	17.6	3.01	3.94	87	42.5	2960	2468.3	9.32	9.37	497	448	41.1	47.0	471	50298	49.6	9.6	284	1347	.38	1.30	1.30	3.02	9.44	8.70
30	0636	2479.5	7.67	2.73	3.89	87	41.2	2970	2468.5	9.33	9.37	497	440	41.0	46.9	470	50501	49.9	9.7	409	1343	.38	1.53	1.52	3.02	9.44	8.70
31	0637	2479.9	13.1	2.69	4.32	87	40.5	2950	2468.6	9.33	9.37	498	437	41.0	46.9	469	50623	50.3	9.7	404	1337	.38	1.37	1.36	3.02	9.45	8.70
32	0639	2480.2	12.0	2.82	4.42	83	41.4	2960	2468.6	9.33	9.37	496	428	41.0	46.9	468	50754	50.6	9.7	437	1332	.38	1.41	1.40	3.02	9.45	8.70
33	0640	2480.5	22.0	2.88	3.68	87	41.7	2970	2468.7	9.33	9.37	497	423	41.0	46.9	466	50827	50.9	9.7	215	1325	.38	1.23	1.22	3.02	9.45	8.70
34	0641	2480.8	13.4	2.68	3.91	87	41.6	2930	2468.8	9.33	9.37	498	429	41.0	46.9	467	50950	51.2	9.8	431	1320	.39	1.37	1.37	3.02	9.45	8.70
35	0642	2481.1	19.5	2.86	3.35	86	41.4	2950	2468.8	9.33	9.40	497	441	40.9	47.1	467	51025	51.5	9.8	251	1313	.39	1.26	1.25	3.02	9.45	8.70
36	0643	2481.4	13.8	2.69	3.76	86	40.1	2960	2468.9	9.33	9.40	495	445	40.9	47.1	469	51137	51.8	9.8	408	1307	.39	1.35	1.34	3.02	9.45	8.70
37	0644	2481.7	16.6	2.91	4.29	87	39.7	2970	2468.9	9.33	9.40	496	458	40.9	47.1	469	51231	52.1	9.8	302	1302	.39	1.29	1.29	3.02	9.45	8.70
38	0645	2482.0	26.3	2.90	3.68	87	38.3	2970	2469.0	9.34	9.42	496	451	40.7	47.3	467	51291	52.4	9.8	190	1295	.39	1.15	1.14	3.02	9.46	8.70
39	0646	2482.3	27.4	2.69	3.29	89	40.5	2930	2469.0	9.34	9.42	497	444	40.7	47.3	468	51349	52.7	9.8	168	1289	.39	1.16	1.16	3.02	9.46	8.70
40	0651	2482.6	3.59	2.54	3.57	89	42.5	2970	2469.2	9.34	9.41	496	452	40.9	47.5	468	51809	53.0	9.9	2413	1239	.39	1.77	1.76	3.02	9.46	8.70
41	0654	2482.9	6.22	2.39	3.34	88	41.9	2970	2469.4	9.34	9.42	497	443	40.9	47.4	466	52054	53.3	10.0	759	1286	.39	1.60	1.59	3.02	9.46	8.70
42	0700	2483.2	2.93	2.31	3.81	88	42.5	3320	2469.7	9.33	9.44	501	466	40.5	47.5	464	52618	53.6	10.1	2688	1289	.40	1.82	1.81	3.02	9.46	8.70
43	0706	2483.5	3.31	2.35	3.55	87	41.6	3040	2470.1	9.36	9.41	503	453	40.4	47.7	467	53081	53.9	10.2	1467	1290	.40	1.77	1.77	3.02	9.46	8.70
44	0710	2483.9	4.46	2.50	3.62	87	41.5	3040	2470.4	9.36	9.41	503	450	40.4	47.6	467	53485	54.2	10.2	1363	1290	.40	1.69	1.68	3.02	9.47	8.70
45	0715	2484.1	3.52	2.34	3.53	88	41.9	3050	2470.6	9.36	9.42	503	462	40.5	47.7	468	53891	54.5	10.3	1574	1290	.41	1.76	1.75	3.02	9.47	8.70
46	0718	2484.4	4.85	2.38	3.82	87	42.0	3040	2470.8	9.31	9.43	502	456	40.5	47.6	467	54212	54.8	10.4	1023	1288	.41	1.67	1.66	3.02	9.47	8.70
47	0724	2484.7	3.45	2.38	3.11	88	41.9	2990	2471.6	9.31	9.42	503	460	40.4	47.7	467	54675	55.1	10.5	1495	1289	.41	1.77	1.76	3.02	9.47	8.70
48	0729	2485.0	3.22	2.38	3.38	87	42.8	3010	2472.7	9.31	9.41	500	511	40.4	47.8	466	55178	55.4	10.6	1509	1291	.42	1.80	1.79	3.03	9.47	8.70
49	0734	2485.3	4.20	2.50	4.02	87	42.4	3000	2473.1	9.31	9.43	500	529	40.4	47.7	466	55551	55.7	10.6	1212	1290	.42	1.71	1.71	3.03	9.47	8.70
50	0737	2485.6	5.00	2.45	4.98	87	42.8	3000	2473.7	9.30	9.42	500	527	40.5	47.6	466	55870	56.0	10.7	1010	1289	.42	1.67	1.66	3.03	9.47	8.70
51	0742	2486.0	3.88	2.51	4.03	87	42.1	2990	2475.2	9.30	9.43	500	523	40.5	47.8	466	56277	56.3	10.8	1409	1289	.43	1.74	1.73	3.03	9.46	8.70
52	0754	2486.3	4.22	2.47	3.78	88	42.2	2900	2476.7	9.29	9.43	472	480	40.5	47.7	474	56713	56.6	10.9	1344	1289	.43	1.72	1.71	3.03	9.45	8.70
53	0757	2486.6	5.02	2.42	3.69	88	41.3	2960	2476.9	9.30	9.47	497	557	40.9	47.4	469	57035	57.0	10.9	1033	1287	.43	1.65	1.64	3.03	9.46	8.70
54	0759	2486.9	8.26	2.49	3.82	88	41.5	2970	2477.4	9.29	9.49	493	552	40.9	47.4	466	57228	57.3	11.0	697	1284	.43	1.51	1.50	3.03	9.46	8.70
55	0802	2487.2	7.38	2.71	4.62	86	41.7	2980	2478.0	9.26	9.48	497	521	40.7	47.2	464	57441	57.6	11.0	643	1281	.43	1.54	1.53	3.03	9.46	8.70
56	0803	2487.5	12.6	2.53	3.15	87	42.0	2970	2478.4	9.26	9.48	497	507	40.7	47.2	463	57567	57.9	11.0	404	1277	.43	1.40	1.39	3.03	9.45	8.70
57	0806	2487.8	6.07	2.46	4.06	88	41.9	2960	2479.0	9.28	9.48	497	516	40.5	47.4	463	57847	58.2	11.1	970	1275	.44	1.61	1.60	3.03	9.45	8.70
58	0808	2488.1	9.90	2.46	3.24	87	41.7	2970	2479.3	9.28	9.48	497	520	40.4	47.6	466	57997	58.5	11.1	475	1270	.44	1.46	1.45	3.03	9.45	8.70
59	0812	2488.4	4.55	2.53	4.00	87	42.7	2960	2480.0	9.32	9.49	497	554	40.6	47.7	465	58340	58.8	11.2	994	1269	.44	1.70	1.69	3.03	9.45	8.70
60	0816	2488.7	4.40	2.54	4.04	88	43.2	2950	2481.1	9.30	9.48	497	569	40.6	47.7	464	58703	59.1	11.2	1088	1268	.44	1.72	1.71	3.03	9.44	8.70
61	0820	2489.0	5.25	2.36	3.64	87	43.1	2940	2482.0	9.31	9.49	495	557	40.5	47.8	464	59004	59.4	11.3	1016	1266	.45	1.66	1.65	3.03	9.44	8.70
62	0823	2489.3	5.92	2.52	3.81	87	42.5	2960	2482.4	9.31	9.50	496	545	40.5	47.8	463	59286	59.7	11.4	875	1265	.45	1.62	1.61	3.03	9.44	8.70
63	0825	2489.7	4.82	3.32	3.85	87	41.9	2950	2482.5	9.31	9.50	496	416	40.5	47.8	464	59393	59.8	11.4	1031	1263	.45	1.71	1.70	3.03	9.43	8.70
64	0830	2489.9	2.72	2.33	3.81	88	41.3	1630	2482.9	9.33	9.49	496	453	40.6	47.7	469	59839	60.3	11.5	944	1261	.45	1.75	1.76	3.03	9.43	8.70
65	0835	2490.2	3.88	2.37	3.76	85	41.8	2820	2483.1	9.33	9.49	495	580	40.6	47.7	466	60236	60.6	11.6	1282	1262	.45	1.73	1.72	3.03	9.43	8.70
66	0838	2490.5	5.51	2.66	3.56	86	41.8	2810	2483.3	9.32	9.46	494	579	40.4	47.8	464	60522	60.9	11.6	925	1260	.46	1.63	1.62	3.04	9.43	8.70
67	0842	2490.8	4.91	2.49	3.82	88	42.2	2820	2483.5	9.32	9.44	495	539	40.2	47.8	464	60862	61.2	11.7	1164	1259	.46	1.68	1.67	3.04	9.43	8.70
68	0846	2491.1	4.55	2.51	3.68	88	41.1	2820	2483.8	9.34	9.45	495	549	40.0	47.5	463	61213	61.5	11.7	1224	1259	.46	1.69	1.68	3.04	9.43	8.70
69	0851	2491.4	3.86	2.48	3.19	89	42.1	2820	2484.1	9.32	9.48	494	502	39.9	47.5	461	61633	61.8	11.8	1231	1258	.46	1.75	1.74	3.04	9.43	8.70
70	0855	2491.7	4.20	2.35	4.72	80	41.4	820	2484.4	9.33	9.47	436	439	40.2	47.3	465	62003	62.1	11.9	1229	1258	.47	1.68	1.68	3.04	9.43	8.70
71	0901	2492.1	3.14	2.47	3.53	85	42.1	2900	2484.6	9.33	9.44	494	520	39.9	47.3	463	62506	62.4	12.0	2306	1260	.47	1.80	1.79	3.04	9.43	8.70
72	0906	2492.4	3.68	2.38	3.76	87	42.2	2910	2484.9	9.33	9.42	495	518	38.3	46.9	460	62935	62.7	12.1	1296	1260	.47	1.76	1.75	3.04	9.43	8.70
73	0910	2492.7	4.18	2.47	3.12	87	41.7	2920	2485.2	9.34	9.46	496	541	37.1	47.4	460	63315	63.0	12.1	1293	1260	.48	1.72	1.70	3.04	9.42	8.70
74	0914	2493.0	4.29	2.44	3.79	87	42.6	2920	2485.5	9.33	9.47	496	527	36.6	47.3	458	63677	63.4	12.2	1146	1259	.48	1.72	1.71	3.04	9.42	8.70
75	0917	2493.3	5.84	2.50	6.14	86	41.9	2920	2485.7	9.31	9.44	497	457	36.2	47.6	454	63945	63.6	12.3	905	1258	.48	1.62	1.61	3.04	9.43	8.70

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P#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
76	0923	2493.6	3.50	2.40	4.44	86	42.0	2930	2486.0	9.32	9.42	497	480	36.1	47.7	454	64392	64.0	12.3	1383	1258	.48	1.77	1.76	3.04	9.43	8.70
77	0927	2493.9	3.92	2.52	3.88	87	42.2	2930	2486.3	9.31	9.41	497	471	36.4	47.5	453	64796	64.3	12.4	1414	1253	.49	1.74	1.73	3.04	9.43	8.70
78	0932	2494.2	3.52	2.41	3.67	88	42.2	2930	2486.8	9.30	9.43	497	452	36.6	47.5	457	65247	64.6	12.5	1650	1259	.49	1.77	1.76	3.04	9.43	8.70
79	0937	2494.5	3.84	2.31	3.03	88	41.9	2940	2487.5	9.33	9.44	498	487	36.8	47.6	457	65663	64.9	12.6	1305	1260	.49	1.74	1.73	3.04	9.43	8.70
80	0942	2494.8	3.87	2.37	3.75	87	42.4	2930	2488.1	9.34	9.44	498	473	36.8	47.6	455	66074	65.2	12.7	1490	1260	.50	1.75	1.73	3.04	9.43	8.70
81	0946	2495.1	4.53	2.51	4.66	86	41.7	2930	2488.4	9.33	9.44	498	519	37.0	47.6	457	66420	65.5	12.7	1136	1259	.50	1.69	1.68	3.04	9.43	8.70
82	0950	2495.4	3.99	2.40	3.59	88	42.1	2940	2488.7	9.30	9.43	498	514	36.9	47.5	455	66823	65.8	12.8	1268	1259	.50	1.74	1.72	3.04	9.43	8.70
83	1000	2495.7	4.62	2.35	3.33	89	40.1	2860	2489.5	9.30	9.45	469	432	36.6	47.1	463	67235	66.1	12.9	1360	1260	.51	1.67	1.66	3.04	9.42	8.70
84	1002	2496.0	3.87	2.41	2.98	88	41.4	2900	2489.6	9.30	9.47	492	519	37.7	47.1	458	67430	66.4	12.9	1147	1256	.51	1.77	1.75	3.05	9.43	8.70
85	1005	2496.3	3.62	2.40	3.23	87	42.8	2920	2489.8	9.27	9.47	496	525	37.0	45.8	454	67742	66.7	13.0	1329	1254	.51	1.76	1.75	3.04	9.44	8.70
86	1012	2496.6	2.89	2.34	3.41	87	42.8	2930	2490.4	9.32	9.46	497	526	35.8	46.4	452	68319	67.0	13.1	1783	1257	.51	1.83	1.82	3.05	9.43	8.70
87	1017	2496.9	4.03	2.23	3.23	87	42.2	2910	2490.8	9.30	9.49	496	529	36.1	46.2	450	68711	67.3	13.2	1342	1257	.52	1.73	1.72	3.05	9.43	8.70
88	1021	2497.2	3.79	2.37	3.49	86	43.5	2910	2491.1	9.31	9.48	496	530	36.4	46.5	452	69124	67.6	13.3	1520	1257	.52	1.76	1.75	3.05	9.43	8.70
89	1022	2497.5	23.2	2.45	3.53	85	42.2	2920	2491.2	9.31	9.48	496	541	36.4	46.5	449	69191	67.9	13.3	347	1253	.52	1.22	1.21	3.05	9.43	8.70
90	1024	2497.8	10.7	2.58	3.63	86	42.0	2920	2491.3	9.31	9.48	495	539	36.4	46.5	451	69329	68.2	13.3	433	1249	.52	1.44	1.43	3.05	9.43	8.70
91	1025	2498.1	14.0	2.62	4.04	85	41.7	2920	2491.4	9.33	9.50	496	533	36.5	46.3	450	69441	68.5	13.3	366	1245	.52	1.36	1.35	3.05	9.44	8.70
92	1027	2498.5	10.2	2.60	3.34	86	42.0	2920	2491.5	9.33	9.50	496	546	36.5	46.3	451	69598	68.8	13.3	440	1242	.52	1.46	1.45	3.05	9.43	8.70
93	1029	2498.8	9.17	2.60	3.79	86	42.3	2930	2491.6	9.33	9.50	496	533	36.5	46.3	452	69748	69.1	13.4	520	1238	.52	1.49	1.43	3.05	9.44	8.70
94	1031	2499.1	7.92	2.48	3.23	87	42.3	2930	2491.8	9.33	9.50	496	543	36.5	46.3	451	69947	69.4	13.4	963	1236	.53	1.53	1.52	3.05	9.44	8.70
95	1037	2499.4	10.6	2.50	3.59	89	40.3	2930	2492.0	9.32	9.53	496	520	36.4	45.7	455	70105	69.7	13.4	607	1233	.53	1.43	1.42	3.05	9.44	8.70
96	1040	2499.7	6.73	2.81	6.90	85	42.1	2930	2492.2	9.32	9.54	496	529	37.7	45.6	454	70328	70.1	13.5	777	1230	.53	1.57	1.56	3.05	9.44	8.70
97	1042	2500.0	6.51	2.81	7.03	85	42.0	2930	2492.4	9.33	9.56	497	530	38.0	44.9	454	70567	70.4	13.5	688	1228	.53	1.58	1.57	3.05	9.43	8.70
98	1044	2500.3	11.7	3.04	7.60	84	43.0	2930	2492.5	9.33	9.56	497	535	38.0	44.9	454	70696	70.7	13.6	454	1225	.53	1.42	1.41	3.05	9.44	8.70
99	1046	2500.6	9.82	3.07	7.12	80	42.4	2920	2492.6	9.33	9.58	496	529	37.9	45.3	451	70843	71.0	13.6	499	1222	.53	1.45	1.44	3.05	9.44	8.70
100	1049	2500.9	5.04	2.45	3.83	87	42.7	2920	2492.9	9.32	9.59	496	543	37.9	45.4	452	71159	71.3	13.7	739	1221	.53	1.67	1.66	3.05	9.44	8.70
101	1052	2501.2	6.68	2.62	4.87	86	42.4	2930	2493.2	9.29	9.60	496	544	37.9	45.6	452	71393	71.6	13.7	740	1219	.54	1.58	1.57	3.05	9.43	8.70
102	1055	2501.5	7.11	2.78	4.25	87	42.5	2930	2493.4	9.29	9.60	496	531	37.9	45.6	451	71616	71.9	13.7	732	1217	.54	1.57	1.55	3.05	9.44	8.70
103	1059	2501.8	4.70	2.59	4.35	87	42.4	2920	2493.6	9.31	9.60	496	524	37.9	45.7	452	71951	72.2	13.8	1170	1216	.54	1.69	1.67	3.05	9.44	8.70
104	1102	2502.1	6.25	2.53	3.39	87	42.8	2930	2493.8	9.31	9.60	495	527	37.9	45.7	451	72204	72.5	13.9	913	1214	.54	1.61	1.60	3.06	9.44	8.70
105	1106	2502.4	4.17	2.46	3.67	87	42.6	2920	2494.1	9.31	9.59	494	521	37.8	45.3	451	72613	72.8	13.9	1436	1215	.54	1.72	1.71	3.06	9.44	8.70
106	1110	2502.7	4.90	2.48	4.10	86	42.2	2920	2494.3	9.31	9.59	495	530	37.8	45.6	450	72934	73.1	14.0	997	1214	.55	1.67	1.66	3.06	9.43	8.70
107	1114	2503.0	4.39	2.53	3.82	87	42.6	2930	2494.5	9.30	9.57	495	525	37.7	45.5	449	73265	73.4	14.1	1100	1213	.55	1.71	1.70	3.06	9.43	8.70
108	1117	2503.3	5.59	2.54	3.61	87	42.5	2930	2494.7	9.28	9.57	495	506	37.8	45.2	449	73550	73.7	14.1	813	1212	.55	1.64	1.63	3.06	9.43	8.70
109	1124	2503.6	2.69	2.36	4.08	86	43.4	2920	2495.3	9.32	9.57	495	501	37.8	44.9	449	74174	74.0	14.2	2145	1215	.56	1.86	1.85	3.06	9.43	8.70
110	1131	2503.9	2.54	2.28	3.80	86	43.3	2930	2495.6	9.27	9.58	494	495	38.0	45.3	448	74748	74.3	14.3	1869	1218	.56	1.87	1.86	3.06	9.43	8.70
111	1135	2504.2	4.35	2.77	3.77	86	42.4	2920	2496.0	9.27	9.56	494	498	38.0	45.5	447	75111	74.6	14.4	1171	1217	.56	1.71	1.70	3.06	9.43	8.70
112	1140	2504.6	3.84	2.66	3.34	86	41.0	2930	2496.3	9.27	9.55	494	487	37.9	45.2	447	75545	74.9	14.5	1379	1218	.57	1.73	1.71	3.06	9.43	8.70
113	1145	2504.8	3.54	2.59	3.42	87	42.3	2920	2496.6	9.27	9.53	494	487	37.5	45.2	442	75965	75.2	14.6	1460	1218	.57	1.77	1.75	3.06	9.43	8.70
114	1154	2505.2	4.92	2.64	4.08	81	41.2	2920	2496.9	9.24	9.51	488	474	37.4	45.1	446	76330	75.5	14.7	1176	1219	.57	1.64	1.63	3.06	9.42	8.70
115	1158	2505.5	4.90	2.60	3.90	80	41.1	2920	2497.4	9.30	9.52	491	508	38.4	44.8	446	76626	75.8	14.7	1051	1218	.57	1.64	1.63	3.06	9.42	8.70
116	1202	2505.8	4.09	2.49	3.93	80	41.6	2920	2498.2	9.29	9.56	491	489	38.5	43.7	448	76968	76.2	14.8	1247	1217	.58	1.70	1.69	3.06	9.42	8.70
117	1206	2506.1	5.06	2.65	3.88	84	42.5	2920	2498.9	9.29	9.59	490	512	38.5	44.4	449	77270	76.5	14.8	1059	1217	.58	1.66	1.65	3.06	9.42	8.70
118	1211	2506.4	3.46	2.33	3.22	87	41.7	2910	2499.3	9.30	9.63	491	518	38.8	44.8	446	77729	76.8	14.9	1441	1217	.58	1.77	1.76	3.06	9.41	8.70
119	1215	2506.7	5.05	2.65	3.81	87	40.6	2910	2499.7	9.31	9.62	490	511	39.0	44.8	447	78051	77.1	15.0	1022	1217	.58	1.65	1.63	3.06	9.41	8.70
120	1220	2507.0	3.37	2.52	3.82	86	41.8	2910	2500.5	9.33	9.63	491	510	38.8	44.7	447	78504	77.4	15.1	1644	1218	.59	1.78	1.76	3.06	9.41	8.70
121	1225	2507.3	3.86	2.43	3.85	87	42.4	2910	2500.9	9.29	9.64	490	501	38.9	44.9	443	78913	77.7	15.2	1289	1218	.59	1.75	1.73	3.06	9.41	8.70
122	1231	2507.6	3.23	2.51	3.69	87	41.3	2920	2501.6	9.29	9.64	493	533	38.9	44.9	442	79412	78.0	15.3	1402	1220	.59	1.79	1.77	3.07	9.40	8.70
123	1235	2507.9	3.90	2.65	3.61	87	41.7	2910	2502.0	9.30	9.65	489	532	38.8	45.3	441	79815	78.3	15.3	1374	1220	.60	1.74	1.72	3.07	9.40	8.70
124	1242	2508.2	2.53	2.48	3.78	87	41.6	2900	2502.5	9.30	9.64	489	534	38.8	44.8	442	80432	78.6	15.5	1752	1222	.60	1.86	1.85	3.07	9.40	8.70
125	1248	2508.5	3.04	2.52	3.09	89	40.6	2900	2502.9	9.29	9.64	489	534	38.8	44.5	440	80968	78.9	15.6	1615	1224	.60	1.80	1.79	3.07	9.40	8.70

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Data Recorded at time 12:53 Date Oct 1 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MX	MXB	ECD	EST FM PR
126	1253	2508.8	3.71	2.53	3.27	89	40.7	2910	2503.4	9.28	9.60	490	520	38.7	44.4	440	81403	79.2	15.6	1374	1225	.61	1.75	1.73	3.07	9.40	8.70
127	1259	2509.1	2.96	2.41	3.25	89	40.2	2900	2503.6	9.30	9.61	490	537	38.7	44.8	439	81948	79.5	15.7	1795	1227	.61	1.80	1.79	3.07	9.40	8.70
128	1305	2509.4	3.09	2.39	2.97	89	39.6	2920	2503.9	9.32	9.61	490	525	38.5	44.8	438	82473	79.8	15.8	1689	1228	.62	1.78	1.77	3.07	9.40	8.70
129	1311	2509.7	3.36	2.36	3.37	89	39.9	2920	2504.2	9.33	9.60	490	510	38.6	44.8	439	82957	80.1	15.9	1574	1229	.62	1.77	1.75	3.07	9.40	8.70
130	1317	2510.1	3.05	2.56	3.00	89	40.5	2910	2504.7	9.33	9.59	490	519	38.7	44.9	437	83533	80.4	16.0	1662	1231	.62	1.80	1.78	3.07	9.40	8.70
131	1322	2510.3	3.24	2.72	2.99	89	39.5	2910	2504.9	9.36	9.59	489	533	38.6	44.7	438	83992	80.7	16.1	1438	1232	.63	1.77	1.75	3.07	9.40	8.70
132	1329	2510.7	2.96	2.42	3.23	89	38.4	2930	2505.3	9.35	9.60	491	524	38.7	44.7	438	84581	81.0	16.2	1494	1234	.63	1.78	1.76	3.07	9.40	8.70
133	1335	2510.9	2.69	2.51	3.35	89	40.3	2920	2505.8	9.35	9.59	490	534	38.7	44.6	438	85079	81.3	16.3	1657	1235	.63	1.83	1.82	3.07	9.40	8.70
134	1341	2511.3	2.87	2.46	3.79	89	40.9	2920	2506.3	9.35	9.62	490	537	38.7	44.8	438	85633	81.6	16.4	1705	1238	.64	1.82	1.80	3.07	9.41	8.70
135	1348	2511.6	2.79	2.39	3.33	89	41.7	2880	2506.8	9.35	9.65	491	541	38.8	45.0	438	86260	81.9	16.6	1983	1240	.64	1.84	1.82	3.07	9.41	8.70
136	1354	2511.9	3.07	2.38	3.24	89	41.1	2910	2507.1	9.37	9.65	490	548	38.9	44.5	438	86785	82.2	16.7	1750	1241	.65	1.80	1.78	3.07	9.41	8.70
137	1401	2512.2	2.71	2.47	3.25	89	42.8	2920	2507.5	9.38	9.65	490	539	39.1	44.8	438	87381	82.6	16.8	2147	1243	.65	1.86	1.84	3.07	9.42	8.70
138	1407	2512.5	2.82	2.42	2.99	89	41.5	2930	2507.8	9.38	9.66	490	524	39.5	44.6	438	87923	82.9	16.9	1700	1245	.65	1.83	1.81	3.07	9.42	8.70
139	1413	2512.8	2.91	2.47	4.05	88	40.7	2920	2508.1	9.37	9.39	490	491	39.7	44.4	438	88509	83.2	17.0	1650	1247	.66	1.81	1.79	3.07	9.43	8.70
140	1418	2513.1	3.33	2.37	3.16	89	40.7	2920	2508.4	9.36	9.40	490	492	39.7	44.3	438	88936	83.5	17.1	1446	1247	.66	1.74	1.72	3.07	9.43	8.70
141	1423	2513.4	3.26	2.56	3.71	89	42.7	2910	2508.7	9.36	9.38	489	504	39.8	44.6	530	89413	83.8	17.1	1381	1248	.67	1.80	1.79	3.07	9.43	8.70
142	1431	2513.7	2.53	2.37	3.18	89	41.5	2920	2509.0	9.36	9.39	490	506	39.9	44.9	435	90079	84.1	17.3	1798	1251	.67	1.86	1.84	3.08	9.44	8.70
143	1436	2514.0	3.55	2.34	3.28	89	41.6	2920	2509.3	9.36	9.40	490	486	39.9	44.5	432	90520	84.4	17.4	1312	1251	.67	1.76	1.75	3.08	9.44	8.70
144	1442	2514.3	2.71	2.17	2.95	87	30.1	2740	2509.5	9.39	9.40	412	345	40.0	44.5	438	90680	84.6	17.4	1275	1250	.67	1.75	1.74	3.08	9.42	8.70
145	1442	2514.6	2.51	2.53	3.00	86	39.1	2780	2509.5	9.39	9.40	455	420	40.0	44.5	435	90728	85.0	17.4	1635	1244	.68	1.86	1.85	3.08	9.44	8.70
146	1449	2514.9	2.72	2.53	3.83	88	41.9	2840	2509.3	9.35	9.45	481	513	40.0	43.6	433	91305	85.3	17.5	1017	1246	.68	1.84	1.82	3.08	9.45	8.70
147	1456	2515.2	2.53	2.42	3.33	89	40.9	2830	2510.2	9.35	9.44	480	506	40.0	44.7	431	91958	85.6	17.6	1893	1249	.68	1.85	1.83	3.08	9.45	8.70
148	1503	2515.5	2.61	2.58	3.65	88	41.9	2830	2510.6	9.36	9.45	480	435	39.9	44.9	432	92564	85.9	17.7	1725	1251	.69	1.85	1.83	3.08	9.46	8.70
149	1511	2515.8	2.25	2.43	3.53	89	41.7	2830	2511.0	9.30	9.49	480	478	39.9	44.7	433	93286	86.2	17.9	2322	1255	.69	1.89	1.87	3.08	9.46	8.70
150	1519	2516.1	2.55	2.31	3.56	88	42.6	2830	2511.3	9.30	9.49	481	488	39.9	44.7	434	93913	86.5	18.0	1773	1257	.70	1.87	1.85	3.08	9.47	8.70
151	1526	2516.4	2.54	2.46	3.17	88	41.8	2840	2511.7	9.32	9.49	481	484	40.0	44.8	430	94546	86.8	18.1	1384	1260	.70	1.86	1.84	3.08	9.47	8.70
152	1534	2516.7	2.32	2.27	3.21	89	41.2	2830	2512.0	9.30	9.53	481	509	40.0	44.4	431	95239	87.1	18.2	2169	1263	.71	1.87	1.85	3.08	9.47	8.70
153	1540	2517.0	3.06	2.54	3.47	89	41.9	2810	2512.3	9.29	9.52	481	502	40.1	45.0	451	95768	87.4	18.3	1799	1264	.71	1.81	1.79	3.08	9.46	8.70
154	1547	2517.3	2.55	2.62	3.30	88	41.6	2740	2512.6	9.32	9.53	481	519	39.7	44.4	453	96401	87.7	18.5	2032	1266	.72	1.85	1.83	3.08	9.46	8.70
155	1552	2517.6	3.20	2.52	3.72	89	41.4	2880	2512.9	9.31	9.52	480	513	39.9	44.0	428	96905	88.0	18.6	1699	1267	.72	1.79	1.77	3.08	9.46	8.70
156	1601	2518.0	2.20	2.44	3.23	88	41.3	2830	2513.3	9.34	9.54	481	529	40.2	43.8	432	97638	88.4	18.7	1997	1271	.72	1.89	1.87	3.08	9.45	8.70
157	1606	2518.3	3.23	2.54	3.80	88	40.8	2830	2513.6	9.31	9.52	481	528	40.2	43.7	428	98136	88.7	18.8	1547	1272	.73	1.78	1.76	3.08	9.45	8.70
158	1613	2518.6	2.79	2.47	3.36	88	41.6	2820	2514.1	9.32	9.51	481	494	40.3	44.3	429	98708	89.0	18.9	1710	1274	.73	1.83	1.81	3.08	9.44	8.70
159	1621	2518.9	2.32	2.43	3.46	85	41.6	2840	2514.8	9.32	9.52	481	478	40.2	44.0	430	99378	89.3	19.0	2038	1277	.74	1.87	1.86	3.08	9.43	8.70
160	1626	2519.2	3.45	2.54	3.67	85	41.0	2840	2515.0	9.31	9.53	482	472	40.1	44.0	429	99859	89.6	19.1	1386	1278	.74	1.75	1.73	3.09	9.43	8.70
161	1632	2519.5	3.27	2.46	3.49	84	41.4	2860	2515.3	9.31	9.54	481	460	39.9	44.3	429	100330	89.9	19.2	1955	1278	.74	1.77	1.75	3.09	9.43	8.70
162	1639	2519.8	2.39	2.50	3.44	85	41.9	2830	2515.5	9.32	9.52	481	478	39.5	44.2	425	100938	90.2	19.3	2114	1281	.75	1.87	1.85	3.09	9.43	8.70
163	1643	2520.1	4.24	2.42	3.35	85	40.5	2830	2515.7	9.31	9.53	481	467	39.3	44.2	423	101305	90.5	19.4	1345	1280	.75	1.69	1.67	3.09	9.43	8.70
164	1646	2520.4	5.97	2.50	3.35	85	40.0	2840	2515.8	9.30	9.53	481	486	39.1	44.4	421	101564	90.8	19.5	953	1279	.75	1.58	1.56	3.09	9.42	8.70
165	1648	2520.7	16.3	2.33	3.17	85	38.5	2830	2515.9	9.30	9.53	481	483	39.1	44.4	422	101663	91.1	19.5	298	1276	.75	1.28	1.26	3.09	9.42	8.70
166	1648	2521.0	21.0	2.39	3.08	85	38.6	2840	2515.9	9.30	9.53	481	479	39.1	44.4	423	101733	91.4	19.5	234	1272	.75	1.21	1.19	3.09	9.43	8.70
167	1649	2521.3	19.9	2.31	2.95	85	38.4	2840	2516.0	9.30	9.53	481	490	39.1	44.4	422	101913	91.7	19.5	260	1269	.75	1.23	1.21	3.09	9.43	8.70
168	1650	2521.6	22.4	2.34	2.85	86	39.7	2830	2516.0	9.32	9.53	481	470	39.0	44.3	421	101881	92.0	19.5	228	1266	.75	1.21	1.19	3.09	9.43	8.70
169	1651	2521.9	18.8	2.31	3.00	85	40.5	2840	2516.0	9.32	9.53	481	478	39.0	44.3	420	101962	92.3	19.5	-268	1262	.76	1.26	1.24	3.09	9.43	8.70
170	1652	2522.2	26.2	2.25	3.03	85	39.2	2840	2516.1	9.32	9.53	481	457	39.0	44.3	421	102020	92.6	19.5	207	1259	.76	1.16	1.14	3.09	9.43	8.70
171	1653	2522.5	16.6	2.31	2.88	85	38.6	2840	2516.1	9.32	9.53	481	474	39.0	44.3	420	102110	92.9	19.6	285	1255	.76	1.28	1.26	3.09	9.43	8.70
172	1654	2522.8	24.3	2.40	3.05	85	38.1	2830	2516.1	9.31	9.54	481	458	39.0	44.6	419	102173	93.2	19.6	200	1252	.76	1.17	1.15	3.09	9.43	8.70
173	1654	2523.1	19.3	3.79	7.64	76	38.6	2860	2516.2	9.31	9.54	481	455	39.0	44.6	419	102243	93.5	19.6	251	1249	.76	1.21	1.19	3.09	9.43	8.70
174	1656	2523.4	14.2	3.18	7.37	81	39.6	2830	2516.3	9.31	9.54	481	459	39.0	44.6	421	102338	93.8	19.6	303	1246	.76	1.32	1.30	3.09	9.43	8.70
175	1658	2523.7	6.82	2.40	3.31	83	40.1	2780	2516.4	9.32	9.52	478	461	39.0	44.9	420	102557	94.1	19.6	833	1244	.76	1.54	1.52	3.09	9.43	8.70

AMOCO AUST. Tilana No.1 329191

Data Printed at time 21:49 Date Oct 9
Data Recorded at time 17:06 Date Oct 1 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MX	MXB	ECD	EST FM PR
176	1706	2524.0	9.00	2.47	2.96	87	37.8	2840	2516.5	9.33	9.52	432	453	39.1	44.5	424	102763	94.4	19.7	551	1242	.76	1.45	1.43	3.09	9.43	8.70
177	1711	2524.4	4.12	2.54	5.33	88	33.1	2850	2516.7	9.34	9.52	432	460	39.2	43.4	425	103152	94.8	19.8	1027	1242	.76	1.67	1.65	3.09	9.43	8.70
178	1716	2524.7	3.27	2.29	4.00	88	39.9	2840	2516.9	9.35	9.53	432	432	39.2	44.1	425	103640	95.1	19.9	1791	1243	.77	1.76	1.74	3.10	9.43	8.70
179	1718	2525.0	8.11	2.44	3.61	88	39.9	2830	2517.1	9.35	9.54	432	465	39.2	44.3	424	103837	95.4	19.9	610	1241	.77	1.50	1.48	3.10	9.43	8.70
180	1720	2525.3	8.55	3.32	7.78	86	40.0	2830	2517.2	9.35	9.50	481	451	39.3	44.4	422	104004	95.7	19.9	736	1239	.77	1.48	1.46	3.10	9.43	8.70
181	1723	2525.6	7.80	2.59	3.75	88	39.2	2830	2517.3	9.35	9.50	431	447	39.3	44.4	425	104239	96.0	20.0	661	1237	.77	1.51	1.49	3.10	9.43	8.70
182	1726	2525.9	5.97	2.71	5.01	88	39.7	2840	2517.4	9.36	9.50	432	463	39.5	44.5	423	104477	96.3	20.0	805	1235	.77	1.59	1.57	3.10	9.43	8.70
183	1728	2526.2	9.03	2.55	3.61	88	40.3	2840	2517.5	9.36	9.50	432	432	39.5	44.5	423	104654	96.6	20.0	587	1233	.77	1.48	1.46	3.10	9.43	8.70
184	1731	2526.5	5.45	2.54	3.40	89	40.8	2830	2517.7	9.36	9.51	481	457	39.5	44.3	426	104951	96.9	20.1	808	1232	.78	1.63	1.61	3.10	9.44	8.70
185	1733	2526.8	9.24	2.60	4.11	88	38.7	2820	2517.8	9.36	9.50	481	478	39.6	44.4	429	105136	97.2	20.1	539	1230	.78	1.45	1.43	3.10	9.44	8.70
186	1738	2527.1	3.37	2.35	3.38	88	39.6	2840	2518.0	9.37	9.55	432	490	39.8	44.1	426	105576	97.5	20.2	1577	1230	.78	1.75	1.73	3.10	9.44	8.70
187	1746	2527.4	3.95	2.33	3.35	88	39.1	2830	2518.3	9.35	9.78	432	451	39.9	44.4	426	105983	97.8	20.3	1411	1231	.78	1.70	1.67	3.10	9.44	8.70
188	1750	2527.7	4.25	2.55	3.34	87	40.2	2830	2518.5	9.36	9.67	432	416	39.9	44.4	426	106379	98.1	20.4	1219	1231	.79	1.69	1.67	3.10	9.45	8.70
189	1755	2528.0	3.34	2.44	3.11	87	40.1	2820	2518.8	9.37	9.51	481	455	39.9	44.7	421	106856	98.4	20.5	1493	1232	.79	1.75	1.73	3.10	9.45	8.70
190	1759	2528.3	4.73	2.58	3.68	87	39.9	2820	2518.9	9.36	9.46	481	393	39.9	44.7	423	107173	98.7	20.5	1039	1231	.79	1.65	1.63	3.10	9.45	8.70
191	1803	2528.6	4.30	2.57	3.64	87	40.1	2830	2519.1	9.36	9.48	431	436	40.0	44.7	426	107542	99.0	20.6	1167	1230	.79	1.68	1.66	3.10	9.45	8.70
192	1809	2528.9	3.58	2.47	3.51	87	40.4	2820	2519.5	9.37	9.51	431	434	40.1	44.5	427	107803	99.3	20.7	1301	1231	.80	1.74	1.71	3.10	9.45	8.70
193	1814	2529.2	3.64	2.50	3.46	87	40.6	2810	2519.7	9.37	9.53	481	441	40.1	44.9	424	108437	99.6	20.8	1273	1232	.80	1.73	1.71	3.10	9.46	8.70
194	1821	2529.5	2.43	2.44	3.38	87	39.4	2810	2520.2	9.36	9.55	485	534	40.2	44.6	401	109064	99.9	20.9	2711	1234	.81	1.83	1.81	3.10	9.46	8.70
195	1827	2529.8	3.03	2.42	3.51	87	40.4	2820	2521.6	9.36	9.53	430	576	40.0	44.5	376	109587	100	21.0	1735	1235	.81	1.78	1.76	3.10	9.46	8.70
196	1834	2530.2	2.67	2.40	3.82	86	40.8	2820	2523.3	9.38	9.55	430	560	39.7	44.5	392	110193	101	21.1	1833	1237	.81	1.82	1.80	3.11	9.45	8.70
197	1841	2530.4	2.68	2.42	3.37	87	41.3	2820	2524.1	9.36	9.49	480	563	38.5	44.3	398	110766	101	21.2	1711	1239	.82	1.83	1.81	3.11	9.46	8.70
198	1847	2530.8	3.00	2.33	3.74	87	41.9	2820	2524.6	9.37	9.52	431	569	38.3	44.3	396	111305	101	21.3	1635	1240	.82	1.81	1.78	3.11	9.46	8.70
199	1852	2531.1	3.29	2.48	3.23	87	41.9	2820	2525.1	9.37	9.63	481	553	38.4	44.4	406	111785	101	21.4	1645	1241	.82	1.78	1.76	3.11	9.46	8.70
200	1855	2531.4	6.19	2.50	3.53	86	40.9	2820	2525.4	9.37	9.63	480	532	38.4	44.4	413	112038	102	21.5	857	1240	.83	1.58	1.56	3.11	9.46	8.70
201	1857	2531.7	9.23	2.50	3.31	87	39.3	2820	2525.7	9.38	9.65	480	536	38.4	44.4	418	112207	102	21.5	535	1238	.83	1.45	1.43	3.11	9.46	8.70
202	1859	2532.0	7.92	2.48	3.17	87	39.0	2820	2525.9	9.37	9.66	481	523	38.1	44.3	422	112407	102	21.5	629	1236	.83	1.49	1.47	3.11	9.46	8.70
203	1905	2532.3	3.04	2.41	3.36	86	40.7	2830	2526.7	9.36	9.66	430	550	37.7	44.0	438	112921	103	21.6	1822	1237	.83	1.78	1.76	3.11	9.47	8.70
204	1908	2532.6	6.94	2.56	3.27	87	40.5	2830	2527.0	9.37	9.67	430	530	37.4	43.8	444	113150	103	21.7	746	1236	.83	1.55	1.52	3.11	9.47	8.70
205	1912	2532.9	4.97	2.45	3.28	87	41.8	2820	2527.1	9.36	9.66	480	547	37.1	43.8	450	113468	103	21.7	1015	1235	.84	1.66	1.63	3.11	9.47	8.70
206	1920	2533.2	15.1	2.44	3.00	93	33.8	2910	2527.4	9.36	9.63	483	415	36.6	43.9	472	113600	104	21.8	347	1233	.84	1.27	1.25	3.11	9.47	8.70
207	1924	2533.5	4.37	2.55	3.36	90	40.4	2850	2527.6	9.36	9.63	483	459	36.0	43.1	430	113966	104	21.8	1861	1232	.84	1.68	1.66	3.11	9.47	8.70
208	1929	2533.8	3.49	2.54	3.49	87	41.9	2940	2527.9	9.34	9.62	491	464	35.4	43.5	492	114418	104	21.9	2400	1233	.84	1.76	1.73	3.11	9.48	8.70
209	1936	2534.1	2.39	2.36	3.14	85	40.6	2830	2528.4	9.33	9.59	479	448	34.7	43.1	498	115021	105	22.0	3088	1234	.85	1.84	1.82	3.11	9.47	8.70
210	1942	2534.4	2.98	2.38	3.42	87	42.5	2780	2528.8	9.34	9.60	476	458	34.6	42.7	508	115551	105	22.1	1698	1236	.85	1.81	1.79	3.11	9.47	8.70
211	1946	2534.7	5.14	2.65	3.32	86	41.6	2750	2529.0	9.35	9.61	474	461	34.6	42.7	512	115879	105	22.2	1058	1235	.85	1.64	1.62	3.11	9.47	8.70
212	1952	2535.0	2.79	2.55	3.29	87	41.5	2770	2529.4	9.39	9.60	475	463	34.7	42.5	536	116407	105	22.3	1329	1236	.86	1.82	1.79	3.11	9.47	8.70
213	1957	2535.3	3.65	2.61	3.40	87	41.2	2800	2529.5	9.40	9.60	491	437	34.3	42.6	553	116840	106	22.4	1382	1237	.86	1.74	1.71	3.11	9.48	8.70
214	2002	2535.6	3.81	2.61	3.53	86	43.8	2830	2529.7	9.38	9.62	478	447	34.1	42.5	559	117254	106	22.5	1343	1237	.86	1.76	1.73	3.11	9.47	8.70
215	2008	2536.0	3.08	2.69	3.49	87	42.2	2790	2529.9	9.37	9.63	478	469	33.9	42.4	548	117794	106	22.6	1483	1238	.87	1.80	1.77	3.11	9.47	8.70
216	2014	2536.3	2.85	2.45	3.21	87	41.0	2800	2530.3	9.36	9.66	479	481	34.0	42.2	533	118343	107	22.7	1841	1240	.87	1.81	1.78	3.12	9.47	8.70
217	2019	2536.5	3.45	2.59	4.19	86	41.5	2790	2530.5	9.37	9.65	477	482	34.1	42.1	536	118783	107	22.7	1363	1240	.87	1.76	1.73	3.12	9.47	8.70
218	2025	2536.9	3.56	2.62	3.79	86	41.9	2810	2530.8	9.38	9.64	479	477	34.3	42.2	533	119226	107	22.8	1458	1241	.88	1.75	1.73	3.12	9.47	8.70
219	2032	2537.2	2.73	2.50	3.28	87	41.2	2810	2531.2	9.37	9.66	479	487	34.3	42.2	535	119327	108	22.9	1918	1243	.88	1.82	1.79	3.12	9.48	8.70
220	2036	2537.5	4.02	2.58	3.65	87	42.5	2810	2531.9	9.37	9.67	479	503	34.5	42.0	535	120206	108	23.0	1265	1242	.88	1.73	1.70	3.12	9.47	8.70
221	2041	2537.8	3.63	2.41	3.22	87	40.9	2810	2532.2	9.39	9.67	479	516	34.6	42.3	535	120654	109	23.1	1325	1243	.89	1.74	1.71	3.12	9.47	8.70
222	2047	2538.1	3.13	2.54	3.51	87	41.8	2810	2532.6	9.40	9.68	480	500	34.8	42.1	536	121142	109	23.2	1765	1244	.89	1.79	1.76	3.12	9.47	8.70
223	2053	2538.4	3.05	2.44	3.33	87	40.5	2810	2533.1	9.41	9.65	480	479	35.0	42.0	535	121673	109	23.3	1706	1245	.89	1.78	1.75	3.12	9.47	8.70
224	2058	2538.7	3.67	2.39	3.31	86	42.3	2810	2533.6	9.40	9.62	480	456	35.4	42.2	535	122094	109	23.4	1398	1245	.90	1.75	1.72	3.12	9.47	8.70
225	2105	2539.0	2.41	2.39	3.30	86	41.7	2820	2533.9	9.41	9.66	480	501	35.1	42.1	536	122754	109	23.5	3063	1248	.90	1.86	1.83	3.12	9.47	8.70

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Data Recorded at time 21:11 Date Oct 1 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NK	MKB	ECD	EST FM PR	
226	2111	2539.3	3.45	2.38	3.32	86	40.8	2810	2534.2	9.41	9.64	480	555	35.3	42.1	533	123209	110	23.6	1588	1248	.90	1.75	1.72	3.12	9.47	8.70	I
227	2115	2539.6	4.08	2.44	3.50	86	40.7	2820	2534.4	9.40	9.61	480	501	35.2	42.0	532	123591	110	23.7	1204	1248	.91	1.70	1.67	3.12	9.47	8.70	I
228	2120	2539.9	3.82	2.40	3.28	87	42.8	2820	2534.7	9.39	9.60	481	513	34.6	42.1	531	124005	110	23.7	1295	1249	.91	1.74	1.72	3.12	9.48	8.70	I
229	2125	2540.2	3.41	2.42	3.25	87	42.5	2840	2535.0	9.40	9.58	481	507	35.1	42.3	531	124466	111	23.8	1346	1249	.91	1.77	1.75	3.12	9.48	8.70	I
230	2130	2540.5	3.98	2.49	3.75	86	42.3	2840	2535.3	9.39	9.56	481	455	35.0	42.3	527	124863	111	23.9	1287	1249	.92	1.72	1.70	3.12	9.48	8.70	I
231	2135	2540.8	3.60	2.44	3.13	87	41.0	2830	2535.6	9.38	9.58	490	445	34.9	42.4	527	125343	111	24.0	1579	1249	.92	1.74	1.71	3.12	9.48	8.70	I
232	2140	2541.1	3.60	2.39	3.39	87	41.4	2830	2535.9	9.40	9.59	481	441	35.2	42.3	525	125742	112	24.1	1300	1249	.92	1.74	1.71	3.12	9.49	8.70	I
233	2146	2541.4	3.18	2.24	3.21	87	40.3	2830	2536.2	9.38	9.57	480	449	35.5	42.2	525	126238	112	24.2	1446	1250	.93	1.76	1.74	3.12	9.49	8.70	I
234	2149	2541.7	4.70	2.41	3.17	87	40.8	2830	2536.4	9.40	9.56	481	411	35.2	42.2	523	126575	112	24.2	1062	1250	.93	1.66	1.63	3.13	9.49	8.70	I
235	2156	2542.0	2.87	2.43	3.13	87	40.4	2840	2536.7	9.40	9.56	481	436	35.5	42.6	522	127127	112	24.3	1486	1251	.93	1.79	1.76	3.13	9.49	8.70	I
236	2201	2542.4	3.61	2.37	3.08	87	41.5	2790	2537.0	9.39	9.54	480	474	35.5	42.8	521	127599	113	24.4	1373	1252	.93	1.74	1.71	3.13	9.49	8.70	I
237	2207	2542.6	3.51	2.44	2.73	79	26.1	2290	2537.1	9.39	9.54	480	380	35.5	42.8	548	127643	113	24.4	184	1249	.94	1.75	.84	3.13	9.41	8.70	I
238	2208	2543.0	5041	2.81	3.45	87	34.3	2270	2537.1	9.39	9.54	480	399	35.5	42.8	551	127728	113	24.5	258	1246	.94	1.59	1.19	3.13	9.41	8.70	I
239	2211	2543.3	5.42	2.87	3.76	91	38.0	2310	2537.1	9.38	9.56	455	494	35.7	42.7	544	128037	114	24.5	2637	1246	.94	1.59	1.57	3.13	9.49	8.70	I
240	2215	2543.6	4.71	3.50	6.43	84	38.9	2250	2537.3	9.34	9.61	480	486	37.1	42.4	538	128347	114	24.6	1054	1245	.94	1.62	1.60	3.13	9.50	8.70	I
241	2225	2543.9	1.83	3.32	6.99	81	40.0	2900	2537.9	9.40	9.59	473	458	37.1	42.8	546	129204	114	24.7	3416	1249	.95	1.89	1.87	3.13	9.50	8.70	I
242	2232	2544.2	2.81	2.94	4.74	79	39.8	2840	2538.2	9.40	9.62	472	464	37.2	42.8	531	129699	115	24.9	1657	1250	.95	1.76	1.74	3.13	9.50	8.70	I
243	2239	2544.5	2.63	3.19	4.91	79	40.2	2800	2538.6	9.39	9.66	473	460	37.2	42.9	523	130246	115	25.0	1890	1252	.95	1.73	1.76	3.13	9.50	8.70	I
244	2246	2544.8	2.50	2.87	4.62	79	40.5	2790	2538.9	9.40	9.69	472	474	37.3	43.0	522	130835	115	25.1	1937	1254	.96	1.80	1.78	3.13	9.50	8.70	I
245	2252	2545.1	3.66	2.86	4.92	78	35.1	2390	2539.2	9.41	9.72	389	405	37.6	43.3	522	131223	115	25.2	1375	1254	.96	1.62	1.60	3.13	9.50	8.70	I
246	2301	2545.4	2.02	2.99	5.00	79	39.3	2840	2539.7	9.41	9.71	469	485	37.2	43.2	521	131934	116	25.3	2033	1257	.96	1.85	1.82	3.13	9.50	8.70	I
247	2308	2545.7	2.66	3.09	5.17	78	38.8	2920	2540.1	9.41	9.76	480	500	36.9	43.4	522	132479	116	25.4	2083	1259	.97	1.76	1.74	3.13	9.50	8.70	I
248	2313	2546.0	3.15	3.06	5.18	79	39.8	3030	2540.5	9.40	9.70	490	495	36.6	43.2	519	132932	116	25.5	1640	1260	.97	1.73	1.71	3.13	9.50	8.70	I
249	2320	2546.3	2.89	3.18	5.51	79	38.8	3030	2540.9	9.41	9.64	489	497	36.4	43.5	520	133434	117	25.6	1636	1261	.97	1.74	1.72	3.13	9.50	8.70	I
250	2326	2546.6	2.62	3.69	5.35	79	38.9	2880	2541.2	9.40	9.66	476	504	36.4	43.6	519	133926	117	25.7	1906	1262	.98	1.77	1.74	3.13	9.50	8.70	I
251	2332	2546.9	3.33	3.75	5.63	78	39.6	2880	2541.6	9.40	9.60	476	513	36.6	43.4	514	134394	117	25.8	1791	1263	.98	1.71	1.68	3.13	9.50	8.70	I
252	2338	2547.2	2.55	3.63	5.37	79	39.3	2890	2542.0	9.38	9.59	476	535	36.7	43.2	513	134903	118	25.9	1869	1264	.98	1.78	1.76	3.14	9.50	8.70	I
253	2343	2547.5	3.67	3.19	5.38	78	39.2	2870	2542.3	9.39	9.58	476	535	36.7	43.5	509	135294	118	26.0	1429	1265	.99	1.68	1.65	3.14	9.50	8.70	I
254	2349	2547.8	3.30	3.27	5.46	79	38.7	2880	2543.4	9.40	9.60	475	527	36.7	43.2	508	135767	118	26.1	1763	1266	.99	1.70	1.68	3.14	9.50	8.70	I
255	2355	2548.1	2.94	3.07	4.98	80	38.4	2850	2543.7	9.42	9.58	476	525	36.7	43.3	508	136217	119	26.2	1509	1266	.99	1.73	1.71	3.14	9.50	8.70	I
	Date	Oct 2 '85																										
256	0001	2548.5	3.37	3.43	5.42	79	38.5	2820	2543.9	9.41	9.58	476	549	36.7	43.1	513	136677	119	26.3	1473	1267	1.00	1.69	1.67	3.14	9.50	8.70	I
257	0009	2548.7	2.13	3.01	5.17	80	39.1	2810	2544.3	9.41	11.8	477	636	36.8	42.9	506	137305	119	26.5	2075	1269	1.00	1.83	1.81	3.14	9.50	8.70	I
258	0014	2549.0	3.65	3.18	5.15	80	39.6	2810	2544.5	9.40	11.4	478	537	36.8	43.0	504	137704	119	26.5	1262	1270	1.00	1.69	1.66	3.14	9.50	8.70	I
259	0018	2549.3	3.96	3.08	5.40	79	39.0	2800	2544.7	9.39	10.4	479	437	36.8	43.0	498	138069	120	26.6	1171	1270	1.00	1.66	1.63	3.14	9.50	8.70	I
260	0025	2549.7	2.73	3.30	5.31	79	38.5	2800	2545.0	9.39	9.68	479	419	36.9	43.4	500	138600	120	26.7	2291	1271	1.01	1.75	1.73	3.14	9.50	8.70	I
261	0031	2550.0	3.19	3.26	6.41	80	39.4	2800	2545.2	9.41	9.56	479	416	36.9	43.4	497	139031	120	26.8	1672	1272	1.01	1.72	1.70	3.14	9.51	8.70	I
262	0038	2550.3	2.52	3.10	5.29	80	39.2	2800	2545.5	9.41	9.56	479	421	36.9	43.5	494	139626	121	26.9	2018	1273	1.01	1.79	1.76	3.14	9.51	8.70	I
263	0044	2550.6	2.96	3.00	5.25	79	40.5	2810	2545.8	9.43	9.50	480	416	36.9	43.4	492	140142	121	27.0	1650	1275	1.02	1.76	1.73	3.14	9.51	8.70	I
264	0050	2550.9	3.15	3.29	5.05	80	40.1	2820	2546.1	9.43	9.45	480	415	36.9	43.7	491	140603	121	27.1	1774	1276	1.02	1.73	1.71	3.14	9.51	8.70	I
265	0058	2551.2	2.45	3.20	5.10	80	40.3	2840	2546.4	9.43	9.50	480	424	36.8	43.6	488	141193	122	27.3	2404	1277	1.02	1.81	1.78	3.14	9.51	8.70	I
266	0104	2551.5	2.83	3.45	5.34	80	40.6	2830	2546.8	9.43	9.50	481	453	36.9	43.7	490	141706	122	27.4	2052	1279	1.03	1.77	1.75	3.14	9.50	8.70	I
267	0111	2551.8	2.36	3.29	5.26	80	40.9	2860	2547.1	9.43	9.52	481	457	36.9	43.6	490	142302	122	27.5	2168	1280	1.03	1.83	1.80	3.14	9.51	8.70	I
268	0124	2552.1	2.92	3.27	5.07	79	40.2	2880	2547.5	9.42	9.59	485	421	37.8	43.2	499	142526	122	27.5	2149	1280	1.03	1.79	1.76	3.14	9.51	8.70	I
269	0129	2552.4	2.82	3.07	5.03	83	38.6	2900	2547.8	9.40	9.62	483	481	37.8	42.5	488	143009	123	27.6	1935	1280	1.04	1.82	1.78	3.14	9.51	8.70	I
270	0139	2552.7	2.00	3.28	5.31	80	39.9	2900	2548.3	9.44	9.68	483	503	37.5	43.5	500	143754	123	27.8	2352	1283	1.04	1.86	1.83	3.15	9.51	8.70	I
271	0147	2553.0	2.16	3.06	5.35	81	39.7	2920	2548.6	9.43	9.69	484	492	37.4	43.7	494	144432	123	27.9	2259	1285	1.05	1.84	1.81	3.15	9.51	8.70	I
272	0154	2553.3	2.60	3.18	5.14	81	40.0	2930	2549.1	9.43	9.68	484	495	37.3	44.2	495	144937	124	28.0	2060	1287	1.05	1.79	1.76	3.15	9.52	8.70	I
273	0201	2553.6	2.68	3.03	5.38	80	41.3	2930	2549.5	9.42	9.69	484	502	37.3	44.1	494	145530	124	28.2	1921	1288	1.05	1.79	1.77	3.15	9.52	8.70	I
274	0208	2553.9	2.56	3.69	5.30	80	40.6	2920	2549.8	9.42	9.75	483	513	37.3	43.9	494	146101	124	28.3	2074	1290	1.06	1.80	1.77	3.15	9.52	8.70	I

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TV	DXC	MX	MXB	ECD	EST PM PR
275	0218	2554.2	1.79	3.18	5.55	81	38.0	2930	2550.2	9.41	9.74	483	522	36.8	44.0	493	146919	125	28.4	3783	1294	1.06	1.86	1.84	3.15	9.52	8.70
276	0225	2554.5	2.37	3.00	5.21	81	41.0	2920	2550.5	9.42	9.75	483	526	36.5	44.1	495	147432	125	28.6	1761	1295	1.07	1.77	1.75	3.15	9.52	8.70
277	0228	2554.8	4.70	3.27	5.66	80	41.2	2930	2550.7	9.42	9.80	483	475	36.5	44.0	483	147714	125	28.6	1157	1294	1.07	1.63	1.61	3.15	9.52	8.70
278	0236	2555.1	2.25	3.10	5.35	81	43.0	2910	2551.1	9.39	9.82	433	490	36.5	44.3	481	148365	126	28.7	1916	1296	1.07	1.87	1.84	3.15	9.53	8.70
279	0243	2555.4	2.84	3.22	5.31	80	43.3	2920	2551.3	9.39	9.85	483	482	36.7	44.4	480	148880	126	28.9	1799	1297	1.08	1.80	1.77	3.15	9.53	8.70
280	0251	2555.8	2.44	3.33	5.33	80	42.9	2910	2551.7	9.40	9.88	484	497	36.5	44.6	480	149526	126	29.0	1996	1299	1.08	1.84	1.81	3.15	9.53	8.70
281	0256	2556.1	3.36	3.13	5.51	80	43.1	2890	2551.8	9.40	9.88	483	469	36.5	44.5	477	149926	126	29.1	1522	1300	1.08	1.75	1.72	3.15	9.53	8.70
282	0304	2556.4	2.16	3.33	5.50	80	43.3	2890	2552.3	9.39	9.88	483	506	36.4	44.0	478	150600	127	29.2	2238	1302	1.09	1.89	1.86	3.15	9.52	8.70
283	0310	2556.7	3.32	3.35	5.46	80	42.1	2890	2552.5	9.40	9.86	483	514	36.5	44.1	478	151040	127	29.3	1342	1302	1.09	1.74	1.72	3.15	9.52	8.70
284	0318	2557.0	2.15	3.43	5.40	80	42.2	2900	2552.8	9.39	9.86	484	493	36.5	44.1	481	151716	127	29.4	2447	1305	1.09	1.87	1.84	3.15	9.52	8.70
285	0327	2557.3	2.07	3.22	5.38	79	42.1	2880	2553.2	9.40	9.87	483	485	36.8	44.5	478	152422	128	29.6	3307	1307	1.10	1.88	1.85	3.15	9.51	8.70
286	0334	2557.6	2.79	3.39	5.40	80	42.0	2870	2553.5	9.40	9.85	483	497	36.8	44.4	478	152976	128	29.7	1934	1309	1.10	1.79	1.76	3.15	9.51	8.70
287	0341	2557.9	2.50	3.34	5.75	80	42.7	2870	2553.8	9.40	9.86	484	515	36.9	44.3	477	153558	128	29.8	2393	1311	1.11	1.84	1.81	3.15	9.51	8.70
288	0349	2558.2	2.14	3.45	5.40	81	42.4	2870	2554.1	9.41	9.83	484	497	37.0	44.4	477	154204	129	30.0	3112	1313	1.11	1.88	1.85	3.16	9.51	8.70
289	0355	2558.5	2.97	3.20	5.56	80	42.2	2890	2554.3	9.41	9.82	484	501	37.1	44.5	474	154696	129	30.1	1924	1313	1.11	1.78	1.75	3.16	9.51	8.70
290	0403	2558.8	2.33	3.28	5.84	80	42.1	2890	2554.8	9.41	9.82	483	513	37.2	44.4	476	155322	129	30.2	2041	1315	1.12	1.85	1.82	3.16	9.50	8.70
291	0409	2559.1	2.93	3.46	5.52	80	42.5	2890	2555.1	9.41	9.77	433	489	37.2	44.6	480	155817	129	30.3	1658	1316	1.12	1.79	1.76	3.16	9.50	8.70
292	0418	2559.4	2.19	3.65	5.44	80	42.6	2890	2555.4	9.40	9.80	483	496	37.2	44.3	472	156479	130	30.4	2004	1319	1.13	1.87	1.84	3.16	9.50	8.70
293	0424	2559.7	3.19	3.34	5.43	80	42.1	2870	2555.7	9.42	9.81	483	479	37.4	44.4	492	156948	130	30.5	1614	1319	1.13	1.76	1.73	3.16	9.50	8.70
294	0430	2560.0	2.81	3.43	5.76	79	43.2	2890	2556.0	9.40	9.81	483	470	38.0	44.4	458	157449	130	30.6	1868	1320	1.13	1.81	1.78	3.16	9.50	8.70
295	0437	2560.3	2.42	3.25	5.65	80	42.3	2890	2556.3	9.45	9.76	434	521	36.7	44.9	446	158049	131	30.8	1951	1322	1.14	1.84	1.81	3.16	9.50	8.70
296	0440	2560.6	8.71	3.12	5.24	81	42.0	2890	2556.3	9.59	9.79	483	516	36.9	44.6	445	158220	131	30.8	676	1320	1.14	1.47	1.44	3.16	9.50	8.70
297	0441	2560.9	17.9	3.33	5.81	80	41.2	2890	2556.4	9.59	9.79	483	517	36.9	44.6	444	158301	131	30.8	273	1318	1.14	1.26	1.23	3.16	9.50	8.70
298	0441	2561.2	21.0	2.95	4.54	81	40.0	2870	2556.4	9.59	9.79	433	517	36.9	44.6	442	158371	132	30.8	248	1315	1.14	1.20	1.17	3.16	9.50	8.70
299	0447	2561.5	34.2	3.12	4.54	83	32.3	2890	2556.6	9.60	9.81	473	491	37.6	44.5	453	158439	132	30.8	160	1313	1.14	1.01	.98	3.16	9.50	8.70
300	0447	2561.8	21.5	3.32	4.64	84	41.6	2890	2556.6	9.60	9.81	477	502	37.6	44.5	450	158463	132	30.8	239	1310	1.14	1.21	1.16	3.16	9.50	8.70
301	0448	2562.2	16.5	3.02	4.72	84	40.8	2910	2556.6	9.60	9.81	482	540	37.6	44.5	450	158565	133	30.9	303	1308	1.14	1.29	1.26	3.16	9.51	8.70
302	0449	2562.5	24.7	3.03	5.12	83	38.4	2920	2556.7	9.60	9.81	482	538	37.6	44.5	446	158633	133	30.9	232	1306	1.14	1.15	1.12	3.16	9.51	8.70
303	0454	2562.8	11.4	3.16	5.18	83	33.4	2860	2556.8	9.61	9.83	457	414	38.6	44.4	455	158756	133	30.9	511	1303	1.14	1.31	1.28	3.16	9.51	8.70
304	0456	2563.1	8.54	3.23	6.05	80	40.8	2910	2556.8	9.61	9.83	482	470	38.6	44.4	453	158910	133	30.9	656	1301	1.14	1.46	1.43	3.16	9.51	8.70
305	0501	2563.4	3.22	3.47	5.49	81	40.6	2910	2557.1	9.62	9.89	482	476	39.0	43.5	452	159367	134	31.0	2751	1302	1.14	1.74	1.71	3.16	9.51	8.70
306	0509	2563.7	2.72	3.22	5.80	81	41.9	2900	2557.4	9.63	9.88	482	509	38.9	44.5	450	159952	134	31.1	2156	1303	1.15	1.80	1.77	3.17	9.51	8.70
307	0513	2564.0	4.56	2.90	5.96	80	42.3	2910	2557.5	9.64	9.86	482	524	38.9	44.6	454	160272	134	31.2	1718	1303	1.15	1.66	1.63	3.17	9.52	8.70
308	0514	2564.3	9.82	3.23	5.66	80	41.9	2910	2557.6	9.64	9.86	482	526	38.9	44.6	450	160410	135	31.2	471	1301	1.15	1.43	1.40	3.17	9.52	8.70
309	0519	2564.6	3.56	3.30	5.68	82	41.7	2910	2557.8	9.65	9.86	433	509	38.7	44.4	449	160823	135	31.3	3409	1301	1.15	1.72	1.69	3.17	9.53	8.70
310	0525	2564.9	3.40	3.43	5.64	82	41.6	2910	2558.0	9.65	9.87	483	492	38.6	44.6	443	161287	135	31.4	1740	1302	1.16	1.73	1.70	3.17	9.55	8.70
311	0531	2565.2	3.21	3.25	6.20	82	41.7	2910	2558.3	9.65	9.87	483	490	38.6	44.6	442	161749	136	31.5	1372	1302	1.16	1.75	1.72	3.17	9.55	8.70
312	0538	2565.5	2.33	3.58	5.41	83	41.3	2910	2558.6	9.64	9.93	483	508	38.7	44.6	441	162354	136	31.6	2030	1304	1.16	1.83	1.80	3.17	9.57	8.70
313	0546	2565.8	2.56	3.55	5.41	82	40.9	2920	2558.9	9.64	9.94	483	483	38.1	44.7	440	162962	136	31.8	1851	1306	1.17	1.79	1.76	3.17	9.59	8.70
314	0548	2566.1	6.38	3.56	5.51	82	40.6	2900	2559.0	9.63	9.98	483	474	38.0	44.6	436	163183	137	31.8	766	1304	1.17	1.54	1.50	3.17	9.59	8.70
315	0553	2566.4	3.71	3.36	5.61	81	40.8	2910	2559.2	9.63	9.99	482	465	38.8	44.5	434	163581	137	31.9	1041	1304	1.17	1.68	1.65	3.17	9.61	8.70
+ NB#14 SMITH F2 CE 12.25" 3x13,8 jets. Start depth 2566.3m.																											
319	1818	2566.7	2.36	2.16	2.87	82	16.9	2660	2566.3	9.70	9.77	570	574	30.9	41.8	410	1038	.23	.2	2340	87437	.01	1.40	1.41	3.17	9.75	8.70
320	1822	2567.0	4.06	2.24	2.77	81	19.9	2720	2566.3	9.71	9.70	577	584	32.2	42.1	406	1452	.53	.3	1284	38962	.01	1.34	1.34	3.17	9.75	8.70
321	1824	2567.3	9.66	2.22	2.55	82	20.5	2700	2566.3	9.71	9.68	576	583	32.9	42.2	405	1604	.84	.3	502	24665	.01	1.15	1.15	3.17	9.76	8.70
322	1829	2567.6	3.44	2.24	2.58	86	27.3	2890	2566.3	9.71	9.62	597	605	34.2	42.5	404	2051	1.15	.4	1133	18424	.02	1.51	1.51	3.17	9.76	8.70
323	1835	2567.9	3.22	2.41	2.99	87	33.1	2870	2566.3	9.73	9.61	595	630	35.4	42.8	401	2546	1.46	.5	1591	14825	.02	1.61	1.61	3.17	9.77	8.70
324	1838	2568.2	5.45	2.44	3.00	88	36.1	2910	2566.3	9.68	9.59	597	634	35.9	42.9	394	2841	1.76	.6	968	12421	.03	1.51	1.52	3.17	9.77	8.70
325	1844	2568.5	3.38	2.40	3.23	88	37.3	2900	2566.3	9.69	9.61	598	676	36.9	43.2	391	3314	2.07	.7	1377	10911	.03	1.66	1.66	3.17	9.78	8.70
326	1847	2568.9	6.30	2.23	2.96	87	35.1	2920	2566.3	9.68	9.64	600	636	37.4	43.9	391	3587	2.37	.7	868	9628	.03	1.46	1.46	3.17	9.78	8.70

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Data Recorded at time 18:47 Date Oct 2 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	MX	MXB	ECD	EST FM PR
327	1847	2569.2	34.9	2.41	3.07	88	39.7	2920	2566.3	9.63	9.64	600	684	37.4	43.9	389	3630	2.67	.7	142	8473	.03	1.35	1.35	3.17	9.78	8.70
328	1848	2569.5	14.1	2.36	3.00	88	39.0	2920	2566.3	9.67	9.69	600	682	37.9	44.2	387	3739	2.98	.7	352	7632	.03	1.29	1.29	3.17	9.79	8.70
329	1849	2569.8	24.6	2.36	2.57	87	38.0	2910	2566.3	9.67	9.69	600	680	37.9	44.2	383	3800	3.28	.8	192	6953	.03	1.13	1.13	3.17	9.79	8.70
330	1855	2570.1	3.32	2.39	3.06	87	39.9	2920	2566.3	9.66	9.63	600	642	38.5	44.5	379	4279	3.58	.8	2779	6489	.04	1.69	1.69	3.17	9.79	8.70
331	1901	2570.4	2.99	2.49	3.08	87	40.0	2900	2566.3	9.68	9.54	598	630	39.3	44.6	379	4809	3.89	.9	1720	6100	.04	1.72	1.72	3.17	9.79	8.70
332	1910	2570.7	3.42	2.45	3.05	87	39.1	2820	2566.3	9.69	9.43	585	619	40.2	44.7	393	5050	4.17	1.0	1131	5769	.05	1.69	1.70	3.17	9.79	8.70
333	1914	2571.0	4.83	2.60	3.31	88	40.3	2810	2566.3	9.67	9.37	589	646	40.9	44.5	379	5379	4.49	1.1	1714	5419	.05	1.59	1.60	3.17	9.80	8.70
334	1919	2571.3	3.94	2.51	3.21	88	40.7	2950	2566.3	9.64	9.52	605	575	41.1	43.4	373	5779	4.81	1.1	1231	5136	.05	1.66	1.66	3.18	9.80	8.70
335	1923	2571.6	3.72	2.47	3.55	87	41.2	2950	2566.3	9.65	9.57	606	543	41.3	45.0	368	6205	5.11	1.2	1316	4909	.06	1.67	1.63	3.17	9.81	8.70
336	1927	2571.9	5.25	2.52	3.77	87	40.6	2940	2566.3	9.64	9.63	604	538	41.4	45.6	362	6507	5.42	1.3	1002	4685	.06	1.57	1.57	3.18	9.81	8.70
337	1932	2572.2	3.72	2.55	3.83	87	42.1	2940	2566.5	9.65	9.40	606	548	41.6	46.1	356	6972	5.72	1.4	1204	4514	.06	1.69	1.69	3.18	9.81	8.70
338	1940	2572.5	2.48	2.53	3.49	87	42.4	2930	2566.8	9.64	9.60	605	502	42.1	46.1	355	7607	6.03	1.5	1527	4388	.07	1.80	1.80	3.18	9.80	8.70
339	1945	2572.8	2.97	2.47	3.40	87	41.4	2930	2567.3	9.67	9.62	605	550	42.4	46.1	354	8093	6.33	1.6	1603	4250	.07	1.74	1.74	3.18	9.79	8.70
340	1951	2573.1	2.96	2.48	3.35	87	41.0	2940	2567.8	9.70	9.58	606	566	42.9	46.3	351	8628	6.64	1.7	1634	4132	.08	1.74	1.74	3.18	9.79	8.70
341	1957	2573.5	3.71	2.65	3.42	87	42.3	2920	2568.1	9.67	9.57	605	558	43.1	46.4	346	9090	6.94	1.8	1466	4017	.08	1.69	1.69	3.18	9.79	8.70
342	2001	2573.7	4.33	2.55	3.42	87	42.9	2910	2568.4	9.66	9.59	606	597	43.4	46.4	342	9423	7.25	1.8	1120	3891	.09	1.66	1.66	3.18	9.78	8.70
343	2006	2574.0	3.11	2.56	3.66	87	41.5	2910	2568.8	9.66	9.62	606	574	43.6	46.5	340	9937	7.55	1.9	1323	3799	.09	1.73	1.73	3.18	9.78	8.70
344	2012	2574.3	3.25	2.45	3.39	88	43.5	2910	2570.0	9.64	9.66	606	581	43.8	46.6	338	10427	7.86	2.0	1541	3710	.10	1.75	1.75	3.18	9.78	8.70
345	2017	2574.7	3.39	2.59	3.23	87	42.9	2920	2570.2	9.63	9.64	606	554	44.0	46.8	334	10895	8.15	2.1	1560	3631	.10	1.73	1.73	3.18	9.77	8.70
346	2022	2575.0	4.06	2.51	3.45	87	41.8	2920	2570.4	9.64	9.62	606	581	44.1	46.9	331	11253	8.47	2.2	1132	3538	.10	1.66	1.66	3.18	9.77	8.70
347	2026	2575.3	3.95	2.56	3.29	88	41.8	2920	2570.7	9.62	9.55	607	588	44.1	47.2	328	11666	8.77	2.3	1290	3460	.11	1.68	1.68	3.18	9.73	8.70
348	2031	2575.6	3.62	2.49	3.41	88	42.8	2920	2571.1	9.62	9.50	606	580	44.4	47.2	325	12106	9.08	2.3	1316	3390	.11	1.72	1.72	3.18	9.73	8.70
349	2035	2575.9	4.41	2.52	3.13	87	41.4	2920	2571.3	9.62	9.52	606	592	44.5	47.3	324	12457	9.38	2.4	1195	3316	.11	1.64	1.64	3.18	9.73	8.70
350	2041	2576.2	3.23	2.55	3.21	88	41.9	2930	2571.8	9.62	9.55	607	557	44.5	47.3	321	12975	9.67	2.5	1654	3266	.12	1.73	1.73	3.18	9.73	8.70
351	2046	2576.5	3.75	2.53	3.27	89	41.6	2930	2572.1	9.62	9.55	607	574	44.6	47.4	319	13406	9.99	2.6	1301	3203	.12	1.70	1.70	3.18	9.72	8.70
352	2051	2576.8	3.67	2.47	3.25	89	41.5	2940	2572.3	9.64	9.51	608	570	45.0	47.5	316	13849	10.3	2.7	1467	3149	.13	1.70	1.70	3.19	9.72	8.70
353	2055	2577.1	4.57	2.47	3.26	88	41.6	2940	2572.4	9.48	9.52	608	569	45.1	47.7	315	14196	10.6	2.7	1205	3094	.13	1.64	1.64	3.18	9.72	8.70
354	2100	2577.4	3.49	2.52	3.52	88	42.2	2930	2572.7	9.52	9.56	607	589	44.5	47.7	312	14640	10.9	2.8	1467	3042	.13	1.72	1.72	3.19	9.72	8.70
355	2105	2577.7	3.41	2.47	3.37	87	42.1	2940	2573.0	9.54	9.58	608	592	44.8	47.8	308	15116	11.2	2.9	1648	3000	.14	1.73	1.73	3.19	9.72	8.70
356	2108	2578.0	7.58	2.54	3.16	88	42.3	2930	2573.1	9.54	9.59	607	564	44.8	47.4	304	15323	11.5	2.9	661	2937	.14	1.51	1.51	3.19	9.71	8.70
357	2112	2578.3	4.46	2.38	3.17	88	42.0	2940	2573.4	9.56	9.56	608	544	44.8	47.8	303	15633	11.8	3.0	1291	2890	.14	1.65	1.65	3.19	9.71	8.70
358	2117	2578.6	3.98	2.42	3.37	88	42.0	2930	2573.6	9.56	9.64	608	541	44.8	47.7	299	16091	12.1	3.1	1191	2850	.15	1.69	1.69	3.19	9.70	8.70
359	2120	2578.9	4.71	2.42	3.34	88	42.3	2940	2573.8	9.57	9.66	609	580	44.8	47.9	297	16428	12.4	3.2	1066	2805	.15	1.64	1.64	3.19	9.70	8.70
360	2124	2579.2	4.64	2.44	3.47	88	42.2	2930	2574.1	9.58	9.65	608	538	44.8	47.9	295	16774	12.7	3.2	1128	2769	.15	1.65	1.65	3.19	9.69	8.70
361	2125	2579.5	26.6	2.39	2.80	88	40.4	2940	2574.1	9.58	9.65	609	521	44.8	47.9	295	16834	13.0	3.2	273	2712	.15	1.14	1.14	3.19	9.69	8.70
362	2126	2579.8	24.8	2.45	2.75	89	40.4	2950	2574.2	9.58	9.65	611	520	44.8	47.9	294	16899	13.3	3.2	203	2652	.15	1.16	1.16	3.19	9.69	8.70
363	2138	2580.2	13.5	2.33	2.69	87	40.1	2970	2574.5	9.63	9.63	563	458	42.7	48.4	326	17060	13.6	3.3	346	2605	.16	1.33	1.32	3.19	9.67	8.70
364	2143	2580.4	3.38	2.40	3.21	87	41.5	2980	2574.8	9.60	9.69	611	561	41.2	47.6	322	17480	14.0	3.4	3436	2571	.16	1.73	1.72	3.19	9.68	8.70
365	2146	2580.8	6.14	2.36	2.99	87	42.0	2990	2575.0	9.61	9.70	611	578	41.0	47.3	321	17759	14.3	3.4	888	2535	.16	1.56	1.56	3.19	9.68	8.70
366	2147	2581.0	23.3	2.40	3.16	87	41.7	2990	2575.0	9.61	9.70	611	563	41.0	47.3	324	17821	14.6	3.4	338	2502	.16	1.19	1.19	3.19	9.68	8.70
367	2147	2581.4	28.9	2.37	2.77	88	39.5	2990	2575.0	9.62	9.68	611	565	40.7	47.6	325	17879	14.9	3.4	198	2455	.16	1.11	1.11	3.19	9.68	8.70
368	2148	2581.7	24.2	2.40	2.68	86	41.3	2990	2575.1	9.62	9.63	611	572	40.7	47.6	324	17942	15.2	3.4	200	2395	.16	1.17	1.17	3.19	9.68	8.70
369	2153	2582.0	18.2	2.37	2.79	87	40.5	3020	2575.2	9.64	9.65	577	475	40.6	47.7	341	18026	15.5	3.5	333	2361	.17	1.24	1.24	3.19	9.68	8.70
370	2155	2582.3	6.67	2.46	3.48	88	41.7	2980	2575.4	9.66	9.64	610	551	40.7	47.5	338	18261	15.8	3.5	-667	2324	.17	1.54	1.54	3.20	9.68	8.70
371	2157	2582.6	8.65	2.47	3.08	89	42.2	2960	2575.5	9.66	9.64	610	546	40.7	47.5	337	18435	16.1	3.5	583	2288	.17	1.48	1.47	3.20	9.68	8.70
372	2200	2582.9	6.50	2.45	3.49	88	42.9	2970	2575.7	9.61	9.67	610	553	40.5	47.4	339	18695	16.4	3.6	861	2263	.17	1.56	1.56	3.20	9.68	8.70
373	2202	2583.2	7.91	2.49	3.65	87	42.8	2980	2575.9	9.60	9.66	611	607	40.4	47.0	341	18985	16.7	3.6	604	2230	.17	1.50	1.50	3.20	9.68	8.70
374	2205	2583.5	5.71	2.50	3.85	88	44.0	2970	2576.0	9.60	9.64	610	591	40.3	47.5	345	19167	17.0	3.7	837	2206	.18	1.61	1.61	3.20	9.68	8.70
375	2208	2583.8	6.47	2.51	3.50	88	43.5	2960	2576.2	9.61	9.58	609	555	40.3	47.6	348	19427	17.3	3.7	767	2181	.18	1.57	1.57	3.20	9.68	8.70
376	2211	2584.1	7.44	2.49	3.05	89	42.4	2970	2576.4	9.62	9.57	610	584	40.4	47.6	350	19643	17.6	3.8	794	2156	.18	1.52	1.52	3.20	9.68	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NK	NKB	ECD	EST FM PR
377	2214	2584.4	6.14	2.56	3.50	89	42.3	2950	2576.6	9.62	9.58	609	562	40.5	47.4	353	19905	17.9	3.8	973	2132	.18	1.57	1.57	3.20	9.68	8.70
378	2216	2584.7	6.47	2.48	3.33	87	42.4	2960	2576.7	9.57	9.54	609	578	40.4	47.3	356	20143	18.2	3.9	772	2108	.18	1.56	1.55	3.20	9.68	8.70
379	2219	2585.0	6.67	2.43	3.65	87	42.9	2950	2576.9	9.58	9.55	608	593	40.6	47.1	362	20374	18.5	3.9	730	2086	.19	1.55	1.55	3.20	9.68	8.70
380	2222	2585.3	5.62	2.44	3.51	87	40.6	2960	2577.1	9.64	9.56	609	578	40.5	47.4	359	20664	18.8	4.0	865	2067	.19	1.57	1.57	3.20	9.68	8.70
381	2226	2585.6	5.08	2.51	3.27	87	40.8	2970	2577.3	9.71	9.56	611	583	41.2	47.1	357	20976	19.1	4.0	1025	2050	.19	1.60	1.60	3.20	9.68	8.70
382	2228	2585.9	5.61	2.04	4.41	70	40.1	2310	2577.5	9.72	9.54	548	539	41.6	47.2	357	21161	19.4	4.1	1134	2031	.19	1.58	1.58	3.20	9.68	8.70
383	2231	2586.2	5.83	2.29	3.54	73	39.9	1020	2577.6	9.72	9.49	537	490	41.8	47.3	356	21401	19.7	4.1	706	2009	.20	1.51	1.51	3.20	9.68	8.70
384	2235	2586.5	4.60	2.42	3.53	85	40.2	2310	2578.0	9.74	9.44	596	515	41.9	47.2	354	21737	20.0	4.2	1064	1997	.20	1.62	1.61	3.20	9.68	8.70
385	2239	2586.8	4.92	2.50	3.89	58	39.6	2330	2578.2	9.75	9.41	537	467	41.7	47.2	354	22041	20.4	4.2	1071	1980	.20	1.48	1.49	3.20	9.69	8.70
386	2243	2587.1	4.38	2.39	3.55	87	39.7	2510	2578.5	9.46	9.39	556	482	41.4	47.1	350	22404	20.6	4.3	1132	1969	.21	1.63	1.63	3.20	9.70	8.70
387	2247	2587.4	5.56	2.53	3.40	87	39.7	2510	2578.7	9.46	9.39	559	515	40.3	46.7	349	22691	21.0	4.4	899	1952	.21	1.56	1.56	3.20	9.71	8.70
388	2251	2587.8	4.06	2.45	3.24	87	41.7	2520	2579.0	9.46	9.37	560	489	39.2	47.0	346	23031	21.3	4.4	1152	1941	.21	1.67	1.67	3.21	9.72	8.70
389	2256	2588.1	3.72	2.45	3.75	88	41.3	2530	2579.9	9.44	9.33	562	502	39.7	47.1	344	23547	21.6	4.5	1415	1935	.22	1.69	1.69	3.21	9.71	8.70
390	2300	2588.4	4.19	2.42	3.40	88	40.4	2530	2579.9	9.40	9.33	562	499	39.8	47.3	339	23894	21.9	4.6	1255	1923	.22	1.65	1.65	3.21	9.71	8.70
391	2304	2588.7	5.28	2.51	3.16	87	39.5	2530	2580.2	9.42	9.33	563	481	39.7	47.4	336	24196	22.2	4.6	949	1909	.22	1.57	1.57	3.21	9.71	8.70
392	2308	2589.0	4.05	2.46	3.27	87	39.9	2530	2580.6	9.46	9.34	562	483	40.2	47.6	338	24589	22.5	4.7	1236	1900	.22	1.65	1.65	3.21	9.71	8.70
393	2312	2589.3	5.08	2.49	3.57	88	40.8	2530	2581.0	9.47	9.34	562	531	39.3	47.5	341	24901	22.8	4.8	979	1888	.23	1.60	1.60	3.21	9.69	8.70
394	2319	2589.7	5.28	2.37	3.57	81	27.0	2520	2582.0	9.44	9.29	512	388	38.4	47.5	361	25089	23.1	4.8	67	1872	.23	1.58	1.21	3.21	9.67	8.70
395	2320	2590.2	6.10	2.34	2.97	90	33.6	2540	2582.1	9.44	9.29	560	482	38.4	47.5	356	25229	23.7	4.8	389	1829	.23	1.56	1.18	3.21	9.68	8.70
396	2323	2590.5	5.83	2.70	3.20	88	40.8	2540	2582.5	9.45	9.23	561	516	38.3	47.3	347	25499	24.0	4.9	716	1816	.23	1.57	1.57	3.21	9.68	8.70
397	2327	2590.8	5.46	2.52	3.09	87	40.1	2530	2582.8	9.34	9.26	561	531	36.2	47.1	345	25790	24.3	5.0	890	1805	.24	1.58	1.57	3.21	9.67	8.70
398	2331	2591.1	4.47	2.53	3.26	87	40.8	2540	2583.3	9.36	9.32	561	509	35.6	47.1	345	26161	24.6	5.0	1129	1799	.24	1.64	1.64	3.21	9.66	8.70
399	2336	2591.4	3.68	2.46	3.18	87	40.6	2540	2583.8	9.34	9.30	561	522	34.8	47.1	349	26591	24.9	5.1	1343	1792	.24	1.70	1.69	3.21	9.65	8.70
400	2339	2591.7	6.56	2.43	3.15	87	40.0	2540	2584.1	9.34	9.32	561	511	34.3	47.1	349	26833	25.2	5.2	922	1780	.25	1.53	1.53	3.21	9.64	8.70
401	2344	2592.1	4.15	2.46	3.30	88	39.7	2540	2584.6	9.33	9.37	561	522	33.9	47.2	352	27252	25.5	5.2	1127	1774	.25	1.66	1.65	3.21	9.62	8.70
402	2347	2592.3	4.65	2.42	3.12	87	38.9	2540	2585.0	9.34	9.36	561	527	33.9	47.0	353	27547	25.8	5.3	1044	1763	.25	1.62	1.61	3.21	9.61	8.70
403	2357	2592.6	5.00	2.47	3.20	83	39.4	2520	2585.5	9.36	9.37	546	434	34.5	46.9	375	27873	26.1	5.4	1034	1756	.25	1.61	1.60	3.21	9.59	8.70
	Date	Oct 3 '85																									
404	0001	2592.9	4.55	2.51	3.57	87	40.8	2510	2585.8	9.37	9.39	558	490	35.5	46.5	370	28182	26.4	5.4	1044	1746	.26	1.65	1.65	3.22	9.58	8.70
405	0005	2593.2	4.25	2.33	2.97	87	40.2	2520	2586.3	9.36	9.33	564	534	35.4	46.1	368	28554	26.8	5.5	1157	1739	.26	1.66	1.66	3.21	9.57	8.70
406	0009	2593.5	4.63	2.58	3.11	87	40.7	2510	2586.8	9.39	9.30	561	536	35.4	46.2	359	28902	27.1	5.5	1186	1732	.26	1.65	1.64	3.22	9.56	8.70
407	0013	2593.9	4.29	2.59	3.37	87	40.0	2510	2587.0	9.37	9.31	560	518	35.6	46.2	370	29269	27.4	5.6	1084	1726	.27	1.67	1.66	3.22	9.54	8.70
408	0017	2594.2	5.26	2.57	3.61	87	40.5	2500	2587.3	9.40	9.33	557	493	35.7	46.3	371	29570	27.7	5.7	1045	1718	.27	1.62	1.61	3.22	9.52	8.70
409	0021	2594.5	4.43	2.55	3.51	87	39.9	2500	2587.6	9.40	9.32	565	510	35.6	46.2	373	29923	27.9	5.7	1099	1712	.27	1.66	1.65	3.22	9.51	8.70
410	0024	2594.8	5.18	2.44	3.16	88	41.1	2490	2587.8	9.41	9.33	558	522	35.7	46.3	376	30202	28.2	5.8	924	1703	.28	1.64	1.63	3.22	9.49	8.70
411	0028	2595.1	4.29	2.47	3.31	88	40.9	2490	2588.1	9.39	9.32	567	511	35.7	46.1	379	30573	28.6	5.9	1180	1697	.28	1.69	1.69	3.22	9.48	8.70
412	0032	2595.4	4.61	2.42	3.19	88	41.1	2490	2588.4	9.39	9.32	564	513	35.7	46.1	378	30920	28.9	5.9	1003	1689	.28	1.67	1.67	3.22	9.48	8.70
413	0036	2595.7	4.71	2.52	3.29	87	41.2	2480	2588.7	9.39	9.31	563	484	36.0	46.1	379	31258	29.2	6.0	1123	1684	.28	1.67	1.66	3.22	9.48	8.70
414	0039	2596.0	7.44	2.57	3.42	87	40.9	2480	2588.9	9.40	9.34	564	428	36.1	45.8	379	31472	29.5	6.0	693	1672	.29	1.53	1.53	3.22	9.47	8.70
415	0042	2596.3	5.48	2.47	3.23	88	41.1	2470	2589.1	9.45	9.28	557	410	36.1	45.8	383	31763	29.8	6.1	1144	1665	.29	1.62	1.62	3.22	9.47	8.70
416	0045	2596.6	6.37	2.38	3.24	88	40.6	2470	2589.3	9.46	9.27	557	430	36.1	45.7	386	32015	30.1	6.1	849	1656	.29	1.57	1.57	3.22	9.47	8.70
417	0050	2596.9	3.36	2.55	3.84	87	40.6	2470	2590.3	9.48	9.25	557	464	36.8	45.7	394	32485	30.4	6.2	1233	1654	.30	1.76	1.75	3.22	9.47	8.70
418	0054	2597.2	4.61	2.44	3.53	87	40.5	2450	2590.7	9.48	9.23	573	460	37.1	45.4	398	32830	30.7	6.3	1022	1648	.30	1.66	1.66	3.22	9.47	8.70
419	0101	2597.5	2.99	2.38	3.17	87	40.0	2460	2591.2	9.46	9.21	557	470	36.8	45.6	406	33399	31.0	6.4	2321	1650	.30	1.78	1.78	3.22	9.46	8.70
420	0105	2597.8	3.75	2.53	3.34	88	41.0	2460	2591.5	9.43	9.23	557	484	36.9	45.6	405	33797	31.3	6.5	1396	1646	.31	1.73	1.73	3.22	9.46	8.70
421	0109	2598.1	4.56	2.66	3.20	87	40.5	2460	2591.8	9.43	9.25	557	426	36.7	45.6	407	34168	31.6	6.5	1190	1641	.31	1.67	1.66	3.22	9.47	8.70
422	0113	2598.4	4.37	2.50	3.49	87	40.1	2460	2592.1	9.43	9.25	558	491	36.7	45.6	406	34511	31.9	6.6	1138	1636	.31	1.67	1.67	3.23	9.47	8.70
423	0121	2598.7	4.43	2.88	3.71	83	40.9	2490	2592.5	9.26	9.24	556	484	36.8	45.4	417	34736	32.2	6.7	1094	1627	.32	1.67	1.67	3.22	9.48	8.70
424	0125	2599.0	4.34	2.58	3.58	78	41.0	2510	2592.7	9.22	9.19	562	472	38.1	45.5	410	35079	32.5	6.7	5025	1625	.32	1.65	1.65	3.23	9.49	8.70
425	0130	2599.3	3.68	2.42	3.32	86	41.6	2500	2593.1	9.22	9.16	562	477	37.8	45.1	394	35496	32.8	6.8	1323	1620	.32	1.73	1.73	3.23	9.49	8.70

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Data Recorded at time 01:35 Date Oct 3 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NX	NXB	ECD	EST F4 PR
426	0135	2599.7	3.77	2.40	3.18	86	41.2	2500	2593.5	9.20	9.20	562	507	36.6	45.2	399	35953	33.1	6.9	1481	1620	.33	1.72	1.72	3.23	9.49	8.70
427	0139	2599.9	4.56	2.38	3.34	86	40.4	2500	2593.7	9.19	9.16	561	452	36.5	45.5	408	36249	33.5	7.0	1010	1613	.33	1.66	1.65	3.23	9.49	8.70
428	0144	2600.3	3.85	2.42	3.20	86	41.2	2500	2594.1	9.20	9.09	560	448	35.7	45.2	420	36671	33.7	7.0	1311	1611	.33	1.72	1.71	3.23	9.47	8.70
429	0149	2600.6	3.63	2.44	3.39	87	41.5	2500	2594.5	9.20	9.10	561	474	36.0	45.3	416	37103	34.1	7.1	1406	1609	.34	1.74	1.74	3.23	9.47	8.70
430	0153	2600.9	4.13	2.48	3.40	86	41.9	2480	2594.9	9.20	9.10	561	496	36.7	45.2	414	37474	34.4	7.2	1213	1604	.34	1.71	1.71	3.23	9.46	8.70
431	0158	2601.2	4.03	2.46	3.09	86	40.9	2480	2595.3	9.23	9.12	561	461	37.8	45.2	413	37873	34.6	7.3	1365	1603	.34	1.71	1.70	3.23	9.46	8.70
432	0204	2601.5	2.78	2.48	3.60	87	41.2	2480	2596.0	9.21	9.08	557	494	38.3	44.9	409	38436	35.0	7.4	2073	1605	.35	1.82	1.82	3.23	9.43	8.70
433	0208	2601.8	4.76	2.44	3.39	86	41.4	2480	2596.3	9.22	9.14	561	481	38.8	45.1	409	38766	35.3	7.4	1022	1599	.35	1.67	1.66	3.23	9.42	8.70
434	0213	2602.1	3.70	2.54	3.51	86	40.1	2490	2596.7	9.23	9.11	562	473	39.3	45.1	406	39185	35.6	7.5	1279	1596	.36	1.73	1.72	3.23	9.41	8.70
435	0218	2602.4	3.88	2.58	3.55	87	43.1	2480	2597.0	9.25	9.09	562	479	40.7	45.0	405	39591	35.9	7.6	1179	1593	.36	1.76	1.75	3.23	9.41	8.70
436	0222	2602.7	3.78	2.54	3.19	86	42.5	2480	2597.3	9.27	9.09	562	495	40.1	45.1	401	40006	36.2	7.7	1333	1591	.36	1.76	1.75	3.23	9.39	8.70
437	0228	2603.0	3.44	2.43	3.57	86	41.3	2500	2597.6	9.26	9.08	562	463	40.1	45.3	399	40466	36.5	7.8	1416	1590	.37	1.77	1.76	3.23	9.37	8.70
438	0233	2603.3	3.43	2.43	3.11	87	40.3	2490	2597.9	9.23	9.08	562	491	40.3	45.3	398	40923	36.8	7.9	1821	1590	.37	1.76	1.76	3.23	9.37	8.70
439	0238	2603.6	4.29	2.41	3.17	87	40.4	2480	2598.3	9.19	9.14	561	516	40.4	45.5	386	41324	37.1	7.9	1228	1586	.37	1.70	1.70	3.23	9.35	8.70
440	0244	2603.9	2.78	2.43	3.62	86	41.6	2470	2598.6	9.19	9.11	562	478	38.0	45.5	393	41838	37.4	8.0	2280	1586	.38	1.85	1.84	3.24	9.33	8.70
441	0248	2604.2	3.73	2.40	3.49	86	41.4	2480	2599.0	9.20	9.12	562	490	38.1	45.7	381	42260	37.7	8.1	1450	1585	.38	1.76	1.75	3.23	9.33	8.70
442	0253	2604.5	3.86	2.50	3.59	86	41.6	2480	2599.3	9.19	9.14	562	535	38.7	45.8	379	42656	38.0	8.2	1327	1582	.39	1.76	1.75	3.24	9.31	8.70
443	0258	2604.8	4.00	2.54	3.61	87	41.1	2480	2599.5	9.19	9.13	561	559	39.0	46.1	379	43060	38.3	8.3	1066	1580	.39	1.74	1.73	3.24	9.30	8.70
444	0308	2605.1	2.99	2.62	3.79	87	41.3	2300	2600.1	9.19	9.07	540	439	39.1	45.6	335	43629	38.6	8.4	1900	1582	.39	1.83	1.82	3.24	9.29	8.70
445	0313	2605.4	3.32	2.47	3.55	87	41.1	2400	2600.4	9.23	9.06	554	459	38.4	45.3	378	44074	38.9	8.5	1434	1580	.40	1.80	1.79	3.24	9.29	8.70
446	0318	2605.7	3.21	2.48	3.30	87	41.6	2430	2600.8	9.24	9.06	556	454	38.2	45.4	377	44566	39.3	8.6	1328	1580	.40	1.81	1.81	3.24	9.29	8.70
447	0330	2606.5	3.14	2.35	3.48	64	40.7	2470	2601.3	9.23	9.04	561	521	38.0	45.7	383	45389	39.8	8.7	1321	1576	.41	1.82	1.82	3.24	9.25	8.70
448	0342	2607.0	2.35	2.44	3.51	84	40.3	2480	2601.9	9.25	9.00	547	443	38.6	46.0	374	46458	40.5	8.9	2161	1577	.42	1.88	1.87	3.24	9.30	8.70
449	0348	2607.3	3.11	2.44	3.42	86	40.3	2490	2602.3	9.26	9.02	547	448	38.6	46.0	370	46962	40.8	9.0	1900	1579	.42	1.80	1.79	3.24	9.29	8.70
450	0353	2607.6	3.36	2.39	3.09	86	39.1	2490	2602.6	9.20	9.06	547	437	39.2	45.9	362	47430	41.1	9.1	1669	1579	.43	1.76	1.75	3.24	9.30	8.70
451	0358	2607.9	3.69	2.50	3.38	86	39.9	2490	2602.9	9.20	9.05	547	404	39.5	46.1	363	47840	41.4	9.2	1201	1575	.43	1.75	1.74	3.24	9.30	8.70
452	0410	2608.2	3.82	2.58	3.56	84	38.0	2480	2603.5	9.26	8.94	547	347	40.7	46.1	373	48297	41.7	9.3	1361	1575	.44	1.71	1.70	3.24	9.30	8.70
453	0416	2608.5	2.61	2.50	3.63	82	38.5	2480	2603.8	9.22	8.96	547	416	40.4	45.8	362	48794	42.0	9.4	2009	1575	.44	1.81	1.81	3.24	9.30	8.70
454	0422	2608.8	3.42	2.48	3.25	85	38.4	2480	2604.2	9.22	8.97	547	426	40.1	46.3	363	49303	42.3	9.5	1740	1576	.44	1.74	1.73	3.24	9.29	8.70
455	0430	2609.1	1.96	2.44	3.14	85	38.1	2480	2604.6	9.22	9.12	547	445	39.5	46.3	381	49997	42.6	9.6	2063	1583	.45	1.90	1.89	3.25	9.30	8.70
456	0435	2609.4	3.48	2.39	3.32	85	37.7	2480	2604.9	9.22	9.36	547	421	38.6	46.7	390	50444	42.9	9.7	1505	1579	.45	1.73	1.72	3.24	9.30	8.70
457	0442	2609.7	2.64	2.43	3.35	85	39.9	2480	2605.2	9.22	9.37	547	393	37.9	46.4	410	51031	43.2	9.8	1916	1582	.46	1.84	1.83	3.25	9.30	8.70
458	0445	2610.0	6.39	2.58	3.33	85	44.3	2480	2605.3	9.21	9.37	547	418	37.8	46.2	414	51274	43.5	9.9	961	1577	.46	1.64	1.63	3.25	9.30	8.70
459	0450	2610.3	3.51	2.45	3.56	84	44.1	2470	2605.6	9.17	9.35	547	409	37.6	46.2	426	51707	43.8	10.0	1234	1575	.47	1.81	1.80	3.25	9.30	8.70
460	0456	2610.6	3.25	2.51	3.73	84	46.2	2470	2606.0	9.17	9.32	547	433	37.0	46.0	439	52178	44.1	10.1	1350	1575	.47	1.86	1.85	3.25	9.31	8.70
461	0504	2610.9	2.33	2.57	3.56	85	44.8	2460	2606.6	9.20	9.36	547	430	36.4	45.8	450	52835	44.4	10.2	1790	1579	.48	1.94	1.93	3.25	9.30	8.70
462	0509	2611.2	3.41	2.59	3.55	84	44.7	2460	2606.9	9.20	9.37	547	405	36.6	45.4	449	53288	44.7	10.3	1491	1578	.48	1.83	1.82	3.25	9.30	8.70
463	0514	2611.6	3.94	2.65	3.97	85	45.8	2440	2607.1	9.21	9.39	547	416	37.0	45.5	447	53713	45.0	10.4	1509	1577	.48	1.80	1.79	3.25	9.30	8.70
464	0520	2611.8	3.05	2.51	3.57	85	45.2	2440	2607.3	9.21	9.42	547	434	37.4	45.3	445	54173	45.3	10.5	1601	1576	.49	1.87	1.86	3.25	9.29	8.70
465	0524	2612.1	3.80	2.62	4.10	85	45.7	2430	2607.7	9.20	9.39	547	436	37.8	45.4	444	54580	45.7	10.5	1365	1574	.49	1.81	1.80	3.25	9.29	8.70
466	0530	2612.4	3.61	2.54	3.71	84	44.7	2440	2608.0	9.19	9.40	547	430	38.1	45.2	444	55003	46.0	10.6	1373	1573	.49	1.81	1.80	3.25	9.29	8.70
467	0535	2612.8	3.60	2.66	3.90	84	45.3	2440	2608.0	9.20	9.38	547	403	38.5	45.2	442	55459	46.3	10.7	1590	1573	.50	1.82	1.81	3.25	9.29	8.70
468	0540	2613.1	3.50	2.59	3.61	84	45.4	2440	2608.3	9.19	9.39	547	447	38.6	45.1	426	55894	46.6	10.8	1647	1572	.50	1.83	1.82	3.25	9.28	8.70
469	0543	2613.4	5.09	2.65	3.86	83	45.1	2440	2608.4	9.18	9.41	547	472	38.8	45.2	415	56173	46.9	10.9	-975	1568	.50	1.71	1.70	3.25	9.29	8.70
470	0544	2613.7	24.7	3.25	3.96	82	43.4	2440	2608.5	9.18	9.41	547	446	38.8	45.2	415	56237	47.2	10.9	232	1559	.50	1.22	1.21	3.25	9.29	8.70
471	0545	2614.0	19.3	2.99	4.32	82	42.7	2420	2608.6	9.18	9.41	547	443	38.8	45.2	415	56310	47.5	10.9	234	1551	.50	1.29	1.28	3.25	9.29	8.70
472	0546	2614.3	24.3	2.92	3.50	83	42.0	2430	2608.6	9.18	9.35	547	459	38.5	45.2	416	56373	47.8	10.9	199	1542	.51	1.21	1.20	3.25	9.29	8.70
473	0547	2614.6	22.8	2.75	3.37	84	42.4	2430	2608.6	9.18	9.35	547	473	38.5	45.2	416	56439	48.1	10.9	219	1534	.51	1.24	1.23	3.26	9.29	8.70
474	0552	2614.9	10.4	2.89	3.81	85	46.0	2410	2608.8	9.18	9.34	547	441	38.1	45.1	433	56595	48.4	10.9	573	1527	.51	1.51	1.50	3.25	9.29	8.70
475	0554	2615.2	9.46	2.88	4.26	86	46.4	2400	2608.9	9.18	9.30	547	440	37.7	45.1	434	56743	48.7	11.0	549	1522	.51	1.55	1.54	3.26	9.29	8.70

AMOCO AUST. Tilana No.1 329197 Data Received at time 23:30 Date Oct 9 Data Printed at time 05:55

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVI	DXC	MX	MXB	ECD	EST FM PR
476	0555	2615.5	10.7	2.63	3.72	87	43.1	2400	2609.0	9.18	9.30	547	450	37.7	45.1	436	56889	49.0	11.0	528	1515	.51	1.48	1.46	3.26	9.29	8.70
477	0553	2615.8	7.41	2.58	3.80	87	43.6	2410	2609.1	9.18	9.30	547	454	37.7	45.1	443	57100	49.3	11.0	669	1509	.51	1.59	1.58	3.26	9.29	8.70
478	0600	2616.1	7.94	2.77	3.81	86	43.7	2400	2609.2	9.19	9.32	547	448	37.0	45.2	450	57292	49.6	11.1	650	1503	.51	1.57	1.56	3.26	9.29	8.70
479	0602	2616.4	8.87	2.66	4.01	87	43.0	2390	2609.2	9.19	9.32	547	478	37.0	45.2	455	57470	49.9	11.1	545	1497	.51	1.53	1.52	3.26	9.29	8.70
480	0603	2616.7	13.6	2.68	3.15	87	42.6	2400	2609.3	9.19	9.29	547	447	36.4	45.0	455	57586	50.2	11.1	365	1491	.52	1.40	1.39	3.26	9.29	8.70
481	0605	2617.0	11.1	2.73	3.25	88	42.0	2400	2609.4	9.19	9.29	547	441	36.4	45.0	456	57728	50.5	11.2	405	1485	.52	1.46	1.45	3.26	9.29	8.70
482	0608	2617.3	6.22	2.58	3.78	86	41.9	2360	2609.5	9.18	9.30	547	441	36.3	44.9	452	57932	50.8	11.2	1084	1481	.52	1.62	1.61	3.26	9.29	8.70
483	0614	2617.6	13.9	2.57	3.58	88	36.5	2310	2609.8	9.17	9.23	611	376	36.2	45.1	477	58120	51.1	11.2	367	1475	.52	1.34	1.32	3.26	9.29	8.70
484	0614	2617.9	13.6	2.62	4.17	87	40.3	2300	2609.8	9.17	9.28	611	431	36.2	45.1	478	58144	51.4	11.2	651	1468	.52	1.35	1.35	3.26	9.29	8.70
485	0615	2618.2	13.5	2.92	3.88	87	43.2	2310	2609.9	9.18	9.19	611	496	36.2	45.0	472	58249	51.7	11.3	331	1460	.52	1.41	1.40	3.26	9.29	8.70
486	0617	2618.5	9.32	2.83	4.34	87	41.8	2300	2610.0	9.18	9.19	611	482	36.2	45.0	464	58421	52.1	11.3	746	1454	.52	1.51	1.49	3.26	9.29	8.70
487	0619	2618.8	10.6	2.80	3.86	87	41.4	2300	2610.1	9.15	9.22	611	477	36.3	44.6	461	58569	52.4	11.3	468	1448	.52	1.46	1.45	3.26	9.29	8.70
488	0621	2619.1	11.0	2.79	3.96	87	41.9	2310	2610.2	9.15	9.22	611	472	36.3	44.6	458	58711	52.7	11.3	441	1442	.53	1.46	1.44	3.26	9.29	8.70
489	0623	2619.5	8.51	3.06	4.38	87	44.3	2300	2610.3	9.15	9.20	611	455	36.5	44.6	459	58896	53.0	11.4	630	1438	.53	1.56	1.55	3.26	9.29	8.70
490	0625	2619.8	7.87	2.77	4.32	87	45.1	2300	2610.5	9.15	9.20	611	426	36.5	44.6	455	59096	53.3	11.4	747	1434	.53	1.59	1.58	3.26	9.29	8.70
491	0627	2620.1	8.52	2.75	4.23	87	44.4	2310	2610.6	9.16	9.12	611	551	36.6	44.8	449	59231	53.6	11.5	539	1428	.53	1.56	1.55	3.27	9.29	8.70
492	0629	2620.4	15.1	2.80	3.94	87	43.2	2310	2610.6	9.16	9.12	611	510	36.6	44.8	438	59384	53.9	11.5	456	1423	.53	1.38	1.36	3.27	9.29	8.70
493	0631	2620.7	8.71	2.90	4.24	87	43.7	2300	2610.7	9.17	9.12	611	495	36.9	44.8	439	59564	54.2	11.5	486	1417	.53	1.55	1.53	3.27	9.29	8.70
494	0632	2621.0	11.0	2.86	4.17	86	43.4	2310	2610.8	9.17	9.12	608	552	36.9	44.8	439	59708	54.5	11.5	434	1412	.53	1.47	1.46	3.27	9.29	8.70
495	0633	2621.3	20.0	2.78	3.80	86	43.5	2310	2610.8	9.20	9.08	608	575	37.1	44.5	439	59787	54.8	11.6	255	1406	.54	1.30	1.23	3.27	9.29	8.70
496	0634	2621.6	17.5	2.91	4.04	87	42.3	2320	2610.9	9.20	9.08	608	561	37.1	44.5	438	59875	55.1	11.6	301	1400	.54	1.32	1.31	3.27	9.30	8.70
497	0636	2621.9	10.8	2.79	4.08	87	42.7	2310	2611.0	9.19	9.06	608	579	37.2	44.5	438	60020	55.4	11.6	537	1394	.54	1.47	1.46	3.27	9.29	8.70
498	0639	2622.2	5.31	2.69	4.21	87	42.9	2310	2611.2	9.19	9.07	609	547	37.5	44.5	454	60317	55.7	11.7	856	1392	.54	1.63	1.67	3.27	9.29	8.70
499	0642	2622.5	7.40	2.89	4.29	87	43.9	2320	2611.4	9.21	9.06	608	615	37.6	44.6	477	60540	56.0	11.7	752	1388	.54	1.60	1.58	3.27	9.29	8.70
500	0645	2622.8	5.20	2.69	4.37	87	44.6	2320	2611.6	9.20	9.05	608	519	37.5	44.3	463	60811	56.3	11.7	1116	1385	.54	1.71	1.70	3.27	9.29	8.70
501	0647	2623.1	10.7	2.51	4.09	86	42.7	2320	2611.7	9.20	9.05	608	607	37.5	44.3	470	60958	56.6	11.8	583	1380	.55	1.47	1.46	3.27	9.29	8.70
+ Circulate bottoms up.																											
503	0824	2623.4	2.99	2.81	4.21	89	42.9	2760	2623.2	9.19	9.05	605	414	40.9	48.9	459	61499	56.9	11.9	733	1382	.55	1.87	1.86	3.27	9.22	8.70
504	0827	2623.7	6.38	2.80	3.73	89	43.9	2770	2623.2	9.18	9.08	605	411	40.8	48.4	454	61756	57.2	11.9	743	1378	.55	1.66	1.65	3.27	9.22	8.70
505	0829	2624.0	10.2	2.80	3.88	91	43.2	2760	2623.2	9.18	9.08	605	533	40.8	48.4	451	61919	57.5	12.0	491	1374	.55	1.52	1.50	3.27	9.22	8.70
506	0831	2624.3	6.79	2.87	4.30	89	44.5	2770	2623.2	9.16	9.06	605	555	40.7	48.1	450	62153	57.8	12.0	765	1370	.56	1.65	1.63	3.27	9.22	8.70
507	0834	2624.6	5.98	2.89	3.73	90	44.6	2770	2623.2	9.16	9.05	605	471	40.6	47.8	451	62431	58.1	12.1	803	1368	.56	1.69	1.67	3.27	9.23	8.70
508	0837	2624.9	8.64	2.74	3.62	90	43.6	2310	2623.2	9.16	9.04	606	538	40.6	47.7	449	62616	58.5	12.1	577	1364	.56	1.57	1.55	3.27	9.23	8.70
509	0839	2625.2	6.39	2.81	4.11	87	43.7	2310	2623.2	9.14	9.02	611	585	40.6	47.4	449	62864	58.8	12.1	670	1361	.56	1.65	1.63	3.27	9.23	8.70
510	0842	2625.5	6.21	2.64	3.99	87	44.3	2320	2623.2	9.16	9.05	611	542	40.7	47.3	453	63120	59.0	12.2	817	1358	.56	1.66	1.65	3.28	9.23	8.70
511	0845	2625.9	6.55	2.62	3.85	87	44.4	2310	2623.2	9.16	9.05	610	527	40.7	47.3	460	63360	59.4	12.2	775	1355	.57	1.65	1.63	3.28	9.23	8.70
512	0848	2626.2	6.55	2.79	4.10	88	44.6	2310	2623.2	9.16	9.01	611	623	40.6	47.3	467	63602	59.7	12.3	800	1352	.57	1.65	1.64	3.28	9.24	8.70
513	0851	2626.5	5.94	2.85	3.68	90	44.2	2320	2623.2	9.16	9.03	611	598	40.2	47.1	474	63879	60.0	12.3	816	1350	.57	1.69	1.67	3.28	9.24	8.70
514	0855	2627.5	6.17	2.89	3.87	90	44.9	2350	2623.2	9.15	8.98	616	0	39.3	46.5	493	64135	61.0	12.4	806	1330	.57	1.69	1.68	3.28	9.18	8.70
515	0902	2628.0	5.44	2.87	4.14	88	43.4	2370	2623.2	9.14	8.99	616	635	38.7	46.5	489	64525	61.5	12.4	825	1326	.58	1.70	1.70	3.28	9.25	8.70
516	0906	2628.3	5.15	3.02	3.71	89	44.3	2370	2623.2	9.12	9.00	616	513	38.6	46.1	484	64868	61.8	12.5	918	1325	.58	1.72	1.71	3.28	9.25	8.70
517	0910	2628.6	4.37	2.85	3.95	88	44.0	2370	2623.2	9.14	9.00	617	574	38.5	46.0	483	65203	62.1	12.6	1003	1323	.58	1.77	1.75	3.28	9.25	8.70
518	0913	2628.9	5.78	3.02	3.80	88	44.1	2370	2623.2	9.13	9.01	618	663	38.6	46.1	481	65482	62.4	12.6	918	1321	.59	1.68	1.67	3.28	9.26	8.70
519	0916	2629.2	6.39	2.98	3.59	89	43.8	2370	2623.2	9.13	9.03	617	514	38.8	46.0	480	65757	62.7	12.7	856	1319	.59	1.65	1.64	3.28	9.26	8.70
520	0919	2629.5	5.20	2.78	3.84	89	45.3	2360	2623.2	9.13	9.03	617	661	38.9	46.0	479	66042	63.0	12.7	1083	1316	.59	1.73	1.72	3.28	9.26	8.70
521	0922	2629.8	5.72	2.82	3.55	88	46.0	2360	2623.2	9.12	9.04	617	589	39.0	46.0	477	66324	63.3	12.8	908	1314	.59	1.71	1.69	3.28	9.26	8.70
522	0925	2630.1	6.51	2.69	3.65	88	44.0	2360	2623.2	9.13	9.04	618	724	38.8	45.9	476	66570	63.6	12.8	746	1312	.59	1.64	1.63	3.28	9.26	8.70
523	0930	2630.4	3.36	2.93	3.65	88	43.9	2360	2623.2	9.12	9.05	618	620	38.9	45.9	474	66934	63.9	12.9	1040	1312	.60	1.80	1.78	3.28	9.26	8.70
524	0934	2630.7	4.67	2.86	3.64	89	43.2	2360	2623.2	9.11	9.05	619	653	39.0	45.9	473	67331	64.2	13.0	1071	1310	.60	1.74	1.72	3.29	9.26	8.70
525	0938	2631.1	4.44	2.65	3.64	99	43.8	2370	2623.2	9.12	9.04	619	485	39.1	45.7	472	67720	64.5	13.1	1217	1310	.60	1.76	1.75	3.29	9.26	8.70

AMOCO AUST. Tilana No.1 329198

Data Printed at time 22:24 Date Oct 9 '85
Data Recorded at time 09:42 Date Oct 3 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST F4 PR	
526	0942	2631.3	4.07	2.75	3.53	89	43.6	2360	2623.2	9.13	9.03	618	593	39.1	45.7	471	68391	64.9	13.1	1266	1309	.61	1.79	1.77	3.29	9.25	8.70	D
527	0945	2631.6	6.07	2.65	3.66	87	43.3	2360	2623.3	9.14	9.04	618	655	39.1	45.7	471	68352	65.2	13.2	798	1307	.61	1.66	1.64	3.29	9.25	8.70	D
528	0948	2632.0	6.25	2.60	3.94	87	42.8	2360	2623.8	9.13	9.05	618	510	39.1	45.8	469	68617	65.4	13.2	672	1305	.61	1.64	1.63	3.29	9.25	8.70	D
529	0952	2632.3	4.77	2.65	4.24	88	44.6	2360	2624.4	9.13	9.05	619	680	39.2	45.6	468	68952	65.8	13.3	994	1304	.62	1.75	1.73	3.29	9.25	8.70	D
530	0956	2632.6	4.62	2.61	3.49	88	44.2	2360	2624.9	9.12	9.09	619	649	39.2	45.6	468	69249	66.1	13.3	1005	1302	.62	1.75	1.74	3.29	9.24	8.70	D
531	0959	2632.9	6.37	2.77	3.39	87	45.5	2360	2625.3	9.23	9.16	618	665	39.2	45.8	466	69498	66.4	13.4	763	1299	.62	1.67	1.65	3.29	9.24	8.70	D
532	1003	2633.2	4.20	2.53	4.11	87	44.5	2370	2625.9	9.32	9.24	619	708	39.2	45.7	465	69886	66.7	13.5	1038	1299	.62	1.78	1.77	3.29	9.24	8.70	D
533	1006	2633.5	5.73	2.77	4.09	88	44.4	2360	2626.3	9.31	9.25	618	643	39.2	45.8	463	70165	67.0	13.5	960	1298	.63	1.69	1.68	3.29	9.23	8.70	D
534	1010	2633.8	5.10	2.77	3.73	89	44.6	2360	2626.8	9.31	9.24	618	640	39.3	45.9	462	70482	67.3	13.6	1029	1296	.63	1.74	1.72	3.29	9.23	8.70	D
535	1013	2634.1	4.95	2.68	3.57	89	45.4	2370	2627.2	9.32	9.27	619	539	39.3	46.1	461	70809	67.6	13.6	1058	1295	.63	1.76	1.74	3.29	9.23	8.70	D
536	1017	2634.4	5.02	2.72	3.64	90	44.3	2360	2627.2	9.32	9.28	618	637	39.3	46.1	461	71132	67.9	13.7	1005	1293	.63	1.74	1.72	3.29	9.23	8.70	D
537	1021	2634.7	4.78	2.81	3.66	90	45.5	2370	2627.6	9.32	9.28	619	651	39.2	46.0	458	71473	68.2	13.8	1008	1292	.64	1.77	1.75	3.29	9.23	8.70	D
538	1024	2635.0	4.99	2.74	3.60	90	43.9	2390	2627.9	9.32	9.30	619	597	39.2	46.0	458	71798	68.5	13.8	1042	1291	.64	1.73	1.72	3.29	9.24	8.70	D
539	1028	2635.3	4.94	2.83	3.60	90	44.5	2380	2628.2	9.31	9.25	619	690	39.2	46.0	457	72125	68.8	13.9	938	1289	.64	1.74	1.73	3.29	9.24	8.70	D
540	1031	2635.6	6.40	2.80	3.51	90	44.2	2330	2628.5	9.32	9.24	618	639	39.1	45.9	456	72380	69.1	13.9	827	1288	.64	1.66	1.64	3.29	9.25	8.70	D
541	1034	2635.9	5.72	2.76	3.29	89	43.5	2380	2628.9	9.32	9.26	617	649	39.0	46.1	454	72663	69.4	14.0	872	1286	.65	1.68	1.67	3.29	9.25	8.70	D
542	1038	2636.2	4.89	2.77	3.46	89	44.4	2380	2629.2	9.32	9.29	618	573	39.1	45.9	453	72995	69.7	14.0	978	1284	.65	1.74	1.72	3.30	9.26	8.70	D
543	1041	2636.5	5.33	2.78	3.48	89	44.0	2380	2629.5	9.32	9.25	618	632	39.1	46.1	455	73274	70.0	14.1	880	1282	.65	1.71	1.69	3.30	9.27	8.70	D
544	1045	2637.2	5.63	2.74	3.41	90	43.5	20	2629.8	9.31	9.26	109	0	39.1	46.1	478	73486	70.7	14.1	973	1273	.65	1.70	1.68	3.30	9.22	8.70	D
545	1049	2637.4	36.4	2.56	2.81	87	41.7	2300	2629.9	9.33	9.24	635	533	38.9	45.9	496	73571	70.9	14.2	256	1270	.66	1.11	1.09	3.30	9.28	8.70	D
546	1051	2637.7	7.60	2.97	3.92	87	45.2	2330	2630.1	9.32	9.24	606	534	38.1	45.8	497	73773	71.2	14.2	774	1268	.66	1.61	1.59	3.30	9.29	8.70	D
547	1055	2638.0	4.90	2.85	3.47	88	45.1	2330	2630.4	9.32	9.27	607	627	37.5	45.7	505	74090	71.6	14.3	965	1266	.66	1.74	1.72	3.30	9.30	8.70	D
548	1058	2638.4	5.61	2.86	3.76	87	44.1	2300	2630.8	9.31	9.26	606	612	37.0	45.8	514	74378	71.8	14.3	1003	1265	.66	1.68	1.66	3.30	9.31	8.70	D
549	1101	2638.7	5.84	2.85	3.69	87	43.8	2320	2630.9	9.31	9.27	607	539	36.5	45.8	523	74646	72.2	14.4	833	1263	.66	1.66	1.65	3.30	9.31	8.70	D
550	1103	2639.0	13.4	2.86	4.72	87	43.8	2330	2631.0	9.31	9.27	607	499	36.5	45.8	527	74765	72.5	14.4	341	1259	.67	1.42	1.40	3.30	9.32	8.70	D
551	1105	2639.3	8.63	2.91	4.52	87	45.6	2330	2631.2	9.31	9.26	607	294	36.1	45.7	534	74931	72.8	14.4	510	1256	.67	1.56	1.55	3.30	9.33	8.70	D
552	1106	2639.6	13.2	2.95	4.28	87	44.4	2320	2631.3	9.31	9.26	607	349	36.1	45.7	537	75050	73.1	14.4	371	1252	.67	1.43	1.41	3.30	9.33	8.70	D
553	1107	2639.9	11.9	2.93	4.05	87	43.9	2320	2631.5	9.32	9.23	607	471	35.8	45.8	543	75185	73.4	14.5	324	1249	.67	1.45	1.43	3.30	9.33	8.70	D
554	1110	2640.2	6.97	2.86	4.42	87	44.3	2330	2631.7	9.32	9.23	607	497	35.8	45.8	553	75409	73.7	14.5	928	1247	.67	1.61	1.60	3.30	9.34	8.70	D
555	1112	2640.5	9.78	3.04	4.28	87	43.9	2320	2631.9	9.32	9.23	607	519	35.8	45.8	555	75571	74.0	14.5	525	1244	.67	1.51	1.49	3.30	9.34	8.70	D
556	1113	2640.8	11.9	2.81	3.67	87	42.1	2330	2632.1	9.32	9.23	607	414	35.8	45.8	561	75704	74.3	14.6	450	1240	.67	1.43	1.41	3.30	9.34	8.70	D
557	1116	2641.1	8.28	2.67	4.31	87	44.3	2330	2632.2	9.29	9.22	607	452	35.4	45.5	573	75910	74.6	14.6	842	1238	.68	1.56	1.54	3.30	9.35	8.70	D
558	1118	2641.4	6.91	2.83	3.86	88	42.5	2320	2632.5	9.27	9.26	607	563	35.2	45.3	574	76140	74.9	14.6	769	1236	.68	1.59	1.57	3.31	9.36	8.70	D
559	1121	2641.7	8.29	2.94	3.76	88	44.6	2330	2632.7	9.27	9.28	606	459	35.0	45.2	572	76331	75.2	14.7	613	1233	.68	1.56	1.54	3.31	9.36	8.70	D
560	1124	2642.0	5.24	2.67	3.80	88	44.9	2330	2633.0	9.24	9.32	607	493	35.1	45.1	572	76634	75.5	14.7	1365	1232	.68	1.70	1.68	3.31	9.37	8.70	D
561	1127	2642.3	4.94	2.80	3.91	88	42.5	2320	2633.3	9.27	9.33	607	471	35.2	45.1	573	76936	75.8	14.8	979	1231	.68	1.69	1.67	3.31	9.38	8.70	D
562	1130	2642.6	7.61	2.61	3.54	88	41.5	2320	2633.5	9.27	9.33	607	631	35.2	45.1	572	77149	76.1	14.8	696	1229	.69	1.55	1.53	3.31	9.38	8.70	D
563	1132	2642.9	9.57	2.76	3.46	89	40.6	2330	2633.7	9.28	9.30	608	453	35.4	44.9	573	77326	76.4	14.9	576	1226	.69	1.48	1.46	3.31	9.39	8.70	D
564	1133	2643.2	12.5	2.92	3.97	87	41.7	2320	2633.8	9.28	9.30	608	478	35.4	44.9	571	77452	76.7	14.9	422	1223	.69	1.41	1.39	3.31	9.39	8.70	D
565	1134	2643.5	14.3	2.75	4.10	87	40.3	2320	2633.9	9.28	9.34	607	605	35.7	45.0	570	77557	77.0	14.9	330	1219	.69	1.35	1.33	3.31	9.40	8.70	D
566	1135	2643.8	22.5	2.84	3.28	87	38.5	2330	2634.0	9.28	9.34	607	542	35.7	45.0	570	77629	77.3	14.9	233	1216	.69	1.20	1.18	3.31	9.40	8.70	D
567	1136	2644.1	20.1	2.87	3.87	87	38.1	2320	2634.1	9.28	9.34	608	518	35.7	45.0	569	77697	77.7	14.9	214	1212	.69	1.23	1.21	3.31	9.40	8.70	D
568	1138	2644.4	10.3	2.72	3.77	86	41.5	2320	2634.2	9.27	9.30	607	545	36.1	44.6	570	77849	78.0	15.0	473	1209	.69	1.45	1.44	3.31	9.41	8.70	D
569	1140	2644.8	10.9	2.66	3.58	88	39.8	2310	2634.4	9.27	9.30	607	542	36.1	44.6	569	77993	78.3	15.0	459	1206	.69	1.42	1.40	3.31	9.41	8.70	D
570	1141	2645.1	16.7	2.73	3.48	87	40.4	2310	2634.5	9.29	9.27	607	617	36.4	44.6	568	78090	78.6	15.0	439	1203	.69	1.31	1.29	3.31	9.41	8.70	D
571	1143	2645.4	6.68	2.79	3.81	88	42.7	2300	2634.7	9.29	9.27	608	557	36.4	44.6	563	78325	78.9	15.1	1185	1200	.70	1.59	1.58	3.31	9.41	8.70	D
572	1147	2645.7	5.41	2.58	3.79	87	42.7	2310	2635.0	9.29	9.32	607	679	36.6	44.6	568	78611	79.2	15.1	1641	1199	.70	1.65	1.64	3.31	9.42	8.70	D
573	1150	2646.0	5.10	2.73	3.68	87	41.1	2310	2635.3	9.30	9.37	607	626	37.1	44.7	564	78928	79.5	15.2	1108	1199	.70	1.65	1.63	3.31	9.41	8.70	D
574	1152	2646.3	8.25	2.77	4.29	87	41.2	2310	2635.5	9.30	9.37	607	622	37.1	44.7	563	79120	79.8	15.2	612	1196	.70	1.52	1.50	3.32	9.41	8.70	D
575	1153	2646.6	23.1	2.35	4.05	87	38.8	2310	2635.6	9.29	9.34	607	337	37.4	44.5	562	79188	80.1	15.2	275	1193	.70	1.20	1.18	3.31	9.41	8.70	D

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVI	DXC	NX	NXB	ECD	EST FM PR
576	1159	2646.9	35.6	2.76	3.81	87	36.8	2340	2635.9	9.29	9.34	589	435	37.4	44.5	579	79259	80.4	15.2	234	1190	.70	1.06	1.04	3.32	9.41	8.70
577	1200	2647.2	30.2	2.96	3.43	89	39.9	2330	2636.0	9.31	9.29	606	333	37.3	44.6	577	79311	80.7	15.3	146	1185	.70	1.14	1.12	3.32	9.41	8.70
578	1200	2647.5	24.8	2.97	3.49	88	40.4	2340	2636.0	9.31	9.29	610	328	37.8	44.6	574	79376	81.0	15.3	235	1182	.71	1.19	1.17	3.32	9.41	8.70
579	1201	2647.8	24.8	2.96	3.38	88	38.7	2340	2636.1	9.31	9.29	610	426	37.8	44.6	572	79441	81.3	15.3	213	1178	.71	1.18	1.16	3.32	9.41	8.70
580	1202	2648.1	23.8	3.02	3.65	88	40.0	2340	2636.2	9.31	9.29	611	432	37.8	44.6	570	79500	81.6	15.3	168	1174	.71	1.15	1.13	3.32	9.41	8.70
581	1202	2648.4	23.9	2.98	3.31	88	39.2	2340	2636.3	9.31	9.29	610	481	37.8	44.6	568	79560	81.9	15.3	180	1170	.71	1.19	1.17	3.32	9.41	8.70
582	1203	2648.7	29.8	3.05	3.48	87	40.6	2340	2636.3	9.30	9.23	611	481	38.1	44.4	565	79612	82.2	15.3	195	1167	.71	1.14	1.12	3.32	9.41	8.70
583	1203	2649.0	39.8	3.32	3.74	87	38.7	2330	2636.4	9.30	9.28	610	502	38.1	44.4	565	79651	82.5	15.3	124	1163	.71	1.04	1.02	3.32	9.41	8.70
584	1204	2649.3	23.8	3.00	4.00	87	39.2	2340	2636.5	9.30	9.28	610	494	38.1	44.4	563	79719	82.8	15.3	211	1160	.71	1.19	1.17	3.32	9.41	8.70
+ Flow check.																											
585	1209	2649.6	24.6	2.64	3.73	87	37.9	2340	2636.7	9.31	9.28	517	454	38.1	44.6	576	79785	83.1	15.3	210	1156	.71	1.17	1.15	3.32	9.40	8.70
587	1209	2650.0	34.3	2.98	3.30	87	36.9	2330	2636.7	9.31	9.28	589	463	38.1	44.6	574	79832	83.4	15.4	199	1153	.71	1.07	1.05	3.32	9.41	8.70
588	1210	2650.3	31.1	2.94	3.46	89	41.7	2330	2636.8	9.31	9.28	606	459	38.1	44.6	571	79882	83.8	15.4	148	1149	.71	1.14	1.12	3.32	9.42	8.70
589	1211	2650.5	16.2	2.93	4.22	86	41.2	2340	2636.8	9.31	9.28	610	446	38.1	44.6	568	79972	84.1	15.4	279	1145	.71	1.32	1.30	3.32	9.42	8.70
590	1213	2650.9	8.59	2.85	4.49	87	40.2	2320	2637.1	9.31	9.26	611	286	38.4	44.6	562	80164	84.4	15.4	500	1144	.71	1.49	1.47	3.32	9.42	8.70
591	1214	2651.2	35.1	3.28	3.72	86	38.0	2320	2637.1	9.31	9.26	611	326	38.4	44.6	561	80204	84.7	15.4	142	1140	.71	1.07	1.05	3.32	9.42	8.70
592	1215	2651.5	15.1	2.93	3.55	87	38.9	2330	2637.3	9.31	9.26	610	290	38.4	44.6	561	80301	85.0	15.4	312	1137	.71	1.32	1.30	3.32	9.42	8.70
593	1216	2651.8	17.0	3.34	3.67	87	39.0	2320	2637.4	9.34	9.27	609	477	38.4	44.3	562	80397	85.3	15.5	301	1134	.71	1.28	1.26	3.33	9.42	8.70
594	1216	2652.1	31.1	3.17	4.37	87	37.7	2330	2637.4	9.34	9.27	610	508	38.4	44.3	561	80446	85.6	15.5	169	1131	.71	1.10	1.08	3.32	9.42	8.70
595	1217	2652.4	32.5	3.21	4.13	87	39.8	2320	2637.5	9.34	9.27	610	596	38.4	44.3	560	80500	85.9	15.5	169	1128	.71	1.11	1.09	3.33	9.42	8.70
596	1217	2652.7	31.7	2.93	3.50	87	39.1	2330	2637.6	9.34	9.27	610	568	38.4	44.3	558	80543	86.2	15.5	135	1124	.71	1.11	1.09	3.33	9.42	8.70
597	1219	2653.0	12.9	3.02	4.12	87	33.5	2320	2637.7	9.31	9.29	610	579	38.4	44.7	558	80654	86.5	15.5	343	1121	.72	1.35	1.34	3.33	9.42	8.70
598	1219	2653.3	25.0	3.19	3.77	88	38.2	2320	2637.7	9.31	9.29	609	632	38.4	44.7	557	80717	86.8	15.5	197	1118	.72	1.17	1.15	3.33	9.42	8.70
599	1220	2653.6	30.4	2.99	3.40	87	38.8	2330	2637.8	9.31	9.29	609	628	38.4	44.7	557	80769	87.1	15.5	171	1115	.72	1.12	1.10	3.33	9.42	8.70
600	1221	2653.9	17.7	3.43	3.98	87	41.6	2320	2637.9	9.31	9.29	609	606	38.4	44.7	557	80856	87.4	15.6	265	1112	.72	1.30	1.28	3.33	9.42	8.70
601	1222	2654.2	15.1	3.24	4.09	88	41.3	2320	2638.0	9.31	9.26	609	599	38.3	44.7	555	80950	87.7	15.6	331	1109	.72	1.34	1.33	3.33	9.42	8.70
602	1224	2654.5	10.5	2.75	4.28	87	41.1	2320	2638.1	9.31	9.26	610	583	38.3	44.7	555	81110	88.0	15.6	501	1106	.72	1.44	1.42	3.33	9.43	8.70
603	1227	2654.8	5.52	2.92	3.75	88	40.3	2320	2638.6	9.31	9.30	609	637	38.4	44.8	553	81403	88.3	15.7	1163	1106	.72	1.62	1.60	3.33	9.42	8.70
604	1231	2655.1	4.43	2.80	3.78	88	40.1	2320	2639.3	9.30	9.36	610	652	38.4	45.1	552	81762	88.6	15.7	1076	1106	.73	1.68	1.66	3.33	9.42	8.70
605	1235	2655.4	4.81	2.84	3.91	86	40.5	2320	2640.0	9.31	9.30	610	633	38.4	45.2	549	82090	88.9	15.8	1076	1106	.73	1.66	1.64	3.33	9.42	8.70
606	1240	2655.7	4.16	2.67	3.85	86	40.6	2330	2640.6	9.32	9.25	610	617	38.4	45.3	546	82467	89.2	15.9	1110	1106	.73	1.70	1.68	3.33	9.42	8.70
607	1243	2656.0	5.25	2.82	3.84	87	40.3	2340	2641.1	9.30	9.14	611	511	38.4	45.5	544	82767	89.5	15.9	945	1105	.73	1.63	1.61	3.33	9.42	8.70
608	1255	2656.4	10.8	2.95	3.82	88	39.4	2790	2641.8	9.31	9.01	550	370	38.8	45.8	560	82963	89.8	16.0	679	1104	.74	1.42	1.40	3.33	9.41	8.70
609	1259	2656.7	4.02	2.84	3.79	87	39.1	2330	2642.2	9.32	9.05	609	570	39.0	45.7	546	83355	90.1	16.0	1585	1104	.74	1.70	1.68	3.33	9.41	8.70
610	1304	2657.0	4.11	2.87	4.00	87	40.6	2330	2642.9	9.31	9.11	610	531	38.7	45.7	540	83740	90.5	16.1	1219	1105	.74	1.71	1.69	3.33	9.41	8.70
611	1307	2657.2	4.76	2.85	3.39	87	42.7	2330	2643.8	9.31	9.11	611	564	38.7	45.7	538	84050	90.8	16.2	1107	1104	.75	1.69	1.67	3.34	9.41	8.70
612	1311	2657.6	4.43	2.93	3.83	87	41.7	2340	2644.7	9.33	9.05	610	611	38.7	45.9	538	84408	91.1	16.2	1039	1104	.75	1.70	1.68	3.34	9.41	8.70
613	1316	2657.9	4.17	2.66	3.76	87	40.9	2320	2645.3	9.32	9.02	611	623	38.8	46.1	537	84790	91.4	16.3	1138	1105	.75	1.71	1.69	3.34	9.41	8.70
614	1321	2658.2	3.17	2.92	3.79	87	40.4	2340	2645.8	9.31	9.06	610	609	38.7	46.1	537	85291	91.7	16.4	1653	1106	.76	1.78	1.76	3.34	9.41	8.70
615	1327	2658.5	3.71	2.78	4.02	87	40.5	2350	2646.8	9.29	9.05	610	586	38.4	46.4	532	85740	92.0	16.5	1692	1108	.76	1.74	1.72	3.34	9.41	8.70
616	1330	2658.8	4.86	3.01	3.88	86	40.1	2350	2648.1	9.29	9.04	611	646	38.4	46.4	528	86047	92.3	16.5	1042	1107	.76	1.65	1.63	3.34	9.41	8.70
617	1336	2659.1	3.04	2.81	3.74	88	41.0	2350	2650.3	9.28	9.21	610	624	38.3	46.1	528	86595	92.6	16.7	1598	1109	.77	1.80	1.78	3.34	9.40	8.70
618	1341	2659.4	3.44	2.84	3.65	88	41.9	2350	2651.7	9.27	9.23	611	642	38.3	46.1	525	87040	92.9	16.7	1469	1110	.77	1.78	1.76	3.34	9.40	8.70
619	1347	2659.7	3.45	2.72	3.50	88	41.0	2340	2653.6	9.28	9.30	610	635	38.5	46.0	524	87502	93.2	16.8	1426	1111	.77	1.77	1.75	3.34	9.40	8.70
620	1352	2660.0	3.68	2.83	3.93	87	41.2	2350	2654.5	9.28	9.26	610	664	38.5	46.0	522	87950	93.5	16.9	1183	1112	.78	1.75	1.73	3.34	9.39	8.70
621	1358	2660.3	3.14	2.84	3.78	87	40.8	2340	2654.9	9.28	9.28	610	692	38.7	46.2	519	88454	93.8	17.0	1739	1113	.78	1.79	1.77	3.34	9.39	8.70
622	1401	2660.6	4.88	2.79	3.74	87	40.8	2340	2655.2	9.26	9.24	610	711	38.6	46.1	517	88770	94.1	17.1	1010	1113	.79	1.67	1.64	3.34	9.39	8.70
623	1408	2660.9	2.70	2.89	3.93	87	40.7	2330	2655.7	9.25	9.19	610	617	38.8	46.2	512	89372	94.4	17.2	1927	1115	.79	1.83	1.81	3.34	9.39	8.70
624	1413	2661.2	3.60	2.85	3.91	87	41.0	2330	2655.9	9.26	9.19	609	628	38.9	46.2	511	89813	94.7	17.3	1537	1117	.79	1.76	1.74	3.34	9.38	8.70
625	1419	2661.5	3.14	2.82	3.72	88	40.8	2340	2656.4	9.31	9.21	610	435	38.9	46.2	513	90325	95.0	17.4	1945	1118	.80	1.80	1.78	3.34	9.38	8.7

AMOCO AUST. Tilana No.1 329200 Data Printed at time 22:32 Date Oct 9 '85
Data Recorded at time 14:23 Date Oct 3 '85 132

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR
626	1423	2661.8	4.14	2.68	3.72	87	40.8	2320	2656.7	9.30	9.18	610	534	39.0	46.3	513	90709	95.3	17.4	1350	1118	.30	1.71	1.69	3.34	9.38	8.70
627	1429	2662.1	3.29	2.70	3.58	88	41.3	2330	2657.0	9.29	9.17	610	543	39.0	46.1	510	91198	95.6	17.5	1574	1119	.31	1.79	1.77	3.35	9.37	8.70
628	1434	2662.4	3.46	2.75	3.88	88	41.1	2320	2657.4	9.29	9.20	609	628	39.1	46.3	503	91656	95.9	17.6	1366	1120	.31	1.77	1.75	3.34	9.37	8.70
629	1439	2662.7	3.62	2.70	3.63	88	40.6	2320	2657.8	9.29	9.19	611	619	39.1	46.3	506	92097	96.2	17.7	1338	1121	.31	1.75	1.73	3.35	9.37	8.70
630	1445	2663.0	3.02	2.79	3.83	89	41.3	2320	2658.2	9.29	9.20	611	599	39.2	46.5	504	92535	96.6	17.8	1518	1123	.32	1.82	1.80	3.35	9.37	8.70
631	1451	2663.3	3.20	2.78	3.91	88	41.4	2330	2658.5	9.29	9.22	612	584	39.2	46.4	502	93138	96.9	17.9	1592	1124	.32	1.80	1.78	3.35	9.36	8.70
632	1456	2663.6	3.71	2.69	3.64	88	41.5	2320	2658.8	9.28	9.15	611	603	39.1	46.4	500	93569	97.2	18.0	1500	1125	.33	1.76	1.74	3.35	9.36	8.70
633	1502	2664.0	2.95	2.80	3.48	88	41.5	2320	2659.2	9.28	9.23	612	621	39.0	46.6	497	94113	97.5	18.1	1479	1127	.33	1.83	1.81	3.35	9.36	8.70
634	1513	2664.3	2.95	2.68	3.58	87	40.0	2340	2659.6	9.22	9.19	614	710	38.9	46.7	492	94663	97.8	18.2	1670	1128	.34	1.81	1.78	3.35	9.36	8.70
635	1518	2664.6	3.61	2.77	3.76	88	40.6	2340	2660.0	9.22	9.14	615	666	39.2	46.6	483	95103	98.1	18.3	1331	1129	.34	1.76	1.73	3.35	9.36	8.70
636	1523	2664.9	3.55	2.58	3.65	88	40.5	2350	2660.3	9.29	9.15	615	692	40.0	46.6	486	95590	98.4	18.4	1597	1130	.34	1.76	1.74	3.35	9.36	8.70
637	1531	2665.2	2.37	2.90	3.84	86	40.6	2340	2660.8	9.27	9.19	615	710	40.2	46.6	491	96237	98.7	18.5	1822	1133	.35	1.87	1.85	3.35	9.36	8.70
638	1534	2665.5	5.07	2.80	3.72	88	40.9	2350	2660.9	9.25	9.20	615	735	40.2	46.8	483	96522	99.0	18.5	1003	1132	.35	1.66	1.64	3.35	9.36	8.70
639	1545	2665.8	4.34	2.56	3.53	90	37.9	2330	2661.3	9.25	9.17	612	461	40.4	46.7	494	96930	99.3	18.6	839	1133	.35	1.68	1.65	3.35	9.35	8.70
640	1551	2666.1	3.10	2.79	3.59	89	39.2	2330	2661.7	9.31	9.11	612	488	40.4	46.5	487	97456	99.6	18.7	1779	1134	.36	1.79	1.76	3.35	9.35	8.70
641	1556	2666.4	3.24	2.63	3.60	89	39.9	2330	2662.0	9.30	9.35	613	487	40.5	46.7	485	97969	99.9	18.8	1817	1136	.36	1.73	1.76	3.35	9.35	8.70
642	1602	2666.7	3.30	2.65	3.91	86	39.3	2340	2662.3	9.28	9.33	613	523	40.6	46.9	483	98444	100	18.9	1747	1137	.37	1.76	1.74	3.35	9.36	8.70
643	1609	2667.0	2.57	2.69	3.68	87	39.9	2330	2662.8	9.28	9.38	612	589	40.7	46.9	483	99047	101	19.0	1770	1139	.37	1.84	1.82	3.35	9.35	8.70
644	1612	2667.3	5.44	2.69	4.10	85	40.3	2330	2662.9	9.28	9.38	612	571	40.7	46.9	481	99343	101	19.1	1095	1139	.37	1.63	1.61	3.35	9.35	8.70
645	1613	2667.6	15.3	2.61	5.19	86	38.1	2340	2663.0	9.28	9.38	612	576	40.7	46.9	480	99445	101	19.1	408	1137	.38	1.31	1.29	3.36	9.35	8.70
646	1614	2667.9	23.4	2.67	3.11	87	37.4	2330	2663.0	9.28	9.33	612	478	40.7	46.9	481	99511	101	19.1	239	1134	.38	1.13	1.16	3.36	9.35	8.70
647	1615	2668.2	41.1	2.89	3.18	88	37.8	2330	2663.1	9.28	9.38	612	493	40.7	46.9	480	99549	102	19.1	119	1131	.38	1.03	1.01	3.36	9.36	8.70
648	1615	2668.5	35.1	2.99	3.60	87	37.4	2330	2663.1	9.30	9.38	611	548	40.8	46.8	481	99592	102	19.1	136	1128	.38	1.07	1.05	3.36	9.36	8.70
649	1616	2668.9	30.7	4.26	4.90	88	39.1	2330	2663.1	9.30	9.38	610	626	40.8	46.8	480	99648	102	19.1	163	1125	.38	1.13	1.10	3.36	9.36	8.70
650	1616	2669.1	23.8	4.68	5.21	86	39.4	2770	2663.2	9.30	9.38	606	599	40.8	46.8	478	99707	103	19.1	209	1122	.38	1.20	1.17	3.36	9.36	8.70
651	1622	2669.5	19.5	4.15	5.59	87	35.8	2380	2663.3	9.28	9.38	596	557	40.9	47.0	494	99795	103	19.2	282	1119	.38	1.22	1.20	3.36	9.36	8.70
652	1623	2669.8	31.2	4.31	4.70	87	38.2	2870	2663.3	9.28	9.38	610	579	40.9	47.0	493	99836	103	19.2	125	1117	.38	1.11	1.09	3.36	9.36	8.70
653	1623	2670.1	38.2	4.47	4.79	89	36.3	2370	2663.3	9.28	9.38	613	586	40.9	47.0	489	99874	104	19.2	120	1113	.38	1.04	1.02	3.36	9.36	8.70
654	1624	2670.4	24.7	4.31	4.82	89	37.0	2380	2663.4	9.28	9.38	615	524	40.9	47.0	485	99935	104	19.2	135	1111	.38	1.17	1.15	3.36	9.36	8.70
655	1624	2670.7	25.3	4.25	4.80	88	38.6	2380	2663.4	9.28	9.38	615	541	40.9	47.0	483	99994	104	19.2	184	1108	.38	1.18	1.15	3.36	9.37	8.70
656	1625	2671.0	23.9	4.19	4.47	87	37.7	2380	2663.5	9.25	9.35	615	519	41.1	46.9	481	100064	104	19.2	228	1106	.38	1.18	1.16	3.36	9.37	8.70
657	1626	2671.3	26.0	4.23	4.59	88	37.3	2380	2663.5	9.25	9.35	616	612	41.1	46.9	480	100121	105	19.2	173	1103	.38	1.16	1.13	3.36	9.37	8.70
658	1627	2671.6	19.9	4.10	4.37	89	39.1	2380	2663.5	9.25	9.35	616	668	41.1	46.9	478	100202	105	19.2	282	1101	.38	1.25	1.23	3.36	9.37	8.70
659	1628	2671.9	18.1	4.17	4.57	88	38.5	2390	2663.6	9.25	9.35	616	693	41.1	46.9	476	100279	105	19.2	241	1098	.38	1.27	1.25	3.36	9.37	8.70
660	1628	2672.2	22.9	4.51	5.03	88	38.2	2380	2663.6	9.25	9.35	615	687	41.1	46.9	475	100351	106	19.3	227	1095	.38	1.20	1.18	3.36	9.37	8.70
661	1629	2672.5	21.3	4.29	4.59	88	37.1	2380	2663.6	9.24	9.36	615	649	41.1	46.7	474	100421	106	19.3	229	1093	.38	1.21	1.19	3.37	9.37	8.70
662	1630	2672.8	20.2	4.07	4.33	88	38.3	2380	2663.7	9.24	9.36	615	630	41.1	46.7	472	100499	106	19.3	240	1090	.38	1.24	1.21	3.36	9.37	8.70
663	1632	2673.1	11.7	3.98	4.36	88	40.1	2380	2663.8	9.24	9.36	616	690	41.1	46.7	471	100533	107	19.3	464	1088	.39	1.41	1.39	3.37	9.37	8.70
664	1633	2673.4	11.4	3.67	3.96	86	40.0	2390	2663.9	9.23	9.38	616	673	41.1	46.9	473	100771	107	19.3	442	1087	.39	1.41	1.39	3.37	9.37	8.70
665	1635	2673.7	10.8	3.49	3.92	87	40.5	2390	2664.0	9.23	9.38	616	652	41.1	46.9	471	100922	107	19.4	543	1085	.39	1.44	1.41	3.37	9.38	8.70
666	1636	2674.0	11.8	3.58	3.91	87	39.7	2390	2664.0	9.24	9.42	616	584	41.2	46.9	471	101055	108	19.4	420	1083	.39	1.40	1.38	3.37	9.38	8.70
667	1637	2674.3	18.4	3.60	3.94	87	40.6	2380	2664.0	9.24	9.42	615	597	41.2	46.9	470	101139	108	19.4	268	1081	.39	1.28	1.26	3.37	9.38	8.70
668	1639	2674.6	11.4	3.74	4.02	87	40.0	2390	2664.0	9.28	9.45	615	551	41.2	47.0	469	101278	108	19.4	477	1079	.39	1.41	1.39	3.37	9.38	8.70
669	1640	2674.9	14.6	3.67	4.11	87	39.6	2360	2664.1	9.28	9.45	615	627	41.2	47.0	471	101385	108	19.5	350	1077	.39	1.34	1.31	3.37	9.38	8.70
670	1645	2675.2	62.7	2.60	3.87	88	28.6	2370	2664.2	9.25	9.45	577	453	41.4	46.9	485	101423	109	19.5	108	1074	.39	.84	.82	3.37	9.37	8.70
671	1646	2675.5	25.4	2.89	3.44	88	37.8	2370	2664.3	9.25	9.45	608	527	41.4	46.9	484	101488	109	19.5	179	1072	.39	1.17	1.14	3.37	9.38	8.70
672	1647	2675.8	27.4	3.25	4.15	88	37.1	2360	2664.3	9.25	9.45	612	523	41.4	46.9	478	101545	109	19.5	176	1069	.39	1.14	1.12	3.37	9.38	8.70
673	1648	2676.2	23.8	3.95	4.41	89	38.0	2350	2664.4	9.25	9.45	587	369	41.4	46.9	478	101615	110	19.5	214	1067	.39	1.19	1.17	3.37	9.38	8.70
674	1648	2676.5	26.8	4.04	4.36	91	39.2	2360	2664.4	9.28	9.40	603	429	41.6	46.8	473	101673	110	19.5	179	1064	.39	1.17	1.15	3.37	9.38	8.70
675	1649	2676.8	19.9	3.97	4.41	90	40.2	2360	2664.5	9.28	9.40	611	367	41.6	46.8	472	101755	110	19.5	260	1062	.39	1.26	1.24	3.37	9.39	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	MX	MXB	ECD	EST FM PR
676	1650	2677.1	21.6	4.03	4.73	83	33.9	2360	2664.5	9.28	9.40	611	441	41.6	46.8	470	101826	111	19.5	216	1063	.93	1.22	1.20	3.37	9.39	8.70
677	1651	2677.4	21.4	4.03	4.43	83	33.3	2350	2664.6	9.28	9.40	611	507	41.6	46.8	467	101903	111	19.6	226	1057	.93	1.22	1.19	3.37	9.39	8.70
678	1652	2677.7	15.9	4.03	4.35	89	39.1	2360	2664.6	9.28	9.40	611	513	41.6	46.8	469	102001	111	19.6	365	1056	.93	1.32	1.29	3.37	9.39	8.70
679	1653	2678.0	14.1	3.98	4.51	83	40.4	2360	2664.7	9.28	9.40	611	538	41.6	46.8	469	102104	111	19.6	306	1054	.93	1.36	1.34	3.38	9.39	8.70
680	1654	2678.3	26.3	3.91	4.39	89	40.4	2360	2664.7	9.28	9.40	611	617	41.6	46.8	466	102165	112	19.6	177	1051	.93	1.18	1.16	3.38	9.39	8.70
+ Circulate returns at 2678.5m.																											
682	1808	2679.0	9.52	2.79	3.83	89	41.3	2320	2671.6	9.29	9.20	611	631	43.9	51.0	460	102240	113	19.6	495	1050	.93	1.49	1.47	3.35	9.37	8.70
683	1812	2679.5	7.33	2.78	3.91	83	41.4	2330	2671.9	9.29	9.22	612	608	44.0	50.8	458	102743	113	19.7	746	1048	.93	1.56	1.54	3.35	9.36	8.70
684	1819	2680.0	5.45	2.69	3.64	83	41.5	2320	2672.2	9.28	9.15	611	621	44.4	50.5	456	103174	114	19.8	906	1047	.91	1.65	1.63	3.35	9.36	8.70
685	1822	2680.5	6.83	2.80	3.48	93	41.5	2320	2672.6	9.28	9.23	612	643	44.2	50.3	453	103718	114	19.9	752	1047	.91	1.58	1.56	3.35	9.36	8.70
686	1827	2681.0	5.78	2.68	3.58	87	41.6	2340	2673.0	9.22	9.19	614	729	43.7	50.0	448	104268	115	20.0	871	1045	.92	1.61	1.59	3.35	9.36	8.70
687	1834	2681.5	4.88	2.77	3.76	83	40.6	2340	2673.4	9.22	9.14	615	682	43.4	49.7	436	104713	115	20.1	1140	1044	.92	1.67	1.65	3.35	9.36	8.70
688	1838	2682.0	4.76	2.58	3.65	88	40.5	2350	2673.7	9.29	9.15	615	707	43.5	49.7	442	105195	116	20.2	1117	1045	.92	1.68	1.65	3.35	9.36	8.70
689	1846	2682.5	2.83	2.90	3.84	86	40.6	2340	2674.2	9.27	9.19	615	720	43.7	49.5	447	105812	116	20.3	1522	1045	.93	1.82	1.80	3.35	9.36	8.70
690	1852	2683.0	3.54	2.80	3.72	88	40.9	2350	2674.3	9.25	9.20	615	747	44.1	49.5	444	106127	117	20.3	1233	1046	.93	1.77	1.74	3.35	9.36	8.70
691	1902	2683.5	3.75	2.56	3.53	90	39.6	2330	2674.7	9.25	9.17	612	474	44.2	49.4	450	106535	117	20.4	1596	1048	.93	1.72	1.69	3.35	9.35	8.70
692	1921	2684.0	3.81	2.79	3.59	89	40.9	2330	2675.1	9.31	9.11	612	500	44.7	49.2	443	107061	118	20.5	1051	1293	.94	1.73	1.71	3.35	9.35	8.70
693	1932	2684.5	1.82	2.63	3.60	89	41.8	2330	2675.4	9.30	9.35	613	493	44.2	48.9	441	107574	118	20.6	2817	1055	.94	1.95	1.92	3.35	9.35	8.70
694	1939	2685.0	4.57	2.65	3.91	86	40.9	2340	2675.7	9.28	9.38	613	538	43.8	48.5	439	108049	119	20.7	988	1055	.95	1.67	1.64	3.35	9.36	8.70
695	1947	2685.5	3.44	2.69	3.68	87	41.6	2330	2676.2	9.28	9.38	612	600	43.5	48.8	439	108652	119	20.8	2126	1055	.95	1.76	1.74	3.35	9.35	8.70
696	1953	2686.0	3.24	2.69	4.10	86	40.3	2330	2676.3	9.28	9.38	612	581	43.2	49.0	437	108948	120	20.9	1533	1056	.95	1.79	1.76	3.35	9.35	8.70
697	2004	2686.5	3.39	2.61	5.19	86	39.8	2340	2676.4	9.28	9.38	612	588	42.8	49.1	436	109050	120	20.9	1456	1058	.96	1.74	1.71	3.35	9.35	8.70
698	2020	2687.0	2.57	2.67	3.11	87	39.2	2330	2676.4	9.28	9.38	612	486	42.6	49.1	437	109116	121	20.9	1972	1064	.96	1.81	1.78	3.36	9.35	8.70
699	2026	2687.5	2.66	2.89	3.18	88	39.6	2330	2676.5	9.28	9.38	612	502	42.1	49.2	436	109154	121	20.9	1861	1066	.96	1.81	1.78	3.36	9.36	8.70
700	2041	2688.0	2.44	2.99	3.60	87	39.2	2330	2676.5	9.30	9.38	611	556	42.3	49.1	437	109197	122	20.9	2483	1070	.96	1.82	1.80	3.36	9.36	8.70
701	2051	2688.5	3.97	3.55	4.90	93	40.8	2330	2676.5	9.30	9.38	610	639	42.3	49.2	436	109253	122	20.9	1398	1072	.96	1.71	1.69	3.36	9.36	8.70
702	2100	2689.0	2.03	3.97	5.21	96	41.3	2770	2676.6	9.30	9.38	606	606	42.0	49.2	434	109312	123	20.9	2250	1075	.96	1.90	1.88	3.36	9.36	8.70
703	2111	2689.5	2.38	3.44	5.59	87	37.6	2380	2676.7	9.28	9.38	596	565	42.3	49.3	450	109400	123	21.0	1644	1077	.96	1.80	1.78	3.36	9.36	8.70
704	2117	2690.0	3.07	3.60	4.70	87	39.9	2370	2676.7	9.28	9.38	610	589	42.5	49.4	449	109441	124	21.0	1719	1079	.96	1.77	1.74	3.36	9.36	8.70
705	2130	2690.5	2.99	3.76	4.79	89	38.1	2370	2676.7	9.28	9.38	613	596	43.1	49.3	445	109479	124	21.0	1672	1082	.96	1.75	1.73	3.36	9.36	8.70
706	2139	2691.0	6.21	3.60	4.82	89	38.6	2380	2676.8	9.28	9.38	615	544	43.9	49.5	441	109540	125	21.0	816	1084	.96	1.56	1.54	3.36	9.36	8.70
707	2142	2691.5	11.7	3.53	4.80	83	40.0	2380	2676.8	9.28	9.38	615	580	43.9	49.5	439	109599	125	21.0	457	1082	.96	1.40	1.37	3.36	9.37	8.70
708	2150	2692.0	3.72	3.48	4.47	87	39.4	2380	2676.9	9.25	9.35	615	532	43.7	49.5	437	109669	126	21.0	1902	1082	.96	1.71	1.68	3.36	9.37	8.70
709	2157	2692.5	7.31	3.52	4.59	88	38.9	2380	2676.9	9.25	9.35	616	636	43.8	49.6	436	109726	126	21.0	747	1082	.96	1.51	1.49	3.36	9.37	8.70
710	2159	2693.0	11.4	3.38	4.37	89	40.6	2380	2676.9	9.25	9.35	616	705	43.9	49.7	434	109807	127	21.0	409	1083	.96	1.41	1.39	3.36	9.37	8.70
711	2205	2693.5	6.83	3.46	4.57	88	40.1	2390	2677.0	9.25	9.35	616	716	44.0	49.8	432	109884	127	21.0	731	1079	.96	1.55	1.52	3.36	9.37	8.70
712	2213	2694.0	8.44	3.80	5.03	88	39.7	2380	2677.0	9.25	9.35	615	715	43.9	49.7	431	109956	128	21.1	801	1074	.96	1.48	1.46	3.36	9.37	8.70
713	2219	2694.5	4.17	3.58	4.59	88	38.8	2380	2677.0	9.24	9.36	615	663	44.0	49.5	430	110026	128	21.1	1530	1074	.96	1.67	1.64	3.36	9.37	8.70
714	2227	2695.0	3.34	3.36	4.33	88	40.1	2380	2677.1	9.24	9.36	615	640	43.7	49.5	428	110104	129	21.1	2127	1074	.96	1.75	1.72	3.36	9.37	8.70
715	2234	2695.5	3.00	3.26	4.36	88	40.1	2380	2677.2	9.24	9.36	616	700	43.7	49.6	427	110238	129	21.1	6214	1075	.97	1.80	1.78	3.37	9.37	8.70
716	2346	2696.0	3.97	3.67	3.96	86	41.7	2390	2677.3	9.23	9.38	616	686	43.5	49.7	429	110376	130	21.1	1374	1079	.97	1.71	1.69	3.37	9.37	8.70
717	2255	2696.5	2.49	3.49	3.92	87	40.5	2390	2677.4	9.23	9.38	616	660	43.6	49.7	427	110527	130	21.2	1872	1080	.97	1.86	1.83	3.37	9.38	8.70
718	2259	2697.0	3.43	3.58	3.91	87	41.5	2390	2677.4	9.24	9.42	616	596	43.8	49.7	427	110650	131	21.2	1254	1082	.97	1.75	1.73	3.37	9.38	8.70
719	2309	2697.5	3.99	3.74	4.02	87	41.7	2390	2677.4	9.28	9.45	615	564	43.7	49.9	425	110833	131	21.2	1116	1079	.97	1.71	1.69	3.37	9.38	8.70
720	2321	2698.0	3.37	3.67	4.11	87	41.4	2360	2677.5	9.28	9.45	615	638	41.2	49.9	427	110990	132	21.3	1452	1077	.97	1.76	1.73	3.37	9.38	8.70
721	2326	2698.5	3.28	2.60	3.87	88	30.2	2370	2677.6	9.25	9.45	577	463	39.7	49.7	441	111033	132	21.3	1397	1087	.97	1.61	1.59	3.37	9.37	8.70
722	2337	2699.0	3.23	2.89	3.44	88	39.5	2370	2677.7	9.25	9.45	608	538	40.8	49.2	440	111093	133	21.3	1806	1088	.97	1.74	1.72	3.37	9.38	8.70
724	2358	2700.2	3.06	2.56	3.19	87	36.0	2370	2695.6	9.30	9.62	615	638	42.2	49.0	412	131955	134	25.3	1840	1092	1.14	1.74	1.70	3.42	9.37	8.70
	Date	Oct 4 '85																									
725	0003	2700.5	3.34	2.63	3.25	87	36.6	2360	2695.9	9.30	9.62	614	622	42.3	49.1	410	132400	134	25.4	1469	1092	1.15	1.72	1.69	3.42	9.37	8.70

AMOCO AUST. Tilana No.1 329202

Data Printed at time 22:40 Date Oct 9 '85
Data Recorded at time 00:10 Date Oct 4 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLO l/MIN IN	FLO l/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR
726	0010	2700.8	2.71	2.52	3.37	87	36.5	2350	2696.3	9.31	9.61	614	752	42.3	49.1	410	132986	134	25.5	1904	1094	1.15	1.78	1.75	3.42	9.37	8.70
727	0013	2701.1	5.69	2.46	3.85	87	36.0	2350	2696.4	9.34	9.61	614	772	42.4	49.2	438	133266	135	25.5	809	1094	1.15	1.56	1.53	3.42	9.37	8.70
728	0014	2701.5	16.8	2.42	3.23	87	35.1	2350	2696.5	9.35	9.61	614	770	42.6	49.2	439	133360	135	25.6	312	1092	1.15	1.25	1.22	3.42	9.37	8.70
729	0017	2701.7	5.15	2.61	3.37	87	36.4	2350	2696.6	9.35	9.61	614	635	42.6	49.2	408	133650	135	25.6	1082	1091	1.16	1.60	1.56	3.42	9.38	8.70
730	0023	2702.1	3.62	2.62	3.34	87	38.1	2350	2696.9	9.34	9.59	615	739	42.9	49.4	439	134088	136	25.7	1304	1092	1.16	1.72	1.68	3.42	9.38	8.70
731	0025	2702.4	6.82	2.47	3.50	87	36.8	2850	2697.1	9.34	9.58	614	740	43.1	49.4	408	134322	136	25.7	726	1091	1.16	1.52	1.49	3.42	9.38	8.70
732	0031	2702.7	2.93	2.39	3.11	87	37.0	2790	2697.4	9.33	9.57	609	725	43.2	49.5	412	134860	136	25.8	1723	1093	1.17	1.76	1.73	3.42	9.38	8.70
733	0047	2703.0	3.64	2.32	3.03	87	35.8	2910	2697.8	9.35	9.50	610	642	43.1	49.3	454	135012	136	25.9	1311	1092	1.17	1.73	1.69	3.42	9.38	8.70
734	0051	2703.3	4.02	2.58	3.29	87	39.5	2870	2698.1	9.28	9.59	614	822	42.5	49.2	449	135404	137	25.9	2207	1091	1.17	1.71	1.67	3.42	9.38	8.70
735	0055	2703.6	5.17	2.46	3.15	88	37.9	2880	2698.3	9.26	9.68	613	791	42.1	49.1	455	135715	137	26.0	962	1091	1.17	1.62	1.58	3.42	9.38	8.70
736	0059	2703.9	4.39	2.55	3.17	88	37.4	2830	2698.6	9.27	9.71	613	833	41.7	48.8	457	136079	137	26.1	1129	1091	1.18	1.65	1.62	3.43	9.38	8.70
737	0102	2704.2	5.49	2.53	3.46	87	37.1	2830	2698.8	9.26	9.75	613	770	41.4	49.4	464	136369	138	26.1	946	1091	1.18	1.58	1.55	3.43	9.39	8.70
738	0106	2704.5	4.55	2.64	3.40	87	38.7	2890	2699.0	9.28	9.75	613	779	41.1	49.4	468	136719	138	26.2	1167	1091	1.18	1.66	1.63	3.43	9.39	8.70
739	0110	2704.8	4.59	2.55	3.44	88	37.3	2900	2699.2	9.30	9.73	614	804	40.8	49.6	473	137066	138	26.3	1067	1091	1.19	1.64	1.61	3.43	9.39	8.70
740	0116	2705.1	3.40	2.69	3.27	87	36.7	2890	2699.5	9.34	9.73	614	807	40.2	49.8	488	137566	139	26.4	1625	1092	1.19	1.71	1.68	3.43	9.39	8.70
741	0120	2705.4	4.08	2.63	3.27	87	37.4	2900	2699.8	9.33	9.72	612	788	40.2	49.6	435	137928	139	26.4	1203	1092	1.19	1.67	1.64	3.43	9.40	8.70
742	0125	2705.7	3.76	2.62	3.35	87	38.1	2880	2700.0	9.33	9.70	611	803	40.2	49.6	510	138351	139	26.5	1296	1093	1.20	1.70	1.67	3.43	9.40	8.70
743	0131	2706.0	3.24	2.56	3.30	87	37.5	2890	2700.3	9.33	9.76	610	817	40.0	49.4	518	138843	140	26.6	1629	1093	1.20	1.74	1.70	3.43	9.39	8.70
744	0134	2706.3	6.40	2.49	3.22	88	36.7	2860	2700.5	9.30	9.79	611	778	39.9	49.3	513	139093	140	26.6	752	1093	1.20	1.54	1.50	3.43	9.39	8.70
745	0136	2706.6	8.12	2.68	3.32	87	34.6	2830	2700.6	9.30	9.79	611	729	39.9	49.3	513	139298	140	26.7	539	1092	1.20	1.44	1.41	3.43	9.39	8.70
746	0136	2706.9	43.4	2.78	3.15	87	34.9	2890	2700.6	9.30	9.79	611	703	39.9	49.3	512	139334	140	26.7	148	1090	1.20	.99	.95	3.43	9.40	8.70
747	0137	2707.2	25.0	2.90	3.25	87	35.8	2930	2700.6	9.29	9.81	611	805	39.6	49.2	509	139394	141	26.7	176	1088	1.20	1.15	1.11	3.43	9.40	8.70
748	0143	2707.6	30.5	2.72	3.15	90	31.9	2840	2700.9	9.30	9.78	610	532	39.7	49.3	518	139450	141	26.7	197	1086	1.20	1.07	1.03	3.43	9.40	8.70
749	0143	2707.8	41.5	2.74	3.10	91	36.4	2840	2700.9	9.30	9.78	611	520	39.7	49.3	517	139485	141	26.7	109	1084	1.20	1.02	.99	3.43	9.40	8.70
750	0144	2708.2	33.8	2.76	3.07	89	35.4	2870	2701.0	9.30	9.78	604	579	39.7	49.3	516	139532	142	26.7	147	1082	1.20	1.07	1.03	3.43	9.40	8.70
751	0145	2708.5	16.0	2.60	3.24	89	35.6	2870	2701.2	9.30	9.78	606	615	39.7	49.3	514	139630	142	26.7	312	1080	1.21	1.27	1.24	3.43	9.40	8.70
752	0148	2708.8	5.85	2.59	3.31	90	36.7	2860	2701.5	9.28	9.82	606	656	39.9	49.1	508	139899	142	26.8	4305	1079	1.21	1.57	1.53	3.44	9.40	8.70
753	0153	2709.1	3.86	2.65	3.58	89	35.7	2860	2701.8	9.26	9.86	607	564	39.9	48.9	506	140328	143	26.9	2107	1080	1.21	1.67	1.63	3.44	9.40	8.70
754	0154	2709.4	24.2	2.80	3.34	88	34.7	2860	2701.9	9.26	9.84	607	508	40.2	48.8	506	140394	143	26.9	222	1078	1.21	1.15	1.12	3.44	9.40	8.70
755	0155	2709.7	18.5	2.76	3.19	90	33.7	2870	2702.0	9.26	9.84	607	628	40.2	48.8	505	140480	143	26.9	257	1076	1.21	1.21	1.18	3.44	9.41	8.70
756	0156	2710.0	11.2	2.47	3.21	89	34.7	2850	2702.1	9.26	9.84	606	566	40.2	48.8	505	140624	143	26.9	454	1075	1.21	1.36	1.33	3.44	9.41	8.70
757	0158	2710.3	9.39	2.52	3.15	89	35.3	2850	2702.3	9.25	9.85	606	586	40.4	49.0	502	140797	144	27.0	643	1074	1.22	1.42	1.38	3.44	9.41	8.70
758	0200	2710.6	8.10	2.52	3.16	89	36.0	2850	2702.4	9.25	9.85	606	513	40.4	49.0	501	140998	144	27.0	697	1073	1.22	1.47	1.43	3.44	9.41	8.70
759	0202	2710.9	14.9	2.72	3.27	90	35.6	2850	2702.5	9.28	9.84	606	532	40.6	48.8	501	141108	144	27.0	334	1071	1.22	1.29	1.26	3.44	9.41	8.70
760	0202	2711.2	28.0	2.63	3.29	89	33.5	2850	2702.5	9.28	9.84	606	447	40.6	48.8	501	141166	145	27.0	224	1070	1.22	1.10	1.07	3.44	9.41	8.70
761	0203	2711.5	28.7	2.87	3.20	89	33.8	2860	2702.6	9.28	9.84	606	502	40.6	48.8	501	141225	145	27.0	185	1068	1.22	1.09	1.06	3.44	9.41	8.70
762	0203	2711.8	31.4	2.81	3.17	89	34.8	2860	2702.6	9.28	9.84	607	438	40.6	48.8	500	141263	145	27.0	139	1066	1.22	1.08	1.04	3.44	9.41	8.70
763	0204	2712.1	28.5	2.77	3.16	90	35.2	2860	2702.6	9.23	9.84	606	388	40.6	48.8	501	141323	146	27.1	169	1064	1.22	1.11	1.08	3.44	9.42	8.70
764	0205	2712.4	17.9	2.85	3.35	89	36.6	2860	2702.6	9.30	9.82	606	291	41.0	48.9	500	141412	146	27.1	272	1062	1.22	1.25	1.22	3.44	9.42	8.70
+ Circulate 30min and run deviation survey.																											
766	0326	2712.7	30.6	2.62	3.04	91	27.6	2830	2704.7	9.26	9.82	557	595	42.2	50.9	486	141496	146	27.1	185	1061	1.22	1.03	.99	3.44	9.38	8.70
767	0326	2713.0	27.4	2.79	3.69	88	32.7	3050	2704.8	9.26	9.82	535	643	42.2	50.9	486	141529	147	27.1	341	1059	1.22	1.14	1.10	3.44	9.39	8.70
768	0327	2713.3	17.8	2.83	3.36	88	34.4	2830	2704.8	9.26	9.82	538	670	42.2	50.9	485	141567	147	27.1	627	1057	1.22	1.25	1.21	3.44	9.39	8.70
769	0328	2713.6	13.3	2.57	3.20	89	33.1	2870	2704.9	9.26	9.78	562	707	42.0	48.4	485	141684	147	27.1	446	1055	1.22	1.30	1.26	3.44	9.39	8.70
770	0331	2713.9	6.59	2.68	3.39	89	34.7	2850	2705.0	9.26	9.78	561	699	42.0	48.4	486	141917	147	27.2	815	1054	1.22	1.51	1.47	3.44	9.39	8.70
771	0332	2714.2	12.2	2.75	3.36	89	33.1	2850	2705.1	9.28	9.75	562	730	42.2	44.7	485	142051	148	27.2	416	1053	1.23	1.32	1.29	3.45	9.39	8.70
772	0335	2714.5	6.01	2.83	3.37	89	34.9	2890	2705.3	9.28	9.75	561	676	42.2	44.7	482	142320	148	27.2	739	1053	1.23	1.54	1.50	3.45	9.39	8.70
773	0338	2714.9	7.01	2.73	3.39	89	34.0	2910	2705.4	9.28	9.78	562	685	42.2	47.0	482	142551	148	27.3	666	1052	1.23	1.48	1.45	3.45	9.39	8.70
774	0341	2715.2	5.13	2.60	3.27	90	34.3	2860	2705.6	9.28	9.77	562	695	42.1	48.6	480	142868	149	27.3	960	1052	1.23	1.57	1.54	3.45	9.39	8.70
775	0344	2715.5	6.52	2.57	3.20	90	34.0	2870	2705.8	9.28	9.77	555	659	42.1	49.1	479	143122	149	27.4	727	1051	1.23	1.50	1.47	3.45	9.39	8.70

AMOCO AUST. Tilana No.1

329203

Data Printed at time 22:44 Date Oct 9
Data Recorded at time 03:47 Date Oct 4

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	JOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TV	DXC	NX	NXB	ECD	EST FM PR
776	0347	2715.8	6.75	2.61	3.20	90	33.0	2350	2705.9	9.28	9.77	564	634	42.1	49.1	477	143362	149	27.4	787	1051	1.24	1.43	1.45	3.45	9.39	8.70
777	0350	2716.1	6.75	2.54	3.32	89	33.4	2960	2706.1	9.28	9.82	564	620	41.1	49.4	475	143602	150	27.5	775	1050	1.24	1.49	1.45	3.45	9.39	8.70
778	0353	2716.4	5.97	2.47	3.40	89	32.8	2970	2706.5	9.28	9.80	565	690	40.7	49.4	475	143373	150	27.5	948	1050	1.24	1.51	1.48	3.45	9.39	8.70
779	0355	2716.7	5.96	2.64	3.45	89	33.3	2970	2707.1	9.28	9.80	565	626	40.7	49.4	474	144119	150	27.6	812	1049	1.24	1.52	1.48	3.45	9.39	8.70
780	0358	2717.0	7.05	2.47	3.21	90	34.6	2930	2707.7	9.28	9.80	566	664	40.6	49.6	473	144351	151	27.6	708	1048	1.24	1.49	1.46	3.45	9.39	8.70
781	0400	2717.3	7.78	2.56	3.18	89	33.9	2930	2708.3	9.28	9.80	566	690	40.3	49.6	472	144560	151	27.7	637	1047	1.25	1.46	1.42	3.45	9.39	8.70
782	0402	2717.6	12.7	2.71	3.21	90	34.3	2930	2708.4	9.28	9.80	566	686	40.3	49.6	471	144639	151	27.7	399	1046	1.25	1.33	1.29	3.45	9.38	8.70
783	0403	2717.9	12.0	2.60	3.73	90	33.0	2930	2708.6	9.28	9.80	566	676	40.3	49.6	471	144325	151	27.7	407	1045	1.25	1.33	1.29	3.45	9.38	8.70
784	0405	2718.2	10.2	2.49	3.18	90	33.0	2930	2708.8	9.29	9.79	566	688	39.9	49.9	471	144984	152	27.7	528	1044	1.25	1.37	1.34	3.45	9.38	8.70
785	0407	2718.5	9.02	2.68	3.45	90	33.3	2970	2708.9	9.29	9.79	565	722	39.9	49.9	469	145163	152	27.8	615	1043	1.25	1.41	1.37	3.45	9.38	8.70
786	0410	2718.8	7.25	2.76	3.51	90	34.0	2970	2709.3	9.29	9.79	565	724	39.6	50.0	469	145404	152	27.8	1094	1042	1.25	1.43	1.44	3.45	9.38	8.70
787	0412	2719.1	6.31	2.58	3.39	89	32.8	2970	2709.8	9.28	9.80	565	721	39.3	49.8	469	145644	153	27.9	864	1041	1.26	1.50	1.46	3.46	9.38	8.70
788	0415	2719.4	6.35	2.63	3.26	89	33.8	2960	2710.2	9.28	9.80	565	741	39.3	49.8	471	145899	153	27.9	792	1041	1.26	1.51	1.48	3.46	9.38	8.70
789	0417	2719.7	8.02	2.47	3.16	89	33.2	2970	2710.7	9.32	9.82	564	705	38.9	49.8	470	146101	153	27.9	618	1040	1.26	1.44	1.40	3.46	9.37	8.70
790	0421	2720.0	5.36	2.47	3.12	90	32.4	2960	2711.6	9.34	9.84	565	719	38.2	50.0	470	146407	154	28.0	863	1040	1.26	1.54	1.51	3.46	9.37	8.70
791	0423	2720.4	7.89	2.56	3.23	90	35.2	2970	2712.5	9.34	9.84	564	727	38.2	50.0	471	146625	154	28.0	638	1039	1.26	1.47	1.44	3.46	9.37	8.70
792	0426	2720.6	6.92	2.52	3.36	89	34.7	2930	2712.5	9.33	9.84	566	690	36.8	50.0	469	146848	154	28.1	664	1038	1.26	1.50	1.46	3.46	9.37	8.70
793	0427	2721.0	10.9	2.57	3.33	89	35.0	2990	2712.5	9.33	9.84	566	700	36.8	50.0	468	146996	154	28.1	428	1037	1.27	1.38	1.34	3.46	9.37	8.70
794	0430	2721.3	6.37	2.51	3.26	90	36.2	2990	2712.5	9.32	9.84	564	626	35.5	50.1	464	147250	155	28.2	695	1037	1.27	1.55	1.51	3.46	9.34	8.70
795	0433	2721.6	6.58	2.66	3.21	91	35.3	2930	2712.5	9.32	9.84	567	636	35.5	50.1	464	147501	155	28.2	768	1036	1.27	1.53	1.50	3.46	9.31	8.70
796	0441	2721.9	6.15	2.56	3.23	90	33.9	2320	2712.5	9.33	9.78	613	419	37.5	49.6	481	147596	155	28.2	814	1035	1.27	1.57	1.53	3.46	9.37	8.70
797	0444	2722.2	5.71	2.67	3.37	88	37.0	2370	2712.5	9.33	9.78	611	716	37.5	49.6	465	147870	156	28.3	3092	1034	1.27	1.58	1.54	3.46	9.37	8.70
798	0447	2722.5	6.67	2.48	3.27	88	37.0	2380	2712.5	9.30	9.89	611	782	39.3	49.7	457	148105	156	28.3	735	1034	1.28	1.53	1.50	3.46	9.37	8.70
799	0450	2722.8	5.15	2.53	3.40	88	36.8	2860	2712.5	9.25	9.92	611	754	37.9	49.5	452	148415	156	28.4	1066	1034	1.28	1.60	1.57	3.46	9.38	8.70
800	0453	2723.1	7.03	2.56	3.31	88	35.9	2380	2712.5	9.27	9.95	611	765	37.1	49.9	452	148645	157	28.4	756	1033	1.28	1.51	1.47	3.46	9.38	8.70
801	0456	2723.4	6.71	2.65	3.23	87	35.9	2380	2712.5	9.28	9.98	611	741	36.2	49.9	450	148880	157	28.5	726	1032	1.28	1.52	1.48	3.46	9.38	8.70
802	0459	2723.7	5.01	2.41	3.21	88	35.2	2870	2712.6	9.28	9.97	612	729	35.5	50.2	449	149199	157	28.5	956	1032	1.28	1.59	1.55	3.46	9.39	8.70
803	0504	2724.0	3.90	2.55	3.39	88	36.2	2360	2713.5	9.28	9.77	613	692	35.4	50.1	449	149610	158	28.6	1291	1033	1.29	1.67	1.64	3.47	9.39	8.70
804	0511	2724.3	2.67	2.70	3.40	88	37.3	2380	2714.5	9.29	9.60	614	652	35.2	50.1	447	150213	158	28.7	2190	1034	1.29	1.79	1.76	3.47	9.39	8.70
805	0518	2724.6	2.55	2.50	3.37	90	36.3	2870	2715.4	9.29	9.59	613	623	35.2	50.5	443	150855	158	28.8	2067	1036	1.30	1.80	1.76	3.47	9.38	8.70
806	0525	2724.9	2.41	2.62	3.36	88	36.0	2360	2716.3	9.30	9.59	613	657	35.2	50.4	440	151525	158	29.0	2025	1038	1.30	1.80	1.77	3.47	9.38	8.70
807	0532	2725.2	2.92	2.75	3.33	88	37.9	2360	2717.0	9.29	9.58	613	679	35.1	50.5	438	152073	159	29.1	1801	1039	1.31	1.78	1.74	3.47	9.38	8.70
808	0539	2725.5	2.54	2.72	3.40	88	38.0	2860	2718.3	9.27	9.60	613	677	35.0	50.4	435	152704	159	29.2	1965	1041	1.31	1.82	1.78	3.47	9.38	8.70
809	0547	2725.8	2.29	2.60	3.45	88	39.3	2870	2719.4	9.27	9.57	614	684	34.2	50.7	433	153402	159	29.3	2028	1043	1.32	1.87	1.83	3.47	9.38	8.70
810	0551	2726.2	5.39	2.60	3.62	88	43.9	2340	2719.8	9.27	9.61	613	688	33.3	50.7	431	153723	160	29.4	1062	1043	1.32	1.63	1.64	3.47	9.38	8.70
811	0555	2726.4	3.85	2.75	3.45	87	43.7	2350	2720.3	9.27	9.58	612	702	33.2	50.8	433	154107	160	29.4	1169	1044	1.32	1.77	1.74	3.47	9.38	8.70
812	0600	2726.7	3.81	2.61	3.69	87	43.8	2340	2721.0	9.26	9.59	612	650	32.5	50.9	442	154524	160	29.5	1349	1044	1.33	1.78	1.74	3.47	9.38	8.70
813	0603	2727.0	5.33	2.77	3.90	87	44.1	2350	2721.7	9.25	9.55	613	664	31.3	51.0	450	154821	161	29.6	935	1044	1.33	1.68	1.64	3.47	9.38	8.70
814	0606	2727.4	5.31	2.73	3.53	87	43.8	2350	2722.2	9.26	9.55	613	680	30.9	50.8	455	155104	161	29.6	924	1044	1.33	1.68	1.64	3.47	9.37	8.70
815	0610	2727.7	4.52	2.67	3.67	88	44.0	2380	2722.6	9.25	9.54	613	716	30.5	51.0	465	155457	161	29.7	1005	1044	1.33	1.73	1.69	3.47	9.37	8.70
816	0616	2728.0	3.67	2.82	3.68	88	43.8	2380	2723.1	9.22	9.56	614	667	30.7	51.0	480	155913	161	29.8	1237	1044	1.34	1.79	1.75	3.47	9.37	8.70
817	0621	2728.3	3.17	2.71	3.53	88	44.5	2830	2723.6	9.22	9.55	615	604	31.0	51.0	494	156393	162	29.9	1531	1045	1.34	1.85	1.81	3.47	9.37	8.70
818	0630	2728.6	2.07	2.70	3.69	88	44.6	2890	2724.2	9.23	9.54	615	577	30.4	50.8	511	157167	162	30.0	2496	1048	1.35	1.97	1.93	3.47	9.36	8.70
819	0634	2728.9	4.70	2.87	3.81	88	44.8	2890	2724.3	9.23	9.56	616	654	30.3	50.6	509	157537	162	30.1	1148	1048	1.35	1.73	1.69	3.48	9.36	8.70
820	0638	2729.2	4.52	2.86	4.40	88	44.7	2890	2724.5	9.22	9.56	615	622	30.8	50.9	508	157860	163	30.2	1076	1048	1.35	1.74	1.70	3.48	9.36	8.70
821	0644	2729.5	2.83	2.57	5.01	87	44.5	2870	2724.8	9.23	9.57	615	629	31.4	50.6	506	158437	163	30.3	1935	1049	1.36	1.88	1.84	3.48	9.35	8.70
822	0646	2729.8	9.20	2.73	3.95	88	44.6	2880	2724.9	9.23	9.59	614	629	31.7	50.5	504	158607	163	30.3	612	1048	1.36	1.53	1.49	3.48	9.35	8.70
823	0647	2730.1	18.5	2.84	4.10	87	43.2	2390	2724.9	9.23	9.59	614	671	31.7	50.5	505	158693	164	30.3	453	1047	1.36	1.31	1.27	3.48	9.35	8.70
824	0648	2730.4	28.8	2.82	3.17	89	41.8	2380	2724.9	9.23	9.59	614	657	31.7	50.5	501	158748	164	30.3	169	1045	1.36	1.17	1.13	3.48	9.35	8.70
825	0649	2730.7	13.8	2.67	3.33	88	42.2	2380	2725.0	9.21	9.56	615	697	32.1	50.4	498	158864	164	30.4	402	1044	1.36	1.39	1.35	3.48	9.35	8.70

AMOCO AUST. Tilana No.1 329204

Data Printed at time 22:49 Date Oct 9 '85
Data Recorded at time 06:51 Date Oct 4 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MX	MXB	ECD	EST FM PR	
326	0651	2731.0	9.11	3.66	7.60	85	41.7	2870	2725.1	9.21	9.56	615	620	32.1	50.4	497	159038	165	30.4	462	1043	1.36	1.50	1.46	3.48	9.35	8.70	D
327	0707	2731.3	6.20	4.97	7.76	72	36.5	2810	2725.6	9.22	9.55	605	615	34.7	50.5	505	159301	165	30.4	2578	1043	1.36	1.50	1.46	3.48	9.35	8.70	D
328	0709	2732.1	4.43	2.75	3.45	87	38.0	2860	2725.7	9.22	9.55	607	719	34.7	50.5	500	159477	166	30.5	1136	1039	1.37	1.66	1.62	3.48	9.34	8.70	D
329	0715	2732.5	4.18	2.75	3.69	85	40.0	2870	2726.1	9.22	9.63	613	739	32.6	50.4	493	160007	166	30.6	667	1039	1.37	1.70	1.66	3.48	9.34	8.70	D
330	0721	2732.8	3.13	2.84	3.50	86	41.8	2860	2726.6	9.20	9.63	614	764	33.0	50.6	490	160537	166	30.7	2081	1040	1.37	1.81	1.77	3.48	9.34	8.70	D
331	0729	2733.2	2.41	2.77	3.85	86	42.0	2860	2727.3	9.21	9.64	615	744	33.9	51.1	488	161206	167	30.8	2442	1043	1.38	1.89	1.85	3.48	9.33	8.70	D
332	0736	2733.5	2.43	2.55	3.42	86	41.5	2860	2727.9	9.20	9.63	614	764	35.2	51.0	485	161850	167	30.9	2231	1044	1.38	1.89	1.85	3.48	9.32	8.70	D
333	0737	2733.9	2.04	2.65	3.11	87	40.6	2860	2727.9	9.20	9.63	614	721	35.2	51.0	486	161903	167	30.9	2055	1044	1.39	1.93	1.89	3.48	9.32	8.70	D
334	0741	2734.4	7.07	2.62	3.38	88	40.9	2860	2728.2	9.22	9.66	614	721	33.4	51.0	484	162255	168	31.0	396	1041	1.39	1.57	1.53	3.49	9.32	8.70	D
335	0742	2734.7	31.7	2.48	3.57	88	41.1	2860	2728.3	9.22	9.66	614	698	33.4	51.0	484	162302	168	31.0	239	1040	1.39	1.14	1.10	3.49	9.32	8.70	D
336	0749	2735.0	2.45	2.52	3.37	89	41.4	2870	2728.7	9.36	9.66	615	710	28.8	51.3	482	162938	168	31.1	2222	1041	1.39	1.89	1.85	3.49	9.32	8.70	D
337	0754	2735.3	3.35	2.63	3.29	88	40.2	2860	2729.0	9.37	9.62	615	710	26.4	51.4	479	163423	169	31.2	1507	1042	1.40	1.79	1.74	3.49	9.31	8.70	D
338	0758	2735.6	5.28	2.64	3.45	88	41.1	2860	2729.2	9.37	9.62	615	731	26.4	51.4	478	163728	169	31.3	943	1042	1.40	1.66	1.62	3.49	9.31	8.70	D
339	0802	2735.9	4.35	2.78	3.48	88	40.9	2860	2729.6	9.37	9.69	615	714	22.6	51.5	477	164397	169	31.4	1177	1042	1.40	1.72	1.68	3.49	9.31	8.70	D
340	0803	2736.2	12.4	2.66	3.34	88	41.4	2860	2729.7	9.37	9.69	614	691	22.6	51.5	474	164227	170	31.4	461	1041	1.40	1.42	1.38	3.49	9.31	8.70	D
341	0807	2736.5	4.87	2.51	3.45	89	41.9	2870	2729.9	9.37	9.64	615	619	22.4	51.5	473	164571	170	31.4	1732	1041	1.41	1.70	1.66	3.49	9.30	8.70	D
342	0811	2736.8	5.09	2.63	3.42	89	40.9	2870	2730.4	9.36	9.62	615	538	22.6	51.7	476	164886	170	31.5	1067	1041	1.41	1.67	1.63	3.49	9.30	8.70	D
343	0813	2737.1	10.2	2.55	3.62	88	42.4	2870	2730.8	9.36	9.62	615	647	22.6	51.7	481	165036	171	31.5	485	1040	1.41	1.49	1.44	3.49	9.30	8.70	D
344	0815	2737.4	5.61	2.71	3.44	88	42.2	2870	2731.6	9.35	9.61	616	647	21.5	51.7	491	165320	171	31.6	638	1039	1.41	1.66	1.62	3.49	9.30	8.70	D
345	0818	2737.7	9.17	2.67	3.38	88	41.9	2870	2731.9	9.37	9.63	617	647	20.7	51.7	496	165495	171	31.6	542	1038	1.41	1.51	1.47	3.49	9.30	8.70	D
346	0819	2738.0	12.9	2.73	3.51	87	40.3	2870	2732.0	9.37	9.63	616	626	20.7	51.7	501	165622	172	31.6	444	1037	1.41	1.39	1.35	3.49	9.30	8.70	D
347	0820	2738.3	22.0	2.65	3.32	89	40.0	2880	2732.1	9.37	9.63	616	639	20.7	51.7	503	165693	172	31.7	229	1036	1.42	1.24	1.20	3.49	9.30	8.70	D
348	0821	2738.6	12.3	2.75	3.21	88	41.8	2890	2732.1	9.36	9.60	617	616	20.3	51.9	508	165821	172	31.7	466	1035	1.42	1.43	1.38	3.49	9.31	8.70	D
349	0824	2738.9	8.54	2.71	3.49	88	42.6	2880	2732.1	9.36	9.60	617	602	20.3	51.9	515	166008	172	31.7	758	1034	1.42	1.54	1.50	3.49	9.31	8.70	D
350	0824	2739.2	20.5	2.86	3.36	87	40.5	2890	2732.1	9.38	9.58	616	577	19.7	52.2	517	166085	173	31.7	247	1033	1.42	1.26	1.22	3.50	9.32	8.70	D
351	0825	2739.5	11.8	2.79	3.17	88	39.5	2890	2732.1	9.38	9.58	617	581	19.7	52.2	520	166217	173	31.8	426	1031	1.42	1.41	1.37	3.50	9.32	8.70	D
352	0827	2739.8	17.6	2.86	3.38	88	38.9	2890	2732.1	9.38	9.58	617	576	19.7	52.2	523	166387	173	31.8	283	1030	1.42	1.29	1.25	3.50	9.32	8.70	D
353	0828	2740.2	23.3	2.87	3.36	87	39.7	2890	2732.1	9.39	9.57	616	593	20.7	52.0	525	166376	174	31.8	215	1029	1.42	1.21	1.17	3.50	9.33	8.70	D
354	0829	2740.5	15.2	3.01	3.30	88	39.8	2890	2732.2	9.39	9.57	616	637	20.7	52.0	524	166431	174	31.8	356	1028	1.42	1.34	1.30	3.50	9.33	8.70	D
355	0830	2740.8	22.0	2.99	3.43	87	41.3	2890	2732.2	9.39	9.57	616	625	20.7	52.0	523	166552	174	31.8	229	1026	1.42	1.24	1.20	3.50	9.33	8.70	D
356	0831	2741.1	13.3	2.99	3.30	87	40.2	2900	2732.2	9.39	9.57	616	616	20.7	52.0	525	166673	175	31.8	469	1025	1.42	1.38	1.34	3.50	9.33	8.70	D
357	0832	2741.4	16.4	2.76	3.42	88	40.0	2900	2732.3	9.37	9.59	616	605	21.5	52.0	525	166762	175	31.9	266	1024	1.42	1.32	1.28	3.50	9.34	8.70	D
358	0842	2741.7	14.0	2.62	3.24	90	34.8	2880	2732.9	9.36	9.60	594	496	22.3	51.9	538	166911	175	31.9	356	1023	1.42	1.31	1.27	3.50	9.34	8.70	D
359	0843	2742.0	15.7	2.90	3.43	90	38.6	2890	2732.9	9.36	9.60	606	524	22.3	51.9	535	166949	175	31.9	378	1021	1.43	1.31	1.27	3.50	9.35	8.70	D
360	0844	2742.3	20.6	2.97	3.48	89	41.1	2930	2732.9	9.37	9.57	616	572	23.5	51.8	533	167023	176	31.9	232	1020	1.43	1.27	1.22	3.50	9.36	8.70	D
361	0844	2742.6	22.4	2.98	3.51	89	40.9	2940	2733.0	9.37	9.57	619	623	23.5	51.8	528	167095	176	31.9	198	1018	1.43	1.24	1.20	3.50	9.36	8.70	D
362	0845	2742.9	17.3	2.94	3.46	89	41.8	2950	2733.0	9.37	9.57	620	619	23.5	51.8	525	167194	176	31.9	285	1017	1.43	1.32	1.28	3.50	9.36	8.70	D
363	0848	2743.2	6.60	2.71	3.77	89	42.4	2920	2733.1	9.36	9.56	618	618	23.8	51.7	521	167436	177	32.0	2131	1017	1.43	1.61	1.57	3.50	9.37	8.70	D
364	0849	2743.5	16.8	3.04	3.90	88	40.5	2930	2733.2	9.36	9.56	619	638	23.8	51.7	520	167527	177	32.0	557	1016	1.43	1.31	1.27	3.50	9.37	8.70	D
365	0850	2743.8	15.9	2.79	3.86	89	40.2	2940	2733.2	9.36	9.61	619	654	24.1	51.2	519	167627	177	32.0	308	1014	1.43	1.33	1.29	3.50	9.37	8.70	D
366	0853	2744.1	6.10	2.82	3.78	89	40.8	2930	2733.3	9.36	9.61	619	641	24.1	51.2	518	167838	178	32.1	646	1014	1.43	1.61	1.57	3.51	9.37	8.70	D
367	0855	2744.4	13.0	2.68	5.22	88	39.6	2930	2733.4	9.36	9.63	620	643	24.0	51.1	516	168017	178	32.1	408	1013	1.43	1.37	1.33	3.51	9.38	8.70	D
368	0856	2744.7	16.2	2.57	3.31	89	39.7	2940	2733.4	9.36	9.63	620	635	24.0	51.1	516	168112	178	32.1	289	1012	1.43	1.32	1.27	3.51	9.38	8.70	D
369	0859	2745.0	6.62	2.70	3.38	89	40.3	2940	2733.5	9.34	9.61	620	659	24.3	51.5	515	168349	179	32.2	929	1011	1.44	1.58	1.53	3.51	9.39	8.70	D
370	0903	2745.3	4.37	2.59	3.22	89	40.8	2940	2733.7	9.34	9.61	620	629	24.4	51.9	513	168719	179	32.2	1081	1011	1.44	1.70	1.66	3.51	9.40	8.70	D
371	0909	2745.6	2.98	2.64	3.45	89	41.8	2930	2734.6	9.33	9.59	620	649	23.7	52.0	513	169282	179	32.3	1849	1013	1.44	1.82	1.78	3.51	9.41	8.70	D
372	0915	2746.0	2.94	2.46	3.33	89	42.1	2940	2734.9	9.33	9.61	620	623	23.6	52.0	508	169831	179	32.4	1730	1014	1.45	1.83	1.78	3.51	9.42	8.70	D
373	0921	2746.3	3.00	2.52	3.33	89	42.2	2940	2735.3	9.33	9.67	620	617	24.1	52.1	508	170368	180	32.5	1701	1015	1.45	1.82	1.78	3.51	9.43	8.70	D
374	0926	2746.6	3.73	2.52	3.49	89	42.1	2930	2735.7	9.33	9.69	620	629	22.7	52.0	505	170790	180	32.6	1296	1015	1.46	1.76	1.71	3.51	9.44	8.70	D
375	0930	2746.9	4.44	2.58	3.45	89	43.2	2930	2736.2	9.34	9.69	619	609	23.7	52.0	504	171155	180	32.7	1094	1015	1.46	1.72	1.68	3.51	9.45	8.70	D

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW l/MIN IN	FLOW l/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MKB	ECD	EST FM PR
876	0936	2747.2	3.33	2.47	3.49	89	42.3	2920	2736.6	9.33	9.66	619	643	23.9	52.2	501	171651	181	32.8	1792	1016	1.46	1.83	1.75	3.51	9.46	8.70
877	0941	2747.5	3.29	2.75	3.50	88	43.7	2900	2737.3	9.33	9.66	617	653	23.9	52.2	499	172123	181	32.9	1503	1017	1.47	1.81	1.76	3.51	9.46	8.70
878	0947	2747.8	3.18	2.69	3.38	88	43.2	2900	2738.4	9.35	9.64	617	658	24.0	52.5	498	172635	181	33.0	1557	1018	1.47	1.81	1.77	3.51	9.46	8.70
879	0953	2748.1	2.90	2.60	3.41	87	42.9	2890	2739.9	9.32	9.68	617	690	26.1	52.1	491	173130	182	33.1	1646	1019	1.47	1.83	1.79	3.51	9.45	8.70
880	0959	2748.4	2.89	2.59	3.39	88	44.2	2900	2741.3	9.33	9.63	618	674	26.0	52.3	490	173740	182	33.2	1869	1020	1.48	1.86	1.81	3.51	9.44	8.70
881	1004	2748.7	3.62	2.59	3.41	88	42.8	2900	2741.7	9.32	9.60	618	647	26.7	52.6	489	174183	182	33.2	1236	1021	1.48	1.77	1.73	3.51	9.44	8.70
882	1011	2749.0	2.74	2.66	3.55	88	44.6	2900	2743.4	9.36	9.59	618	646	27.0	52.6	489	174768	183	33.4	2105	1022	1.49	1.88	1.83	3.51	9.43	8.70
883	1016	2749.3	3.20	2.55	3.40	88	42.1	2900	2744.2	9.33	9.63	618	650	28.4	52.8	486	175224	183	33.4	1568	1023	1.49	1.83	1.76	3.52	9.43	8.70
884	1021	2749.6	3.59	2.46	3.25	88	41.7	2900	2744.9	9.35	9.57	618	642	28.7	52.8	483	175673	183	33.5	1523	1024	1.49	1.76	1.72	3.52	9.43	8.70
885	1028	2749.9	2.80	2.51	3.33	89	42.7	2890	2745.3	9.35	9.57	618	681	28.4	52.9	481	176250	183	33.6	1601	1025	1.50	1.85	1.80	3.52	9.42	8.70
886	1034	2750.2	3.18	2.47	3.32	89	42.3	2900	2745.6	9.36	9.58	618	665	28.1	53.1	480	176757	184	33.7	1728	1026	1.50	1.81	1.77	3.52	9.42	8.70
887	1038	2750.5	3.83	2.46	3.22	88	42.6	2900	2745.8	9.34	9.58	618	695	28.5	53.3	478	177173	184	33.8	1309	1026	1.51	1.75	1.71	3.52	9.42	8.70
888	1051	2750.8	3.92	2.48	3.20	89	42.2	2870	2746.3	9.32	9.61	609	659	30.4	53.1	488	177608	184	33.9	1279	1027	1.51	1.75	1.70	3.52	9.41	8.70
889	1054	2751.1	6.68	2.41	3.16	78	43.1	2380	2746.5	9.34	9.60	613	663	31.8	53.5	479	177823	185	33.9	801	1026	1.51	1.57	1.53	3.52	9.41	8.70
890	1119	2753.2	3.44	2.54	3.62	90	45.0	2360	2747.9	9.33	9.62	612	661	29.5	53.6	462	179390	187	34.3	1460	1025	1.53	1.83	1.78	3.52	9.42	8.70
891	1124	2753.6	3.86	2.40	3.32	91	43.2	2360	2748.1	9.33	9.65	612	691	29.8	53.8	459	180397	187	34.4	1338	1026	1.53	1.77	1.72	3.52	9.42	8.70
892	1130	2753.9	2.93	2.42	3.22	90	43.5	2860	2748.5	9.32	9.65	613	620	31.0	53.5	454	180948	187	34.5	1499	1027	1.54	1.85	1.81	3.52	9.42	8.70
893	1135	2754.2	4.19	2.65	3.50	90	44.0	2850	2748.7	9.31	9.62	613	603	31.4	53.7	452	181343	188	34.6	1275	1028	1.54	1.75	1.71	3.53	9.42	8.70
894	1139	2754.5	3.67	2.62	3.57	89	44.7	2860	2749.0	9.31	9.64	612	603	31.7	53.5	450	181783	188	34.7	1370	1028	1.54	1.80	1.75	3.53	9.42	8.70
895	1143	2754.8	5.02	2.57	3.51	89	44.0	2860	2749.2	9.31	9.64	613	611	31.7	53.5	445	182109	188	34.8	1024	1028	1.54	1.70	1.65	3.53	9.42	8.70
896	1150	2755.1	2.81	2.49	3.57	90	43.9	2870	2749.5	9.35	9.63	613	615	32.1	53.7	441	182693	189	34.9	1503	1029	1.55	1.87	1.82	3.53	9.41	8.70
897	1154	2755.4	4.45	2.52	3.56	90	43.6	2830	2749.7	9.35	9.66	614	613	32.3	53.6	437	183062	189	34.9	1282	1029	1.55	1.73	1.69	3.53	9.41	8.70
898	1159	2755.7	3.47	2.57	3.61	90	44.4	2870	2749.9	9.35	9.65	614	597	32.7	53.8	435	183534	189	35.0	1498	1030	1.56	1.81	1.77	3.53	9.41	8.70
899	1204	2756.0	3.55	2.62	3.36	89	44.1	2870	2750.3	9.31	9.64	614	647	33.1	53.8	431	183938	190	35.1	1380	1031	1.56	1.80	1.75	3.53	9.41	8.70
900	1210	2756.3	2.39	2.59	3.40	88	44.0	2860	2750.6	9.33	9.66	614	639	33.3	53.5	428	184542	190	35.2	1623	1032	1.56	1.86	1.81	3.53	9.41	8.70
901	1216	2756.6	3.08	2.59	3.46	88	44.4	2870	2750.9	9.29	9.65	614	666	32.9	53.7	423	185063	190	35.3	1691	1033	1.57	1.84	1.80	3.53	9.41	8.70
902	1222	2756.9	3.18	2.58	3.50	88	44.4	2870	2751.2	9.32	9.63	615	719	33.5	53.7	421	185608	190	35.4	1608	1034	1.57	1.84	1.79	3.53	9.41	8.70
903	1228	2757.2	3.08	2.67	3.61	88	44.9	2870	2751.8	9.32	9.65	615	713	33.9	53.8	417	186130	191	35.5	1590	1035	1.58	1.85	1.81	3.53	9.41	8.70
904	1229	2757.5	19.1	2.72	3.81	87	43.0	2860	2751.9	9.32	9.65	615	738	33.9	53.8	416	186213	191	35.5	284	1034	1.58	1.29	1.24	3.53	9.41	8.70
905	1230	2757.8	23.0	2.83	3.45	88	42.8	2870	2751.9	9.30	9.61	614	704	34.0	54.1	415	186277	191	35.5	205	1032	1.58	1.24	1.19	3.53	9.41	8.70
906	1232	2758.1	9.42	2.69	3.47	88	44.7	2870	2752.1	9.30	9.61	615	726	34.0	54.1	414	186445	192	35.6	607	1031	1.58	1.52	1.47	3.53	9.41	8.70
907	1236	2758.4	4.74	2.81	3.52	88	45.0	2870	2752.6	9.29	9.65	615	678	34.2	53.9	413	186781	192	35.6	865	1031	1.58	1.73	1.68	3.53	9.41	8.70
908	1238	2758.7	6.89	2.71	3.75	89	44.9	2870	2752.9	9.31	9.59	614	673	34.5	53.8	412	187015	192	35.7	724	1031	1.58	1.62	1.57	3.53	9.41	8.70
909	1242	2759.1	5.66	2.68	3.68	88	44.2	2860	2753.1	9.30	9.65	614	672	34.4	53.7	409	187310	193	35.7	937	1031	1.59	1.66	1.61	3.54	9.41	8.70
910	1243	2759.4	12.8	2.56	3.47	87	43.5	2870	2753.1	9.30	9.65	613	651	34.4	53.7	408	187433	193	35.8	408	1030	1.59	1.41	1.37	3.54	9.41	8.70
911	1246	2759.7	6.68	2.69	3.78	88	43.6	2870	2753.3	9.34	9.56	614	673	34.3	54.1	409	187662	193	35.8	724	1029	1.59	1.61	1.56	3.54	9.41	8.70
912	1247	2760.0	11.1	2.82	3.66	88	43.9	2880	2753.3	9.34	9.56	614	705	34.3	54.1	409	187811	193	35.8	457	1028	1.59	1.46	1.41	3.54	9.41	8.70
913	1249	2760.3	12.5	2.74	3.67	88	43.8	2870	2753.4	9.34	9.56	614	690	34.3	54.1	406	187933	194	35.8	387	1027	1.59	1.43	1.38	3.54	9.41	8.70
914	1300	2760.6	21.1	2.88	3.63	88	44.1	2900	2753.7	9.35	9.51	537	532	36.3	54.2	426	188043	194	35.9	249	1026	1.59	1.28	1.23	3.54	9.40	8.70
915	1302	2760.9	8.52	2.61	3.43	88	43.6	2910	2753.8	9.35	9.51	616	702	36.3	54.2	414	188211	194	35.9	740	1025	1.59	1.54	1.49	3.54	9.41	8.70
916	1307	2761.2	3.75	2.67	3.63	87	43.1	2910	2754.2	9.28	9.60	617	650	37.2	53.2	398	188630	195	36.0	1557	1026	1.60	1.77	1.72	3.54	9.41	8.70
917	1310	2761.5	5.08	2.69	3.47	87	43.0	2900	2754.5	9.29	9.66	618	680	33.9	53.0	395	188944	195	36.0	1302	1026	1.60	1.68	1.63	3.54	9.41	8.70
918	1315	2761.8	3.86	2.70	3.69	87	43.5	2900	2754.7	9.29	9.60	618	699	30.4	53.4	391	189351	195	36.1	1255	1026	1.60	1.76	1.72	3.54	9.41	8.70
919	1319	2762.1	5.67	2.74	3.60	87	43.2	2910	2755.0	9.29	9.60	618	692	30.4	53.4	396	189658	196	36.2	978	1026	1.60	1.65	1.60	3.54	9.41	8.70
920	1321	2762.4	7.87	2.69	3.61	89	43.7	2920	2755.1	9.30	9.65	619	681	29.7	53.8	397	189960	196	36.2	729	1025	1.61	1.56	1.51	3.54	9.41	8.70
921	1323	2762.7	7.37	2.75	3.56	88	43.1	2930	2755.3	9.29	9.67	619	689	29.6	53.7	397	190359	196	36.2	658	1025	1.61	1.57	1.52	3.54	9.41	8.70
922	1326	2763.0	7.10	2.81	3.52	87	42.8	2930	2755.4	9.29	9.67	619	699	29.6	53.7	396	190680	197	36.3	700	1024	1.61	1.58	1.53	3.54	9.41	8.70
923	1328	2763.3	8.47	2.54	3.87	86	42.6	2930	2755.5	9.29	9.66	619	698	28.6	53.8	396	190966	197	36.3	600	1024	1.61	1.52	1.47	3.54	9.41	8.70
924	1330	2763.6	10.8	2.82	3.40	87	44.1	2930	2755.6	9.29	9.66	619	704	28.6	53.8	394	191612	197	36.4	459	1023	1.61	1.47	1.42	3.54	9.41	8.70
925	1331	2763.9	11.1	2.72	3.68	86	43.9	2930	2755.7	9.27	9.65	619	719	29.7	53.7	393	191754	197	36.4	402	1022	1.61	1.46	1.41	3.55	9.41	8.70

AMOCO AUST. Tilana No.1 329206 Data Printed at time 22:57 Date Oct 9 '85
Data Recorded at time 13:32 Date Oct 4 '85 138

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR
926	1332	2764.2	21.7	2.90	3.42	87	42.6	2930	2755.3	9.27	9.65	619	693	29.7	53.7	393	190326	198	36.4	227	1021	1.61	1.25	1.20	3.55	9.41	8.70
927	1333	2764.5	17.9	3.05	3.50	87	42.0	2930	2755.8	9.27	9.65	619	701	29.7	53.7	393	190939	198	36.4	261	1019	1.61	1.30	1.25	3.55	9.41	8.70
928	1334	2764.8	15.9	2.66	3.38	87	41.3	2930	2755.9	9.27	9.65	619	693	29.7	53.7	392	191037	198	36.4	317	1019	1.61	1.33	1.28	3.55	9.41	8.70
929	1336	2765.1	10.2	2.79	4.12	87	44.2	2920	2756.0	9.26	9.66	618	710	30.6	53.6	384	191160	199	36.5	513	1018	1.62	1.48	1.44	3.55	9.42	8.70
930	1337	2765.5	12.0	2.80	3.68	86	43.8	2930	2756.1	9.26	9.66	618	670	30.6	53.6	369	191290	199	36.5	406	1017	1.62	1.43	1.38	3.55	9.42	8.70
931	1341	2765.8	5.72	2.69	3.50	87	43.2	2920	2756.3	9.29	9.66	618	694	30.8	54.0	346	191565	199	36.5	792	1016	1.62	1.64	1.59	3.55	9.42	8.70
932	1343	2766.1	7.13	2.93	4.71	86	43.6	2930	2756.4	9.27	9.62	619	657	30.8	53.9	338	191777	200	36.6	672	1016	1.62	1.58	1.53	3.55	9.42	8.70
933	1346	2766.4	5.92	2.65	3.80	87	43.5	2930	2756.5	9.34	9.62	617	655	29.6	53.8	340	192053	200	36.6	871	1016	1.62	1.64	1.59	3.55	9.42	8.70
934	1349	2766.7	7.63	2.68	7.41	86	42.8	2930	2756.6	9.34	9.62	618	673	29.6	53.8	353	192250	200	36.7	638	1015	1.62	1.55	1.50	3.55	9.42	8.70
935	1350	2767.0	11.0	3.08	7.59	86	43.2	2940	2756.7	9.34	9.62	618	680	29.6	53.8	361	192391	200	36.7	472	1014	1.62	1.45	1.40	3.55	9.42	8.70
936	1352	2767.3	8.41	2.68	3.50	89	43.1	2940	2756.8	9.35	9.66	617	667	26.4	53.8	385	192537	201	36.7	620	1014	1.63	1.54	1.49	3.55	9.42	8.70
937	1355	2767.6	6.74	2.70	3.57	89	43.0	2950	2757.0	9.35	9.66	619	534	26.4	53.8	421	192824	201	36.8	1251	1013	1.63	1.60	1.55	3.55	9.42	8.70
938	1357	2767.9	8.42	2.63	3.45	89	43.6	2970	2757.3	9.27	9.66	620	621	23.3	53.9	449	193015	201	36.8	633	1013	1.63	1.54	1.49	3.55	9.42	8.70
939	1358	2768.3	8.39	2.85	2.58	89	43.5	2970	2757.5	9.27	9.66	620	578	23.3	53.9	450	193085	202	36.8	469	1012	1.63	1.53	1.48	3.55	9.41	8.70
940	1359	2768.6	8.51	2.93	2.93	90	43.1	2970	2757.6	9.27	9.66	620	592	23.3	53.9	450	193132	202	36.8	847	1009	1.63	1.51	1.47	3.55	9.42	8.70
941	1402	2768.8	4.23	2.54	3.34	89	44.7	2980	2758.0	9.24	9.66	620	593	21.2	53.5	446	193431	202	36.9	2029	1010	1.63	1.76	1.71	3.56	9.41	8.70
942	1405	2769.1	4.80	2.62	3.31	89	43.8	2970	2758.4	9.23	9.69	620	617	21.8	53.1	442	193729	203	36.9	1115	1010	1.64	1.71	1.66	3.56	9.41	8.70
943	1410	2769.4	4.11	2.54	3.40	89	43.4	2950	2759.0	9.24	9.68	620	633	22.4	52.6	439	194132	203	37.0	1617	1010	1.64	1.75	1.70	3.56	9.41	8.70
944	1413	2769.7	5.44	2.59	3.45	89	42.9	2940	2759.4	9.22	9.71	619	661	22.5	51.8	436	194427	203	37.1	958	1010	1.64	1.66	1.61	3.56	9.40	8.70
945	1417	2770.0	4.83	2.53	3.51	89	43.4	2940	2760.0	9.26	9.70	620	616	22.6	51.7	435	194760	204	37.1	1040	1010	1.64	1.70	1.65	3.56	9.40	8.70
946	1422	2770.3	3.52	2.63	3.53	88	43.7	2920	2760.7	9.28	9.66	619	694	22.9	51.7	434	195216	204	37.2	1914	1011	1.65	1.80	1.75	3.56	9.40	8.70
947	1430	2770.6	12.1	2.85	3.39	88	41.1	2900	2761.1	9.23	9.62	611	599	26.9	51.1	436	195378	204	37.3	445	1010	1.65	1.41	1.36	3.56	9.40	8.70
948	1438	2770.9	2.18	2.73	3.70	88	43.4	2900	2761.7	9.25	9.64	617	679	28.0	51.4	428	196108	204	37.4	1730	1012	1.65	1.94	1.89	3.56	9.40	8.70
949	1444	2771.2	2.95	2.67	3.62	89	43.9	2900	2762.2	9.22	9.63	618	642	28.9	51.7	424	196654	205	37.5	1309	1013	1.66	1.86	1.81	3.56	9.39	8.70
950	1449	2771.6	4.11	2.69	3.67	88	43.9	2880	2762.9	9.25	9.67	615	661	29.6	52.2	423	197083	205	37.6	1033	1013	1.66	1.76	1.71	3.56	9.38	8.70
951	1455	2771.9	2.77	2.72	3.69	88	44.3	2880	2763.8	9.29	9.63	616	600	30.4	51.9	421	197603	205	37.7	2398	1014	1.67	1.88	1.83	3.56	9.38	8.70
952	1502	2772.2	2.52	2.73	3.68	88	45.3	2880	2765.5	9.28	9.62	616	604	29.8	52.1	416	198237	206	37.8	1853	1015	1.67	1.93	1.87	3.56	9.37	8.70
953	1511	2772.5	2.12	2.68	3.81	88	45.1	2870	2766.7	9.33	9.60	617	662	29.7	52.4	416	198996	206	37.9	2415	1017	1.68	1.98	1.92	3.56	9.36	8.70
954	1514	2772.8	5.33	2.54	3.65	87	44.2	2880	2767.2	9.35	9.60	617	669	29.7	52.3	412	199294	206	38.0	1027	1017	1.68	1.69	1.64	3.56	9.35	8.70
955	1520	2773.1	2.95	2.85	3.74	87	44.4	2870	2768.1	9.33	9.64	617	649	29.2	52.7	409	199823	207	38.1	1309	1018	1.68	1.87	1.81	3.56	9.34	8.70
956	1524	2773.4	4.55	2.93	3.68	87	44.5	2860	2769.0	9.30	9.60	615	643	28.7	52.7	402	200176	207	38.2	1067	1018	1.69	1.74	1.69	3.56	9.34	8.70
957	1529	2773.7	4.05	2.64	3.62	87	44.8	2850	2769.4	9.28	9.58	615	634	28.6	52.5	398	200567	207	38.2	1498	1019	1.69	1.78	1.73	3.57	9.34	8.70
958	1535	2774.0	3.02	2.79	3.59	87	44.4	2840	2769.8	9.28	9.51	612	645	28.3	52.6	397	201039	208	38.3	1409	1020	1.69	1.86	1.81	3.57	9.34	8.70
959	1543	2774.3	2.19	2.81	3.57	86	44.4	2850	2770.5	9.30	9.39	612	631	28.6	52.8	391	201808	208	38.5	2652	1021	1.70	1.96	1.90	3.57	9.34	8.70
960	1550	2774.6	2.91	2.92	3.64	86	44.5	2860	2770.7	9.30	9.38	612	612	29.2	52.8	389	202382	208	38.6	2338	1023	1.70	1.87	1.82	3.57	9.34	8.70
961	1557	2774.9	2.65	2.83	3.60	87	45.3	2860	2771.1	9.30	9.39	611	635	30.6	52.6	383	202975	208	38.7	2622	1024	1.71	1.91	1.86	3.57	9.34	8.70
962	1601	2775.2	3.77	2.70	3.52	87	44.5	2870	2771.3	9.29	9.41	611	634	31.0	52.7	381	203372	209	38.8	1314	1024	1.71	1.79	1.74	3.57	9.34	8.70
963	1607	2775.5	3.10	2.56	3.48	87	45.1	2860	2771.6	9.30	9.45	611	713	28.6	52.9	378	203832	209	38.9	1331	1025	1.71	1.86	1.81	3.57	9.35	8.70
964	1615	2775.8	2.43	2.72	3.58	87	44.8	2860	2772.1	9.28	9.56	611	637	28.8	52.8	377	204531	209	39.0	1829	1026	1.72	1.93	1.88	3.57	9.35	8.70
965	1621	2776.1	3.13	2.66	3.63	87	45.1	2860	2772.3	9.27	9.54	610	646	29.2	52.9	370	205056	210	39.1	1555	1027	1.72	1.86	1.80	3.57	9.36	8.70
966	1625	2776.4	4.29	2.86	4.77	86	45.8	2860	2772.5	9.26	9.54	609	616	30.1	52.7	370	205423	210	39.2	1437	1028	1.73	1.77	1.72	3.57	9.36	8.70
967	1626	2776.7	13.4	2.87	3.57	86	44.0	2860	2772.6	9.28	9.49	609	639	30.5	52.6	363	205540	210	39.2	364	1027	1.73	1.41	1.36	3.57	9.36	8.70
968	1627	2777.0	30.7	2.86	3.70	85	41.4	2860	2772.6	9.28	9.49	609	624	30.5	52.6	369	205585	211	39.2	143	1026	1.73	1.14	1.09	3.57	9.36	8.70
969	1627	2777.3	28.0	2.85	3.44	86	40.1	2870	2772.6	9.28	9.49	610	623	30.5	52.6	369	205640	211	39.2	172	1024	1.73	1.16	1.11	3.57	9.36	8.70
970	1629	2777.6	14.2	2.61	3.53	87	45.4	2860	2772.7	9.28	9.49	610	621	30.5	52.6	368	205747	211	39.2	357	1023	1.73	1.41	1.35	3.57	9.36	8.70
971	1630	2778.0	15.6	2.91	4.46	86	45.6	2860	2772.7	9.30	9.53	610	595	31.2	53.0	367	205848	211	39.3	296	1022	1.73	1.38	1.33	3.57	9.37	8.70
972	1631	2778.3	14.4	2.96	3.50	86	44.9	2870	2772.8	9.30	9.53	610	580	31.2	53.0	367	205955	212	39.3	335	1021	1.73	1.40	1.34	3.57	9.37	8.70
973	1632	2778.6	26.3	2.85	3.42	87	43.6	2870	2772.8	9.30	9.53	611	591	31.2	53.0	367	206015	212	39.3	180	1020	1.73	1.21	1.15	3.58	9.37	8.70
974	1634	2778.9	9.42	2.84	3.36	86	44.9	2870	2772.8	9.31	9.54	612	533	31.5	53.1	366	206182	212	39.3	552	1019	1.73	1.52	1.47	3.58	9.37	8.70
975	1637	2779.2	5.18	2.70	3.98	87	44.9	2860	2773.0	9.31	9.54	611	545	31.7	52.8	363	206437	213	39.4	890	1019	1.73	1.70	1.65	3.58	9.38	8.70

AMOCO AUST. Tilana No.1 329207

Data Printed at time 23:01 Date Oct 9
Data Recorded at time 16:39 Date Oct 4

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST FM PR
976	1639	2779.5	8.35	2.68	3.99	86	44.8	2840	2773.2	9.31	9.54	609	563	31.7	52.8	363	206665	213	39.4	566	1019	1.73	1.54	1.48	3.58	9.38	8.70
977	1647	2779.8	14.2	2.71	3.60	87	43.3	2820	2773.5	9.30	9.55	586	462	31.5	52.9	370	206802	213	39.4	371	1018	1.74	1.38	1.33	3.58	9.38	8.70
978	1647	2780.1	34.4	2.87	3.66	89	43.2	2830	2773.5	9.32	9.54	599	507	31.9	53.3	368	206845	214	39.4	168	1016	1.74	1.13	1.08	3.58	9.38	8.70
979	1650	2780.4	7.08	2.88	3.81	89	44.4	2830	2773.7	9.32	9.54	606	537	31.9	53.3	360	207065	214	39.5	909	1016	1.74	1.61	1.55	3.58	9.38	8.70
980	1651	2780.7	25.6	3.06	3.67	86	43.2	2830	2773.8	9.32	9.54	606	563	31.9	53.3	360	207131	214	39.5	256	1015	1.74	1.21	1.16	3.58	9.38	8.70
981	1652	2781.0	16.0	3.00	3.51	87	41.3	2830	2773.9	9.30	9.55	606	607	32.0	53.0	358	207221	215	39.5	275	1014	1.74	1.33	1.28	3.58	9.39	8.70
982	1652	2781.3	34.9	3.03	3.45	86	41.4	2840	2773.9	9.30	9.55	606	575	32.0	53.0	357	207269	215	39.5	218	1013	1.74	1.10	1.05	3.58	9.39	8.70
983	1653	2781.6	31.4	3.28	3.58	87	43.0	2843	2773.9	9.30	9.55	607	577	32.0	53.0	353	207311	215	39.5	125	1011	1.74	1.15	1.10	3.58	9.39	8.70
984	1654	2781.9	11.0	2.95	3.55	87	43.4	2800	2774.0	9.30	9.55	604	569	32.0	53.0	353	207452	215	39.6	629	1011	1.74	1.46	1.41	3.58	9.39	8.70
985	1656	2782.2	10.9	3.06	4.23	87	44.9	2800	2774.1	9.30	9.56	602	615	31.4	52.6	355	207597	216	39.6	460	1010	1.74	1.48	1.43	3.58	9.39	8.70
986	1657	2782.5	20.8	3.16	3.49	88	42.9	2830	2774.1	9.30	9.56	604	654	31.4	52.6	357	207674	216	39.6	249	1009	1.74	1.27	1.22	3.58	9.39	8.70
987	1658	2782.8	23.8	2.99	3.52	87	43.1	2840	2774.2	9.30	9.56	606	681	31.4	52.6	356	207743	216	39.6	189	1008	1.74	1.23	1.18	3.58	9.39	8.70
+ Flow check and circulate returns at 2783m.																											
989	1721	2783.3	12.2	3.59	3.79	87	47.3	2910	2775.2	9.32	9.54	613	593	27.1	55.0	341	207753	217	39.6	221	1007	1.74	1.47	1.41	3.58	9.39	8.70
990	1907	2783.7	1.28	2.87	4.19	88	45.5	2770	2783.4	9.31	9.50	602	626	33.9	55.0	423	209113	217	39.9	1111	1009	1.75	2.12	2.07	3.59	9.39	8.70
991	1910	2784.0	5.94	2.77	3.68	88	44.2	2780	2783.4	9.27	9.47	604	644	34.1	54.7	420	209381	218	39.9	847	1009	1.76	1.65	1.60	3.59	9.40	8.70
992	1917	2784.3	2.36	2.82	3.80	88	44.2	2780	2783.4	9.29	9.50	605	615	35.1	54.6	421	210358	218	40.1	1774	1011	1.76	1.92	1.87	3.59	9.40	8.70
993	1925	2784.7	2.49	2.69	3.84	88	44.7	2770	2783.4	9.27	9.49	604	657	35.1	54.2	419	210727	218	40.2	2034	1012	1.77	1.91	1.86	3.59	9.40	8.70
994	1927	2785.0	10.3	2.88	3.74	88	43.2	2730	2783.4	9.32	9.50	604	641	34.7	54.5	415	210882	218	40.2	658	1011	1.77	1.48	1.42	3.59	9.40	8.70
995	1930	2785.3	5.47	2.83	4.08	88	43.4	2770	2783.4	9.40	9.51	604	624	33.8	54.5	415	211173	219	40.3	796	1011	1.77	1.66	1.61	3.59	9.40	8.70
996	1932	2785.6	13.1	3.30	7.07	78	42.8	2780	2783.4	9.40	9.51	605	642	33.8	54.5	414	211279	219	40.3	397	1010	1.77	1.37	1.32	3.59	9.40	8.70
997	1933	2785.9	11.1	2.70	3.86	87	45.5	2730	2783.4	9.40	9.51	605	650	33.8	54.5	413	211417	219	40.3	495	1010	1.77	1.48	1.42	3.59	9.41	8.70
998	1936	2786.2	5.45	2.92	3.94	87	44.5	2800	2783.4	9.38	9.51	606	646	33.8	54.2	412	211711	220	40.4	537	1009	1.77	1.67	1.62	3.59	9.41	8.70
999	1937	2786.5	18.0	2.89	3.56	87	43.3	2810	2783.4	9.38	9.51	605	627	33.8	54.2	410	211798	220	40.4	274	1008	1.77	1.31	1.26	3.59	9.41	8.70
1000	1939	2786.8	14.8	3.05	3.63	87	42.5	2810	2783.4	9.26	9.47	605	638	34.0	54.8	410	211934	220	40.4	364	1008	1.77	1.36	1.31	3.59	9.41	8.70
1001	1940	2787.1	14.3	3.06	4.54	87	42.8	2800	2783.4	9.26	9.47	604	659	34.0	54.8	409	212012	221	40.4	326	1007	1.78	1.37	1.32	3.59	9.41	8.70
1002	1941	2787.4	18.5	2.90	3.88	87	42.1	2820	2783.4	9.26	9.47	605	649	34.0	54.8	409	212093	221	40.4	267	1006	1.78	1.29	1.24	3.59	9.41	8.70
1003	1942	2787.7	13.5	3.01	4.60	87	43.8	2830	2783.4	9.29	9.49	604	652	34.3	54.2	408	212214	221	40.5	377	1005	1.78	1.40	1.34	3.59	9.41	8.70
1004	1943	2788.0	18.6	2.86	4.24	87	43.4	2830	2783.4	9.29	9.49	605	642	34.3	54.2	408	212299	222	40.5	294	1004	1.78	1.30	1.25	3.59	9.41	8.70
1005	1944	2788.3	28.5	3.08	4.31	87	42.6	2830	2783.4	9.29	9.49	605	654	34.3	54.2	407	212354	222	40.5	166	1003	1.78	1.17	1.12	3.60	9.41	8.70
1006	1945	2788.6	24.6	2.91	3.91	86	41.6	2850	2783.4	9.29	9.49	605	654	34.3	54.2	408	212416	222	40.5	206	1002	1.78	1.20	1.15	3.60	9.41	8.70
+ Circulate returns at 2788.6m. POOH to core.																											
+ RRCB#1 Diamond Boart CD 502. Start depth 2788.6m.																											
	Date	Oct 5 '85																									
5	0813	2789.2	4.35	2.79	4.72	80	4.4	310	2788.6	9.35	9.45	206	206	35.2	58.2	439	389	.56	.1	888	36471	.00	1.06	1.03	3.60	9.37	8.70
6	0814	2789.5	29.0	3.72	4.81	86	3.3	300	2788.6	9.35	9.45	204	204	35.2	58.2	438	444	.87	.1	305	23926	.00	.69	.70	3.60	9.37	8.70
7	0815	2789.6	33.8	3.73	5.02	87	3.5	360	2788.6	9.54	7.98	201	201	30.4	40.2	438	467	1.01	.1	255	21256	.00	.67	.69	3.60	9.37	8.70
8	0817	2789.9	12.7	2.95	4.58	86	4.1	360	2788.6	9.54	7.98	189	189	30.4	40.2	441	572	1.23	.1	545	16739	.01	.87	.88	3.60	9.39	8.70
9	0819	2790.1	8.25	3.06	4.17	87	4.5	370	2788.6	9.54	7.98	189	189	30.4	40.2	439	724	1.53	.2	983	13534	.01	.96	.98	3.60	9.39	8.70
10	0821	2790.4	8.84	2.82	3.86	87	4.2	370	2788.6	9.54	7.98	189	189	30.4	40.2	436	898	1.84	.2	661	11373	.01	.94	.95	3.60	9.39	8.70
11	0823	2790.7	17.5	2.86	3.72	87	5.2	360	2788.6	9.54	7.98	189	189	30.4	40.2	435	939	2.14	.2	341	9817	.01	.85	.87	3.60	9.39	8.70
12	0826	2791.1	6.22	2.96	4.48	86	5.4	400	2788.6	9.40	8.84	199	199	30.7	40.5	435	1242	2.42	.3	848	8787	.01	1.05	1.06	3.60	9.39	8.70
13	0827	2791.4	14.8	3.01	4.40	86	4.7	400	2788.6	9.40	8.84	199	199	30.7	40.5	436	1347	2.76	.3	342	7766	.01	.86	.88	3.60	9.39	8.70
14	0829	2791.8	19.2	3.31	5.44	86	4.7	390	2788.6	9.40	8.84	199	199	30.7	40.5	434	1453	3.06	.3	360	7008	.01	.81	.83	3.61	9.39	8.70
15	0829	2792.0	19.1	3.03	4.33	84	4.1	390	2788.6	9.40	8.84	200	200	30.7	40.5	433	1508	3.36	.3	257	6401	.01	.79	.80	3.61	9.39	8.70
16	0830	2792.3	22.4	2.85	4.12	87	4.7	390	2788.6	9.40	8.84	200	200	30.7	40.5	433	1577	3.67	.3	254	5896	.01	.78	.80	3.61	9.40	8.70
17	0831	2792.6	30.5	3.32	5.20	85	3.9	410	2788.6	9.40	8.84	199	199	30.7	40.5	433	1638	3.95	.3	250	5475	.02	.70	.72	3.61	9.40	8.70
18	0832	2792.9	28.0	3.56	4.84	86	4.3	410	2788.6	9.40	8.84	200	200	30.7	40.5	431	1687	4.28	.3	257	5059	.02	.73	.75	3.61	9.40	8.70
19	0834	2793.2	16.2	3.36	4.26	86	4.2	360	2788.6	9.40	8.84	188	188	30.7	40.5	431	1772	4.58	.4	326	4742	.02	.82	.84	3.61	9.40	8.70
20	0835	2793.5	13.1	3.21	4.40	86	4.6	350	2788.6	9.30	9.34	183	183	31.1	40.2	430	1830	4.89	.4	504	4471	.02	.88	.89	3.61	9.41	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TI	DXC	NK	NKB	ECD	EST FM PR
21	0837	2793.8	13.2	3.05	3.69	87	4.0	350	2788.6	9.30	9.34	183	183	31.1	40.2	432	2008	5.19	.4	507	4231	.02	.35	.87	3.61	9.41	8.70
22	0838	2794.1	21.1	2.94	4.06	87	3.7	350	2788.6	9.30	9.34	183	183	31.1	40.2	431	2034	5.50	.4	293	4008	.02	.76	.77	3.61	9.41	8.70
23	0840	2794.4	13.8	3.13	4.23	87	4.2	350	2788.6	9.30	9.34	183	183	31.1	40.2	429	2204	5.80	.4	468	3824	.02	.86	.87	3.61	9.41	8.70
24	0841	2794.8	16.9	2.94	4.54	87	4.0	360	2788.6	9.30	9.34	183	183	31.1	40.2	431	2305	6.10	.5	424	3648	.02	.81	.82	3.61	9.41	8.70
25	0843	2795.0	11.7	2.87	4.40	87	4.8	340	2788.6	9.30	9.34	183	183	31.1	40.2	429	2415	6.41	.5	540	3491	.02	.91	.92	3.61	9.41	8.70
26	0844	2795.3	13.8	2.78	4.08	87	4.5	350	2788.6	9.30	9.35	183	183	31.4	40.2	429	2530	6.72	.5	434	3365	.02	.87	.88	3.61	9.41	8.70
27	0846	2795.7	15.1	2.85	3.93	87	3.9	360	2788.6	9.30	9.35	184	184	31.4	40.2	428	2650	7.01	.5	840	3222	.02	.83	.84	3.61	9.41	8.70
28	0847	2795.9	17.3	2.82	4.25	87	4.9	350	2788.6	9.30	9.35	184	184	31.4	40.2	427	2731	7.33	.5	342	3104	.03	.84	.85	3.61	9.42	8.70
29	0849	2796.2	14.3	2.79	3.86	87	4.2	350	2788.6	9.30	9.35	184	184	31.4	40.2	426	2833	7.63	.6	409	2993	.03	.85	.86	3.61	9.42	8.70
30	0850	2796.6	17.0	2.74	4.65	88	5.1	370	2788.6	9.30	9.35	184	184	31.4	40.2	426	2931	7.92	.6	402	2888	.03	.85	.86	3.62	9.42	8.70
31	0852	2796.8	14.5	2.88	3.80	88	4.7	350	2788.6	9.30	9.35	184	184	31.4	40.2	425	3034	8.24	.6	400	2789	.03	.86	.88	3.62	9.42	8.70
32	0853	2797.1	15.2	2.85	3.63	87	4.8	340	2788.6	9.30	9.35	184	184	31.4	40.2	425	3137	8.55	.6	385	2702	.03	.86	.87	3.62	9.42	8.70
33	0855	2797.5	14.6	2.69	3.63	87	4.3	350	2788.6	9.30	9.35	184	184	31.7	39.6	423	3247	8.85	.6	363	2621	.03	.85	.86	3.62	9.42	8.70
34	0856	2797.8	10.1	2.73	3.47	88	6.2	350	2788.6	9.30	9.35	184	184	31.7	39.6	424	3401	9.16	.7	493	2548	.03	.99	1.00	3.62	9.43	8.70
35	0859	2798.1	7.49	2.67	3.33	88	5.6	360	2788.6	9.30	9.35	183	183	31.7	39.6	422	3614	9.46	.7	1093	2486	.03	1.02	1.04	3.62	9.43	8.70
36	0903	2798.4	4.59	2.27	2.76	89	5.9	350	2788.6	9.30	9.35	183	183	31.7	39.6	421	3958	9.77	.8	1036	2442	.04	1.13	1.14	3.62	9.43	8.70
37	0904	2798.8	2.14	2.37	2.38	90	8.1	350	2788.6	9.31	9.34	183	183	32.0	39.1	421	4050	10.2	.8	1085	2433	.04	1.37	1.38	3.62	9.43	8.70
38	0908	2799.3	7.28	2.54	3.90	88	6.6	353	2788.6	9.31	9.34	184	184	32.0	39.1	418	4400	10.7	.9	521	2274	.04	1.06	1.08	3.62	9.43	8.70
39	0910	2799.6	9.60	2.64	3.42	88	6.4	350	2788.6	9.31	9.34	184	184	32.0	39.1	418	4566	11.0	.9	512	2225	.04	1.00	1.02	3.62	9.43	8.70
40	0924	2800.0	1.10	2.23	2.35	94	9.3	400	2788.6	9.28	9.52	200	200	32.7	39.4	411	5809	11.4	1.1	$	2243	.06	1.59	1.62	3.62	9.43	8.70
41	0933	2800.2	1.20	2.21	2.61	82	10.7	420	2788.6	9.29	9.55	196	196	33.0	39.8	407	6616	11.6	1.3	1207	2276	.06	1.57	1.59	3.62	9.43	8.70
42	0952	2800.5	1.72	2.18	2.71	91	10.3	380	2788.6	9.25	9.58	182	182	33.7	40.1	400	8317	11.9	1.6	2457	2360	.08	1.50	1.51	3.62	9.42	8.70
43	0957	2800.8	4.25	2.56	5.31	89	9.1	340	2788.6	9.25	9.58	187	187	33.7	40.1	396	8772	12.2	1.7	1147	2325	.08	1.26	1.27	3.62	9.43	8.70
44	0959	2801.1	11.2	3.26	4.27	88	9.9	350	2788.6	9.25	9.58	188	188	33.7	40.1	395	8905	12.5	1.7	404	2279	.08	1.07	1.09	3.62	9.43	8.70
45	1001	2801.4	8.62	3.45	5.30	86	10.2	350	2788.6	9.22	9.62	189	189	33.8	39.7	396	9087	12.8	1.7	530	2238	.09	1.13	1.15	3.63	9.43	8.70
46	1002	2801.7	19.5	3.32	4.68	87	9.3	330	2788.6	9.22	9.62	188	188	33.8	39.7	396	9172	13.1	1.8	282	2193	.09	.94	.95	3.63	9.43	8.70
47	1003	2802.0	15.9	3.02	4.18	88	10.9	320	2788.6	9.22	9.62	177	177	33.8	39.7	395	9266	13.4	1.8	311	2150	.09	1.02	1.03	3.63	9.43	8.70
48	1018	2802.4	16.5	2.46	3.25	80	8.1	220	2788.6	9.22	9.62	138	138	33.8	39.7	397	9333	13.7	1.8	301	2117	.09	.92	.95	3.63	9.42	8.70
49	1024	2802.6	6.14	3.03	6.07	56	9.4	330	2788.6	9.20	9.62	183	183	34.0	39.2	394	9692	14.0	1.9	$	2091	.09	1.09	1.15	3.63	9.43	8.70
50	1025	2802.9	13.8	2.71	3.61	88	5.5	340	2788.6	9.20	9.62	184	184	34.0	39.2	391	9808	14.3	1.9	627	2058	.09	.90	.91	3.63	9.43	8.70
51	1026	2803.3	16.6	2.71	3.06	88	4.9	330	2788.6	9.20	9.62	184	184	34.0	39.2	389	9904	14.6	1.9	294	2019	.09	.85	.86	3.63	9.43	8.70
52	1028	2803.6	12.4	2.72	3.29	88	5.8	330	2788.6	9.20	9.62	184	184	34.0	39.2	390	10032	14.9	1.9	477	1986	.10	.94	.95	3.63	9.43	8.70
53	1029	2803.9	13.9	2.92	3.68	88	6.4	330	2788.6	9.20	9.62	184	184	34.0	39.2	390	10146	15.3	1.9	339	1952	.10	.93	.94	3.63	9.43	8.70
54	1031	2804.2	14.4	2.91	3.31	88	5.9	330	2788.6	9.20	9.62	184	184	34.0	39.2	390	10258	15.5	2.0	372	1926	.10	.91	.92	3.63	9.43	8.70
55	1032	2804.5	18.6	2.73	3.61	88	5.0	330	2788.6	9.20	9.62	184	184	34.0	39.2	389	10343	15.9	2.0	273	1889	.10	.83	.84	3.63	9.44	8.70
56	1033	2804.8	15.3	2.98	3.70	88	5.0	340	2788.6	9.20	9.64	184	184	34.1	38.6	387	10447	16.2	2.0	318	1858	.10	.87	.88	3.63	9.43	8.70
57	1034	2805.1	21.3	2.99	3.70	88	6.1	350	2788.6	9.20	9.64	183	183	34.1	38.6	385	10522	16.5	2.0	242	1831	.10	.84	.85	3.63	9.43	8.70
58	1035	2805.4	15.9	3.02	3.71	89	5.4	340	2788.6	9.20	9.64	184	184	34.1	38.6	386	10620	16.8	2.0	291	1807	.10	.87	.88	3.63	9.44	8.70
59	1036	2805.7	16.6	3.00	3.85	88	6.0	340	2788.6	9.20	9.64	183	183	34.1	38.6	386	10715	17.1	2.1	288	1776	.10	.88	.89	3.63	9.44	8.70
60	1037	2806.0	21.2	3.00	3.86	88	5.3	330	2788.6	9.20	9.64	184	184	34.1	38.6	386	10789	17.4	2.1	266	1753	.10	.82	.83	3.63	9.44	8.70
61	1038	2806.3	15.7	2.97	3.86	88	5.4	280	2788.6	9.20	9.64	175	175	34.1	38.6	387	10897	17.7	2.1	315	1723	.10	.88	.89	3.64	9.44	8.70
62	1039	2806.6	29.1	2.92	4.19	90	5.1	270	2788.6	9.20	9.64	165	165	34.1	38.6	385	10952	18.0	2.1	235	1699	.10	.75	.76	3.64	9.44	8.70
63	1041	2806.9	8.50	2.46	4.01	90	7.0	270	2788.6	9.20	9.64	164	164	34.1	38.6	383	11127	18.3	2.1	882	1677	.11	1.05	1.06	3.64	9.44	8.70
POOH to retrieve Core #2 at 2807.3m.																											
NB#15 SMITH F2 12.25" 3x14 jets. Start depth 2807.3m.																											
Ream rat-hole of Core #2 from 2788.6m.																											
Date Oct 6 '85																											
68	0142	2807.5	42.8	3.64	4.36	86	26.4	2910	2796.9	9.30	9.40	615	458	31.3	46.2	445	12041	.25	2.3	107	15+35	.11	.93	.93	3.64	9.40	8.70
69	0142	2807.8	65.6	3.71	3.95	86	37.6	2900	2797.0	9.30	9.40	615	450	31.3	46.2	445	12064	.57	2.3	73	57555	.11	.91	.91	3.64	9.40	8.70
70	0143	2808.1	21.4	3.50	5.17	86	38.9	2920	2797.1	9.30	9.40	616	489	31.3	46.2	446	12137	.87	2.3	216	35813	.11	1.24	1.24	3.64	9.40	8.70

AMOCO AUST. Tilana No.1 329209

Data Printed at time 23:10 Date Oct 9 85
Data Recorded at time 01:45 Date Oct 6 85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR
71	0145	2308.4	11.5	2.88	4.04	87	40.7	2910	2797.3	9.40	9.40	616	469	32.1	46.1	447	12271	1.18	2.3	526	26954	.11	1.44	1.44	3.64	9.40	8.70
72	0146	2308.7	15.9	2.84	3.41	87	40.8	2930	2797.4	9.40	9.40	616	438	32.1	46.1	446	12368	1.48	2.4	310	21615	.11	1.35	1.35	3.64	9.40	8.70
73	0147	2309.0	14.6	2.77	3.31	87	40.0	2920	2797.6	9.40	9.40	616	428	32.4	46.2	448	12477	1.77	2.4	314	18115	.11	1.37	1.37	3.64	9.40	8.70
74	0148	2309.3	13.4	2.84	3.45	87	41.1	2930	2797.7	9.40	9.40	617	458	32.4	46.2	446	12593	2.09	2.4	376	15358	.12	1.41	1.41	3.64	9.40	8.70
75	0150	2309.6	8.81	2.92	3.49	87	40.6	2920	2797.9	9.40	9.40	615	450	32.5	46.2	446	12772	2.37	2.4	444	13638	.12	1.52	1.52	3.64	9.40	8.70
76	0151	2310.0	15.6	2.98	3.37	87	41.1	2930	2798.1	9.40	9.40	616	482	32.5	46.2	447	12863	2.68	2.4	293	12072	.12	1.36	1.36	3.64	9.50	8.70
77	0152	2310.3	13.0	3.04	3.38	88	41.0	2930	2798.2	9.40	9.50	616	421	32.5	46.2	445	12951	2.98	2.5	294	10928	.12	1.32	1.32	3.64	9.50	8.70
78	0154	2310.6	14.4	2.97	3.62	89	39.8	2940	2798.3	9.40	9.50	617	414	32.7	46.1	445	13063	3.31	2.5	348	9806	.12	1.38	1.38	3.64	9.50	8.70
79	0155	2310.9	11.3	3.02	3.72	88	41.0	2930	2798.5	9.40	9.40	616	489	32.7	46.1	446	13201	3.61	2.5	367	9919	.12	1.46	1.46	3.64	9.50	8.70
80	0156	2311.2	20.2	2.99	3.61	88	40.2	2940	2798.6	9.35	9.40	615	441	33.0	46.1	446	13281	3.92	2.5	304	8448	.12	1.28	1.28	3.64	9.50	8.70
81	0157	2311.5	14.4	3.03	3.41	88	39.8	2950	2798.7	9.40	9.50	617	410	33.0	46.1	445	13391	4.22	2.5	447	7819	.12	1.37	1.37	3.64	9.50	8.70
82	0158	2311.8	19.4	3.06	3.43	88	41.2	2940	2798.8	9.40	9.50	616	336	33.0	46.1	444	13479	4.52	2.6	238	7310	.12	1.30	1.30	3.65	9.50	8.70
83	0200	2312.1	13.3	3.02	3.41	87	41.4	2940	2799.0	9.40	9.40	617	384	33.4	46.0	444	13597	4.83	2.6	343	6826	.13	1.41	1.41	3.64	9.50	8.70
84	0201	2312.4	15.7	3.02	3.43	88	40.1	2940	2799.1	9.40	9.40	616	406	33.4	46.0	445	13691	5.14	2.6	296	6441	.13	1.35	1.35	3.65	9.50	8.70
85	0202	2312.7	15.8	2.89	3.26	87	39.8	2960	2799.2	9.40	9.40	616	379	33.4	46.0	443	13791	5.44	2.6	357	6129	.13	1.34	1.34	3.65	9.50	8.70
86	0216	2313.0	14.5	2.78	3.47	87	34.2	2910	2800.4	9.44	9.54	611	534	35.4	45.8	451	13866	5.73	2.6	254	5869	.13	1.36	1.36	3.65	9.50	8.70
87	0217	2313.3	17.7	2.90	3.55	87	40.3	2960	2800.5	9.38	9.54	613	398	35.5	46.2	448	13954	6.04	2.7	258	5528	.13	1.31	1.31	3.65	9.50	8.70
88	0218	2313.6	12.5	2.88	3.58	88	41.1	2970	2800.7	9.38	9.54	615	367	35.5	46.2	445	14030	6.34	2.7	435	5277	.13	1.42	1.42	3.65	9.50	8.70
89	0221	2313.9	7.06	2.69	3.39	89	40.3	2980	2801.1	9.36	9.55	616	501	35.7	46.9	443	14107	6.66	2.7	300	5050	.13	1.58	1.58	3.65	9.50	8.70
90	0223	2314.2	8.92	2.72	3.32	88	39.9	2980	2801.4	9.34	9.56	615	395	36.7	46.1	441	14187	6.97	2.8	569	4874	.13	1.51	1.51	3.65	9.50	8.70
91	0225	2314.5	6.80	2.74	3.47	88	40.9	2980	2801.8	9.34	9.56	615	423	36.7	46.1	439	14722	7.27	2.8	633	4683	.14	1.60	1.60	3.65	9.50	8.70
92	0230	2314.8	3.79	2.76	3.78	90	40.3	2980	2802.5	9.38	9.58	615	475	37.1	46.9	438	15153	7.58	2.9	1475	4566	.14	1.76	1.76	3.65	9.50	8.70
93	0231	2315.1	22.8	2.80	3.36	89	36.5	2980	2802.7	9.38	9.58	615	468	37.1	46.9	438	15224	7.88	2.9	225	4381	.14	1.20	1.20	3.65	9.50	8.70
94	0232	2315.4	20.1	3.13	3.91	88	39.2	2980	2802.8	9.36	9.59	616	441	37.3	47.1	437	15333	8.19	2.9	254	4228	.14	1.26	1.26	3.65	9.50	8.70
95	0233	2315.7	14.5	3.04	3.93	89	42.3	2990	2803.0	9.36	9.59	615	447	37.3	47.1	439	15437	8.49	2.9	334	4088	.14	1.39	1.39	3.65	9.45	8.70
96	0236	2316.1	7.19	2.77	3.72	92	41.6	2990	2803.4	9.39	9.61	616	459	37.4	47.1	438	15650	8.79	3.0	909	3986	.14	1.59	1.59	3.65	9.45	8.70
97	0239	2316.4	5.80	2.96	3.58	92	41.2	3000	2803.8	9.38	9.59	616	541	37.5	47.5	437	15917	9.10	3.0	785	3864	.15	1.65	1.65	3.65	9.45	8.70
98	0241	2316.7	6.75	2.83	3.54	91	40.3	3000	2804.2	9.39	9.61	616	488	37.5	47.7	435	16161	9.41	3.1	756	3764	.15	1.59	1.59	3.66	9.45	8.70
99	0244	2317.0	6.21	2.64	3.64	91	41.3	3000	2804.7	9.37	9.62	616	552	37.4	47.3	435	16426	9.71	3.1	765	3671	.15	1.63	1.62	3.65	9.40	8.70
100	0250	2317.3	3.32	2.67	3.60	89	42.5	3000	2805.5	9.35	9.60	615	501	37.2	47.9	433	16916	10.0	3.2	1231	3604	.16	1.82	1.81	3.66	9.40	8.70
101	0255	2317.6	3.74	2.61	3.77	90	43.8	3000	2806.2	9.34	9.62	615	532	37.3	48.2	431	17353	10.3	3.3	1233	3536	.16	1.80	1.80	3.66	9.40	8.70
102	0259	2317.9	3.69	2.54	3.43	91	43.8	2990	2806.9	9.33	9.66	615	531	36.4	48.1	429	17799	10.6	3.4	1338	3474	.16	1.80	1.80	3.66	9.40	8.70
103	0306	2318.2	2.80	2.62	3.59	92	42.1	2980	2808.0	9.38	9.60	615	534	36.7	48.6	429	18417	10.9	3.5	1599	3431	.17	1.86	1.86	3.66	9.40	8.70
104	0314	2318.5	2.34	2.68	3.64	90	43.5	2970	2809.1	9.38	9.70	615	607	36.1	48.7	427	19039	11.2	3.6	2349	3391	.18	1.92	1.92	3.66	9.39	8.70
105	0319	2318.8	3.36	2.57	3.22	91	44.8	2953	2809.9	9.41	9.64	615	594	36.6	49.3	424	19593	11.5	3.7	1623	3345	.18	1.84	1.83	3.66	9.40	8.70
106	0327	2319.1	2.45	2.75	3.87	99	46.1	2940	2811.0	9.42	9.60	615	625	36.7	49.4	421	20237	11.8	3.8	2413	3306	.19	1.94	1.93	3.66	9.42	8.70
107	0332	2319.4	3.40	2.61	3.44	89	43.5	2930	2811.8	9.42	9.52	616	601	36.3	49.6	419	20727	12.1	3.9	1794	3273	.19	1.80	1.80	3.66	9.44	8.70
108	0338	2319.7	3.18	2.79	3.64	88	44.7	2920	2812.0	9.43	9.51	616	621	36.6	49.9	418	21232	12.4	4.0	1634	3223	.20	1.83	1.83	3.66	9.46	8.70
109	0343	2320.0	3.62	2.71	3.45	89	44.4	2920	2812.8	9.44	9.54	616	616	36.7	49.8	416	21676	12.7	4.1	1457	3178	.20	1.79	1.78	3.66	9.47	8.70
110	0347	2320.3	4.32	2.92	3.94	88	45.1	2910	2813.4	9.44	9.52	615	620	36.9	49.7	414	22049	13.0	4.2	1331	3139	.20	1.74	1.74	3.66	9.47	8.70
111	0348	2320.6	13.6	2.94	4.09	88	41.5	2910	2813.5	9.44	9.52	615	619	36.9	49.7	414	22166	13.3	4.2	435	3075	.20	1.37	1.36	3.66	9.47	8.70
112	0350	2320.9	13.4	2.81	3.52	88	40.1	2920	2813.7	9.44	9.51	615	634	37.2	50.1	415	22284	13.7	4.2	347	3039	.21	1.36	1.35	3.66	9.47	8.70
113	0351	2321.2	9.76	2.79	3.50	88	44.6	2910	2813.8	9.44	9.51	614	626	37.2	50.1	412	22443	14.0	4.2	562	2953	.21	1.50	1.49	3.66	9.48	8.70
114	0356	2321.5	3.71	2.62	3.51	89	43.5	2910	2814.6	9.46	9.53	616	638	37.4	50.9	410	22380	14.3	4.3	1316	2917	.21	1.77	1.76	3.67	9.48	8.70
115	0402	2321.8	3.44	2.63	3.62	89	44.1	2910	2815.4	9.43	9.53	616	625	37.5	51.7	409	23355	14.6	4.4	1437	2991	.21	1.80	1.79	3.67	9.48	8.70
116	0411	2322.2	4.35	2.68	3.61	87	41.5	2890	2816.2	9.47	9.51	605	584	37.5	51.6	419	23677	14.9	4.5	1216	2849	.22	1.69	1.69	3.67	9.49	8.70
117	0414	2322.5	5.10	2.91	4.21	87	41.8	2900	2816.2	9.49	9.46	609	608	38.1	51.6	415	23740	15.2	4.5	1047	2796	.22	1.66	1.65	3.67	9.49	8.70
118	0419	2322.8	3.71	2.83	3.93	88	42.4	2890	2816.5	9.44	9.49	613	623	38.0	52.1	404	24137	15.5	4.6	777	2764	.22	1.75	1.74	3.67	9.49	8.70
119	0420	2323.1	16.9	3.14	4.58	87	40.9	2900	2816.6	9.41	9.49	613	631	37.6	51.8	403	24235	15.8	4.6	326	2719	.22	1.29	1.29	3.67	9.50	8.70
120	0421	2323.4	19.7	2.99	3.59	87	41.2	2900	2816.6	9.41	9.49	614	610	37.6	51.3	401	24308	16.1	4.6	252	2672	.22	1.25	1.25	3.67	9.50	8.70

ADCO ADJST. Tilana No.1 329210 Data Printed at time 23:14 Date Oct 9 '85
Data Recorded at time 04:22 Date Oct 6 '85 142

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR
121	0422	2823.7	15.8	2.95	3.55	88	39.8	2910	2816.7	9.41	9.49	614	616	37.6	51.8	401	24407	16.4	4.6	337	2628	.22	1.30	1.30	3.67	9.50	8.70
122	0423	2824.0	13.6	2.89	3.73	88	39.6	2910	2816.8	9.42	9.50	614	602	37.3	51.1	400	24522	16.7	4.6	311	2537	.23	1.34	1.34	3.67	9.51	8.70
123	0425	2824.3	12.6	2.73	3.39	89	39.6	2920	2816.9	9.42	9.50	614	604	37.3	51.1	401	24648	17.0	4.7	483	2548	.23	1.37	1.36	3.67	9.51	8.70
124	0428	2824.6	6.23	2.69	3.72	88	40.4	2920	2817.1	9.44	9.49	614	593	37.1	50.9	399	24901	17.3	4.7	1200	2516	.23	1.57	1.57	3.67	9.51	8.70
125	0431	2824.9	5.01	2.88	3.86	88	41.4	2920	2817.2	9.43	9.45	614	566	37.0	51.1	397	25220	17.6	4.8	1068	2491	.23	1.65	1.64	3.67	9.52	8.70
126	0437	2825.2	3.43	2.76	3.89	89	40.7	2930	2817.5	9.43	9.42	615	569	37.3	50.7	396	25633	17.9	4.8	1229	2471	.24	1.75	1.74	3.67	9.52	8.70
127	0441	2825.5	3.86	2.65	3.85	88	41.6	2930	2817.7	9.44	9.41	615	528	37.6	50.6	394	26094	18.2	4.9	1339	2451	.24	1.72	1.72	3.67	9.53	8.70
128	0447	2825.8	2.95	2.75	3.82	89	41.1	2950	2818.0	9.44	9.40	616	424	37.8	50.6	392	26654	18.5	5.0	1786	2442	.24	1.79	1.79	3.68	9.53	8.70
129	0453	2826.1	3.05	2.64	4.07	89	43.6	2950	2818.3	9.45	9.39	615	407	37.8	50.8	391	27185	18.8	5.1	2163	2432	.25	1.81	1.81	3.67	9.54	8.70
130	0458	2826.4	3.85	2.68	3.91	90	43.6	2940	2818.5	9.42	9.44	614	474	38.0	50.5	393	27603	19.2	5.2	1292	2407	.25	1.75	1.74	3.68	9.54	8.70
131	0508	2826.7	1.83	2.85	4.01	90	44.0	2940	2819.0	9.41	9.49	614	450	37.7	50.7	386	28459	19.4	5.4	4143	2413	.26	1.96	1.95	3.68	9.56	8.70
132	0514	2827.0	3.18	3.01	4.02	88	43.2	2940	2819.4	9.41	9.49	615	462	37.8	50.8	384	28964	19.8	5.5	1941	2402	.27	1.79	1.79	3.68	9.56	8.70
133	0515	2827.3	14.7	2.96	3.78	89	41.9	2950	2819.5	9.40	9.49	615	521	37.9	50.9	385	29076	20.1	5.5	338	2378	.27	1.34	1.34	3.68	9.56	8.70
134	0516	2827.6	15.0	2.98	3.63	89	38.8	2950	2819.8	9.40	9.49	614	508	37.9	50.9	383	29183	20.4	5.5	424	2345	.27	1.31	1.30	3.68	9.56	8.70
135	0517	2827.9	20.5	3.27	4.08	89	41.6	2940	2820.0	9.40	9.49	614	495	37.9	50.9	384	29261	20.7	5.5	241	2306	.27	1.24	1.24	3.68	9.56	8.70
136	0518	2828.2	20.5	3.08	3.60	89	41.5	2940	2820.2	9.40	9.49	614	494	37.9	50.9	384	29334	21.0	5.5	228	2276	.27	1.24	1.24	3.68	9.56	8.70
137	0518	2828.5	27.6	2.99	3.69	90	41.2	2950	2820.3	9.42	9.53	614	493	37.8	51.1	383	29393	21.3	5.5	177	2246	.27	1.16	1.15	3.68	9.56	8.70
138	0520	2828.8	15.7	2.84	3.72	89	44.5	2950	2820.4	9.42	9.53	614	493	37.8	51.1	382	29494	21.6	5.6	352	2221	.27	1.35	1.34	3.68	9.56	8.70
139	0523	2829.2	5.01	2.80	3.71	87	43.4	2940	2820.7	9.41	9.55	615	540	37.6	51.1	383	29679	21.9	5.6	1030	2201	.27	1.66	1.65	3.68	9.56	8.70
140	0524	2829.5	14.2	2.81	3.67	87	43.0	2930	2820.8	9.41	9.55	614	570	37.6	51.1	382	29921	22.2	5.6	374	2177	.27	1.35	1.35	3.68	9.56	8.70
141	0526	2829.8	14.8	3.09	3.55	88	43.8	2950	2820.9	9.41	9.55	614	548	37.6	51.1	381	30020	22.5	5.7	326	2152	.28	1.35	1.35	3.68	9.56	8.70
142	0526	2830.1	20.2	2.99	3.55	90	41.4	2960	2820.9	9.41	9.55	615	553	37.6	51.1	381	30100	22.8	5.7	246	2126	.28	1.25	1.24	3.68	9.56	8.70
143	0527	2830.4	25.5	2.95	3.37	89	41.7	2950	2821.0	9.41	9.55	615	538	37.6	51.1	381	30159	23.1	5.7	213	2106	.28	1.18	1.17	3.68	9.56	8.70
144	0528	2830.7	15.1	2.92	3.71	87	42.0	2960	2821.1	9.41	9.54	614	548	38.1	51.3	381	30267	23.4	5.7	390	2078	.28	1.33	1.32	3.69	9.56	8.70
145	0529	2831.0	16.8	3.00	3.66	88	43.0	2960	2821.1	9.41	9.54	616	557	38.1	51.3	380	30362	23.7	5.7	295	2054	.28	1.31	1.30	3.68	9.56	8.70
146	0530	2831.3	17.4	2.92	3.46	89	42.2	2940	2821.2	9.44	9.55	616	550	38.5	51.2	379	30453	24.0	5.7	300	2033	.28	1.30	1.29	3.69	9.56	8.70
+ Flow check at 2831.6m - negative.																											
148	0540	2831.6	22.4	2.87	3.35	90	40.4	2950	2821.5	9.43	9.54	614	536	39.0	51.1	388	30557	24.3	5.8	245	2014	.28	1.21	1.20	3.69	9.56	8.70
149	0540	2831.9	24.1	2.94	3.37	89	39.3	2940	2821.5	9.43	9.54	614	544	39.0	51.1	387	30582	24.6	5.8	237	1987	.28	1.17	1.17	3.69	9.56	8.70
150	0542	2832.2	8.73	3.14	4.23	88	42.5	2940	2821.7	9.44	9.57	613	553	40.0	51.4	382	30762	25.0	5.8	596	1969	.28	1.49	1.49	3.69	9.56	8.70
151	0544	2832.5	8.83	2.96	3.65	88	42.4	2930	2821.9	9.41	9.62	614	558	39.9	51.7	379	30947	25.2	5.8	589	1953	.28	1.49	1.48	3.69	9.56	8.70
152	0545	2832.8	17.8	3.06	4.06	89	41.6	2940	2822.0	9.41	9.62	614	566	39.9	51.7	378	31037	25.5	5.9	315	1934	.28	1.28	1.28	3.69	9.56	8.70
153	0548	2833.1	7.68	2.87	4.01	88	43.0	2940	2822.3	9.41	9.65	614	540	39.7	51.2	377	31242	25.8	5.9	746	1920	.29	1.54	1.53	3.69	9.56	8.70
154	0551	2833.4	5.24	2.82	4.58	88	42.1	2940	2823.1	9.41	9.65	614	595	39.7	51.5	375	31546	26.2	6.0	1001	1906	.29	1.64	1.63	3.69	9.55	8.70
155	0552	2833.7	17.6	2.97	3.55	87	40.4	2940	2823.4	9.41	9.65	614	573	39.7	51.5	375	31636	26.5	6.0	326	1889	.29	1.27	1.26	3.69	9.55	8.70
156	0553	2834.0	21.3	2.88	3.36	87	41.3	2930	2823.6	9.42	9.51	614	570	39.5	51.6	375	31702	26.8	6.0	225	1870	.29	1.22	1.22	3.69	9.55	8.70
157	0554	2834.3	13.5	2.91	3.59	87	43.1	2940	2823.7	9.42	9.51	614	579	39.5	51.6	374	31819	27.1	6.0	334	1853	.29	1.37	1.36	3.69	9.55	8.70
158	0557	2834.6	6.63	2.85	3.60	86	42.0	2950	2824.0	9.45	9.49	614	583	39.7	51.9	374	32054	27.4	6.0	786	1844	.29	1.56	1.56	3.69	9.55	8.70
159	0559	2835.0	8.19	2.98	3.84	90	42.4	2940	2824.3	9.44	9.50	615	571	39.8	51.7	374	32272	27.7	6.1	635	1827	.30	1.52	1.51	3.69	9.55	8.70
160	0601	2835.3	14.3	3.03	3.61	91	43.5	2940	2824.3	9.44	9.50	615	576	39.8	51.7	373	32377	28.0	6.1	375	1812	.30	1.37	1.36	3.69	9.55	8.70
161	0603	2835.6	6.79	2.94	4.20	90	42.3	2930	2824.4	9.46	9.51	613	600	40.0	52.3	373	32615	28.3	6.2	551	1798	.30	1.57	1.56	3.70	9.55	8.70
162	0605	2835.9	8.65	2.94	3.93	90	43.9	2940	2824.6	9.46	9.51	615	595	40.0	52.3	372	32787	28.6	6.2	543	1785	.30	1.52	1.51	3.69	9.55	8.70
163	0608	2836.2	8.04	2.84	3.80	87	42.1	2940	2824.8	9.45	9.53	614	572	40.1	52.1	371	33000	28.9	6.2	640	1773	.30	1.51	1.50	3.70	9.55	8.70
164	0609	2836.5	9.18	2.71	3.77	87	42.9	2930	2824.9	9.45	9.54	614	586	40.1	52.6	370	33159	29.2	6.3	523	1761	.30	1.48	1.47	3.70	9.55	8.70
165	0612	2836.8	7.13	2.98	3.65	87	42.5	2920	2825.0	9.46	9.54	614	572	40.1	52.7	369	33381	29.5	6.3	791	1749	.31	1.55	1.54	3.70	9.56	8.70
166	0614	2837.1	10.3	2.81	4.02	88	42.0	2940	2825.1	9.46	9.54	615	579	40.1	52.7	368	33545	29.8	6.3	539	1737	.31	1.44	1.43	3.70	9.56	8.70
167	0616	2837.4	3.54	2.83	3.70	88	43.7	2930	2825.2	9.45	9.56	614	586	40.0	52.7	366	33719	30.1	6.4	562	1724	.31	1.51	1.50	3.70	9.56	8.70
168	0619	2837.7	4.35	2.78	3.76	89	43.7	2940	2825.4	9.46	9.57	615	647	40.1	52.7	368	34050	30.4	6.4	812	1717	.31	1.68	1.67	3.70	9.56	8.70
169	0621	2838.0	9.28	2.86	3.62	89	42.2	2930	2825.5	9.47	9.61	615	621	40.5	52.7	366	34224	30.7	6.5	543	1705	.31	1.48	1.47	3.70	9.56	8.70
170	0625	2838.3	5.12	2.78	3.58	90	42.2	2930	2825.7	9.48	9.58	616	597	40.3	52.7	366	34542	31.0	6.5	933	1698	.32	1.65	1.64	3.70	9.56	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR
171	0629	2838.6	5.18	2.81	3.79	93	41.8	2930	2825.9	9.47	9.58	615	604	40.0	53.0	365	34859	31.4	6.6	965	1691	.32	1.64	1.63	3.70	9.56	8.70
172	0632	2838.9	5.11	2.73	3.39	90	43.3	2940	2826.0	9.46	9.57	614	595	39.6	53.0	363	35180	31.7	6.6	1032	1684	.32	1.66	1.65	3.70	9.56	8.70
173	0633	2839.2	13.7	2.95	3.74	91	41.4	2930	2826.1	9.47	9.56	615	599	39.5	53.2	362	35301	32.0	6.7	336	1672	.32	1.36	1.35	3.70	9.57	8.70
174	0634	2839.5	22.1	2.88	3.78	89	41.8	2940	2826.1	9.47	9.56	615	585	39.5	53.2	362	35377	32.3	6.7	278	1660	.32	1.22	1.22	3.70	9.57	8.70
175	0635	2839.8	14.2	3.08	3.88	88	42.3	2940	2826.1	9.47	9.56	615	582	39.5	53.2	362	35483	32.6	6.7	355	1646	.32	1.35	1.34	3.70	9.57	8.70
176	0637	2840.1	10.9	2.86	3.97	88	42.8	2930	2826.1	9.44	9.54	615	612	39.3	53.3	361	35628	32.9	6.7	400	1635	.33	1.43	1.42	3.70	9.57	8.70
177	0639	2840.4	8.32	2.89	3.84	88	43.8	2950	2826.3	9.50	9.56	615	593	39.1	52.9	361	35824	33.2	6.8	696	1626	.33	1.52	1.51	3.71	9.57	8.70
178	0640	2840.7	16.1	2.98	3.64	89	41.6	2940	2826.3	9.50	9.56	615	604	39.1	52.9	360	35921	33.5	6.8	300	1613	.33	1.31	1.30	3.70	9.58	8.70
179	0650	2841.7	19.3	3.07	3.71	92	41.0	2910	2827.8	9.52	9.55	611	553	39.8	53.1	365	36111	34.4	6.8	170	1576	.33	1.26	1.25	3.71	9.58	8.70
180	0651	2842.0	14.5	3.15	3.67	91	42.4	2910	2828.2	9.52	9.55	611	597	39.8	53.1	362	36225	34.7	6.8	278	1565	.33	1.35	1.35	3.71	9.58	8.70
181	0653	2842.3	12.3	3.08	3.79	92	41.3	2910	2828.4	9.51	9.58	611	595	38.8	53.3	362	36356	35.0	6.9	359	1555	.33	1.38	1.37	3.71	9.58	8.70
182	0654	2842.6	9.79	2.88	3.55	93	41.1	2910	2828.5	9.51	9.58	611	594	38.8	53.3	362	36527	35.3	6.9	515	1546	.33	1.46	1.45	3.71	9.58	8.70
183	0655	2842.9	26.4	3.12	3.46	92	40.8	2890	2828.7	9.51	9.59	610	599	38.6	53.1	361	36590	35.6	6.9	191	1534	.33	1.17	1.16	3.71	9.58	8.70
184	0656	2843.2	13.6	3.07	3.65	92	40.7	2900	2829.0	9.51	9.59	609	593	38.6	53.1	362	36714	35.9	6.9	591	1525	.34	1.36	1.35	3.71	9.58	8.70
185	0658	2843.5	13.5	3.02	3.38	92	40.1	2910	2829.4	9.51	9.59	610	616	38.6	53.1	359	36823	36.2	6.9	343	1514	.34	1.35	1.34	3.71	9.58	8.70
186	0659	2843.8	15.1	3.10	3.79	92	41.4	2910	2829.7	9.48	9.58	610	596	38.2	52.3	359	36929	36.5	7.0	312	1504	.34	1.33	1.32	3.71	9.59	8.70
187	0700	2844.1	11.3	3.01	3.49	92	40.5	2900	2830.3	9.48	9.58	611	579	38.2	52.3	359	37089	36.8	7.0	563	1496	.34	1.41	1.40	3.71	9.59	8.70
188	0701	2844.4	14.5	3.11	3.74	91	40.9	2900	2830.5	9.48	9.57	611	592	37.5	52.7	353	37171	37.1	7.0	259	1486	.34	1.34	1.33	3.71	9.59	8.70
189	0703	2844.7	13.9	3.19	3.54	92	41.8	2900	2830.8	9.48	9.57	611	571	37.5	52.7	358	37290	37.4	7.0	347	1476	.34	1.36	1.35	3.71	9.59	8.70
190	0704	2845.0	16.4	3.04	3.45	93	39.9	2900	2831.0	9.48	9.57	610	579	37.5	52.7	357	37386	37.7	7.0	306	1467	.34	1.30	1.29	3.71	9.59	8.70
191	0705	2845.3	20.0	3.10	3.82	92	40.5	2910	2831.1	9.49	9.53	610	579	37.2	53.2	357	37469	38.1	7.1	246	1457	.34	1.24	1.24	3.71	9.59	8.70
192	0705	2845.6	23.8	3.06	4.01	92	41.3	2910	2831.1	9.49	9.53	610	590	37.2	53.2	357	37542	38.4	7.1	218	1447	.34	1.20	1.19	3.72	9.60	8.70
193	0716	2845.9	3.06	2.86	4.16	90	39.5	2930	2832.5	9.50	9.54	612	591	37.3	53.1	355	38020	38.7	7.2	S	1447	.35	1.75	1.74	3.72	9.59	8.70
194	0719	2846.2	6.03	2.65	3.86	88	41.1	2930	2832.9	9.50	9.54	613	565	37.3	53.1	353	38284	39.0	7.2	1150	1443	.35	1.58	1.57	3.72	9.60	8.70
195	0722	2846.5	4.81	2.73	3.80	88	42.8	2940	2833.4	9.48	9.59	612	534	36.1	53.1	350	38596	39.3	7.3	1218	1439	.35	1.66	1.65	3.72	9.60	8.70
196	0727	2846.8	3.83	2.74	3.83	89	42.5	2930	2834.3	9.46	9.59	612	567	36.0	53.1	349	39035	39.6	7.4	1143	1438	.35	1.72	1.71	3.72	9.60	8.70
197	0730	2847.1	6.36	2.73	3.75	87	41.2	2930	2834.7	9.47	9.57	612	600	36.0	53.2	348	39273	39.9	7.4	755	1433	.36	1.56	1.55	3.72	9.60	8.70
198	0733	2847.5	6.62	2.70	3.69	87	41.6	2930	2835.2	9.47	9.61	611	592	36.0	53.0	345	39513	40.2	7.4	776	1428	.36	1.55	1.54	3.72	9.60	8.70
199	0736	2847.7	6.43	2.80	3.89	89	42.3	2930	2835.6	9.45	9.59	613	580	35.8	53.4	341	39755	40.5	7.5	817	1423	.36	1.57	1.56	3.72	9.61	8.70
200	0739	2848.1	5.72	2.72	3.79	89	43.5	2930	2836.0	9.47	9.57	611	586	35.4	53.4	341	40039	40.8	7.5	920	1419	.37	1.62	1.61	3.72	9.61	8.70
201	0747	2848.4	2.36	2.60	3.52	88	42.1	2930	2837.1	9.42	9.61	613	553	35.7	53.4	346	40734	41.1	7.7	2247	1424	.37	1.85	1.84	3.72	9.61	8.70
202	0751	2848.7	4.19	2.77	3.82	87	43.3	2930	2837.6	9.44	9.62	612	598	35.2	53.7	353	41104	41.4	7.7	1133	1422	.38	1.70	1.69	3.72	9.61	8.70
203	0755	2849.0	4.96	2.81	3.57	87	41.4	2920	2838.0	9.41	9.63	612	599	36.5	53.8	357	41431	41.7	7.8	1098	1420	.38	1.63	1.62	3.72	9.61	8.70
204	0756	2849.3	12.7	2.95	3.70	87	42.0	2930	2838.1	9.41	9.63	612	599	36.5	53.8	358	41554	42.0	7.8	384	1412	.38	1.37	1.36	3.72	9.61	8.70
205	0758	2849.6	9.51	2.74	3.64	87	41.9	2930	2838.3	9.43	9.66	612	584	36.7	53.6	359	41719	42.3	7.9	595	1406	.38	1.45	1.44	3.72	9.61	8.70
206	0803	2849.9	3.91	2.68	3.65	87	40.4	2930	2838.7	9.45	9.62	611	589	36.8	53.6	364	42123	42.6	7.9	1416	1405	.38	1.69	1.68	3.72	9.61	8.70
207	0814	2850.2	1.56	2.79	3.75	87	43.8	2920	2840.8	9.43	9.64	612	620	38.0	53.9	330	43153	42.9	8.1	2912	1418	.39	2.00	1.99	3.73	9.59	8.70
208	0822	2850.5	2.41	2.62	3.51	90	44.6	2920	2842.3	9.44	9.55	612	615	38.6	53.5	383	43829	43.2	8.3	2319	1422	.40	1.39	1.88	3.73	9.58	8.70
209	0825	2850.8	2.07	2.52	2.92	90	43.9	2930	2843.1	9.44	9.55	612	641	38.6	53.5	394	44101	43.5	8.3	2265	1418	.40	1.93	1.91	3.73	9.58	8.70
210	0834	2851.1	2.60	2.57	4.15	89	41.8	2920	2844.7	9.52	9.60	607	568	39.4	53.4	419	44411	43.8	8.4	2115	1415	.41	1.83	1.82	3.73	9.57	8.70
211	0835	2851.4	5.80	2.72	3.55	88	36.9	2930	2845.0	9.53	9.59	612	596	40.5	53.6	415	44512	44.2	8.4	1495	1407	.41	1.69	1.68	3.73	9.57	8.70
212	0837	2852.0	5.02	3.08	3.82	87	41.9	2920	2845.3	9.53	9.59	612	620	40.5	53.6	413	44629	44.7	8.4	1506	1392	.41	1.75	1.74	3.73	9.57	8.70
213	0839	2852.3	8.02	2.86	3.54	89	40.2	2920	2845.7	9.49	9.60	613	617	39.6	53.6	411	44851	45.1	8.5	1320	1386	.41	1.49	1.48	3.73	9.57	8.70
214	0845	2852.6	3.02	2.83	3.72	88	41.5	2910	2845.8	9.46	9.59	613	641	39.0	52.6	412	45383	45.4	8.6	1596	1387	.41	1.78	1.77	3.73	9.57	8.70
215	0853	2852.9	2.35	2.79	3.92	87	42.3	2910	2846.5	9.48	9.54	612	630	38.7	53.1	417	46063	45.7	8.7	2208	1392	.42	1.87	1.86	3.73	9.57	8.70
216	0859	2853.3	3.17	2.92	3.95	87	42.3	2910	2847.1	9.48	9.53	612	619	38.6	53.5	426	46607	46.0	8.8	1435	1395	.42	1.78	1.77	3.73	9.57	8.70
217	0900	2853.6	22.3	2.89	3.96	88	40.0	2900	2847.2	9.48	9.53	612	630	38.6	53.5	426	46679	46.3	8.8	282	1387	.42	1.20	1.19	3.73	9.57	8.70
218	0901	2853.9	16.1	3.05	3.63	88	41.0	2900	2847.3	9.49	9.53	612	629	38.6	53.2	427	46768	46.6	8.8	282	1380	.43	1.30	1.29	3.73	9.57	8.70
219	0902	2854.1	14.6	3.18	3.60	87	42.1	2920	2847.4	9.49	9.53	612	610	38.6	53.2	427	46860	46.9	8.8	315	1373	.43	1.34	1.33	3.73	9.57	8.70
220	0904	2854.5	12.2	3.01	3.76	87	41.7	2910	2847.6	9.49	9.53	612	616	38.6	53.2	423	46988	47.2	8.9	422	1367	.43	1.39	1.37	3.73	9.57	8.70

AMOCO AUST. Tilana No.1 329212 Data Printed at time 23:22 Date Oct 9 '85 Data Recorded at time 09:06 Date Oct 6 '85 144

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TV	DXC	MX	MXB	ECD	EST FM PR
221	0906	2354.3	7.69	2.89	4.31	87	41.1	2910	2347.9	9.50	9.52	612	605	38.4	53.3	430	47193	47.5	8.9	608	1362	.43	1.51	1.50	3.73	9.57	8.70
222	0908	2355.1	9.28	3.03	3.99	87	41.2	2910	2348.0	9.49	9.50	611	602	38.4	53.3	430	47364	47.8	8.9	490	1357	.43	1.46	1.44	3.74	9.57	8.70
223	0909	2355.4	18.4	2.88	3.27	87	39.1	2920	2348.1	9.49	9.50	612	629	38.4	53.3	432	47454	48.1	8.9	285	1350	.43	1.24	1.23	3.74	9.57	8.70
224	0913	2355.7	3.97	2.72	3.92	87	43.0	2900	2348.2	9.49	9.47	612	616	38.3	53.3	434	47827	48.4	9.0	1944	1349	.44	1.72	1.71	3.74	9.57	8.70
225	0916	2356.0	6.28	2.96	4.30	87	41.9	2910	2348.4	9.49	9.47	611	608	38.3	53.3	435	48090	48.7	9.1	952	1346	.44	1.57	1.56	3.74	9.57	8.70
226	0918	2356.3	10.5	2.94	3.67	87	40.9	2910	2348.5	9.49	9.47	612	625	38.2	53.3	437	48233	49.0	9.1	429	1340	.44	1.42	1.40	3.74	9.57	8.70
227	0921	2356.6	5.87	2.84	3.76	87	41.6	2920	2348.7	9.49	9.52	612	626	38.1	52.9	439	48511	49.3	9.2	1834	1337	.44	1.59	1.58	3.74	9.58	8.70
228	0925	2356.9	4.86	2.77	3.93	87	42.7	2920	2349.2	9.48	9.52	612	629	38.0	52.9	439	48823	49.6	9.2	942	1335	.44	1.66	1.64	3.74	9.58	8.70
229	0931	2357.2	2.78	2.76	3.83	87	42.8	2910	2349.9	9.52	9.52	612	609	37.6	53.2	444	49409	49.9	9.3	1904	1338	.45	1.82	1.81	3.74	9.58	8.70
230	0937	2357.5	3.31	2.69	3.71	87	40.8	2910	2350.1	9.49	9.50	612	609	37.3	53.0	449	49887	50.2	9.4	1656	1340	.45	1.74	1.73	3.74	9.58	8.70
231	0940	2357.8	5.55	2.70	3.84	87	41.3	2910	2350.2	9.48	9.48	613	608	37.3	52.8	454	50171	50.6	9.5	873	1337	.46	1.60	1.59	3.74	9.59	8.70
232	0944	2358.1	4.94	2.82	3.76	87	41.7	2920	2350.3	9.47	9.46	612	605	37.4	52.7	461	50483	50.9	9.5	1091	1335	.46	1.64	1.63	3.74	9.59	8.70
233	0947	2358.4	5.01	2.84	3.85	87	42.9	2920	2350.5	9.43	9.44	612	609	37.4	52.8	469	50803	51.2	9.6	1027	1333	.46	1.65	1.63	3.74	9.59	8.70
234	0950	2358.7	7.56	2.57	3.49	87	41.6	2930	2350.6	9.44	9.45	613	604	37.4	53.1	471	51012	51.5	9.6	658	1329	.46	1.51	1.50	3.74	9.60	8.70
235	0957	2359.0	2.67	2.65	3.71	87	40.7	2920	2351.8	9.41	9.47	612	597	37.8	52.7	468	51601	51.8	9.7	3491	1332	.47	1.80	1.79	3.74	9.60	8.70
236	1003	2359.3	2.70	2.80	3.79	87	40.8	2910	2353.0	9.40	9.46	611	597	37.6	53.0	465	52191	52.1	9.9	1957	1335	.47	1.80	1.78	3.74	9.59	8.70
237	1009	2359.6	3.56	3.27	5.03	87	41.8	2910	2353.5	9.41	9.51	613	597	37.6	52.5	463	52639	52.4	9.9	1553	1337	.43	1.73	1.72	3.75	9.59	8.70
238	1010	2359.9	11.0	2.93	4.33	86	40.2	2920	2353.6	9.41	9.51	612	603	37.6	52.5	463	52783	52.7	10.0	453	1331	.43	1.39	1.38	3.75	9.59	8.70
239	1011	2360.2	25.5	2.88	3.27	87	40.1	2910	2353.6	9.39	9.48	612	606	37.5	52.6	461	52845	53.0	10.0	259	1324	.43	1.16	1.15	3.75	9.59	8.70
240	1018	2360.5	17.1	2.87	3.61	87	41.0	2930	2353.8	9.40	9.46	608	586	37.7	52.6	473	52962	53.3	10.0	305	1319	.43	1.28	1.27	3.75	9.59	8.70
241	1020	2361.2	19.7	3.06	3.30	87	40.8	2920	2353.9	9.43	9.46	612	588	37.7	52.6	468	53058	53.9	10.0	235	1305	.43	1.24	1.22	3.75	9.59	8.70
242	1021	2361.5	10.0	2.89	3.56	87	40.5	2910	2353.9	9.40	9.49	613	608	38.5	52.6	462	53212	54.2	10.1	859	1301	.43	1.42	1.41	3.75	9.59	8.70
243	1022	2361.8	20.0	2.80	3.32	87	38.8	2920	2353.9	9.40	9.49	612	625	38.5	52.6	461	53295	54.5	10.1	281	1296	.43	1.21	1.20	3.75	9.59	8.70
244	1023	2362.1	18.7	3.00	3.38	87	40.4	2923	2354.0	9.40	9.49	612	619	38.5	52.6	458	53367	54.8	10.1	237	1289	.43	1.25	1.24	3.75	9.59	8.70
245	1024	2362.4	17.0	3.27	4.70	85	41.8	2910	2354.0	9.36	9.47	611	618	38.1	52.6	457	53458	55.1	10.1	286	1284	.43	1.28	1.27	3.75	9.58	8.70
246	1025	2362.7	20.8	3.07	4.38	86	40.6	2930	2354.0	9.36	9.47	611	591	38.1	52.6	457	53533	55.4	10.1	229	1278	.49	1.22	1.20	3.75	9.59	8.70
247	1027	2363.0	10.8	3.04	4.67	86	39.3	2910	2354.1	9.36	9.47	612	603	38.1	52.6	456	53630	55.7	10.1	452	1274	.49	1.39	1.38	3.75	9.59	8.70
248	1028	2363.3	21.3	3.02	3.59	86	40.5	2920	2354.3	9.35	9.47	612	623	37.8	52.5	456	53750	56.0	10.2	218	1268	.49	1.21	1.20	3.75	9.59	8.70
249	1029	2363.6	11.4	2.89	3.65	86	41.7	2910	2354.7	9.35	9.47	612	617	37.8	52.5	456	53884	56.3	10.2	605	1263	.49	1.40	1.38	3.75	9.59	8.70
250	1031	2363.9	12.8	2.83	3.83	86	41.1	2910	2355.0	9.36	9.48	611	610	37.5	52.9	455	54006	56.6	10.2	405	1258	.49	1.36	1.35	3.75	9.58	8.70
251	1033	2364.2	7.80	3.14	7.14	82	40.3	2910	2355.5	9.36	9.48	612	614	37.5	52.9	454	54200	57.0	10.2	556	1255	.49	1.48	1.46	3.76	9.58	8.70
252	1034	2364.5	23.6	2.92	3.76	87	39.4	2910	2355.6	9.38	9.47	612	607	37.5	53.2	454	54267	57.3	10.3	217	1250	.49	1.18	1.16	3.76	9.58	8.70
253	1035	2364.8	17.0	2.97	3.35	89	40.9	2900	2355.8	9.38	9.47	612	621	37.5	53.2	453	54364	57.6	10.3	301	1245	.49	1.29	1.27	3.76	9.58	8.70
254	1035	2365.1	24.5	2.94	3.52	88	41.5	2910	2355.9	9.38	9.47	612	620	37.5	53.2	454	54429	57.9	10.3	189	1239	.49	1.19	1.17	3.76	9.58	8.70
255	1037	2365.4	12.7	2.85	3.47	89	38.6	2910	2356.1	9.37	9.50	611	613	37.6	53.1	452	54553	58.2	10.3	571	1235	.49	1.35	1.33	3.76	9.58	8.70
256	1038	2365.7	17.7	3.08	3.65	89	40.2	2900	2356.3	9.37	9.50	612	600	37.6	53.1	452	54644	58.5	10.3	291	1230	.49	1.27	1.26	3.76	9.58	8.70
257	1039	2366.0	18.2	3.80	4.21	89	39.0	2900	2356.4	9.37	9.50	611	594	37.6	53.1	453	54730	58.8	10.3	238	1225	.50	1.25	1.23	3.76	9.58	8.70
258	1040	2366.3	18.7	4.60	5.66	88	39.4	2870	2356.6	9.37	9.50	610	590	37.6	53.1	453	54837	59.1	10.4	251	1220	.50	1.24	1.23	3.76	9.58	8.70
259	1041	2366.6	13.8	3.77	4.45	87	39.1	2900	2356.7	9.38	9.48	610	604	37.7	53.2	453	54922	59.4	10.4	354	1216	.50	1.32	1.31	3.76	9.58	8.70
260	1042	2366.9	16.9	3.87	4.50	87	38.5	2900	2356.8	9.38	9.48	610	623	37.7	53.2	453	55015	59.7	10.4	237	1211	.50	1.26	1.25	3.76	9.58	8.70
261	1044	2367.3	10.7	3.64	3.95	87	39.6	2910	2357.0	9.38	9.48	611	607	37.7	53.2	451	55161	60.0	10.4	741	1207	.50	1.40	1.39	3.76	9.58	8.70
262	1045	2367.6	14.4	3.44	3.86	87	39.1	2900	2357.1	9.38	9.48	611	623	37.7	53.2	452	55273	60.3	10.5	372	1203	.50	1.31	1.30	3.76	9.58	8.70
263	1046	2367.9	15.0	3.48	3.91	87	37.7	2910	2357.2	9.38	9.45	611	645	37.7	53.3	451	55377	60.6	10.5	337	1198	.50	1.28	1.27	3.76	9.58	8.70
264	1047	2368.2	21.9	3.52	3.89	87	38.7	2900	2357.3	9.38	9.45	611	640	37.7	53.3	450	55444	60.9	10.5	226	1193	.50	1.19	1.18	3.76	9.57	8.70
265	1048	2368.5	16.1	3.51	3.81	87	37.8	2910	2357.4	9.38	9.45	611	627	37.7	53.3	449	55534	61.2	10.5	322	1189	.50	1.27	1.25	3.76	9.57	8.70
266	1049	2368.8	14.9	3.73	4.09	87	38.1	2900	2357.5	9.38	9.45	611	623	37.7	53.3	450	55640	61.5	10.5	328	1184	.50	1.29	1.28	3.76	9.57	8.70
267	1051	2369.1	10.9	3.58	3.87	87	38.0	2900	2357.6	9.39	9.43	612	641	37.5	53.6	448	55794	61.8	10.6	796	1181	.51	1.38	1.36	3.77	9.57	8.70
268	1052	2369.4	12.7	3.63	4.01	87	38.0	2900	2357.7	9.39	9.43	611	639	37.5	53.6	448	55908	62.1	10.6	383	1177	.51	1.33	1.32	3.77	9.57	8.70
269	1054	2369.7	11.0	3.78	4.03	87	38.0	2900	2357.8	9.39	9.45	612	626	36.9	53.0	447	56052	62.4	10.6	501	1174	.51	1.37	1.36	3.77	9.57	8.70
270	1103	2370.0	18.6	3.06	3.30	90	37.0	2890	2358.1	9.39	9.45	604	577	36.7	53.6	460	56172	62.7	10.6	282	1170	.51	1.23	1.21	3.77	9.56	8.70

AMOCO AUST. Tilana No.1 329213

Data Printed at time 23:26 Date Oct 9
Data Recorded at time 11:04 Date Oct 6

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	BST TJ	DXC	MX	MXB	ECD	EST FM PR
271	1104	2370.3	17.3	2.95	3.36	92	36.9	2380	2358.2	9.40	9.42	610	617	38.0	53.6	454	56266	63.0	10.6	234	1165	.51	1.25	1.24	3.77	9.56	8.70
272	1106	2370.6	7.37	2.62	3.08	92	38.8	2390	2358.3	9.40	9.42	611	632	38.0	53.6	447	56490	63.4	10.7	396	1163	.51	1.51	1.50	3.77	9.56	8.70
273	1109	2370.9	6.83	2.75	3.40	92	38.2	2390	2358.4	9.35	9.44	609	655	37.4	53.6	444	56733	63.7	10.7	696	1161	.51	1.52	1.51	3.77	9.56	8.70
274	1110	2371.2	22.0	2.91	3.36	90	37.3	2390	2358.4	9.35	9.46	610	632	36.9	53.0	441	56808	64.0	10.7	240	1157	.51	1.19	1.17	3.77	9.56	8.70
275	1111	2371.5	15.6	2.83	3.35	91	35.8	2390	2358.6	9.35	9.46	610	594	36.9	53.0	440	56915	64.3	10.8	353	1153	.51	1.27	1.25	3.77	9.56	8.70
276	1112	2371.8	18.8	2.86	3.26	91	38.4	2390	2358.6	9.35	9.46	610	579	36.9	53.0	440	56998	64.6	10.8	245	1149	.52	1.24	1.23	3.77	9.56	8.70
277	1114	2372.1	8.88	3.34	4.49	92	38.0	2370	2358.8	9.37	9.44	607	610	36.9	53.4	438	57191	64.9	10.8	666	1146	.52	1.45	1.43	3.77	9.55	8.70
278	1115	2372.4	14.6	4.27	4.62	92	38.1	2370	2358.9	9.37	9.44	608	624	36.9	53.4	436	57302	65.2	10.8	334	1142	.52	1.31	1.30	3.77	9.55	8.70
279	1118	2372.7	6.72	4.01	4.49	92	37.6	2380	2359.2	9.35	9.45	609	608	37.2	53.6	440	57551	65.5	10.9	427	1140	.52	1.52	1.51	3.77	9.55	8.70
280	1119	2373.1	15.6	4.20	4.58	92	39.0	2360	2359.3	9.35	9.45	608	596	37.2	53.6	440	57659	65.8	10.9	353	1136	.52	1.31	1.29	3.77	9.55	8.70
281	1120	2373.4	18.6	4.34	4.68	92	38.8	2370	2359.4	9.42	9.44	607	622	37.5	53.8	440	57748	66.1	10.9	269	1132	.52	1.26	1.24	3.77	9.55	8.70
282	1121	2373.7	18.0	4.30	4.57	92	38.8	2370	2359.5	9.42	9.44	608	627	37.5	53.8	439	57839	66.4	10.9	273	1129	.52	1.26	1.25	3.78	9.55	8.70
283	1122	2374.0	14.0	4.37	4.59	93	40.3	2360	2359.6	9.42	9.44	607	621	37.5	53.8	438	57959	66.7	10.9	371	1125	.52	1.35	1.34	3.78	9.55	8.70
284	1123	2374.3	21.1	4.14	4.57	93	38.9	2370	2359.7	9.43	9.44	607	601	37.9	54.0	438	58038	67.0	11.0	236	1121	.53	1.22	1.21	3.78	9.55	8.70
285	1124	2374.6	15.5	4.24	4.65	92	39.7	2370	2359.7	9.43	9.44	608	651	37.9	54.0	437	58144	67.3	11.0	310	1117	.53	1.32	1.30	3.78	9.55	8.70
286	1125	2374.9	20.2	4.33	4.77	93	39.6	2370	2359.8	9.43	9.44	607	636	37.9	54.0	435	58227	67.6	11.0	253	1113	.53	1.24	1.22	3.78	9.55	8.70
287	1127	2375.2	12.0	4.26	4.48	93	41.0	2370	2359.8	9.41	9.44	608	649	38.0	53.8	434	58370	67.9	11.0	437	1110	.53	1.40	1.39	3.78	9.54	8.70
288	1128	2375.5	18.5	4.37	4.69	93	39.3	2370	2359.9	9.41	9.44	607	666	38.0	53.8	433	58461	68.2	11.0	268	1106	.53	1.27	1.25	3.78	9.54	8.70
289	1129	2375.8	12.0	4.43	4.79	92	38.6	2370	2360.0	9.41	9.44	607	675	38.0	53.8	431	58598	68.5	11.1	368	1103	.53	1.38	1.36	3.78	9.54	8.70
290	1131	2376.1	11.3	4.42	4.77	93	39.8	2370	2360.0	9.39	9.44	607	642	38.1	53.9	429	58735	68.8	11.1	420	1100	.53	1.41	1.39	3.78	9.54	8.70
291	1132	2376.4	13.8	4.14	4.47	92	39.4	2390	2360.1	9.39	9.44	608	642	38.1	53.9	427	58863	69.1	11.1	451	1097	.53	1.36	1.35	3.78	9.54	8.70
292	1133	2376.7	13.1	4.22	4.46	93	38.7	2380	2360.1	9.37	9.41	608	617	38.4	54.2	427	58991	69.5	11.1	380	1094	.53	1.35	1.34	3.78	9.54	8.70
293	1135	2377.0	12.8	4.17	4.56	92	39.7	2380	2360.2	9.37	9.41	608	575	38.4	54.2	427	59122	69.8	11.2	406	1091	.53	1.37	1.35	3.78	9.54	8.70
294	1137	2377.3	7.85	4.05	4.47	92	39.5	2380	2360.3	9.42	9.38	608	591	38.4	53.9	423	59332	70.1	11.2	627	1089	.54	1.50	1.49	3.78	9.54	8.70
295	1140	2377.6	5.88	3.86	4.23	92	40.8	2380	2360.5	9.42	9.39	608	594	38.2	53.9	426	59614	70.4	11.2	1103	1088	.54	1.60	1.58	3.78	9.54	8.70
296	1144	2377.9	5.33	3.95	4.48	92	39.4	2380	2361.0	9.43	9.39	608	599	38.2	54.0	428	59926	70.7	11.3	780	1087	.54	1.61	1.59	3.78	9.54	8.70
297	1145	2378.2	18.0	4.26	4.51	91	39.8	2380	2361.3	9.43	9.39	607	581	38.2	54.0	427	60019	71.0	11.3	345	1084	.54	1.27	1.26	3.79	9.54	8.70
298	1145	2378.5	25.4	4.32	4.61	92	37.9	2380	2361.4	9.43	9.39	607	585	38.2	54.0	427	60085	71.3	11.3	193	1080	.54	1.16	1.14	3.79	9.54	8.70
299	1146	2378.9	16.4	4.28	4.54	91	38.0	2390	2361.5	9.44	9.43	608	571	38.3	54.0	427	60184	71.6	11.4	302	1077	.54	1.28	1.26	3.79	9.54	8.70
300	1147	2379.1	18.6	4.19	4.66	92	38.5	2370	2361.6	9.44	9.43	608	603	38.3	54.0	427	60268	71.9	11.4	269	1073	.55	1.25	1.23	3.79	9.54	8.70
301	1202	19.40	87.4	3.11	3.59	88	35.9	2360	2363.4	9.41	9.42	514	382	39.0	54.3	436	60310	72.5	11.4	248	1065	.55	1.22	1.20	3.79	9.51	8.70
302	1203	2380.1	21.0	3.28	3.65	88	37.6	2390	2363.7	9.41	9.41	596	500	39.5	54.4	431	60386	72.8	11.4	225	1061	.55	1.20	1.18	3.79	9.53	8.70
303	1204	2380.4	15.0	3.09	3.65	87	39.1	2390	2364.0	9.41	9.41	606	549	39.5	54.4	427	60483	73.1	11.4	342	1058	.55	1.30	1.29	3.79	9.54	8.70
304	1206	2380.7	15.0	3.01	3.79	88	38.2	2390	2364.2	9.41	9.41	606	592	39.5	54.4	423	60594	73.4	11.4	337	1055	.55	1.30	1.28	3.79	9.54	8.70
305	1207	2381.0	14.7	3.08	3.34	88	38.7	2390	2364.5	9.38	9.45	607	593	39.4	53.8	419	60697	73.7	11.4	328	1052	.55	1.31	1.29	3.79	9.54	8.70
306	1208	2381.3	11.6	3.30	3.90	87	38.7	2390	2364.7	9.38	9.45	608	611	39.4	53.8	417	60832	74.0	11.5	383	1050	.55	1.37	1.36	3.79	9.54	8.70
307	1210	2381.6	11.8	2.92	3.65	89	38.2	2390	2365.0	9.38	9.45	608	620	39.4	53.8	414	60968	74.3	11.5	413	1047	.55	1.37	1.35	3.79	9.54	8.70
308	1211	2381.9	13.0	2.96	3.64	90	38.6	2380	2365.4	9.37	9.47	608	630	39.3	53.2	412	61095	74.6	11.5	380	1044	.55	1.35	1.33	3.79	9.54	8.70
309	1212	2382.2	17.1	3.01	3.65	91	37.8	2390	2365.7	9.37	9.47	608	638	39.3	53.2	411	61193	74.9	11.5	264	1041	.55	1.27	1.25	3.79	9.54	8.70
310	1214	2382.5	9.96	2.78	3.67	90	39.4	2390	2366.3	9.35	9.46	608	636	39.3	53.6	408	61354	75.2	11.6	629	1040	.55	1.43	1.41	3.79	9.54	8.70
311	1215	2382.8	20.8	3.04	3.51	90	38.1	2390	2366.5	9.35	9.46	608	620	39.3	53.6	408	61431	75.5	11.6	232	1036	.56	1.21	1.20	3.80	9.54	8.70
312	1217	2383.1	9.36	2.90	3.77	90	39.6	2390	2367.0	9.36	9.44	609	610	39.6	53.8	407	61607	75.8	11.6	575	1034	.56	1.45	1.43	3.80	9.54	8.70
313	1218	2383.4	12.4	2.77	3.59	90	38.5	2910	2367.4	9.36	9.44	609	602	39.6	53.8	407	61736	76.2	11.6	378	1031	.56	1.36	1.34	3.80	9.54	8.70
314	1220	2383.7	14.1	3.17	5.34	88	38.5	2900	2367.8	9.36	9.44	609	605	39.6	53.8	407	61848	76.4	11.7	352	1029	.56	1.32	1.30	3.80	9.54	8.70
315	1221	2384.0	16.1	3.02	3.66	89	38.6	2900	2368.1	9.37	9.44	610	615	39.5	54.1	406	61948	76.7	11.7	311	1026	.56	1.28	1.27	3.80	9.54	8.70
316	1222	2384.3	12.1	2.89	3.74	88	38.1	2900	2368.4	9.37	9.44	609	609	39.5	54.1	406	62077	77.0	11.7	434	1024	.56	1.35	1.34	3.80	9.54	8.70
317	1224	2384.6	10.3	2.79	3.60	88	38.4	2900	2368.8	9.37	9.45	609	620	39.4	54.4	404	62231	77.4	11.7	601	1021	.56	1.40	1.39	3.80	9.54	8.70
318	1225	2384.9	15.8	2.83	3.63	89	36.8	2900	2369.1	9.37	9.45	609	623	39.4	54.4	402	62334	77.7	11.8	316	1019	.56	1.27	1.26	3.80	9.54	8.70
319	1227	2385.2	8.34	2.77	3.79	90	39.7	2900	2369.7	9.38	9.44	608	634	39.6	54.4	396	62528	78.0	11.8	725	1017	.56	1.48	1.47	3.80	9.54	8.70
320	1230	2385.5	6.23	2.71	3.73	89	39.4	2900	2370.3	9.39	9.45	609	631	39.7	54.5	397	62787	78.3	11.8	975	1016	.57	1.56	1.54	3.80	9.54	8.70

AMOCO AUST. Tilana No.1 329214 Data Printed at time 23:30 Date Oct 9 '85
Data Recorded at time 12:34 Date Oct 6 '85 140

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TV	DXC	MX	MXB	ECD	EST FM PR
321	1234	2385.9	5.39	2.62	3.59	88	38.8	2890	2870.8	9.44	9.46	609	599	39.9	54.4	401	63082	78.6	11.9	972	1016	.57	1.56	1.55	3.80	9.54	8.70
322	1238	2386.2	3.91	2.73	3.61	87	38.7	2900	2871.1	9.44	9.45	609	595	40.0	54.4	403	63452	78.9	12.0	1191	1016	.57	1.67	1.66	3.80	9.54	8.70
323	1241	2386.5	5.81	2.58	3.46	83	37.5	2900	2871.6	9.44	9.45	609	605	40.0	54.4	407	63728	79.2	12.0	868	1016	.58	1.55	1.54	3.80	9.54	8.70
324	1244	2386.8	5.69	2.68	3.54	88	39.5	2900	2872.2	9.39	9.44	608	604	40.1	54.2	404	64006	79.5	12.1	897	1015	.58	1.58	1.57	3.80	9.53	8.70
325	1247	2387.1	6.79	2.70	3.51	88	39.3	2900	2872.9	9.38	9.41	609	635	40.0	54.8	415	64240	79.8	12.1	731	1014	.58	1.53	1.51	3.80	9.53	8.70
326	1249	2387.4	8.68	2.69	3.44	87	37.3	2900	2873.2	9.38	9.41	608	562	40.0	54.8	442	64436	80.1	12.2	496	1013	.58	1.43	1.42	3.81	9.53	8.70
327	1252	2387.7	6.34	2.69	3.51	88	38.7	2900	2873.7	9.44	9.43	609	586	40.3	54.8	456	64671	80.4	12.2	757	1012	.58	1.54	1.53	3.81	9.53	8.70
328	1255	2388.0	6.25	2.60	3.36	88	39.6	2890	2874.4	9.44	9.46	609	604	40.4	54.4	454	64927	80.7	12.3	749	1011	.59	1.56	1.54	3.81	9.53	8.70
329	1259	2388.3	4.11	2.53	3.57	87	39.4	2900	2875.7	9.41	9.49	609	606	40.4	54.3	451	65313	81.0	12.3	1188	1012	.59	1.67	1.65	3.81	9.53	8.70
330	1309	2388.6	5.36	2.64	3.43	91	37.5	2870	2877.4	9.39	9.50	595	623	40.3	54.2	459	65624	81.3	12.4	984	1012	.59	1.58	1.57	3.81	9.52	8.70
331	1312	2389.2	6.16	2.56	3.56	89	38.2	2860	2878.0	9.42	9.50	605	658	40.5	54.3	447	65901	81.9	12.4	577	1007	.59	1.55	1.53	3.81	9.53	8.70
332	1319	2389.5	3.03	2.53	3.46	89	39.3	2850	2878.6	9.36	9.53	605	607	40.5	53.7	434	66495	82.3	12.5	1418	1010	.60	1.76	1.75	3.81	9.53	8.70
333	1326	2389.8	2.27	2.62	3.75	89	40.0	2850	2880.1	9.34	9.47	605	643	40.4	54.4	427	67138	82.6	12.7	2363	1014	.61	1.85	1.83	3.81	9.52	8.70
334	1333	2390.1	2.60	2.65	3.75	88	37.9	2840	2881.2	9.33	9.46	605	633	40.0	54.0	420	67757	82.9	12.8	2072	1017	.61	1.78	1.76	3.81	9.52	8.70
335	1340	2390.4	2.83	2.53	3.86	88	40.1	2850	2882.8	9.37	9.53	605	606	39.8	54.3	417	68373	83.2	12.9	1932	1020	.62	1.79	1.77	3.81	9.51	8.70
336	1343	2390.7	5.01	2.82	3.80	87	39.9	2840	2883.6	9.37	9.48	606	554	39.7	54.1	417	68664	83.5	13.0	1138	1020	.62	1.63	1.61	3.81	9.51	8.70
337	1352	2391.1	2.27	2.68	3.94	87	40.6	2850	2885.4	9.35	9.46	605	631	39.0	54.3	409	69420	83.8	13.1	3151	1025	.62	1.86	1.84	3.81	9.49	8.70
338	1358	2391.3	2.72	2.68	3.91	87	40.6	2850	2886.4	9.34	9.45	605	635	39.7	53.9	406	69961	84.1	13.2	1814	1027	.63	1.81	1.79	3.81	9.49	8.70
339	1407	2391.7	2.33	2.73	5.16	87	41.5	2850	2887.1	9.40	9.49	606	637	40.2	54.4	404	70690	84.4	13.3	2298	1032	.64	1.87	1.85	3.81	9.49	8.70
340	1408	2392.0	4.35	2.75	3.56	86	40.0	2840	2887.3	9.40	9.49	606	617	40.2	54.4	401	70832	84.7	13.4	1952	1031	.64	1.67	1.65	3.82	9.49	8.70
341	1412	2392.2	3.65	2.68	3.70	86	39.1	2840	2887.7	9.40	9.44	606	598	40.6	54.5	401	71184	85.0	13.4	1362	1030	.64	1.71	1.69	3.82	9.48	8.70
342	1420	2392.6	2.43	2.78	3.76	87	40.0	2840	2888.6	9.38	9.41	606	627	41.5	54.6	395	71321	85.3	13.6	2515	1034	.65	1.83	1.81	3.82	9.48	8.70
343	1427	2392.9	2.47	2.73	3.72	88	40.7	2850	2889.2	9.40	9.42	607	632	41.7	54.7	391	72470	85.6	13.7	1871	1037	.65	1.85	1.83	3.82	9.47	8.70
344	1435	2393.2	2.38	2.56	3.47	88	41.4	2850	2889.9	9.40	9.41	606	601	41.8	54.8	385	73143	85.9	13.8	2068	1041	.66	1.87	1.85	3.82	9.47	8.70
345	1442	2393.5	2.66	2.58	3.56	88	40.8	2850	2890.4	9.38	9.38	606	605	42.1	55.0	381	73746	86.2	13.9	1932	1044	.66	1.83	1.81	3.82	9.47	8.70
346	1446	2393.8	4.05	2.66	3.53	88	41.6	2850	2890.7	9.33	9.33	606	589	42.2	55.0	374	74142	86.5	14.0	1226	1045	.67	1.72	1.70	3.82	9.47	8.70
347	1453	2394.1	2.80	2.54	5.23	87	41.6	2850	2891.0	9.35	9.36	606	607	42.3	55.2	369	74703	86.8	14.1	1896	1047	.67	1.82	1.80	3.82	9.47	8.70
348	1459	2394.4	2.93	2.58	3.49	89	41.8	2850	2891.2	9.35	9.38	606	593	42.2	55.2	364	75263	87.1	14.2	1721	1050	.68	1.82	1.80	3.82	9.47	8.70
349	1507	2394.7	2.30	2.65	6.34	87	41.7	2840	2891.6	9.35	9.41	606	601	42.0	55.1	357	75958	87.4	14.4	2174	1054	.68	1.88	1.86	3.82	9.47	8.70
350	1513	2395.0	3.03	2.61	5.14	88	41.7	2850	2892.1	9.33	9.40	607	619	41.9	55.4	352	76435	87.7	14.5	1641	1056	.69	1.80	1.78	3.82	9.47	8.70
351	1520	2395.3	2.74	2.57	3.65	88	41.4	2840	2892.3	9.35	9.39	606	629	42.2	55.9	348	77097	88.0	14.6	1795	1059	.69	1.83	1.80	3.82	9.47	8.70
352	1525	2395.6	3.25	2.88	6.12	86	41.5	2830	2892.5	9.35	9.43	605	608	42.2	55.3	345	77556	88.3	14.7	1532	1060	.69	1.77	1.75	3.82	9.47	8.70
353	1534	2395.9	1.94	2.47	4.52	88	41.1	2830	2893.0	9.37	9.44	605	647	42.3	55.5	338	78373	88.7	14.8	2762	1065	.70	1.92	1.90	3.82	9.47	8.70
354	1542	2396.2	2.28	2.52	3.53	87	41.9	2820	2893.4	9.34	9.44	605	626	42.4	55.8	332	79073	89.0	14.9	2209	1069	.71	1.88	1.86	3.82	9.47	8.70
355	1549	2396.5	3.09	2.60	3.77	87	40.3	2810	2893.6	9.33	9.43	604	616	42.5	56.0	326	79605	89.2	15.1	1700	1071	.71	1.78	1.75	3.83	9.47	8.70
356	1556	2396.8	2.60	2.64	3.82	87	39.6	2810	2893.9	9.36	9.44	604	603	42.6	56.1	324	80214	89.6	15.2	3196	1074	.72	1.82	1.79	3.83	9.47	8.70
357	1603	2397.1	2.43	2.31	3.67	87	39.9	2770	2894.3	9.33	9.40	599	599	42.3	56.3	318	80864	89.9	15.3	2074	1078	.72	1.84	1.82	3.83	9.46	8.70
358	1609	2397.4	3.27	2.59	3.83	87	40.1	2780	2894.6	9.32	9.40	599	598	42.3	56.6	315	81347	90.2	15.4	1635	1079	.73	1.76	1.74	3.83	9.46	8.70
359	1618	2397.7	1.85	2.63	3.63	88	40.0	2770	2895.0	9.32	9.41	599	610	42.4	56.3	308	82204	90.5	15.5	2604	1085	.73	1.92	1.90	3.83	9.45	8.70
360	1626	2398.0	2.29	2.54	3.44	88	40.2	2770	2895.4	9.31	9.38	599	628	42.6	56.3	302	82895	90.8	15.7	2150	1088	.74	1.87	1.84	3.83	9.44	8.70
361	1634	2398.3	3.90	2.55	3.31	90	35.6	2340	2895.6	9.30	9.37	569	533	42.6	56.8	313	83092	91.1	15.7	2741	1087	.74	1.77	1.75	3.83	9.43	8.70
362	1639	2398.6	4.17	2.52	3.70	91	40.7	2840	2895.8	9.31	9.39	606	641	43.2	56.5	297	83436	91.4	15.8	3199	1087	.75	1.71	1.69	3.83	9.44	8.70
363	1645	2399.0	2.78	2.54	3.53	91	40.7	2840	2896.1	9.26	9.38	606	577	43.0	55.9	289	84081	91.7	15.9	1837	1089	.75	1.83	1.80	3.83	9.44	8.70
364	1654	2399.3	2.11	2.53	3.42	91	40.5	2830	2896.5	9.28	9.34	605	576	43.1	56.8	284	84366	92.0	16.0	2286	1094	.76	1.91	1.88	3.83	9.43	8.70
365	1703	2399.6	2.02	2.53	3.24	89	40.8	2840	2896.9	9.26	9.35	606	594	43.2	56.6	278	85702	92.3	16.2	2606	1098	.76	1.92	1.89	3.83	9.43	8.70
366	1711	2399.9	2.46	2.50	3.57	89	41.1	2830	2897.1	9.29	9.34	605	598	43.4	56.8	271	86363	92.6	16.3	2264	1102	.77	1.87	1.84	3.83	9.42	8.70
367	1719	2400.2	2.26	2.49	3.45	91	40.8	2820	2897.6	9.27	9.36	605	596	43.7	56.4	267	87092	92.9	16.5	2453	1105	.78	1.89	1.87	3.83	9.41	8.70
368	1726	2400.5	2.32	2.52	3.52	90	41.6	2820	2897.9	9.25	9.36	605	635	44.1	56.7	263	87778	93.2	16.6	2181	1108	.78	1.90	1.87	3.83	9.40	8.70
369	1737	2400.8	1.79	2.52	3.64	90	40.8	2820	2898.4	9.24	9.37	605	618	44.0	56.5	255	88692	93.5	16.8	2541	1114	.79	1.96	1.94	3.83	9.39	8.70
370	1744	2401.1	2.41	2.53	3.72	88	40.5	2820	2898.7	9.25	9.36	605	632	43.6	57.1	250	89375	93.8	16.9	2149	1118	.80	1.87	1.84	3.84	9.39	8.70

AMOCO AUST. Tilana No.1 329215 Data Printed at time 23:34 Date Oct 9
Data Recorded at time 17:54 Date Oct 6 147

P#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NK	NKB	ECD	EST F1 PR
371	1754	2901.4	1.92	2.50	3.64	89	41.5	2320	2899.0	9.27	9.37	605	642	43.2	56.7	253	90212	94.1	17.0	2701	1122	.80	1.95	1.93	3.84	9.38	8.70
372	1832	2901.7	2.09	2.61	3.81	88	41.3	2320	2899.5	9.23	9.39	604	659	43.9	56.4	275	90393	94.4	17.2	2231	1125	.81	1.92	1.93	3.84	9.37	8.70
373	1838	2902.0	2.74	2.70	3.94	87	40.5	2330	2899.9	9.27	9.37	604	651	44.2	57.0	237	91480	94.7	17.3	1750	1123	.81	1.83	1.81	3.84	9.36	8.70
374	1816	2902.3	2.40	2.54	3.77	88	41.1	2320	2900.1	9.29	9.38	603	672	44.1	56.4	305	92148	95.0	17.4	1943	1131	.82	1.88	1.86	3.84	9.36	8.70
375	1822	2902.6	3.18	2.67	3.83	87	40.7	2320	2900.3	9.28	9.36	586	643	44.1	56.2	315	92651	95.3	17.5	1694	1132	.82	1.79	1.77	3.84	9.36	8.70
376	1829	2902.9	2.43	2.65	3.69	87	40.7	2310	2900.6	9.26	9.37	602	614	43.9	56.0	331	93316	95.7	17.6	2004	1135	.83	1.88	1.85	3.84	9.36	8.70
377	1836	2903.2	2.60	2.55	3.63	88	40.1	2300	2900.8	9.35	9.38	603	624	44.1	55.8	346	93933	96.0	17.7	1940	1137	.83	1.85	1.82	3.84	9.36	8.70
378	1844	2903.5	2.49	2.56	3.39	89	41.9	2290	2901.2	9.40	9.37	603	630	44.3	55.2	352	94580	96.3	17.9	2024	1140	.84	1.88	1.86	3.84	9.36	8.70
379	1852	2903.8	2.28	2.60	3.76	88	40.7	2290	2901.5	9.36	9.37	602	636	44.2	54.4	379	95282	96.6	18.0	2319	1143	.85	1.89	1.86	3.84	9.35	8.70
380	1858	2904.1	2.84	2.67	3.53	89	40.3	2290	2901.7	9.35	9.36	603	652	44.4	54.7	393	95851	96.9	18.1	1926	1145	.85	1.83	1.80	3.84	9.36	8.70
381	1904	2904.4	2.80	2.60	3.82	88	41.3	2290	2901.9	9.35	9.34	602	645	44.3	54.3	391	96428	97.2	18.2	1757	1147	.86	1.84	1.81	3.84	9.37	8.70
382	1911	2904.8	2.89	2.75	3.81	87	41.0	2280	2902.1	9.36	9.35	603	634	43.8	54.3	389	97027	97.5	18.3	1777	1150	.86	1.82	1.80	3.84	9.38	8.70
383	1917	2905.1	3.06	2.69	4.02	88	41.6	2290	2902.3	9.37	9.34	604	537	42.9	54.4	336	97498	97.8	18.4	1452	1151	.86	1.81	1.78	3.84	9.39	8.70
384	1924	2905.4	2.32	2.79	4.28	88	42.2	2280	2902.6	9.38	9.33	602	609	42.0	54.5	385	98144	98.1	18.5	2178	1153	.87	1.93	1.87	3.84	9.40	8.70
385	1932	2905.7	2.22	2.78	3.75	88	40.6	2280	2902.9	9.40	9.32	603	522	41.8	54.9	384	98866	98.4	18.7	2143	1156	.88	1.89	1.86	3.85	9.40	8.70
386	1942	2906.0	1.80	2.67	3.78	88	41.7	2280	2903.4	9.43	9.29	602	528	41.0	55.3	382	99759	98.7	18.8	2454	1161	.88	1.96	1.94	3.85	9.42	8.70
387	1955	2906.3	1.44	2.63	3.88	89	41.9	2280	2903.9	9.38	9.26	602	522	40.6	55.0	376	100336	99.0	19.1	2406	1169	.89	2.03	2.00	3.85	9.44	8.70
388	2005	2906.6	1.92	2.70	3.96	87	40.7	2290	2904.3	9.38	9.24	603	538	40.5	55.1	374	101760	99.3	19.2	2792	1173	.90	1.92	1.89	3.85	9.46	8.70
389	2014	2906.9	2.01	2.83	4.22	87	40.7	2290	2904.7	9.38	9.22	603	546	40.3	55.0	371	102508	99.6	19.4	2549	1177	.91	1.90	1.87	3.85	9.47	8.70
390	2025	2907.2	1.63	2.66	4.07	88	41.2	2300	2905.2	9.36	9.22	604	514	39.8	55.4	366	103532	99.9	19.6	3166	1183	.92	1.97	1.94	3.85	9.48	8.70
391	2036	2907.5	1.71	2.57	3.58	87	40.6	2290	2905.6	9.37	9.22	603	511	39.4	55.6	363	104428	100	19.7	3003	1188	.92	1.95	1.92	3.85	9.48	8.70
392	2058	2907.8	2.20	2.74	4.06	87	40.6	2280	2906.4	9.34	9.26	611	603	40.5	54.6	357	105358	101	19.9	2391	1193	.93	1.87	1.84	3.85	9.48	8.70
393	2106	2908.1	2.42	2.92	3.95	86	41.5	2270	2906.6	9.33	9.32	611	620	40.1	54.9	358	106004	101	20.0	1996	1196	.94	1.86	1.83	3.85	9.48	8.70
394	2107	2908.4	13.8	2.65	3.42	87	41.0	2280	2906.6	9.33	9.32	611	622	40.2	55.7	357	106119	101	20.1	512	1194	.94	1.35	1.32	3.85	9.49	8.70
395	2109	2908.7	11.5	2.95	3.59	86	42.0	2280	2906.7	9.33	9.32	612	611	40.2	55.7	357	106254	101	20.1	556	1191	.94	1.41	1.38	3.85	9.49	8.70
396	2114	2909.0	3.20	2.78	3.93	86	41.0	2260	2906.9	9.36	9.36	611	593	40.6	56.1	357	106739	102	20.2	3978	1192	.94	1.77	1.74	3.85	9.49	8.70
397	2119	2909.3	3.94	2.86	3.91	86	42.2	2250	2907.0	9.39	9.35	611	581	40.7	56.1	354	107136	102	20.3	1412	1192	.95	1.72	1.69	3.85	9.49	8.70
398	2124	2909.6	3.28	2.79	4.01	86	42.5	2260	2907.0	9.38	9.33	611	585	41.0	56.2	353	107613	102	20.3	1587	1194	.95	1.78	1.75	3.85	9.48	8.70
399	2131	2909.9	2.78	2.83	4.28	87	43.7	2240	2907.3	9.37	9.40	611	609	41.0	56.2	352	108176	103	20.5	1893	1195	.95	1.85	1.82	3.85	9.48	8.70
400	2145	2910.2	2.12	2.57	3.79	87	42.7	2250	2907.7	9.37	9.41	608	613	39.7	56.8	347	108934	103	20.6	2482	1199	.96	1.92	1.89	3.86	9.46	8.70
401	2148	2910.5	6.77	2.40	4.05	86	41.8	2260	2907.8	9.34	9.41	611	605	37.3	56.3	343	109168	103	20.6	792	1197	.96	1.57	1.54	3.86	9.46	8.70
402	2154	2910.9	3.35	2.75	3.88	86	42.7	2290	2908.0	9.36	9.37	614	608	35.7	56.5	340	109678	104	20.7	1945	1198	.97	1.78	1.75	3.86	9.46	8.70
403	2158	2911.1	3.66	2.68	3.68	86	42.9	2300	2908.1	9.35	9.36	617	598	34.5	56.6	339	110069	104	20.8	1345	1198	.97	1.76	1.73	3.86	9.46	8.70
404	2203	2911.4	3.47	2.70	3.78	87	43.8	2290	2908.3	9.33	9.35	615	630	33.1	57.1	337	110525	104	20.9	1401	1199	.97	1.79	1.76	3.86	9.45	8.70
405	2208	2911.8	4.03	2.83	3.94	86	42.4	2290	2908.4	9.32	9.33	615	593	32.3	56.5	336	110914	105	21.0	1113	1199	.98	1.72	1.69	3.86	9.46	8.70
406	2214	2912.1	3.14	2.71	3.95	87	43.3	2290	2908.5	9.33	9.32	619	632	31.6	56.9	334	111416	105	21.1	1438	1200	.98	1.81	1.78	3.86	9.46	8.70
407	2221	2912.4	2.61	2.80	4.07	88	43.0	2270	2908.6	9.32	9.29	612	581	30.7	56.5	333	112024	105	21.2	1730	1202	.99	1.86	1.83	3.86	9.46	8.70
408	2226	2912.7	3.33	2.87	3.76	86	44.7	2270	2908.8	9.33	9.30	613	602	30.7	56.7	331	112498	105	21.3	1639	1203	.99	1.81	1.78	3.86	9.46	8.70
409	2232	2913.0	3.25	2.57	3.72	87	43.2	2290	2909.0	9.33	9.30	613	552	30.1	57.0	330	112990	106	21.4	1519	1204	.99	1.80	1.77	3.86	9.46	8.70
410	2237	2913.3	3.78	2.77	3.81	87	42.0	2290	2909.7	9.35	9.30	614	555	29.8	56.6	329	113410	106	21.5	1179	1205	1.00	1.74	1.71	3.86	9.45	8.70
411	2243	2913.9	3.02	2.73	3.99	87	43.3	2300	2910.1	9.34	9.31	614	559	29.7	56.8	329	113931	107	21.6	1615	1202	1.00	1.83	1.79	3.86	9.45	8.70
412	2243	2914.2	3.18	2.73	2.95	87	43.3	2290	2910.1	9.33	9.31	615	554	30.1	57.0	329	113981	107	21.6	1640	1203	1.00	1.80	1.84	3.86	9.45	8.70
413	2249	2914.5	2.96	2.76	4.02	89	44.9	2300	2910.6	9.32	9.32	615	533	29.1	56.8	326	114517	107	21.7	741	1201	1.01	1.86	1.83	3.86	9.45	8.70
414	2257	2914.8	2.26	2.62	3.96	89	43.3	2300	2911.0	9.30	9.32	615	569	28.2	56.8	322	115240	108	21.8	2311	1204	1.01	1.92	1.88	3.87	9.45	8.70
415	2303	2915.1	3.39	2.72	3.76	88	44.0	2300	2911.3	9.24	9.30	616	609	27.3	56.7	320	115706	108	21.9	1335	1204	1.02	1.80	1.77	3.87	9.45	8.70
416	2308	2915.4	3.40	2.75	3.63	87	43.0	2320	2911.3	9.22	9.29	618	624	27.4	57.3	318	116170	108	22.0	1300	1205	1.02	1.79	1.75	3.87	9.45	8.70
417	2315	2915.7	2.65	2.83	3.77	86	43.7	2330	2911.9	9.25	9.31	618	582	25.5	57.2	314	116765	108	22.1	1901	1207	1.03	1.87	1.83	3.87	9.44	8.70
418	2321	2916.0	3.02	2.74	3.71	84	43.3	2340	2912.3	9.24	9.33	620	620	25.7	57.2	311	117272	109	22.2	1630	1208	1.03	1.82	1.79	3.87	9.44	8.70
419	2327	2916.3	3.07	2.83	3.70	82	42.7	2340	2912.8	9.24	9.34	620	600	25.6	57.6	309	117767	109	22.3	1368	1209	1.03	1.80	1.77	3.87	9.43	8.70
420	2333	2916.6	3.15	2.91	3.81	86	41.9	2350	2913.2	9.26	9.34	620	610	24.8	57.5	305	118268	109	22.4	1677	1210	1.04	1.80	1.76	3.87	9.43	8.70

AMOCO AUST. Tilana No.1 329216 Data Printed at time 23:38 Date Oct 9 '85 Data Recorded at time 23:39 Date Oct 6 '85 148

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MK	MKB	ECD	EST FM PR	
421	2339	2916.9	3.03	2.53	3.70	87	41.7	2950	2913.6	9.25	9.36	621	659	24.3	57.6	304	118792	110	22.5	1427	1211	1.04	1.81	1.78	3.87	9.42	8.70	
422	2345	2917.2	2.91	2.53	3.55	88	42.0	2950	2913.9	9.30	9.34	621	680	23.4	57.9	302	119340	110	22.6	1615	1213	1.05	1.83	1.79	3.87	9.41	8.70	
423	2355	2917.6	4.86	2.92	3.49	87	39.3	2790	2914.4	9.28	9.34	595	615	24.5	57.8	338	119543	110	22.6	1674	1212	1.05	1.75	1.71	3.87	9.40	8.70	
424	2358	2917.9	5.38	2.50	3.57	89	40.4	2890	2914.6	9.28	9.33	613	633	25.3	58.1	337	119816	111	22.7	1780	1211	1.05	1.64	1.60	3.87	9.40	8.70	
	Date	Oct 7 '85																										
425	0004	2918.2	3.07	2.53	3.31	90	39.6	2890	2914.9	9.24	9.33	614	691	24.3	57.6	341	120341	111	22.8	1335	1211	1.05	1.79	1.76	3.87	9.39	8.70	
426	0011	2918.5	2.63	2.51	3.17	90	40.1	2890	2915.3	9.21	9.34	613	660	24.6	57.4	344	120963	111	22.9	1678	1213	1.06	1.84	1.81	3.87	9.39	8.70	
427	0019	2918.8	6.39	2.75	3.81	86	39.8	2830	2915.4	9.21	9.34	542	643	24.6	57.4	354	121216	112	22.9	738	1212	1.06	1.58	1.54	3.87	9.35	8.70	
428	0034	2919.1	4.65	2.73	3.45	86	41.2	2850	2915.9	9.25	9.31	609	634	30.1	57.3	354	121563	112	23.0	872	1212	1.06	1.68	1.65	3.88	9.38	8.70	
429	0040	2919.4	3.37	2.59	3.60	87	40.1	2850	2916.2	9.24	9.33	611	678	29.4	56.7	354	122035	112	23.1	1535	1213	1.07	1.76	1.73	3.88	9.38	8.70	
430	0046	2919.7	2.83	2.53	3.66	86	40.4	2850	2916.6	9.34	9.31	611	604	28.9	56.3	358	122595	112	23.2	1672	1214	1.07	1.82	1.79	3.88	9.37	8.70	
431	0052	2920.0	3.39	2.65	3.43	86	42.0	2860	2916.8	9.30	9.33	612	665	28.6	56.8	359	123059	113	23.3	1576	1215	1.08	1.79	1.75	3.88	9.36	8.70	
432	0058	2920.3	3.01	2.52	3.42	86	40.6	2870	2917.1	9.29	9.37	614	660	28.0	55.9	362	123578	113	23.4	1744	1216	1.08	1.80	1.77	3.88	9.36	8.70	
433	0104	2920.6	2.77	2.56	3.22	86	40.5	2880	2917.5	9.29	9.42	616	634	27.6	56.2	364	124148	113	23.5	1999	1217	1.09	1.83	1.79	3.88	9.35	8.70	
434	0112	2920.9	2.55	2.64	3.79	87	42.1	2880	2917.9	9.30	9.38	615	640	27.6	55.9	369	124816	114	23.6	1961	1220	1.09	1.88	1.84	3.88	9.35	8.70	
435	0117	2921.2	3.05	2.64	3.64	87	42.2	2900	2918.1	9.31	9.42	618	644	27.7	56.1	370	125295	114	23.7	1680	1221	1.10	1.82	1.79	3.88	9.36	8.70	
436	0123	2921.5	3.53	2.56	3.65	87	41.0	2890	2918.4	9.30	9.37	619	626	27.5	56.1	372	125744	114	23.8	1439	1221	1.10	1.77	1.73	3.88	9.36	8.70	
437	0128	2921.8	3.31	2.54	3.46	88	43.9	2890	2918.5	9.29	9.36	619	653	27.2	55.8	374	126258	115	23.9	1628	1222	1.10	1.78	1.75	3.88	9.37	8.70	
438	0133	2922.1	3.90	2.53	3.42	88	43.8	2890	2919.0	9.28	9.46	619	648	27.0	55.8	376	126644	115	24.0	1334	1222	1.11	1.74	1.70	3.88	9.37	8.70	
439	0139	2922.4	3.12	2.59	3.51	88	41.7	2890	2919.3	9.21	9.48	619	658	28.2	55.9	381	127160	115	24.1	1591	1223	1.11	1.81	1.78	3.88	9.37	8.70	
440	0145	2922.7	3.11	2.49	3.36	87	41.5	2890	2919.6	9.19	9.42	619	699	28.2	55.7	383	127702	115	24.2	1717	1224	1.11	1.81	1.77	3.88	9.38	8.70	
441	0150	2923.0	3.60	2.52	3.22	88	40.1	2890	2920.0	9.24	9.35	619	632	28.4	55.5	383	128146	116	24.3	1462	1225	1.12	1.75	1.71	3.88	9.38	8.70	
442	0155	2923.4	3.26	2.52	3.21	88	41.2	2880	2920.0	9.24	9.29	619	594	28.6	55.3	386	128635	116	24.4	1637	1225	1.12	1.79	1.75	3.88	9.38	8.70	
443	0209	2923.6	3.70	2.54	3.34	88	43.7	2860	2920.6	9.31	9.37	614	613	29.7	55.7	410	129060	116	24.4	1361	1226	1.13	1.75	1.71	3.89	9.37	8.70	
444	0214	2924.0	3.98	2.50	3.32	89	41.3	2860	2920.9	9.35	9.45	614	532	31.7	55.3	415	129486	117	24.5	1328	1226	1.13	1.74	1.70	3.89	9.37	8.70	
445	0221	2924.3	2.59	2.57	3.45	88	41.8	2860	2921.3	9.38	9.44	615	592	33.6	54.9	421	130106	117	24.6	1993	1223	1.13	1.87	1.83	3.89	9.37	8.70	
446	0226	2924.6	3.53	2.62	3.34	89	42.5	2860	2921.5	9.36	9.44	615	627	33.7	55.0	427	130565	117	24.7	1569	1228	1.14	1.79	1.75	3.89	9.37	8.70	
447	0233	2924.9	2.59	2.54	3.21	89	41.1	2860	2921.8	9.34	9.37	615	625	34.2	55.0	417	131173	118	24.8	1767	1230	1.14	1.86	1.82	3.89	9.37	8.70	
448	0239	2925.2	2.88	2.54	3.29	89	39.7	2860	2922.1	9.32	9.43	616	649	34.3	54.2	418	131751	118	24.9	1809	1231	1.15	1.81	1.77	3.89	9.37	8.70	
449	0245	2925.5	3.05	2.61	3.55	88	41.3	2850	2922.4	9.33	9.41	615	591	34.0	54.5	424	132223	118	25.0	1574	1232	1.15	1.81	1.78	3.89	9.37	8.70	
450	0251	2925.8	2.67	2.51	3.65	89	41.2	2840	2922.8	9.31	9.39	616	604	33.8	54.2	426	132829	119	25.1	1911	1233	1.16	1.85	1.81	3.89	9.38	8.70	
451	0257	2926.1	3.44	2.54	3.22	88	40.4	2850	2923.1	9.32	9.47	614	630	34.2	54.2	425	133295	119	25.2	1547	1234	1.16	1.76	1.73	3.89	9.38	8.70	
452	0302	2926.4	3.49	2.51	3.32	88	41.2	2830	2923.4	9.34	9.44	615	602	34.3	54.2	425	133748	119	25.3	1420	1234	1.16	1.77	1.73	3.89	9.38	8.70	
453	0321	2926.7	3.41	2.45	3.49	88	40.3	2780	2924.1	9.38	9.45	560	448	34.5	54.3	443	134257	119	25.4	1513	1235	1.17	1.76	1.73	3.89	9.38	8.70	
454	0324	2927.0	5.41	2.70	3.11	93	39.2	2800	2924.3	9.37	9.42	609	565	34.9	53.7	427	134573	120	25.5	927	1234	1.17	1.63	1.59	3.89	9.39	8.70	
455	0330	2927.3	3.04	2.70	3.56	89	42.2	2800	2924.6	9.36	9.43	609	537	34.7	53.4	418	135064	120	25.6	1753	1235	1.18	1.83	1.79	3.89	9.39	8.70	
456	0335	2927.6	3.59	2.61	3.49	90	40.1	2800	2924.9	9.38	9.43	609	603	34.7	53.8	417	135525	120	25.6	1299	1235	1.18	1.76	1.72	3.89	9.39	8.70	
457	0343	2927.9	2.30	2.61	3.46	91	40.9	2800	2925.0	9.38	9.34	609	569	35.5	54.2	413	136240	121	25.8	2266	1238	1.18	1.89	1.85	3.89	9.40	8.70	
458	0349	2928.2	3.13	2.60	3.63	90	42.2	2810	2925.3	9.40	9.36	610	451	35.5	54.3	410	136801	121	25.9	1685	1239	1.19	1.82	1.78	3.90	9.41	8.70	
459	0356	2928.5	2.55	2.56	3.38	88	42.1	2810	2925.7	9.40	9.39	610	474	35.6	54.2	407	137386	121	26.0	1944	1240	1.19	1.87	1.83	3.90	9.43	8.70	
460	0403	2928.8	2.48	2.55	3.39	88	41.9	2810	2926.0	9.37	9.31	609	503	35.4	54.1	402	138035	122	26.1	2001	1242	1.20	1.87	1.83	3.90	9.44	8.70	
461	0408	2929.1	3.69	2.45	3.33	89	39.5	2820	2926.2	9.41	9.32	610	477	35.7	54.1	401	138503	122	26.2	1446	1243	1.20	1.73	1.69	3.90	9.44	8.70	
462	0415	2929.4	2.44	2.52	3.42	90	41.2	2810	2926.6	9.35	9.34	610	490	36.2	54.7	399	139129	122	26.3	2235	1244	1.21	1.87	1.83	3.90	9.45	8.70	
463	0421	2929.8	3.33	2.62	3.39	91	40.3	2820	2926.8	9.37	9.36	610	466	36.6	54.4	398	139654	122	26.4	1662	1245	1.21	1.77	1.73	3.90	9.45	8.70	
464	0427	2930.0	2.67	2.61	3.47	91	41.0	2810	2927.1	9.37	9.43	610	501	37.7	54.4	396	140234	123	26.5	1704	1247	1.22	1.84	1.80	3.90	9.45	8.70	
465	0434	2930.3	2.97	2.64	3.21	90	40.6	2830	2927.5	9.31	9.34	610	451	38.6	54.4	393	140787	123	26.6	1822	1248	1.22	1.80	1.76	3.90	9.45	8.70	
466	0440	2930.7	3.08	2.50	3.43	89	40.3	2830	2927.6	9.29	9.32	610	449	38.9	54.6	390	141314	123	26.7	1485	1249	1.23	1.78	1.74	3.90	9.46	8.70	
467	0447	2931.0	2.59	2.53	2.98	89	39.3	2830	2927.9	9.33	9.32	610	456	39.0	54.7	387	141962	124	26.8	2013	1250	1.23	1.82	1.78	3.90	9.46	8.70	
468	0452	2931.3	3.45	2.55	3.31	88	41.7	2820	2928.2	9.30	9.39	610	459	39.4	54.5	384	142413	124	26.9	1456	1251	1.24	1.77	1.73	3.90	9.46	8.70	
469	0500	2931.6	2.37	2.57	3.40	89	41.8	2820	2928.6	9.27	9.43	610	501	39.6	54.6	380	143117	124	27.0	2354	1253	1.24	1.88	1.84	3.90	9.47	8.70	

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MK	MKB	ECD	EST FM PR
470	0506	2931.9	2.97	2.60	3.45	89	40.1	2320	2923.3	9.25	9.40	612	536	39.9	54.5	379	143662	125	27.1	1637	1254	1.25	1.79	1.75	3.90	9.47	8.70
471	0512	2932.2	2.35	2.57	3.40	90	41.5	2320	2929.2	9.27	9.41	611	556	40.7	54.7	377	144223	125	27.3	1751	1255	1.25	1.82	1.78	3.90	9.46	8.70
472	0519	2932.5	2.34	2.59	3.42	90	41.6	2320	2929.5	9.27	9.41	611	547	41.1	54.8	376	144801	125	27.4	1900	1256	1.25	1.83	1.79	3.90	9.46	8.70
473	0526	2932.8	2.51	2.51	3.40	90	41.9	2310	2929.8	9.29	9.41	610	496	41.1	55.0	373	145468	126	27.5	2255	1258	1.26	1.87	1.83	3.91	9.45	8.70
474	0534	2933.1	2.26	2.60	3.22	89	42.6	2310	2930.2	9.30	9.45	610	550	41.0	54.6	369	146170	126	27.6	2116	1260	1.27	1.91	1.86	3.91	9.44	8.70
475	0540	2933.4	2.92	2.49	3.13	89	41.3	2320	2930.5	9.30	9.44	610	558	41.0	55.2	367	146729	126	27.7	1743	1261	1.27	1.82	1.78	3.91	9.43	8.70
476	0547	2933.7	2.72	2.57	3.39	88	41.7	2310	2930.9	9.31	9.45	609	456	41.0	54.9	366	147321	126	27.8	1907	1263	1.28	1.84	1.80	3.91	9.43	8.70
477	0555	2934.0	2.39	2.60	3.65	88	43.2	2310	2931.2	9.32	9.43	610	521	38.0	55.1	364	147992	127	28.0	2736	1265	1.28	1.90	1.86	3.91	9.42	8.70
478	0602	2934.3	2.42	2.49	3.10	89	42.8	2310	2931.5	9.33	9.41	610	533	39.1	55.0	363	148658	127	28.1	2169	1267	1.29	1.90	1.85	3.91	9.41	8.70
479	0610	2934.6	2.34	2.52	3.26	89	42.0	2320	2931.9	9.29	9.42	611	602	38.8	55.2	358	149351	127	28.2	2157	1269	1.29	1.90	1.85	3.91	9.40	8.70
480	0618	2934.9	2.19	2.51	3.34	89	42.8	2320	2932.4	9.26	9.42	610	645	38.4	54.9	356	150090	128	28.3	2271	1271	1.30	1.93	1.88	3.91	9.40	8.70
481	0626	2935.2	2.43	2.57	3.14	90	42.1	2320	2932.7	9.26	9.40	610	575	38.0	55.1	354	150748	128	28.5	2374	1273	1.30	1.89	1.84	3.91	9.39	8.70
482	0634	2935.6	2.36	2.51	3.25	90	43.7	2330	2933.1	9.25	9.34	611	596	37.8	54.9	354	151505	128	28.6	2647	1275	1.31	1.93	1.88	3.91	9.39	8.70
483	0642	2935.9	2.19	2.47	3.44	91	42.1	2330	2933.5	9.31	9.35	612	557	38.0	54.8	355	152263	129	28.7	2116	1278	1.32	1.93	1.88	3.91	9.39	8.70
484	0654	2936.2	2.96	2.53	3.14	91	41.4	2360	2933.9	9.34	9.36	604	533	39.1	54.7	372	152849	129	28.9	2081	1279	1.32	1.83	1.79	3.91	9.38	8.70
485	0657	2936.4	3.12	2.57	2.98	90	42.4	2370	2934.0	9.35	9.39	613	562	39.5	54.8	356	152977	129	28.9	2014	1277	1.32	1.81	1.76	3.91	9.38	8.70
486	0705	2936.8	2.58	2.49	3.49	89	41.9	2340	2934.3	9.34	9.41	613	565	39.2	54.2	357	153693	129	29.0	1779	1279	1.33	1.87	1.83	3.91	9.38	8.70
487	0713	2937.1	1.94	2.58	3.56	89	40.3	2350	2934.7	9.35	9.37	613	599	39.5	54.7	356	154447	130	29.2	2471	1281	1.33	1.93	1.89	3.92	9.38	8.70
488	0720	2937.4	2.51	2.50	3.11	90	41.0	2340	2935.0	9.32	9.38	614	626	39.2	54.9	360	155077	130	29.3	1838	1283	1.34	1.87	1.82	3.92	9.39	8.70
489	0730	2937.7	1.85	2.46	3.24	88	41.3	2340	2935.4	9.31	9.41	613	638	39.1	55.0	366	155954	130	29.4	2221	1286	1.35	1.96	1.91	3.92	9.39	8.70
490	0739	2938.0	2.12	2.49	3.33	87	40.6	2340	2935.7	9.33	9.43	613	535	38.7	54.7	373	156718	131	29.6	2547	1289	1.35	1.90	1.85	3.92	9.40	8.70
491	0747	2938.3	2.37	2.53	3.46	88	39.4	2330	2936.0	9.33	9.42	614	569	39.0	54.8	377	157378	131	29.7	2126	1290	1.36	1.85	1.81	3.92	9.40	8.70
492	0751	2938.6	3.96	2.43	3.42	89	39.2	2330	2936.2	9.34	9.40	614	573	39.0	54.9	378	157787	131	29.8	1233	1290	1.36	1.71	1.66	3.92	9.40	8.70
493	0800	2938.9	2.82	2.62	3.18	89	41.7	2330	2936.6	9.34	9.39	614	532	39.1	54.4	382	158595	132	29.9	2242	1293	1.37	1.93	1.89	3.92	9.40	8.70
494	0808	2939.2	2.29	2.62	3.64	89	41.0	2330	2936.9	9.35	9.40	613	573	39.2	54.9	390	159300	132	30.1	2190	1295	1.37	1.89	1.85	3.92	9.40	8.70
495	0815	2939.5	2.64	2.52	3.61	89	39.9	2330	2937.1	9.32	9.42	613	582	40.4	54.6	402	159913	132	30.2	2023	1297	1.38	1.83	1.78	3.92	9.40	8.70
496	0823	2939.8	2.46	2.63	3.73	88	41.2	2340	2937.5	9.33	9.42	614	597	40.5	54.5	412	160566	133	30.3	2019	1298	1.38	1.87	1.82	3.92	9.41	8.70
497	0830	2940.1	2.44	2.57	3.41	89	40.9	2330	2937.8	9.34	9.43	614	559	40.3	54.8	417	161231	133	30.4	2132	1300	1.39	1.87	1.82	3.92	9.42	8.70
498	0839	2940.4	2.11	2.61	3.49	89	42.5	2330	2938.2	9.35	9.37	614	558	40.0	54.2	422	162002	133	30.6	2271	1302	1.39	1.93	1.88	3.92	9.43	8.70
499	0845	2940.7	2.91	2.64	3.44	90	40.9	2320	2938.4	9.32	9.35	615	560	41.4	54.6	427	162563	133	30.7	1707	1303	1.40	1.82	1.77	3.92	9.43	8.70
500	0853	2941.0	2.30	2.64	3.57	89	41.0	2320	2938.6	9.36	9.37	610	561	41.0	54.0	434	163271	134	30.8	2300	1305	1.40	1.88	1.84	3.92	9.43	8.70
501	0901	2941.3	2.31	2.61	3.33	89	40.8	2310	2938.9	9.35	9.35	614	562	40.8	54.3	438	163976	134	30.9	2654	1307	1.41	1.88	1.83	3.92	9.43	8.70
502	0908	2941.6	2.48	2.65	3.41	89	40.8	2320	2939.2	9.35	9.35	614	568	40.3	54.3	443	164631	134	31.1	1869	1309	1.41	1.86	1.81	3.93	9.43	8.70
503	0916	2942.0	2.50	2.65	3.78	89	41.6	2320	2939.6	9.34	9.38	614	563	40.2	54.0	450	165325	135	31.2	2003	1311	1.42	1.87	1.82	3.93	9.43	8.70
504	0924	2942.2	2.19	2.56	3.30	87	41.0	2330	2939.9	9.36	9.33	614	568	39.9	54.4	454	166003	135	31.3	2158	1312	1.43	1.89	1.84	3.93	9.43	8.70
505	0931	2942.5	2.53	2.60	3.26	89	41.2	2320	2940.2	9.39	9.36	614	567	39.9	53.9	459	166646	135	31.4	2093	1314	1.43	1.86	1.81	3.93	9.43	8.70
506	0940	2942.9	2.10	2.66	3.32	89	41.4	2320	2940.6	9.33	9.34	615	572	40.0	54.1	463	167465	136	31.6	2557	1316	1.44	1.91	1.87	3.93	9.43	8.70
507	0946	2943.1	3.06	2.68	3.50	88	40.1	2320	2940.8	9.31	9.34	615	649	40.0	54.1	467	167961	136	31.7	1712	1317	1.44	1.78	1.74	3.93	9.44	8.70
508	0953	2943.5	2.51	2.87	3.50	89	41.4	2320	2941.1	9.27	9.38	615	586	39.2	54.2	463	168610	136	31.8	2013	1318	1.45	1.86	1.81	3.93	9.43	8.70
509	0959	2943.8	3.06	2.77	3.55	89	41.5	2320	2941.3	9.20	9.38	615	623	36.9	54.1	451	169142	137	31.9	1637	1319	1.45	1.81	1.76	3.93	9.43	8.70
510	1005	2944.1	3.02	2.56	3.60	87	40.3	2330	2941.5	9.19	9.35	615	632	36.8	53.9	443	169697	137	32.0	1605	1320	1.45	1.79	1.74	3.93	9.44	8.70
511	1013	2944.4	2.48	2.63	3.53	88	40.4	2320	2941.8	9.21	9.36	616	619	37.3	54.0	445	170342	137	32.1	1875	1322	1.46	1.85	1.80	3.93	9.44	8.70
512	1019	2944.7	2.64	2.60	3.43	89	40.6	2320	2942.1	9.23	9.39	616	599	38.3	53.9	446	170954	137	32.2	2029	1323	1.46	1.84	1.79	3.93	9.44	8.70
513	1026	2945.0	2.57	2.71	3.55	87	41.6	2330	2942.3	9.25	9.36	615	593	39.3	54.2	448	171490	138	32.3	1770	1324	1.47	1.85	1.80	3.93	9.44	8.70
514	1033	2945.3	2.34	2.56	3.37	88	41.5	2330	2942.6	9.26	9.40	615	555	39.7	54.2	448	172178	138	32.5	2160	1325	1.47	1.88	1.83	3.93	9.42	8.70
515	1044	2945.6	3.34	2.63	3.45	87	39.7	2730	2943.0	9.31	9.34	605	472	40.1	54.8	467	172687	138	32.6	1532	1326	1.48	1.77	1.72	3.93	9.32	8.70
516	1047	2945.9	3.10	3.16	3.75	86	39.7	2740	2943.0	9.31	9.34	0	493	40.1	54.8	463	172749	139	32.6	1657	1323	1.48	1.81	1.76	3.94	9.32	8.70
517	1056	2946.2	2.33	2.81	3.87	86	41.0	2760	2943.3	9.35	9.38	604	502	34.4	54.1	449	173523	139	32.7	1916	1325	1.48	1.91	1.87	3.94	9.40	8.70
518	1101	2946.5	3.23	3.03	4.09	86	42.1	2740	2943.5	9.29	9.36	601	563	32.6	54.4	441	173999	139	32.8	1511	1326	1.49	1.79	1.74	3.94	9.40	8.70
519	1109	2946.8	2.39	2.71	3.84	86	42.0	2760	2943.7	9.29	9.39	604	504	32.4	54.6	440	174654	140	32.9	1355	1328	1.49	1.88	1.83	3.94	9.39	8.70

AMOCO AUST. Tilana No.1 329218

Data Printed at time 23:46 Date Oct 9 '85
Data Recorded at time 11:22 Date Oct 7 '85

150

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST T/I	DXC	NK	NKB	ECD	EST F1 PR
520	1122	2947.1	2.09	2.70	3.96	87	41.3	2730	2944.2	9.33	9.37	601	559	33.0	54.5	447	175417	140	33.1	2708	1330	1.50	1.92	1.87	3.94	9.38	8.70
521	1128	2947.4	2.93	2.74	3.55	88	41.2	2350	2944.5	9.32	9.34	615	538	35.8	55.0	423	175961	140	33.2	1631	1331	1.50	1.82	1.77	3.94	9.38	8.70
522	1134	2947.7	2.90	2.88	3.64	88	41.5	2860	2944.8	9.39	9.37	615	511	35.4	54.6	426	176513	140	33.3	1619	1332	1.51	1.83	1.78	3.94	9.38	8.70
523	1144	2948.0	1.36	2.83	3.61	87	42.4	2870	2945.3	9.36	9.31	616	528	35.1	55.1	424	177369	141	33.5	2834	1335	1.52	1.97	1.92	3.94	9.36	8.70
524	1151	2948.3	2.65	2.74	3.58	88	41.7	2870	2945.6	9.36	9.32	617	530	35.3	55.0	422	177974	141	33.6	2190	1336	1.52	1.86	1.81	3.94	9.37	8.70
525	1159	2948.6	2.30	2.57	3.54	88	41.0	2880	2945.9	9.38	9.34	617	527	35.6	55.2	423	178674	141	33.7	2358	1338	1.53	1.89	1.84	3.94	9.37	8.70
526	1206	2948.9	2.54	2.65	3.61	88	40.9	2870	2946.2	9.36	9.41	617	553	36.3	55.4	421	179305	142	33.8	2229	1339	1.53	1.86	1.81	3.94	9.38	8.70
527	1214	2949.2	2.21	2.65	3.51	88	41.6	2890	2946.6	9.37	9.38	617	597	36.6	55.7	421	180033	142	34.0	2353	1341	1.54	1.91	1.85	3.94	9.40	8.70
528	1223	2949.5	2.26	2.60	3.42	88	41.5	2880	2947.2	9.35	9.37	618	614	36.7	55.9	416	180745	142	34.1	2234	1343	1.54	1.90	1.84	3.94	9.40	8.70
529	1230	2949.9	2.31	2.54	3.31	88	41.2	2870	2947.6	9.34	9.29	617	639	36.6	56.2	412	181441	143	34.2	2141	1345	1.55	1.88	1.83	3.94	9.41	8.70
530	1238	2950.2	2.32	2.63	3.61	87	42.0	2890	2948.0	9.33	9.37	617	639	36.7	56.4	418	182131	143	34.4	2395	1346	1.55	1.89	1.84	3.94	9.43	8.70
531	1246	2950.5	2.65	2.51	3.23	87	41.6	2910	2948.1	9.39	9.32	616	641	38.1	56.2	424	182770	143	34.5	1971	1348	1.56	1.83	1.78	3.95	9.44	8.70
532	1254	2950.8	1.78	2.60	3.52	86	41.3	2900	2948.5	9.36	9.33	613	634	36.9	56.7	423	183516	144	34.6	2571	1350	1.56	1.95	1.90	3.95	9.44	8.70
533	1301	2951.1	2.72	2.63	3.43	87	41.6	2900	2948.8	9.37	9.33	618	665	36.7	56.7	419	184103	144	34.7	1870	1351	1.57	1.84	1.78	3.95	9.44	8.70
534	1310	2951.4	2.23	2.54	3.29	87	40.6	2920	2949.1	9.35	9.36	613	677	37.0	56.8	416	184857	144	34.9	2238	1353	1.57	1.88	1.83	3.95	9.45	8.70
535	1316	2951.7	3.05	2.66	3.29	87	40.2	2910	2949.4	9.35	9.32	618	630	37.5	56.8	412	185377	144	35.0	1790	1354	1.58	1.78	1.73	3.95	9.45	8.70
536	1322	2952.0	2.97	2.56	3.57	87	41.9	2910	2949.6	9.38	9.36	617	642	37.1	57.3	415	185910	145	35.1	1680	1354	1.58	1.81	1.76	3.95	9.45	8.70
537	1328	2952.3	3.17	2.68	3.89	88	41.6	2910	2949.8	9.39	9.34	617	642	37.1	57.6	412	186413	145	35.2	1796	1355	1.59	1.79	1.74	3.95	9.46	8.70
538	1335	2952.6	2.53	2.83	3.45	87	41.4	2900	2950.1	9.40	9.36	617	637	37.1	57.5	411	187021	145	35.3	1845	1356	1.59	1.85	1.80	3.95	9.46	8.70
539	1341	2952.9	2.78	2.64	3.45	88	41.9	2910	2950.3	9.38	9.37	617	637	37.2	57.6	410	187598	146	35.4	1754	1357	1.59	1.83	1.78	3.95	9.46	8.70
540	1350	2953.2	2.16	2.63	3.46	88	41.4	2920	2950.6	9.39	9.36	618	615	38.0	57.7	408	188357	146	35.5	2199	1359	1.60	1.90	1.84	3.95	9.46	8.70
541	1356	2953.5	2.35	2.58	4.14	87	42.5	2920	2950.9	9.38	9.29	618	629	38.0	57.7	406	188899	146	35.6	1744	1360	1.60	1.83	1.78	3.95	9.46	8.70
542	1405	2953.8	2.06	2.57	3.30	87	42.2	2920	2951.3	9.37	9.38	618	646	38.0	57.6	406	189673	147	35.8	2650	1362	1.61	1.92	1.86	3.95	9.46	8.70
543	1411	2954.1	3.23	2.66	3.44	87	41.9	2930	2951.5	9.35	9.36	619	654	37.8	58.1	419	190171	147	35.9	1737	1362	1.61	1.78	1.73	3.95	9.46	8.70
544	1418	2954.4	2.21	2.55	3.59	87	41.9	2930	2951.7	9.38	9.38	619	647	38.3	58.1	436	190838	147	36.0	1912	1364	1.62	1.89	1.84	3.95	9.46	8.70
545	1425	2954.7	2.63	2.67	4.53	82	42.5	2950	2952.1	9.34	9.39	619	631	39.3	57.8	449	191394	147	36.1	1722	1365	1.62	1.83	1.78	3.96	9.47	8.70
546	1441	2955.0	3.19	2.63	3.75	87	41.6	2880	2952.5	9.35	9.37	556	446	39.1	57.5	487	191919	148	36.2	1672	1365	1.63	1.79	1.73	3.96	9.45	8.70
547	1441	2955.4	3.21	2.51	2.81	87	42.5	2870	2952.5	9.35	9.37	581	500	39.1	57.5	435	191940	148	36.2	53	1363	1.63	1.81	1.74	3.96	9.46	8.70
548	1448	2955.7	2.33	2.49	3.39	88	42.1	2920	2952.9	9.31	9.39	615	632	40.9	56.9	464	192576	148	36.4	9534	1364	1.63	1.88	1.83	3.96	9.47	8.70
549	1456	2956.0	2.39	2.56	3.49	87	41.9	2910	2953.2	9.32	9.42	614	619	38.9	56.4	461	193195	149	36.5	2133	1365	1.64	1.87	1.81	3.96	9.47	8.70
550	1504	2956.3	2.16	2.48	3.14	88	42.5	2900	2953.5	9.33	9.39	614	609	37.8	56.2	453	193939	149	36.6	2225	1367	1.64	1.91	1.86	3.96	9.47	8.70
551	1512	2956.6	2.37	2.42	3.56	86	41.2	2890	2953.9	9.33	9.41	614	603	37.2	56.3	453	194605	149	36.7	2228	1368	1.65	1.86	1.81	3.96	9.47	8.70
552	1519	2956.9	2.60	2.54	3.50	87	40.4	2890	2954.2	9.35	9.38	615	607	37.0	56.4	457	195242	150	36.9	2140	1370	1.65	1.83	1.77	3.96	9.47	8.70
553	1527	2957.2	2.17	2.50	3.55	87	41.1	2890	2954.6	9.35	9.40	615	630	36.6	56.5	453	195967	150	37.0	2311	1372	1.66	1.89	1.83	3.96	9.46	8.70
554	1536	2957.5	1.99	2.45	3.42	87	40.7	2890	2954.8	9.36	9.43	615	613	36.3	56.4	452	196687	150	37.1	2418	1373	1.67	1.91	1.85	3.96	9.45	8.70
555	1547	2957.8	1.57	2.51	3.68	87	42.0	2890	2955.3	9.33	9.40	616	644	37.9	57.1	449	197657	151	37.3	2943	1377	1.67	2.00	1.94	3.96	9.45	8.70
556	1554	2958.1	2.41	2.66	3.65	86	41.7	2870	2955.6	9.33	9.40	614	642	38.3	57.7	445	198312	151	37.4	2134	1378	1.68	1.87	1.81	3.96	9.44	8.70
557	1603	2958.4	2.20	2.58	3.82	87	41.4	2880	2956.0	9.32	9.39	615	631	38.4	57.5	444	199056	151	37.6	2332	1380	1.68	1.89	1.84	3.96	9.44	8.70
558	1610	2958.7	2.59	2.56	3.57	87	41.9	2880	2956.5	9.35	9.39	614	625	38.7	57.3	442	199667	151	37.7	2026	1381	1.69	1.85	1.80	3.96	9.44	8.70
559	1617	2959.0	2.50	2.52	3.59	87	41.9	2890	2956.3	9.30	9.34	615	616	38.3	57.6	439	200304	152	37.8	2327	1382	1.69	1.86	1.81	3.96	9.43	8.70
560	1623	2959.3	3.00	2.55	3.85	87	41.4	2880	2957.0	9.31	9.32	614	625	38.3	57.6	439	200823	152	37.9	1671	1383	1.70	1.83	1.75	3.97	9.43	8.70
561	1629	2959.6	3.18	2.59	3.79	87	41.2	2900	2957.2	9.31	9.29	614	635	38.3	57.6	438	201330	152	38.0	1697	1383	1.70	1.79	1.73	3.97	9.43	8.70
562	1633	2959.9	4.84	2.74	3.65	86	41.0	2890	2957.3	9.31	9.29	614	658	38.3	57.6	438	201651	153	38.1	1029	1382	1.70	1.66	1.60	3.97	9.43	8.70
563	1638	2960.2	3.60	2.68	3.84	86	42.4	2890	2957.5	9.26	9.31	613	629	38.6	58.2	434	202088	153	38.2	1007	1382	1.71	1.76	1.71	3.97	9.43	8.70
564	1645	2960.5	2.68	2.57	3.70	87	41.9	2900	2957.3	9.24	9.33	613	634	38.3	57.8	434	202678	153	38.3	2046	1384	1.71	1.84	1.79	3.97	9.43	8.70
565	1650	2960.8	3.36	2.51	3.49	89	42.4	2890	2958.0	9.22	9.34	614	635	35.2	57.7	433	203160	154	38.4	1477	1384	1.71	1.79	1.73	3.97	9.43	8.70
566	1657	2961.1	2.60	2.54	3.17	88	41.2	2900	2958.3	9.20	9.37	615	620	34.3	58.0	430	203779	154	38.5	1625	1385	1.72	1.85	1.79	3.97	9.43	8.70
567	1703	2961.4	3.18	2.59	3.61	87	41.7	2900	2958.5	9.20	9.38	613	602	34.1	58.0	433	204278	154	38.6	1573	1385	1.72	1.79	1.73	3.97	9.43	8.70
568	1711	2961.7	2.25	2.61	3.62	86	41.0	2900	2958.7	9.20	9.37	613	613	33.4	57.8	423	204977	154	38.7	2070	1387	1.73	1.88	1.82	3.97	9.43	8.70
569	1715	2962.0	4.15	2.65	3.64	87	41.0	2910	2958.9	9.20	9.38	614	609	33.4	58.0	426	205357	155	38.8	1253	1386	1.73	1.71	1.65	3.97	9.42	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MK	MKB	ECD	EST F4 PR
570	1720	2962.4	4.29	2.87	3.95	87	42.3	2390	2959.0	9.20	9.38	612	611	33.7	57.9	424	205725	155	38.9	1143	1336	1.73	1.72	1.66	3.97	9.42	8.70
571	1722	2962.7	9.12	2.85	3.63	87	43.9	2390	2959.1	9.19	9.38	613	618	33.8	58.1	424	205912	155	38.9	681	1334	1.74	1.43	1.42	3.97	9.41	8.70
572	1723	2963.0	15.9	2.98	3.76	87	41.0	2900	2959.1	9.19	9.38	613	617	33.8	58.1	423	206010	156	38.9	345	1332	1.74	1.32	1.26	3.97	9.42	8.70
573	1729	2963.3	14.4	3.13	4.03	87	42.2	2840	2959.2	9.21	9.36	560	471	34.1	57.9	439	206128	156	38.9	350	1330	1.74	1.37	1.31	3.97	9.40	8.70
574	1729	2963.6	24.5	3.11	3.55	89	42.6	2850	2959.3	9.21	9.36	600	544	34.1	57.9	436	206193	156	38.9	230	1378	1.74	1.22	1.16	3.93	9.41	8.70
+ Flow check and circulate returns at 2964m.																											
576	1756	2964.0	10.3	2.88	3.17	90	42.8	2330	2960.4	9.21	9.37	608	517	35.2	60.0	413	206221	157	39.0	275	1374	1.74	1.49	1.43	3.93	9.37	8.70
577	1921	2964.4	4.62	3.08	4.11	87	42.8	2840	2964.0	9.25	9.33	607	592	39.2	61.6	446	206717	157	39.0	667	1374	1.74	1.72	1.66	3.98	9.30	8.70
578	1923	2964.8	9.57	3.17	4.21	86	43.0	2830	2964.0	9.26	9.33	607	583	39.3	60.0	444	206914	158	39.1	512	1372	1.74	1.51	1.45	3.98	9.30	8.70
579	1935	2965.1	11.7	3.33	4.17	87	44.6	2940	2964.0	9.26	9.32	606	522	39.9	59.5	455	207100	158	39.1	591	1371	1.74	1.47	1.41	3.98	9.30	8.70
580	1937	2965.4	6.44	2.87	4.03	87	43.6	2940	2964.0	9.20	9.34	618	611	40.1	59.4	458	207324	158	39.2	703	1369	1.75	1.63	1.57	3.98	9.30	8.70
581	1940	2965.7	6.39	2.91	4.21	89	41.9	2990	2964.0	9.15	9.35	623	639	37.1	59.4	456	207573	158	39.2	768	1368	1.75	1.62	1.56	3.98	9.31	8.70
582	1945	2966.0	3.77	3.33	4.16	87	43.2	2950	2964.0	9.16	9.36	620	633	36.0	58.5	457	207991	159	39.3	1049	1368	1.75	1.78	1.72	3.98	9.31	8.70
583	1949	2966.3	4.74	2.94	3.96	87	42.7	2940	2964.0	9.18	9.38	620	607	35.2	58.6	456	208351	159	39.4	1023	1367	1.75	1.71	1.65	3.98	9.31	8.70
584	1954	2966.6	3.64	2.91	4.09	87	43.4	2930	2964.0	9.20	9.38	618	603	34.2	58.3	457	208783	159	39.4	1576	1367	1.76	1.80	1.74	3.98	9.32	8.70
585	1959	2966.9	3.36	2.84	4.01	86	43.1	2920	2964.0	9.21	9.37	616	599	33.6	58.4	453	209216	160	39.5	1454	1367	1.76	1.81	1.75	3.98	9.32	8.70
586	2005	2967.2	3.43	2.93	3.99	86	43.7	2910	2964.0	9.25	9.37	616	572	32.4	58.2	457	209708	160	39.6	1511	1368	1.76	1.82	1.76	3.93	9.32	8.70
587	2010	2967.5	3.40	2.90	3.94	86	42.7	2910	2964.0	9.24	9.37	618	623	31.8	58.3	455	210138	160	39.7	1463	1368	1.77	1.80	1.74	3.93	9.32	8.70
588	2019	2967.9	2.08	2.71	4.08	86	42.8	2920	2964.0	9.24	9.35	619	647	30.0	58.2	449	210941	161	39.9	2106	1370	1.77	1.95	1.89	3.98	9.32	8.70
589	2027	2968.2	2.40	2.62	2.93	87	44.7	2920	2964.0	9.23	9.36	619	670	30.6	58.3	445	211601	161	40.0	2181	1371	1.78	1.94	1.88	3.99	9.32	8.70
590	2038	2968.5	1.56	2.73	4.02	87	44.0	2930	2964.0	9.23	9.34	620	658	30.3	58.4	447	212617	161	40.2	8146	1375	1.79	2.06	2.00	3.99	9.32	8.70
591	2046	2968.8	2.13	2.75	3.97	87	43.6	2920	2964.1	9.24	9.35	619	641	29.5	58.0	447	213323	162	40.3	2503	1376	1.79	1.96	1.89	3.99	9.32	8.70
592	2058	2969.1	1.71	2.84	4.20	87	43.1	2930	2964.8	9.22	9.35	620	668	27.8	58.0	438	214298	162	40.5	2349	1379	1.80	2.01	1.95	3.99	9.33	8.70
593	2102	2969.4	3.72	2.91	4.13	87	43.2	2930	2965.3	9.16	9.32	620	668	27.4	58.1	445	214722	162	40.6	1548	1379	1.80	1.78	1.72	3.99	9.33	8.70
594	2104	2969.7	9.39	3.12	3.95	86	42.6	2930	2965.5	9.16	9.32	620	698	27.4	58.1	443	214874	162	40.6	539	1377	1.80	1.49	1.43	3.99	9.33	8.70
595	2106	2970.0	8.08	3.03	4.02	86	43.4	2920	2965.7	9.17	9.26	620	708	25.8	57.9	441	215068	163	40.6	566	1376	1.81	1.56	1.50	3.99	9.33	8.70
596	2109	2970.3	7.97	3.03	3.73	86	42.9	2920	2965.8	9.17	9.26	620	664	25.8	57.9	441	215264	163	40.7	557	1375	1.81	1.55	1.49	3.99	9.33	8.70
597	2112	2970.6	5.27	3.18	4.12	87	43.7	2940	2966.1	9.18	9.24	621	608	25.9	58.2	441	215573	163	40.7	1020	1374	1.81	1.69	1.63	3.99	9.32	8.70
598	2115	2970.9	6.56	3.25	4.01	87	44.6	2940	2966.3	9.21	9.29	621	650	26.6	58.1	440	215809	164	40.8	745	1373	1.81	1.64	1.57	3.99	9.32	8.70
599	2119	2971.2	5.10	3.07	3.83	87	43.3	2950	2966.5	9.20	9.29	621	644	25.4	57.6	435	216120	164	40.8	947	1372	1.81	1.70	1.63	3.99	9.33	8.70
600	2123	2971.5	4.02	3.03	3.40	87	43.8	2950	2966.8	9.18	9.25	621	647	25.7	58.2	434	216516	164	40.9	1107	1372	1.82	1.77	1.71	3.99	9.33	8.70
601	2131	2971.8	2.42	2.97	3.90	87	44.0	2940	2967.3	9.18	9.29	620	627	25.5	57.6	430	217177	165	41.0	3333	1373	1.82	1.92	1.86	3.99	9.33	8.70
602	2136	2972.1	3.34	2.93	3.86	87	43.6	2950	2967.5	9.20	9.28	621	622	25.6	57.8	426	217653	165	41.1	1580	1373	1.82	1.82	1.76	3.99	9.33	8.70
603	2144	2972.4	2.21	2.80	4.04	87	44.6	2950	2967.9	9.17	9.30	621	691	25.3	57.7	419	218357	165	41.3	3197	1375	1.83	1.96	1.90	4.00	9.32	8.70
604	2148	2972.7	5.73	2.96	3.92	84	43.6	2940	2968.0	9.18	9.28	620	623	25.2	57.8	413	218628	165	41.3	996	1374	1.83	1.66	1.59	4.00	9.32	8.70
605	2158	2973.0	1.72	2.73	3.91	84	44.1	2950	2968.4	9.21	9.32	621	574	26.0	58.4	416	219517	166	41.5	2661	1377	1.84	2.02	1.95	4.00	9.32	8.70
606	2210	2973.4	1.66	2.91	4.11	86	44.7	2960	2968.7	9.24	9.35	622	602	21.2	58.0	403	220544	166	41.7	2639	1380	1.85	2.04	1.98	4.00	9.32	8.70
607	2216	2973.7	3.13	2.80	3.84	87	44.1	2950	2968.8	9.27	9.35	621	597	20.8	58.4	412	221050	166	41.8	1826	1380	1.85	1.85	1.79	4.00	9.32	8.70
608	2228	2974.0	3.56	2.75	3.75	84	41.8	2960	2969.2	9.27	9.36	598	521	19.4	58.1	449	221527	167	41.9	2114	1381	1.85	1.77	1.71	4.00	9.30	8.70
609	2229	2974.2	3.23	2.72	3.67	87	44.3	2960	2969.3	9.29	9.35	617	567	19.9	58.1	446	221613	167	41.9	2412	1379	1.85	1.85	1.81	4.00	9.31	8.70
610	2233	2974.6	4.00	2.68	3.89	89	43.2	2960	2969.7	9.27	9.37	620	591	20.9	58.4	441	222049	167	42.0	1941	1379	1.86	1.77	1.71	4.00	9.31	8.70
611	2238	2974.8	3.38	2.87	3.94	91	44.8	2970	2970.2	9.27	9.38	621	579	20.3	57.9	446	222442	168	42.1	1320	1378	1.86	1.81	1.75	4.00	9.30	8.70
612	2241	2975.2	5.52	2.75	3.47	92	44.3	2980	2970.6	9.26	9.37	621	565	20.0	57.6	449	222769	168	42.1	1095	1378	1.86	1.70	1.64	4.00	9.30	8.70
613	2247	2975.5	3.09	2.81	3.97	92	44.6	2960	2971.1	9.26	9.36	621	603	19.8	57.5	456	223269	168	42.2	1234	1378	1.87	1.88	1.81	4.00	9.30	8.70
614	2251	2975.8	4.06	2.89	4.11	92	44.8	2940	2971.4	9.26	9.35	619	618	19.3	57.6	473	223684	169	42.3	1257	1377	1.87	1.80	1.74	4.00	9.30	8.70
615	2259	2976.1	2.40	3.02	4.39	90	45.0	2980	2971.8	9.24	9.33	621	622	16.7	56.9	471	224365	169	42.4	2989	1379	1.88	1.96	1.89	4.00	9.30	8.70
616	2308	2976.4	2.01	2.78	3.88	86	43.8	2950	2972.2	9.29	9.32	620	582	14.3	56.7	468	225151	169	42.6	2646	1381	1.88	1.98	1.91	4.00	9.31	8.70
617	2317	2976.7	2.05	2.81	4.17	87	43.3	2960	2972.7	9.31	9.32	622	584	18.9	56.4	465	225916	169	42.7	2434	1382	1.89	1.96	1.90	4.01	9.32	8.70
618	2325	2977.0	2.15	2.69	3.63	87	44.9	2960	2973.0	9.32	9.32	622	608	44.0	56.6	464	226657	170	42.8	2432	1384	1.89	1.97	1.91	4.01	9.32	8.70
619	2335	2977.3	1.90	2.83	3.94	87	45.3	2950	2973.3	9.32	9.31	621	632	49.6	57.0	459	227491	170	43.0	2441	1386	1.90	2.01	1.95	4.01	9.33	8.70

AMOCO AUST. Tilana No.1 329220 Data Printed at time 23:55 Date Oct 9 '85
Data Recorded at time 23:43 Date Oct 7 '85 152

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLO T/MIN IN	FLO T/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MX	MXB	ECD	EST FM PR
620	2343	2977.6	2.17	2.83	4.04	87	46.3	2950	2973.5	9.29	9.32	622	587	49.6	57.3	458	228183	170	43.1	2117	1388	1.90	1.99	1.92	4.01	9.34	8.70
621	2351	2977.9	2.23	2.76	3.81	87	44.3	2960	2973.9	9.30	9.35	622	608	50.2	57.6	457	228930	171	43.3	2207	1390	1.91	1.95	1.88	4.01	9.35	8.70
	Date	Oct 8 '85																									
622	0000	2978.2	2.19	2.87	4.10	87	44.3	2950	2974.7	9.27	9.32	622	641	50.1	57.6	455	229651	171	43.4	2855	1391	1.92	1.95	1.88	4.01	9.36	8.70
623	0007	2978.5	2.61	2.93	4.21	86	45.4	2950	2975.2	9.29	9.33	622	588	50.3	57.7	454	230254	171	43.5	1857	1392	1.92	1.91	1.84	4.01	9.36	8.70
624	0015	2978.8	2.17	2.94	4.04	87	45.9	2940	2975.6	9.27	9.31	622	636	50.1	57.9	454	230959	172	43.7	2239	1393	1.92	1.97	1.90	4.01	9.37	8.70
625	0027	2979.1	1.52	2.78	4.06	86	46.0	2950	2976.2	9.29	9.30	622	631	50.3	57.6	451	232023	172	43.9	7032	1397	1.93	2.08	2.01	4.01	9.38	8.70
626	0034	2979.4	2.86	2.92	3.90	86	45.4	2960	2976.4	9.26	9.26	623	634	50.0	57.9	445	232575	172	44.0	2023	1397	1.94	1.88	1.81	4.01	9.39	8.70
627	0040	2979.7	2.87	2.89	3.84	87	45.9	2970	2976.7	9.21	9.22	623	676	52.1	58.1	445	233121	172	44.1	1817	1398	1.94	1.88	1.82	4.01	9.39	8.70
628	0043	2980.0	2.20	2.92	4.09	86	45.3	2980	2976.9	9.22	9.28	623	690	51.9	58.0	444	233819	173	44.2	2166	1399	1.95	1.95	1.89	4.01	9.39	8.70
629	0055	2980.3	2.70	2.95	4.09	86	47.2	2970	2977.1	9.22	9.30	623	688	52.3	58.3	442	234400	173	44.3	1722	1400	1.95	1.92	1.85	4.01	9.39	8.70
630	0103	2980.6	2.18	2.72	3.81	87	45.2	2970	2977.4	9.22	9.31	622	695	51.3	58.4	437	235124	173	44.5	2230	1402	1.96	1.96	1.89	4.01	9.39	8.70
631	0110	2980.9	2.90	2.76	3.96	86	44.3	2970	2977.7	9.23	9.33	622	684	51.2	58.3	435	235668	174	44.6	1815	1402	1.96	1.86	1.79	4.01	9.39	8.70
632	0117	2981.2	2.39	2.82	4.13	85	44.6	2950	2978.0	9.23	9.32	621	679	51.1	58.1	433	236324	174	44.7	1989	1403	1.96	1.92	1.85	4.02	9.39	8.70
633	0124	2981.6	2.87	2.74	3.96	86	42.9	2950	2978.2	9.24	9.35	621	655	51.4	58.3	429	236972	174	44.8	1758	1404	1.97	1.85	1.78	4.02	9.38	8.70
634	0130	2981.9	2.63	2.73	3.82	87	44.1	2940	2978.5	9.25	9.36	620	656	51.8	58.6	427	237473	175	44.9	1953	1405	1.97	1.89	1.82	4.02	9.38	8.70
635	0143	2982.5	2.63	3.08	3.92	84	44.5	2940	2978.9	9.26	9.33	621	702	52.2	58.4	421	238483	175	45.1	1992	1406	1.98	1.89	1.82	4.02	9.36	8.70
636	0149	2982.8	2.72	2.99	3.85	83	43.3	2940	2979.1	9.27	9.38	621	660	52.4	58.7	421	239040	176	45.2	1733	1406	1.98	1.86	1.79	4.02	9.36	8.70
637	0154	2983.1	4.16	2.94	4.17	84	44.6	2930	2979.2	9.27	9.36	621	642	52.5	58.5	418	239433	176	45.3	1378	1406	1.99	1.75	1.69	4.02	9.36	8.70
638	0210	2983.4	2.34	2.67	4.20	87	43.6	2940	2979.7	9.29	9.30	620	650	52.6	58.1	415	240001	176	45.4	1471	1407	1.99	1.87	1.80	4.02	9.35	8.70
639	0217	2983.7	2.56	2.63	3.55	88	44.1	2940	2980.0	9.24	9.35	621	654	52.5	58.2	401	240626	176	45.5	1626	1408	2.00	1.91	1.84	4.02	9.35	8.70
640	0224	2984.0	2.53	2.84	3.35	87	42.5	2960	2980.3	9.27	9.36	622	672	52.6	58.6	398	241251	177	45.6	1815	1409	2.00	1.88	1.82	4.02	9.35	8.70
641	0232	2984.3	2.43	2.67	3.55	87	42.3	2960	2980.6	9.27	9.35	623	655	52.8	58.5	395	241905	177	45.8	2134	1410	2.01	1.90	1.83	4.02	9.34	8.70
642	0239	2984.6	2.52	2.76	3.52	88	42.1	2970	2980.9	9.26	9.35	624	679	53.0	58.6	393	242541	177	45.9	2014	1411	2.01	1.89	1.82	4.02	9.34	8.70
643	0246	2984.9	2.63	2.82	3.53	89	42.1	3000	2981.2	9.27	9.32	626	673	53.3	58.5	390	243154	178	46.0	2040	1412	2.01	1.87	1.80	4.02	9.34	8.70
644	0259	2985.2	3.06	2.90	3.53	86	44.6	2900	2981.7	9.26	9.29	613	667	53.3	58.4	388	243729	178	46.1	2020	1412	2.02	1.85	1.78	4.02	9.35	8.70
645	0306	2985.5	2.41	2.92	3.50	88	43.1	2890	2982.0	9.24	9.32	612	669	54.3	58.1	383	244353	178	46.2	2073	1413	2.02	1.91	1.84	4.03	9.35	8.70
646	0311	2985.8	3.40	2.85	3.60	88	42.6	2890	2982.3	9.22	9.31	612	673	54.4	58.2	381	244822	179	46.3	1552	1413	2.03	1.80	1.73	4.03	9.35	8.70
647	0320	2986.1	2.17	3.03	3.55	89	42.5	2900	2982.6	9.23	9.32	612	675	54.5	57.9	379	245565	179	46.5	2333	1415	2.03	1.94	1.86	4.03	9.36	8.70
648	0327	2986.4	2.50	3.00	3.36	88	42.6	2890	2983.0	9.24	9.33	612	643	54.7	58.1	374	246246	179	46.6	1809	1416	2.04	1.89	1.82	4.03	9.36	8.70
649	0332	2986.8	3.58	2.94	3.38	91	42.2	2910	2983.2	9.23	9.34	613	634	54.8	58.0	373	246709	179	46.7	1436	1416	2.04	1.79	1.72	4.03	9.36	8.70
650	0339	2987.1	2.66	3.09	4.34	89	43.2	2890	2983.3	9.23	9.32	611	607	54.9	58.0	371	247315	180	46.8	1838	1417	2.05	1.88	1.81	4.03	9.36	8.70
651	0345	2987.3	3.04	3.15	4.22	87	43.2	2890	2983.6	9.23	9.34	610	612	55.3	58.1	370	247813	180	46.9	1625	1417	2.05	1.84	1.77	4.03	9.36	8.70
652	0351	2987.7	2.83	3.20	7.53	79	44.1	2860	2983.9	9.20	9.34	607	600	55.3	58.3	367	248374	180	47.0	1757	1418	2.05	1.84	1.77	4.03	9.36	8.70
653	0353	2988.0	15.8	3.71	4.75	86	41.5	2850	2983.9	9.20	9.34	607	601	55.3	58.3	367	248472	181	47.0	331	1416	2.05	1.33	1.26	4.03	9.36	8.70
654	0354	2988.3	14.7	3.74	4.98	87	42.7	2850	2984.0	9.22	9.34	606	606	55.3	58.0	366	248577	181	47.0	329	1414	2.06	1.37	1.30	4.03	9.36	8.70
+ Flow check at 2988.5m.																											
656	0359	2988.6	10.4	3.57	4.93	88	44.0	2790	2984.1	9.22	9.34	334	228	55.3	58.0	384	248669	181	47.0	455	1412	2.06	1.50	1.42	4.03	9.31	8.70
657	0401	2988.9	18.9	3.29	4.37	86	39.9	2830	2984.2	9.25	9.33	603	564	55.4	57.9	373	248780	182	47.1	317	1410	2.06	1.27	1.20	4.03	9.36	8.70
658	0402	2989.2	8.99	3.56	4.68	85	43.7	2820	2984.2	9.25	9.33	604	532	55.4	57.9	370	248861	182	47.1	507	1408	2.06	1.52	1.45	4.03	9.36	8.70
659	0403	2989.5	11.3	3.74	4.63	84	42.9	2830	2984.3	9.25	9.33	604	576	55.4	57.9	367	249002	182	47.1	475	1407	2.06	1.44	1.37	4.03	9.36	8.70
660	0404	2989.8	15.2	3.71	4.79	84	44.0	2830	2984.3	9.23	9.38	604	574	55.4	57.8	364	249102	183	47.1	342	1405	2.06	1.36	1.29	4.04	9.36	8.70
+ Circulate returns at 2990m.																											
662	0542	2990.1	8.80	3.94	4.87	85	45.4	2890	2989.5	9.20	9.32	614	654	59.7	62.9	331	249292	183	47.2	511	1405	2.06	1.55	1.48	4.04	9.31	8.70
663	0543	2990.4	18.7	4.02	4.85	85	45.9	2900	2989.5	9.21	9.33	613	645	60.0	63.1	329	249337	183	47.2	454	1403	2.06	1.50	1.43	4.04	9.31	8.70
664	0545	2990.7	8.86	4.10	6.16	82	46.9	2910	2989.5	9.21	9.33	614	619	60.0	63.1	330	249503	183	47.3	666	1402	2.06	1.56	1.49	4.04	9.31	8.70
665	0549	2991.0	4.20	3.93	6.33	84	46.1	2900	2989.5	9.21	9.35	614	611	59.9	61.9	330	249868	184	47.3	1246	1401	2.06	1.78	1.71	4.04	9.31	8.70
666	0552	2991.3	7.70	4.03	5.17	85	45.8	2830	2989.5	9.20	9.33	612	611	59.9	61.1	330	250070	184	47.4	679	1400	2.07	1.60	1.53	4.04	9.31	8.70
667	0554	2991.6	7.41	3.88	5.45	85	45.3	2890	2989.5	9.20	9.33	613	622	59.9	61.1	328	250280	184	47.4	724	1399	2.07	1.60	1.53	4.04	9.31	8.70
668	0557	2991.9	6.11	3.84	4.84	86	45.7	2900	2989.5	9.21	9.34	613	614	59.9	60.9	328	250536	185	47.5	796	1398	2.07	1.67	1.60	4.04	9.31	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MX	MXB	ECD	EST FM PR
669	0600	2992.2	7.51	3.89	4.63	86	45.9	2890	2989.5	9.19	9.31	613	638	59.8	60.8	327	253743	135	47.5	691	1397	2.07	1.61	1.54	4.04	9.31	8.70
670	0602	2992.5	6.26	3.70	5.26	85	46.5	2890	2989.5	9.19	9.31	613	641	59.8	60.8	326	253990	135	47.6	967	1396	2.07	1.67	1.60	4.04	9.31	8.70
671	0607	2992.8	3.88	3.49	4.82	84	46.5	2880	2989.5	9.18	9.34	612	634	59.7	60.7	325	251380	136	47.6	1128	1395	2.08	1.81	1.74	4.04	9.31	8.70
672	0616	2993.2	3.64	2.99	4.56	85	43.8	2810	2989.5	9.20	9.31	595	521	59.2	60.2	337	251483	136	47.7	1053	1394	2.08	1.83	1.76	4.04	9.30	8.70
673	0623	2993.8	2.65	3.26	4.68	87	44.6	2870	2989.5	9.24	9.32	610	612	58.6	60.6	327	252106	136	47.8	2745	1392	2.08	1.91	1.84	4.04	9.31	8.70
674	0627	2994.1	4.30	3.27	4.34	87	46.4	2860	2989.5	9.19	9.34	609	609	58.2	59.8	327	252454	137	47.8	1071	1392	2.08	1.79	1.71	4.05	9.31	8.70
675	0630	2994.4	5.60	3.60	4.61	87	47.7	2850	2989.5	9.18	9.34	609	618	57.7	60.1	328	252724	137	47.9	863	1391	2.09	1.72	1.65	4.05	9.31	8.70
676	0635	2994.7	3.47	3.39	4.52	88	47.9	2870	2989.5	9.19	9.34	609	605	57.3	60.3	329	253183	137	48.0	1395	1391	2.09	1.87	1.80	4.05	9.31	8.70
677	0641	2995.0	2.81	3.01	3.99	87	48.3	2880	2989.5	9.20	9.37	610	589	56.7	59.4	329	253747	138	48.1	1957	1392	2.09	1.94	1.87	4.05	9.31	8.70
678	0651	2995.3	1.98	3.07	3.74	87	47.9	2870	2989.5	9.21	9.36	610	591	56.4	59.6	338	254545	138	48.2	2443	1393	2.10	2.04	1.97	4.05	9.31	8.70
679	0658	2995.6	2.77	3.17	3.87	89	48.5	2890	2989.5	9.23	9.35	610	588	55.6	59.2	345	255149	138	48.4	1979	1394	2.10	1.95	1.88	4.05	9.31	8.70
680	0717	2995.9	1.25	3.21	3.94	88	48.7	2800	2990.0	9.27	9.34	600	629	53.4	58.0	368	255401	139	48.6	4424	1398	2.11	2.23	2.12	4.05	9.31	8.70
681	0725	2996.2	2.42	3.32	4.54	84	47.8	2360	2990.7	9.26	9.36	607	621	53.2	58.3	362	257047	139	48.7	1372	1399	2.12	1.97	1.89	4.05	9.31	8.70
682	0731	2996.5	3.12	3.46	4.19	83	48.2	2830	2991.4	9.28	9.39	610	623	53.0	57.5	362	257534	139	48.8	1648	1400	2.12	1.90	1.82	4.05	9.31	8.70
683	0737	2996.8	3.16	3.54	4.17	84	48.3	2870	2992.0	9.28	9.38	610	627	53.6	57.5	360	258009	190	48.9	1628	1400	2.12	1.90	1.82	4.05	9.31	8.70
684	0742	2997.1	3.66	3.44	4.29	86	47.9	2890	2992.4	9.25	9.35	612	627	54.0	57.6	358	258438	190	49.0	1451	1400	2.13	1.85	1.78	4.05	9.31	8.70
685	0747	2997.4	3.30	3.42	4.22	86	48.4	2860	2993.0	9.26	9.33	609	634	54.7	57.2	347	258915	190	49.1	1530	1400	2.13	1.89	1.81	4.05	9.31	8.70
686	0753	2997.7	3.07	3.54	4.44	86	47.9	2850	2993.3	9.24	9.34	607	640	54.9	57.3	354	259431	190	49.2	1734	1400	2.13	1.90	1.83	4.05	9.31	8.70
687	0757	2998.0	5.27	3.39	4.96	85	47.7	2840	2993.5	9.24	9.34	608	660	54.9	57.3	353	259724	191	49.2	934	1399	2.14	1.73	1.66	4.05	9.31	8.70
688	0800	2998.3	5.25	3.51	4.78	86	48.1	2860	2993.8	9.24	9.34	608	634	55.0	57.4	352	260020	191	49.3	921	1399	2.14	1.74	1.66	4.06	9.32	8.70
689	0805	2998.6	3.96	3.52	4.40	85	47.6	2870	2994.0	9.23	9.33	610	629	55.1	57.6	351	260414	191	49.4	1122	1398	2.14	1.82	1.74	4.06	9.32	8.70
690	0809	2998.9	4.12	3.41	4.36	85	48.3	2830	2994.3	9.25	9.35	606	627	55.2	57.6	351	260790	192	49.4	1239	1398	2.14	1.81	1.74	4.06	9.32	8.70
691	0817	2999.3	2.62	3.32	4.25	86	47.8	2850	2994.6	9.25	9.34	608	619	55.3	57.5	348	261439	192	49.6	2525	1399	2.15	1.95	1.87	4.06	9.33	8.70
692	0825	2999.5	1.94	3.28	4.13	86	48.4	2870	2995.0	9.25	9.35	611	633	55.0	57.8	323	262173	192	49.7	2695	1401	2.15	2.05	1.97	4.06	9.34	8.70
693	0834	2999.8	2.19	3.31	4.13	86	48.0	2880	2995.2	9.27	9.34	612	641	54.7	57.6	325	262394	193	49.8	2424	1402	2.16	2.00	1.93	4.06	9.34	8.70
694	0841	3000.1	2.52	3.34	4.21	87	47.4	2870	2995.3	9.25	9.32	612	637	54.4	57.7	322	263521	193	50.0	1917	1403	2.16	1.95	1.88	4.06	9.34	8.70
695	0853	3000.5	1.53	3.30	4.21	87	47.8	2890	2995.7	9.22	9.28	615	615	55.1	57.6	322	264558	193	50.2	3475	1406	2.17	2.11	2.03	4.06	9.35	8.70
696	0900	3000.8	2.36	3.19	4.03	86	47.7	2900	2996.1	9.22	9.28	613	638	55.7	57.5	320	265227	194	50.3	2227	1407	2.18	1.98	1.90	4.06	9.36	8.70
697	0906	3001.1	2.35	3.43	5.01	87	48.6	2910	2996.4	9.22	9.29	613	644	55.7	57.6	320	265701	194	50.4	2203	1408	2.18	1.99	1.91	4.06	9.36	8.70
698	0907	3001.4	14.7	3.71	7.63	78	46.4	2910	2996.5	9.23	9.28	613	622	55.7	57.4	320	265793	194	50.4	430	1406	2.18	1.38	1.30	4.06	9.36	8.70
699	0911	3001.7	4.73	3.10	4.72	80	47.2	2890	2996.7	9.23	9.28	612	615	55.7	57.4	320	266125	194	50.5	2465	1405	2.18	1.73	1.66	4.06	9.36	8.70
700	0912	3002.0	12.0	3.94	5.41	90	47.7	2890	2996.8	9.22	9.29	612	619	55.6	57.5	320	266261	195	50.5	468	1403	2.18	1.49	1.41	4.06	9.36	8.70
701	0913	3002.3	19.7	3.90	4.78	88	47.4	2900	2996.9	9.22	9.29	612	625	55.6	57.5	320	266341	195	50.5	251	1402	2.18	1.33	1.25	4.06	9.36	8.70
+ Flow check at 3002.5m.																											
703	0923	3002.6	12.1	3.54	5.04	88	47.7	2830	2997.1	9.20	9.29	584	547	55.5	57.6	333	266535	195	50.5	433	1400	2.19	1.48	1.40	4.06	9.36	8.70
704	0924	3002.9	13.2	3.40	4.23	87	47.3	2830	2997.2	9.23	9.29	604	608	55.4	57.4	328	266654	196	50.6	452	1399	2.19	1.45	1.37	4.07	9.37	8.70
705	0926	3003.2	14.7	3.87	5.06	86	47.7	2840	2997.3	9.23	9.29	605	576	55.4	57.4	324	266755	196	50.6	335	1397	2.19	1.41	1.34	4.07	9.37	8.70
706	0934	3003.5	2.17	3.05	5.50	86	48.6	2840	2998.0	9.23	9.31	606	604	55.1	57.3	317	267490	196	50.7	2323	1399	2.19	2.01	1.93	4.07	9.37	8.70
707	0938	3003.8	4.71	3.27	3.96	88	48.1	2870	2998.3	9.24	9.31	608	616	55.2	57.3	317	267818	197	50.8	965	1398	2.20	1.77	1.69	4.07	9.37	8.70
708	0948	3004.1	1.79	3.05	3.76	88	48.6	2880	2998.8	9.21	9.31	611	646	55.3	57.5	315	268718	197	51.0	2894	1400	2.20	2.08	2.00	4.07	9.36	8.70
709	1000	3004.4	1.57	3.02	3.48	89	49.0	2890	2999.2	9.24	9.32	612	632	55.4	57.5	315	269754	197	51.2	3004	1403	2.21	2.13	2.05	4.07	9.35	8.70
710	1010	3004.7	1.83	3.11	3.52	89	48.4	2880	2999.6	9.25	9.33	613	629	55.5	57.9	315	270645	197	51.3	2600	1405	2.22	2.07	1.99	4.07	9.35	8.70
711	1021	3005.0	1.62	3.01	3.41	88	48.5	2870	3000.0	9.24	9.33	612	631	55.5	57.8	323	271659	198	51.5	4137	1408	2.22	2.11	2.03	4.07	9.35	8.70
712	1029	3005.3	2.40	3.08	3.49	88	48.7	2870	3000.3	9.26	9.32	612	630	53.9	57.8	335	272327	198	51.6	2164	1409	2.23	1.99	1.91	4.07	9.35	8.70
713	1038	3005.6	1.98	3.12	3.47	90	49.0	2910	3000.8	9.24	9.32	615	635	52.5	57.9	342	273149	198	51.8	2613	1410	2.23	2.06	1.98	4.07	9.34	8.70
714	1049	3005.9	1.63	3.10	4.29	89	48.8	2900	3002.1	9.26	9.34	614	643	52.3	57.2	350	274148	199	52.0	3458	1413	2.24	2.12	2.03	4.07	9.34	8.70
715	1056	3006.2	2.70	3.25	4.34	88	48.6	2910	3002.8	9.27	9.34	614	626	52.3	57.0	354	274741	199	52.1	1836	1413	2.25	1.96	1.87	4.07	9.33	8.70
716	1101	3006.6	3.60	3.21	4.14	88	48.3	2870	3003.0	9.26	9.33	614	585	52.2	56.9	359	275228	199	52.2	1581	1414	2.25	1.86	1.78	4.07	9.33	8.70
717	1106	3006.9	3.35	3.17	4.08	88	47.1	2890	3003.4	9.29	9.23	612	611	52.3	56.8	364	275661	200	52.3	1453	1413	2.25	1.87	1.79	4.07	9.33	8.70
718	1113	3007.2	2.96	3.29	4.23	87	47.6	2870	3003.6	9.30	9.29	610	534	52.4	56.6	368	276242	200	52.4	1650	1414	2.26	1.91	1.83	4.08	9.33	8.70

+51

AMOCO AUST. Tilana No.1

329222

Data Printed at time 00:03 Date Oct 10 '85
Data Recorded at time 11:18 Date Oct 8 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
719	1118	3007.5	3.83	3.42	4.18	87	48.9	2930	3003.7	9.29	9.30	615	592	52.5	56.9	372	276653	200	52.4	1320	1414	2.26	1.85	1.77	4.08	9.34	8.70
720	1121	3007.8	5.74	3.40	4.34	87	47.5	2890	3003.8	9.31	9.31	612	535	53.2	56.7	374	276912	201	52.5	870	1413	2.26	1.71	1.63	4.08	9.34	8.70
721	1124	3008.1	4.76	3.47	4.35	88	48.7	2890	3003.9	9.32	9.32	611	589	53.2	56.6	376	277246	201	52.6	1234	1412	2.26	1.78	1.70	4.08	9.34	8.70
722	1131	3008.4	2.78	3.27	4.04	88	48.1	2900	3004.1	9.32	9.32	614	583	53.1	56.7	381	277821	201	52.7	1750	1413	2.27	1.94	1.85	4.08	9.34	8.70
723	1137	3008.7	2.91	3.24	4.01	89	46.5	2930	3004.3	9.28	9.32	615	600	53.0	56.3	383	278376	201	52.8	1672	1413	2.27	1.90	1.82	4.08	9.35	8.70
724	1145	3009.0	2.36	3.13	3.94	88	43.4	2890	3004.5	9.27	9.33	614	587	53.1	56.8	386	279061	202	52.9	2434	1414	2.28	1.92	1.84	4.08	9.35	8.70
725	1153	3009.3	2.24	3.09	3.80	89	43.7	2930	3004.8	9.28	9.34	615	623	53.1	56.7	388	279783	202	53.0	2240	1416	2.28	1.94	1.86	4.08	9.35	8.70
726	1202	3009.6	2.26	3.13	3.97	89	43.9	2890	3005.1	9.28	9.34	614	617	53.2	56.9	393	280539	202	53.2	2356	1417	2.29	1.94	1.86	4.08	9.37	8.70
727	1209	3009.9	2.31	3.27	3.91	88	44.0	2880	3005.3	9.27	9.34	613	630	53.3	56.8	397	281202	203	53.3	2399	1418	2.29	1.93	1.85	4.08	9.37	8.70
728	1219	3010.2	1.99	3.35	3.81	88	44.4	2880	3005.6	9.27	9.32	612	608	53.4	56.3	401	282048	203	53.5	2737	1420	2.30	1.98	1.90	4.08	9.38	8.70
729	1226	3010.5	2.51	3.05	3.74	89	44.5	2900	3006.0	9.28	9.33	615	625	53.4	56.6	404	282658	203	53.6	1995	1420	2.30	1.91	1.83	4.08	9.38	8.70
730	1235	3010.8	1.97	3.02	3.73	88	44.0	2900	3006.5	9.29	9.30	615	618	53.4	56.4	408	283476	204	53.7	2458	1422	2.31	1.98	1.90	4.08	9.38	8.70
731	1243	3011.1	2.27	3.04	3.60	89	44.0	2880	3006.9	9.29	9.30	613	622	53.4	56.6	411	284190	204	53.9	2128	1423	2.31	1.94	1.86	4.08	9.38	8.70
732	1252	3011.4	1.99	3.02	3.59	88	44.1	2900	3007.7	9.24	9.32	616	618	53.5	56.6	415	285027	204	54.0	2770	1425	2.32	1.98	1.89	4.09	9.38	8.70
733	1301	3011.7	2.03	3.03	3.76	88	44.4	2910	3008.1	9.21	9.30	616	619	53.6	56.2	420	285814	204	54.2	2559	1427	2.33	1.97	1.89	4.09	9.39	8.70
734	1320	3012.1	2.26	3.06	3.55	88	41.0	2920	3008.6	9.25	9.31	537	438	53.8	56.7	450	286564	205	54.3	2188	1428	2.33	1.90	1.81	4.09	9.37	8.70
735	1322	3013.0	2.45	3.23	5.09	81	44.6	2930	3008.6	9.25	9.31	599	510	53.8	56.7	443	286608	206	54.3	1605	1422	2.33	1.91	1.85	4.09	9.39	8.70
736	1327	3013.3	2.73	3.28	4.82	87	43.5	2940	3008.9	9.19	9.31	619	601	53.4	56.7	434	287190	206	54.4	2954	1422	2.34	1.87	1.79	4.09	9.39	8.70
737	1335	3013.6	2.24	3.05	3.71	88	43.4	2960	3009.2	9.20	9.31	621	594	53.2	56.3	434	287902	206	54.6	2328	1424	2.34	1.93	1.85	4.09	9.39	8.70
738	1338	3013.9	6.06	3.21	4.70	87	42.1	2950	3009.4	9.20	9.31	621	619	53.2	56.6	434	288165	207	54.6	1005	1423	2.34	1.62	1.54	4.09	9.39	8.70
739	1339	3014.2	18.8	3.46	4.35	88	38.1	2950	3009.4	9.20	9.31	621	608	53.2	56.6	435	288245	207	54.6	260	1421	2.34	1.25	1.17	4.09	9.39	8.70
740	1340	3014.5	21.6	3.38	4.16	87	39.9	2940	3009.4	9.20	9.31	621	624	53.2	56.6	434	288318	207	54.6	221	1419	2.34	1.23	1.15	4.09	9.39	8.70
741	1342	3014.8	10.2	3.59	4.40	87	40.7	2950	3009.4	9.20	9.31	621	627	53.2	56.6	434	288471	208	54.7	549	1418	2.35	1.45	1.37	4.09	9.39	8.70
742	1345	3015.1	5.44	3.12	3.75	88	41.8	2930	3009.6	9.23	9.30	620	597	53.2	56.8	436	288774	208	54.7	1304	1417	2.35	1.65	1.57	4.09	9.39	8.70
743	1349	3015.4	4.20	3.59	4.03	88	42.2	2950	3009.7	9.22	9.31	620	602	53.3	56.7	452	289139	208	54.8	1083	1417	2.35	1.73	1.65	4.09	9.39	8.70
744	1351	3015.7	9.65	3.86	4.52	87	41.1	2950	3009.8	9.23	9.30	621	611	53.3	56.6	462	289309	208	54.8	559	1415	2.35	1.47	1.39	4.10	9.39	8.70
745	1352	3016.0	20.1	3.94	4.42	87	38.6	2960	3009.8	9.23	9.30	621	615	53.3	56.6	466	289379	209	54.8	218	1414	2.35	1.24	1.16	4.10	9.39	8.70
+ Flow check and circulate returns.																											
747	1538	3016.3	39.1	3.04	4.34	78	32.0	2940	3015.6	9.19	9.18	622	632	58.8	61.9	498	289418	209	54.9	207	1413	2.35	.97	.90	4.10	9.31	8.70
748	1539	3016.7	22.3	3.21	3.62	86	38.9	2940	3015.6	9.19	9.18	622	614	58.8	61.9	498	289428	209	54.9	379	1411	2.35	1.21	1.15	4.10	9.31	8.70
749	1539	3016.9	46.0	3.37	4.22	87	42.3	2940	3015.6	9.19	9.18	622	604	58.8	61.9	499	289455	210	54.9	84	1408	2.35	1.04	.96	4.10	9.32	8.70
750	1540	3017.2	12.2	3.75	4.27	87	43.0	2940	3015.6	9.19	9.19	623	581	59.0	61.8	499	289579	210	54.9	470	1406	2.35	1.44	1.35	4.10	9.32	8.70
751	1542	3017.5	10.0	3.75	4.22	88	41.9	2930	3015.6	9.19	9.19	623	559	59.0	61.8	499	289739	210	54.9	486	1405	2.35	1.48	1.40	4.10	9.32	8.70
752	1544	3017.8	8.02	3.69	4.27	87	42.1	2940	3015.6	9.18	9.17	623	570	59.0	61.0	500	289936	211	55.0	804	1404	2.36	1.55	1.47	4.10	9.32	8.70
753	1549	3018.1	3.54	3.33	4.16	88	42.7	2930	3015.6	9.17	9.16	623	585	59.1	59.9	499	290339	211	55.0	1470	1404	2.36	1.80	1.72	4.10	9.32	8.70
754	1554	3018.4	3.86	3.46	3.95	89	42.9	2940	3015.6	9.18	9.15	623	586	59.1	59.7	499	290805	211	55.1	1349	1404	2.36	1.78	1.69	4.10	9.32	8.70
755	1559	3018.7	3.77	3.36	4.16	89	43.2	2950	3015.6	9.19	9.15	622	564	59.0	59.5	499	291232	211	55.2	1420	1404	2.37	1.79	1.71	4.10	9.33	8.70
756	1603	3019.0	5.16	3.46	4.16	88	41.9	2950	3015.6	9.18	9.16	622	541	58.5	59.6	500	291542	212	55.3	990	1403	2.37	1.68	1.59	4.10	9.32	8.70
757	1608	3019.3	3.13	3.26	3.91	88	43.2	2940	3015.6	9.19	9.18	622	545	58.9	59.2	499	292054	212	55.3	1824	1403	2.37	1.84	1.76	4.10	9.32	8.70
758	1617	3019.7	2.06	3.14	3.64	88	42.7	2940	3015.6	9.23	9.20	621	512	58.8	59.1	507	292835	212	55.5	2938	1405	2.38	1.96	1.87	4.10	9.32	8.70
759	1624	3020.0	2.52	3.13	3.57	87	43.2	2940	3015.6	9.25	9.22	621	492	58.7	58.9	505	293469	213	55.6	1992	1406	2.38	1.90	1.82	4.11	9.32	8.70
760	1633	3020.3	2.18	3.20	3.65	87	43.4	2940	3015.6	9.26	9.26	621	522	58.6	59.0	506	294249	213	55.8	2275	1407	2.39	1.95	1.86	4.11	9.32	8.70
761	1640	3020.6	2.96	3.26	3.68	87	42.8	2940	3015.6	9.25	9.29	622	562	58.5	59.3	506	294734	213	55.9	1810	1407	2.39	1.85	1.77	4.11	9.32	8.70
762	1643	3020.9	4.60	3.63	4.12	87	42.8	2940	3015.6	9.28	9.28	622	545	58.5	59.0	506	295104	214	55.9	1118	1407	2.39	1.72	1.64	4.11	9.31	8.70
763	1649	3021.2	3.04	3.39	4.26	87	43.6	2940	3015.6	9.23	9.28	621	581	58.3	59.0	502	295623	214	56.0	1765	1407	2.40	1.85	1.77	4.11	9.31	8.70
764	1659	3021.5	2.50	3.35	4.67	87	40.7	2860	3015.6	9.24	9.29	582	493	58.3	58.9	516	295936	214	56.1	2019	1406	2.40	1.77	1.38	4.11	9.30	8.70
765	1706	3021.8	6.05	3.49	4.50	87	41.9	2890	3015.9	9.22	9.28	614	603	58.0	59.1	502	296547	215	56.2	917	1407	2.40	1.63	1.55	4.11	9.31	8.70
766	1710	3022.1	3.79	3.45	4.22	87	42.5	2880	3016.6	9.20	9.29	613	627	58.0	58.4	501	296898	215	56.3	1140	1407	2.41	1.78	1.69	4.11	9.31	8.70
767	1718	3022.4	2.53	3.30	4.01	88	42.5	2880	3017.4	9.20	9.28	613	605	58.0	58.6	498	297567	215	56.4	1979	1408	2.41	1.90	1.81	4.11	9.31	8.70
768	1721	3022.7	6.82	3.47	4.50	88	42.4	2880	3017.5	9.20	9.28	613	633	58.0	58.6	500	297801	215	56.4	742	1407	2.41	1.61	1.52	4.11	9.31	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW l/MIN IN	FLOW l/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	NKB	ECD	EST FM PR
769	1725	3023.0	4.19	3.54	4.16	88	42.5	2333	3017.7	9.17	9.31	613	621	57.9	58.8	498	298164	216	56.5	892	1406	2.42	1.75	1.66	4.11	9.31	8.70
770	1727	3023.3	8.42	3.65	4.36	88	42.4	2330	3017.8	9.17	9.30	614	635	57.7	58.3	498	298346	216	56.5	576	1405	2.42	1.54	1.46	4.11	9.31	8.70
771	1730	3023.6	5.42	3.37	3.79	89	42.8	2390	3018.1	9.17	9.30	614	616	57.7	58.3	496	298655	216	56.6	900	1405	2.42	1.68	1.59	4.11	9.32	8.70
772	1735	3023.9	2.98	3.36	3.73	89	43.4	2370	3018.4	9.17	9.29	613	594	57.7	58.3	493	299127	217	56.7	1293	1405	2.42	1.86	1.78	4.12	9.32	8.70
773	1741	3024.2	3.65	3.30	3.68	89	43.6	2380	3018.7	9.16	9.30	614	560	57.6	58.3	493	299587	217	56.8	1441	1405	2.43	1.80	1.72	4.12	9.33	8.70
774	1745	3024.5	4.25	3.53	4.07	88	42.4	2390	3018.8	9.18	9.30	613	573	57.6	58.2	490	299964	217	56.8	1117	1404	2.43	1.74	1.65	4.12	9.33	8.70
775	1750	3024.8	3.26	3.41	3.88	89	43.9	2390	3018.9	9.18	9.30	614	570	57.6	58.2	489	300457	218	56.9	1596	1405	2.43	1.84	1.75	4.12	9.33	8.70
776	1758	3025.1	2.30	3.34	3.85	88	43.5	2900	3019.2	9.22	9.29	614	548	57.5	58.6	491	301138	218	57.1	1795	1405	2.44	1.93	1.85	4.12	9.34	8.70
777	1803	3025.5	3.64	3.47	3.72	88	44.4	2380	3019.4	9.22	9.29	614	543	57.4	58.4	491	301587	218	57.2	1293	1406	2.44	1.81	1.72	4.12	9.34	8.70
778	1808	3025.8	3.47	3.58	4.20	87	44.2	2390	3019.6	9.22	9.29	613	562	57.4	58.4	491	302038	218	57.2	1362	1405	2.44	1.82	1.73	4.12	9.34	8.70
779	1816	3026.1	2.51	3.27	4.03	88	43.1	2390	3020.0	9.23	9.28	613	549	57.5	58.4	490	302582	219	57.4	2673	1406	2.45	1.90	1.81	4.12	9.34	8.70
780	1827	3026.4	1.68	3.23	3.71	86	45.0	2390	3020.5	9.22	9.28	613	554	57.5	58.3	487	303619	219	57.5	3438	1409	2.45	2.04	1.96	4.12	9.33	8.70
781	1836	3026.7	1.87	3.34	4.17	87	43.9	2390	3021.2	9.22	9.28	612	538	57.5	58.5	486	304464	219	57.7	2774	1410	2.46	2.00	1.91	4.12	9.33	8.70
782	1838	3027.0	14.7	3.66	4.20	86	42.0	2900	3021.2	9.24	9.29	613	518	57.5	58.4	485	304573	220	57.7	536	1409	2.46	1.36	1.28	4.12	9.33	8.70
783	1839	3027.3	17.7	3.83	4.23	86	41.3	2900	3021.3	9.24	9.29	613	529	57.5	58.4	486	304660	220	57.7	301	1407	2.46	1.30	1.22	4.12	9.33	8.70
784	1840	3027.6	13.7	3.75	4.04	87	41.2	2870	3021.4	9.24	9.29	612	527	57.5	58.4	487	304772	220	57.8	432	1406	2.46	1.38	1.29	4.12	9.33	8.70
785	1849	3027.9	1.90	3.37	3.79	87	43.6	2900	3021.9	9.27	9.30	614	518	57.6	58.3	487	305592	221	57.9	3269	1407	2.47	1.99	1.90	4.12	9.33	8.70
786	1859	3028.2	1.91	3.25	3.63	87	44.0	2900	3022.3	9.27	9.31	614	541	57.6	58.4	485	306421	221	58.1	2623	1409	2.47	1.99	1.91	4.13	9.32	8.70
787	1911	3028.5	1.54	3.31	3.75	87	43.9	2390	3023.6	9.27	9.33	614	546	57.6	58.4	481	307452	221	58.3	2939	1411	2.48	2.06	1.97	4.13	9.31	8.70
788	1922	3028.8	1.84	3.30	3.95	86	44.6	2900	3024.1	9.26	9.33	613	553	57.7	58.5	477	308377	222	58.5	3108	1414	2.49	2.02	1.93	4.13	9.31	8.70
789	1929	3029.1	2.30	3.28	3.79	87	44.9	2390	3024.4	9.28	9.33	613	562	57.7	59.1	477	309010	222	58.6	2316	1414	2.49	1.95	1.86	4.13	9.31	8.70
790	1936	3029.4	2.64	3.36	3.77	86	44.1	2390	3024.9	9.30	9.33	614	586	57.8	58.5	475	309608	222	58.7	1907	1415	2.50	1.90	1.81	4.13	9.31	8.70
791	1943	3029.7	4.15	3.50	4.09	86	44.3	2900	3025.1	9.30	9.33	614	562	57.8	58.5	475	309987	222	58.8	1182	1415	2.50	1.77	1.68	4.13	9.31	8.70
792	1951	3030.0	4.62	3.34	4.18	86	43.7	2910	3025.4	9.27	9.34	575	581	57.9	59.0	492	310357	223	58.8	1165	1415	2.50	1.73	1.64	4.13	9.31	8.70
793	1952	3030.3	3.21	2.77	3.46	87	41.8	2940	3025.4	9.24	9.33	635	555	58.0	58.9	487	310430	223	58.8	1447	1413	2.50	1.87	1.83	4.13	9.32	8.70
794	2003	3030.6	2.21	3.13	3.77	86	43.7	2950	3025.5	9.22	9.35	621	590	58.0	58.7	468	311107	223	59.0	2570	1414	2.51	1.94	1.85	4.13	9.34	8.70
795	2013	3030.9	1.33	3.09	3.94	86	44.6	2960	3026.8	9.28	9.37	620	636	58.0	59.2	466	312239	224	59.2	2818	1417	2.52	2.10	2.02	4.13	9.35	8.70
796	2026	3031.2	1.51	3.02	4.21	86	44.8	2960	3027.2	9.28	9.36	620	676	58.1	59.0	461	313330	224	59.4	3529	1420	2.52	2.07	1.98	4.13	9.36	8.70
797	2032	3031.6	3.12	3.24	4.47	87	44.9	2960	3027.3	9.29	9.36	621	585	58.3	59.1	462	313883	224	59.5	1773	1420	2.53	1.35	1.76	4.13	9.36	8.70
798	2036	3031.8	4.42	3.56	4.45	86	43.8	2950	3027.4	9.29	9.36	622	597	58.3	59.1	460	314207	225	59.6	1274	1419	2.53	1.73	1.64	4.13	9.36	8.70
799	2037	3032.2	17.8	3.84	4.42	86	42.9	2960	3027.5	9.28	9.35	621	599	58.3	59.1	461	314296	225	59.6	279	1418	2.53	1.31	1.22	4.13	9.37	8.70
800	2039	3032.5	7.53	3.68	4.33	86	43.3	2960	3027.5	9.28	9.35	621	599	58.3	59.1	461	314488	225	59.6	568	1417	2.53	1.57	1.48	4.14	9.37	8.70
801	2043	3032.8	4.45	3.56	4.26	86	44.2	2960	3027.6	9.28	9.35	622	578	58.2	59.5	460	314840	226	59.7	914	1416	2.53	1.73	1.65	4.14	9.37	8.70
802	2047	3033.1	5.35	3.48	3.93	87	44.3	2970	3027.7	9.32	9.35	621	595	58.3	59.6	457	315156	226	59.8	1032	1416	2.54	1.68	1.59	4.14	9.37	8.70
803	2054	3033.4	2.47	3.41	4.07	87	44.8	2970	3028.0	9.26	9.32	622	611	58.4	59.1	456	315793	226	59.9	2241	1417	2.54	1.92	1.83	4.14	9.37	8.70
804	2100	3033.7	3.06	3.32	3.83	87	44.7	2960	3028.2	9.26	9.32	622	572	58.4	59.5	455	316275	226	60.0	1530	1417	2.54	1.85	1.76	4.14	9.37	8.70
805	2108	3034.0	2.28	3.39	3.83	87	45.3	2970	3028.6	9.27	9.34	623	596	58.6	59.5	453	316968	227	60.1	2151	1418	2.55	1.95	1.86	4.14	9.38	8.70
806	2120	3034.3	1.53	3.29	3.80	87	45.2	2970	3029.5	9.27	9.35	622	593	58.7	59.8	450	318003	227	60.3	3545	1420	2.56	2.07	1.98	4.14	9.37	8.70
807	2132	3034.6	1.57	3.24	3.87	86	44.5	2970	3029.8	9.27	9.35	640	623	58.8	59.6	446	319059	227	60.5	3246	1423	2.56	2.05	1.96	4.14	9.37	8.70
808	2140	3034.9	2.08	3.35	3.88	86	44.4	2970	3030.1	9.26	9.33	623	589	58.8	59.6	445	319776	228	60.6	2436	1424	2.57	1.96	1.87	4.14	9.38	8.70
809	2158	3035.2	1.38	3.24	3.93	86	44.1	2890	3030.6	9.29	9.35	616	582	58.8	60.1	443	320963	228	60.9	4485	1427	2.58	2.08	1.99	4.14	9.37	8.70
810	2209	3035.5	1.76	3.16	3.97	87	43.3	2870	3031.6	9.26	9.36	611	604	58.8	59.3	442	321323	228	61.0	2383	1429	2.58	2.00	1.91	4.14	9.37	8.70
811	2221	3035.8	1.54	3.14	3.74	87	44.7	2870	3032.4	9.28	9.37	611	599	59.0	59.9	439	322855	229	61.2	3054	1431	2.59	2.06	1.97	4.14	9.37	8.70
812	2231	3036.1	1.33	3.11	3.81	86	44.5	2880	3032.9	9.28	9.36	612	599	59.0	60.1	438	323715	229	61.4	2479	1433	2.60	2.00	1.91	4.14	9.37	8.70
813	2241	3036.4	1.71	3.27	3.91	86	45.2	2880	3033.2	9.27	9.38	611	612	59.2	60.2	436	324637	229	61.6	2652	1435	2.60	2.03	1.94	4.14	9.37	8.70
814	2251	3036.7	1.93	3.30	4.38	87	44.3	2870	3033.4	9.29	9.38	614	616	59.4	60.3	432	325456	229	61.7	2789	1436	2.61	1.98	1.89	4.15	9.38	8.70
815	2253	3037.0	6.45	3.46	6.12	79	42.8	2890	3033.5	9.29	9.38	611	616	59.4	59.8	433	325686	230	61.8	832	1436	2.61	1.58	1.49	4.15	9.38	8.70
816	2256	3037.3	7.15	3.59	4.34	87	43.7	2860	3033.6	9.29	9.38	611	619	59.5	59.9	432	325907	230	61.8	774	1435	2.61	1.59	1.50	4.15	9.38	8.70
817	2259	3037.6	6.47	3.60	4.07	86	43.8	2870	3033.7	9.29	9.38	613	610	59.5	59.9	432	326149	230	61.9	732	1434	2.61	1.62	1.53	4.15	9.38	8.7[illegible]
818	2300	3037.9	17.1	3.62	3.88	86	42.9	2870	3033.7	9.29	9.38	613	606	59.5	59.9	433	326239	231	61.9	303	1432	2.61	1.32	1.23	4.15	9.38	8.70

AMOCO AUST. Tilana No.1 329224 Data Printed at time 00:11 Date Oct 10 '85
Data Recorded at time 23:01 Date Oct 9 '85 156

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TV	DXC	MX	MXB	ECD	EST FM PR
819	2301	3038.2	15.4	3.57	3.99	87	42.6	2870	3033.7	9.28	9.38	610	608	59.5	60.3	432	326342	231	61.9	362	1431	2.61	1.35	1.26	4.15	9.38	8.70
820	2309	3038.6	16.6	3.47	4.13	86	40.9	2820	3033.9	9.26	9.37	600	579	59.5	60.4	446	326445	231	61.9	312	1429	2.61	1.31	1.22	4.15	9.38	8.70
821	2309	3038.9	20.0	3.62	4.14	88	43.3	2810	3033.9	9.26	9.37	602	602	59.5	60.4	443	326527	232	61.9	211	1428	2.62	1.29	1.19	4.15	9.38	8.70
822	2310	3039.2	21.8	3.76	4.73	89	41.3	2810	3033.9	9.26	9.37	602	610	59.5	60.4	440	326600	232	62.0	227	1426	2.62	1.25	1.16	4.15	9.38	8.70
823	2311	3039.5	32.8	3.71	4.43	89	39.8	2800	3033.9	9.26	9.37	601	605	59.5	60.4	439	326649	232	62.0	151	1424	2.62	1.12	1.03	4.15	9.38	8.70
824	2317	3039.8	41.0	3.21	4.10	84	34.2	2860	3034.0	9.26	9.38	591	557	59.5	60.1	447	326694	232	62.0	177	1424	2.62	.99	.90	4.15	9.38	8.70
825	2317	3040.1	55.2	3.49	4.08	87	40.0	2860	3034.0	9.26	9.38	599	573	59.5	60.1	445	326719	233	62.0	78	1421	2.62	.96	.87	4.15	9.38	8.70
826	2318	3040.4	23.8	3.67	4.35	88	38.9	2860	3034.1	9.26	9.38	607	603	59.5	60.1	441	326786	233	62.0	233	1420	2.62	1.19	1.11	4.15	9.38	8.70
827	2319	3040.7	26.7	3.70	4.40	87	39.6	2870	3034.1	9.26	9.38	607	610	59.5	60.1	440	326844	233	62.0	179	1418	2.62	1.17	1.08	4.15	9.38	8.70
+ Flow check and circulate returns at 3040.9m.																											
	Date	Oct 9 '85																									
829	0106	3041.0	23.4	3.57	4.15	88	39.4	2780	3040.0	9.18	9.31	602	593	64.3	65.2	405	326906	234	62.0	208	1416	2.62	1.21	1.12	4.16	9.33	8.70
830	0106	3041.3	27.6	3.35	4.06	87	39.1	2800	3040.0	9.18	9.31	603	584	64.3	65.2	475	326961	234	62.0	165	1415	2.62	1.16	1.07	4.16	9.33	8.70
831	0108	3041.6	13.5	3.95	4.23	88	41.7	2810	3040.0	9.18	9.31	601	588	64.3	65.2	407	327080	234	62.0	359	1414	2.62	1.39	1.30	4.16	9.33	8.70
832	0109	3041.9	10.8	3.94	4.33	88	43.5	2800	3040.0	9.18	9.31	603	599	64.3	65.2	405	327224	235	62.1	495	1412	2.62	1.48	1.39	4.16	9.34	8.70
833	0112	3042.2	8.26	4.04	4.87	89	43.9	2800	3040.0	9.18	9.34	602	612	64.3	64.9	404	327419	235	62.1	637	1411	2.62	1.56	1.47	4.16	9.33	8.70
834	0114	3042.5	9.04	4.26	5.51	87	43.7	2800	3040.0	9.18	9.34	602	613	64.3	64.9	403	327593	235	62.1	548	1410	2.62	1.53	1.44	4.16	9.34	8.70
835	0116	3042.8	6.76	4.04	5.94	87	43.7	2810	3040.0	9.18	9.32	602	582	64.3	64.0	403	327830	236	62.2	661	1409	2.62	1.61	1.52	4.16	9.33	8.70
836	0120	3043.1	4.89	3.87	4.89	87	44.4	2800	3040.0	9.18	9.33	603	569	64.3	63.8	403	328152	236	62.2	875	1408	2.63	1.72	1.62	4.16	9.33	8.70
837	0123	3043.4	5.82	3.87	4.81	86	44.7	2810	3040.0	9.18	9.33	603	567	64.3	63.8	403	328422	236	62.3	831	1408	2.63	1.67	1.58	4.16	9.33	8.70
838	0128	3043.7	3.39	3.41	4.24	87	44.6	2810	3040.0	9.18	9.32	603	565	64.1	63.7	403	328833	236	62.4	1444	1408	2.63	1.83	1.74	4.16	9.32	8.70
839	0133	3044.0	4.31	3.65	5.37	86	43.9	2850	3040.0	9.20	9.33	608	586	64.0	63.9	400	329247	237	62.5	1206	1408	2.63	1.75	1.66	4.16	9.32	8.70
840	0138	3044.3	3.40	3.36	4.27	86	44.3	2860	3040.0	9.17	9.34	609	581	63.6	63.1	400	329711	237	62.5	1763	1408	2.64	1.83	1.73	4.16	9.32	8.70
841	0143	3044.6	3.32	3.34	4.27	87	44.5	2860	3040.0	9.17	9.32	609	588	63.4	62.8	398	330128	237	62.6	1431	1408	2.64	1.80	1.70	4.16	9.31	8.70
842	0148	3045.0	3.74	3.57	4.22	87	44.4	2870	3040.0	9.17	9.31	609	569	63.3	62.6	397	330551	238	62.7	1416	1407	2.64	1.80	1.71	4.16	9.31	8.70
843	0152	3045.3	4.37	3.75	4.49	88	44.3	2870	3040.0	9.17	9.30	609	593	63.1	62.7	396	330919	238	62.8	1190	1407	2.65	1.76	1.67	4.17	9.31	8.70
844	0156	3045.6	4.75	3.77	4.49	87	43.9	2870	3040.0	9.17	9.30	610	583	63.1	62.7	395	331252	238	62.8	962	1407	2.65	1.72	1.63	4.17	9.31	8.70
845	0200	3045.9	4.55	3.80	4.67	87	43.8	2870	3040.0	9.16	9.30	609	536	63.0	62.2	395	331601	239	62.9	1024	1406	2.65	1.74	1.64	4.17	9.31	8.70
846	0204	3046.2	4.55	3.72	4.47	87	43.7	2870	3040.0	9.17	9.30	611	588	62.8	62.6	393	331948	239	63.0	1092	1406	2.65	1.74	1.64	4.17	9.31	8.70
847	0206	3046.5	6.95	3.97	4.71	88	43.5	2870	3040.0	9.18	9.31	610	583	62.7	62.3	394	332130	239	63.0	720	1405	2.65	1.61	1.52	4.17	9.31	8.70
848	0209	3046.8	7.62	4.01	4.80	88	44.3	2870	3040.0	9.18	9.31	611	610	62.7	62.3	393	332390	240	63.1	654	1404	2.66	1.59	1.50	4.17	9.31	8.70
849	0210	3047.1	5.64	3.86	4.72	87	44.3	2870	3040.0	9.18	9.31	610	604	62.7	62.3	394	332508	240	63.1	759	1403	2.66	1.68	1.59	4.17	9.31	8.70
850	0213	3047.4	5.97	3.63	4.61	88	43.7	2880	3040.0	9.19	9.30	611	589	62.6	62.0	392	332774	240	63.1	869	1402	2.66	1.66	1.56	4.17	9.31	8.70
851	0216	3047.7	6.01	3.66	4.42	87	43.8	2890	3040.0	9.19	9.27	610	591	62.4	62.4	391	333039	240	63.2	855	1401	2.66	1.66	1.56	4.17	9.31	8.70
852	0219	3048.0	6.21	3.66	4.50	87	43.9	2870	3040.0	9.19	9.27	609	608	62.4	62.4	391	333293	241	63.2	774	1400	2.66	1.65	1.55	4.17	9.31	8.70
853	0223	3048.3	4.63	3.55	4.38	87	43.8	2870	3040.0	9.20	9.28	609	620	62.3	62.2	389	333634	241	63.3	1082	1400	2.67	1.73	1.64	4.17	9.31	8.70
854	0227	3048.6	4.77	3.52	4.09	87	44.1	2870	3040.0	9.17	9.28	609	617	62.2	61.6	388	333965	241	63.4	1078	1400	2.67	1.73	1.63	4.17	9.31	8.70
855	0230	3048.9	3.52	3.42	3.96	87	44.1	2880	3040.0	9.18	9.26	611	620	62.1	61.9	388	334249	242	63.4	1305	1399	2.67	1.82	1.72	4.17	9.31	8.70
856	0240	3049.2	3.96	3.26	3.94	89	44.4	2830	3040.5	9.19	9.22	330	299	61.9	62.0	405	334269	242	63.4	1307	1397	2.67	1.79	1.72	4.18	9.33	8.70
857	0242	3049.5	3.60	3.41	4.57	88	43.4	2920	3040.9	9.21	9.28	611	610	61.7	61.7	396	334422	242	63.4	1318	1396	2.67	1.81	1.74	4.18	9.35	8.70
858	0245	3049.8	5.66	3.60	4.75	88	44.5	2910	3041.3	9.18	9.30	612	642	61.5	62.0	387	334722	243	63.5	1222	1395	2.67	1.69	1.62	4.18	9.35	8.70
859	0249	3050.2	4.70	3.63	4.37	87	44.2	2910	3041.7	9.18	9.30	612	644	61.5	62.0	383	335056	243	63.6	1137	1395	2.67	1.72	1.65	4.18	9.35	8.70
860	0253	3050.5	4.41	3.59	4.28	87	44.1	2900	3042.1	9.19	9.33	612	644	61.4	61.5	381	335415	243	63.6	1225	1395	2.68	1.75	1.66	4.18	9.30	8.70
861	0258	3050.8	4.05	3.57	4.29	88	44.4	2910	3042.5	9.20	9.32	613	639	61.4	60.8	380	335807	243	63.7	1137	1395	2.68	1.78	1.69	4.18	9.30	8.70
862	0302	3051.1	3.99	3.54	4.39	88	44.7	2910	3042.9	9.21	9.25	613	620	61.2	61.2	380	336208	244	63.8	1294	1394	2.68	1.79	1.70	4.18	9.30	8.70
863	0306	3051.4	5.53	3.65	4.55	88	44.2	2910	3043.2	9.23	9.32	612	619	61.2	61.2	379	336498	244	63.8	866	1394	2.69	1.69	1.59	4.18	9.30	8.70
864	0310	3051.7	3.64	3.59	4.24	88	44.1	2910	3043.6	9.25	9.33	612	596	61.1	61.1	379	336919	244	63.9	1106	1394	2.69	1.81	1.72	4.18	9.30	8.70
865	0314	3052.0	4.59	3.71	4.63	87	44.3	2910	3043.9	9.27	9.29	613	532	61.1	61.5	378	337267	245	64.0	1056	1393	2.69	1.74	1.65	4.18	9.31	8.70
866	0320	3052.3	3.16	3.64	4.46	89	44.4	2910	3044.4	9.27	9.31	613	535	61.0	61.2	330	337779	245	64.1	1763	1393	2.69	1.86	1.76	4.18	9.31	8.70
867	0324	3052.6	4.03	3.63	4.25	89	43.5	2910	3044.8	9.28	9.30	613	577	61.0	61.2	378	338171	245	64.1	1290	1393	2.70	1.78	1.68	4.18	9.31	8.70

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Data Printed at time 00:21 Date Oct 10 '85
Data Recorded at time 03:31 Date Oct 9 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW l/MIN IN	FLOW l/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MX	MXB	ECD	EST FM PR
868	0331	3352.9	2.73	3.55	4.53	90	44.1	2900	3345.4	9.20	9.32	613	647	60.8	61.3	374	336787	246	64.3	2264	1394	2.73	1.90	1.80	4.18	9.32	8.70
869	0337	3353.2	3.36	3.41	4.19	89	44.4	2920	3345.8	9.23	9.31	614	644	60.9	61.2	371	339259	246	64.4	1405	1394	2.73	1.84	1.74	4.18	9.33	8.70
870	0343	3353.5	2.71	3.61	4.25	88	44.9	2920	3346.4	9.26	9.35	613	643	60.9	61.1	369	339863	246	64.5	1781	1394	2.71	1.91	1.81	4.19	9.32	8.70
871	0351	3353.8	2.50	3.57	4.37	89	44.6	2910	3347.0	9.26	9.35	612	647	60.9	61.2	367	340500	247	64.6	1918	1395	2.71	1.93	1.83	4.19	9.33	8.70
872	0355	3354.1	3.77	3.50	4.30	88	43.9	2920	3347.4	9.23	9.34	613	639	60.9	60.8	367	340926	247	64.7	1395	1395	2.72	1.79	1.70	4.19	9.33	8.70
873	0402	3354.4	2.90	3.59	4.40	88	44.3	2920	3348.0	9.24	9.35	613	673	60.9	60.6	364	341483	247	64.8	1877	1395	2.72	1.88	1.78	4.19	9.34	8.70
874	0406	3354.7	4.54	3.61	4.43	89	44.2	2920	3348.3	9.24	9.34	613	644	60.8	60.9	363	341842	247	64.8	1144	1395	2.72	1.75	1.65	4.19	9.34	8.70
875	0412	3355.0	2.67	3.52	4.47	88	44.6	2920	3348.9	9.24	9.33	612	617	60.7	61.0	362	342442	248	64.9	2162	1396	2.73	1.91	1.81	4.19	9.34	8.70
876	0418	3355.3	3.08	3.57	4.43	88	45.3	2930	3349.3	9.22	9.33	613	625	60.7	61.3	361	342963	248	65.0	1650	1396	2.73	1.87	1.77	4.19	9.35	8.70
877	0425	3355.6	2.98	3.68	4.54	89	44.5	2930	3349.6	9.23	9.31	614	618	60.6	61.3	397	343505	248	65.1	1598	1396	2.73	1.87	1.77	4.19	9.35	8.70
878	0429	3355.9	3.72	3.59	4.55	88	44.6	2930	3350.0	9.29	9.34	613	620	59.6	61.1	429	343938	249	65.2	1443	1396	2.74	1.80	1.71	4.19	9.35	8.70
879	0435	3356.2	3.26	3.61	4.40	89	44.4	2930	3350.4	9.24	9.35	612	625	57.6	60.9	457	344434	249	65.3	1718	1396	2.74	1.84	1.74	4.19	9.37	8.70
880	0440	3356.5	3.58	3.46	4.33	89	44.5	2940	3350.8	9.25	9.35	613	630	55.5	60.8	477	344873	249	65.4	1469	1396	2.74	1.80	1.71	4.19	9.37	8.70
881	0447	3356.9	2.70	3.56	4.27	88	45.2	2930	3351.3	9.31	9.34	612	618	54.2	60.4	505	345516	250	65.5	2023	1397	2.75	1.90	1.80	4.19	9.37	8.70
882	0452	3357.1	3.49	3.46	4.33	87	44.5	2920	3351.5	9.32	9.36	612	632	53.8	60.3	506	345936	250	65.6	1465	1397	2.75	1.81	1.72	4.19	9.37	8.70
883	0456	3357.4	4.41	3.42	4.33	89	44.7	2920	3351.8	9.32	9.35	612	637	53.7	59.6	507	346302	250	65.7	1151	1397	2.75	1.75	1.65	4.19	9.37	8.70
884	0504	3357.8	2.31	3.45	4.39	88	45.3	2910	3352.1	9.27	9.34	613	625	54.2	59.4	515	346994	251	65.8	3333	1397	2.76	1.95	1.85	4.20	9.38	8.70
885	0511	3358.1	2.72	3.45	4.39	89	45.3	2910	3352.4	9.31	9.35	613	602	55.0	59.1	513	347590	251	65.9	2003	1398	2.76	1.91	1.81	4.20	9.38	8.70
886	0518	3358.4	2.77	3.52	4.56	88	45.5	2890	3352.8	9.36	9.35	612	606	55.8	59.1	510	348205	251	66.0	2016	1399	2.77	1.91	1.81	4.20	9.39	8.70
887	0523	3358.7	3.17	3.59	4.39	88	45.8	2900	3353.1	9.36	9.34	613	626	56.5	59.3	509	348683	251	66.1	1622	1399	2.77	1.86	1.76	4.20	9.39	8.70
888	0536	3359.0	3.87	3.50	5.53	88	43.9	2900	3353.6	9.30	9.34	611	620	57.4	58.8	505	349133	252	66.2	1477	1399	2.77	1.77	1.67	4.20	9.40	8.70
889	0545	3359.3	2.02	3.42	4.39	87	44.6	2890	3354.1	9.25	9.35	611	623	57.8	59.4	495	349917	252	66.4	2380	1400	2.78	1.97	1.87	4.20	9.41	8.70
890	0552	3359.6	2.43	3.48	4.35	88	44.4	2900	3354.4	9.27	9.31	611	640	58.0	59.8	492	350578	252	66.5	2112	1401	2.78	1.91	1.82	4.20	9.42	8.70
891	0558	3359.9	3.39	3.44	4.51	89	43.8	2890	3354.7	9.30	9.34	611	654	58.3	59.4	490	351059	253	66.5	1505	1401	2.79	1.81	1.71	4.20	9.42	8.70
892	0604	3360.2	2.84	3.48	4.42	87	44.7	2890	3355.1	9.32	9.35	611	606	58.5	59.8	488	351652	253	66.7	1765	1401	2.79	1.87	1.77	4.20	9.42	8.70
893	0612	3360.5	2.32	3.50	4.21	86	44.2	2890	3355.6	9.35	9.35	611	636	58.8	59.9	484	352329	253	66.8	2643	1402	2.80	1.92	1.82	4.20	9.42	8.70
894	0619	3360.8	2.73	3.41	4.13	86	44.5	2890	3355.9	9.33	9.35	611	594	58.8	59.7	477	352905	254	66.9	1835	1403	2.80	1.87	1.78	4.20	9.42	8.70
895	0632	3361.1	1.39	3.55	4.34	89	44.6	2900	3356.7	9.23	9.21	612	578	59.2	59.1	452	354063	254	67.1	$	1405	2.81	2.08	1.98	4.20	9.43	8.70
896	0636	3361.4	5.10	3.46	4.15	85	43.9	2300	3356.8	9.24	9.19	539	460	59.2	59.0	444	354368	254	67.2	1017	1405	2.81	1.68	1.58	4.20	9.42	8.70
897	0644	3361.7	2.13	3.50	4.48	84	45.0	2320	3357.1	9.16	9.13	541	437	59.0	59.1	439	355087	254	67.3	3025	1406	2.81	1.95	1.85	4.21	9.42	8.70
898	0655	3362.0	1.71	3.46	5.70	85	44.7	2900	3357.6	9.27	9.11	609	493	53.7	59.0	431	355939	255	67.5	2666	1408	2.82	2.01	1.91	4.21	9.42	8.70
899	0704	3362.3	2.02	3.59	4.41	88	44.5	2910	3357.9	9.32	9.32	610	587	58.0	58.7	428	356779	255	67.7	2560	1409	2.83	1.97	1.87	4.21	9.40	8.70
900	0713	3362.6	1.95	3.38	6.03	86	44.4	2900	3358.2	9.27	9.34	610	546	58.1	59.7	425	357585	255	67.8	2537	1410	2.83	1.98	1.88	4.21	9.39	8.70
901	0724	3362.9	1.62	3.39	4.24	87	43.8	2900	3358.7	9.23	9.40	610	666	58.0	60.0	436	358559	256	68.0	4650	1412	2.84	2.02	1.92	4.21	9.39	8.70
902	0732	3363.2	2.23	3.54	5.28	89	44.1	2890	3359.1	9.36	9.41	610	638	57.6	59.5	441	359283	256	68.1	2394	1413	2.84	1.94	1.84	4.21	9.39	8.70
903	0739	3363.6	2.89	3.63	4.52	88	44.7	2900	3359.4	9.32	9.40	611	662	57.8	59.8	440	359834	256	68.2	1818	1414	2.85	1.87	1.77	4.21	9.39	8.70
904	0744	3363.9	3.17	3.63	4.38	87	43.9	2890	3359.6	9.34	9.40	611	631	58.1	59.5	438	360332	257	68.3	1921	1414	2.85	1.83	1.73	4.21	9.39	8.70
905	0747	3364.2	7.58	3.86	4.98	86	43.5	2870	3359.7	9.30	9.40	609	646	58.7	59.5	439	360538	257	68.4	638	1413	2.85	1.56	1.46	4.21	9.39	8.70
906	0748	3364.5	16.4	4.24	5.97	86	44.4	2870	3359.8	9.30	9.40	609	651	58.4	59.5	438	360633	257	68.4	323	1412	2.85	1.35	1.25	4.21	9.39	8.70
907	0755	3364.8	2.72	3.58	5.26	87	45.0	2880	3360.1	9.25	9.40	612	668	58.1	59.9	437	361214	258	68.5	3399	1412	2.86	1.89	1.79	4.21	9.39	8.70
908	0801	3365.1	2.73	3.65	4.48	88	43.5	2870	3360.2	9.26	9.40	611	652	58.2	59.4	434	361806	258	68.6	2139	1413	2.86	1.87	1.77	4.21	9.39	8.70
909	0810	3365.4	2.41	3.66	4.40	87	43.6	2880	3360.7	9.27	9.41	611	646	57.9	59.6	432	362534	258	68.8	2314	1414	2.87	1.91	1.81	4.21	9.39	8.70
910	0817	3365.7	2.37	3.48	4.46	87	44.3	2880	3360.9	9.25	9.40	612	653	57.4	59.6	431	363134	258	68.9	1998	1414	2.87	1.92	1.82	4.21	9.39	8.70
911	0822	3366.0	2.27	3.46	3.97	87	46.4	2880	3361.0	9.27	9.41	613	655	57.6	59.0	429	363373	259	68.9	2209	1415	2.87	1.95	1.85	4.22	9.39	8.70

+ Drill to 3366m - Total depth for Tilana No.1.

AMOCO AUST. Tilana No.1 329226 Data Printed at time 06:46 Date Oct 16 '85
Data Recorded at time 03:52 Date Oct 12 '85 158

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
NB#16 SMITH F2 12.25". Start depth 3066m.																												
4	0405	3066.3	5.34	2.97	3.86	88	25.6	2940	3066.0	9.43	9.57	610	642	22.6	38.9	435	1150	.29	.2	647	75812	.01	1.41	1.41	4.22	9.55	8.70	D
5	0409	3066.6	4.67	3.21	4.30	87	38.2	2940	3066.0	9.46	9.55	610	651	23.2	39.9	455	1490	.57	.3	1127	39507	.01	1.62	1.62	4.22	9.55	8.70	D
6	0410	3066.9	19.4	3.21	4.29	87	40.6	2940	3066.0	9.46	9.55	611	684	23.2	39.9	465	1571	.89	.3	249	25118	.01	1.24	1.25	4.22	9.55	8.70	D
7	0411	3067.2	52.0	3.41	4.15	86	41.3	2930	3066.0	9.46	9.55	610	669	23.2	39.9	463	1601	1.19	.3	111	19053	.01	.97	.97	4.22	9.55	8.70	D
8	0412	3067.5	13.6	3.37	4.30	87	40.7	2940	3066.0	9.51	9.53	610	622	24.1	40.0	470	1719	1.51	.3	302	15519	.01	1.35	1.35	4.22	9.55	8.70	D
9	0413	3067.8	18.0	3.61	4.08	86	40.1	2930	3066.0	9.51	9.53	610	634	24.1	40.0	472	1806	1.81	.3	267	12648	.02	1.26	1.26	4.22	9.55	8.70	D
10	0414	3068.1	19:2	3.96	4.23	87	41.1	2930	3066.0	9.51	9.53	609	656	24.1	40.0	474	1896	2.11	.3	288	11100	.02	1.25	1.25	4.22	9.55	8.70	D
11	0415	3068.4	17.6	3.97	4.39	86	41.7	2930	3066.0	9.55	9.42	609	655	25.3	40.7	471	1981	2.42	.4	337	9467	.02	1.28	1.28	4.22	9.55	8.70	D
Flow check at 3068.5m																												
13	0421	3068.8	13.3	3.58	4.32	87	37.8	2870	3066.0	9.53	9.24	602	666	26.4	41.5	481	2103	2.72	.4	406	8550	.02	1.32	1.32	4.22	9.55	8.70	D
14	0422	3069.0	19.9	3.47	4.42	88	40.5	2860	3066.0	9.53	9.24	604	687	26.4	41.5	485	2133	3.03	.4	229	7629	.02	1.24	1.24	4.23	9.56	8.70	D
15	0423	3069.4	49.7	4.04	4.51	88	41.1	2860	3066.0	9.53	9.24	604	681	26.4	41.5	477	2215	3.33	.4	173	7006	.02	.99	.99	4.22	9.56	8.70	D
16	0423	3069.6	18.4	4.20	4.56	90	40.5	2860	3066.0	9.48	9.32	603	699	27.9	42.1	474	2294	3.64	.4	241	6383	.02	1.26	1.27	4.23	9.56	8.70	D
17	0426	3070.0	7.13	3.83	4.23	88	40.8	2870	3066.0	9.48	9.32	605	777	27.9	42.1	468	2531	3.94	.5	2456	5943	.02	1.53	1.53	4.23	9.56	8.70	D
18	0433	3070.3	2.33	3.25	3.75	89	43.2	2850	3066.0	9.33	9.62	605	805	30.7	44.1	461	3182	4.25	.6	2113	5652	.03	1.88	1.89	4.23	9.57	8.70	D
19	0437	3070.6	4.80	3.14	3.79	89	42.1	2850	3066.0	9.31	9.56	605	811	31.6	44.7	455	3542	4.54	.7	1042	5360	.03	1.66	1.66	4.23	9.57	8.70	D
20	0440	3070.9	8.51	3.35	4.59	88	42.8	2850	3066.0	9.28	9.47	605	780	32.4	45.1	452	3730	4.85	.7	622	5061	.03	1.50	1.51	4.23	9.56	8.70	D
21	0441	3071.2	14.4	3.20	3.67	89	40.8	2450	3066.0	9.28	9.47	590	745	32.4	45.1	454	3836	5.16	.7	330	4771	.03	1.34	1.34	4.23	9.56	8.70	D
22	0442	3071.5	17.9	3.29	4.17	86	42.1	2140	3066.0	9.28	9.47	538	700	32.4	45.1	452	3924	5.47	.7	258	4524	.04	1.28	1.28	4.23	9.56	8.70	D
23	0443	3071.8	13.9	3.21	4.15	87	43.4	2140	3066.0	9.37	9.42	519	684	33.2	45.6	452	4039	5.76	.7	366	4319	.04	1.37	1.37	4.23	9.55	8.70	D
24	0444	3072.1	13.9	3.27	4.48	86	43.8	2140	3066.0	9.37	9.42	518	630	33.2	45.6	452	4147	6.08	.8	335	4105	.04	1.37	1.37	4.23	9.55	8.70	D
25	0446	3072.4	11.7	3.42	4.47	96	43.3	2130	3066.0	9.37	9.42	518	638	33.2	45.6	452	4284	6.37	.8	523	3938	.04	1.41	1.42	4.23	9.55	8.70	D
26	0448	3072.7	8.40	3.20	4.54	86	42.7	2140	3066.0	9.34	9.48	517	647	34.1	45.6	450	4464	6.69	.8	565	3776	.04	1.50	1.50	4.23	9.55	8.70	D
27	0450	3073.0	11.6	3.24	4.13	86	42.5	2140	3066.0	9.34	9.48	518	653	34.1	45.6	447	4601	6.99	.9	398	3630	.04	1.41	1.41	4.23	9.55	8.70	D
28	0454	3073.3	4.53	3.01	4.60	86	45.4	2150	3066.0	9.38	9.47	518	617	35.0	45.6	446	4951	7.28	.9	1252	3542	.05	1.71	1.72	4.24	9.55	8.70	D
29	0508	3073.6	4.05	2.96	4.53	87	44.1	2100	3066.0	9.38	9.48	510	596	37.3	45.6	446	5355	7.58	1.0	1392	3444	.05	1.73	1.74	4.23	9.54	8.70	D
30	0510	3074.2	11.7	3.28	3.72	90	45.0	2080	3066.0	9.40	9.47	509	591	38.4	45.9	440	5503	8.18	1.0	942	3217	.05	1.44	1.45	4.24	9.54	8.70	D
31	0517	3074.5	2.39	3.02	3.85	90	43.8	2070	3066.0	9.35	9.49	509	632	39.3	47.5	426	6181	8.49	1.2	2381	3165	.06	1.89	1.89	4.24	9.53	8.70	D
32	0524	3074.8	2.81	2.95	3.77	90	43.7	2090	3066.0	9.32	9.46	511	610	39.8	47.8	419	6760	8.82	1.3	1651	3107	.06	1.84	1.85	4.24	9.53	8.70	D
33	0530	3075.1	3.12	2.88	3.61	89	44.1	2070	3066.0	9.29	9.28	509	723	40.9	47.3	412	7285	9.13	1.4	1662	3057	.07	1.82	1.82	4.24	9.53	8.70	D
34	0540	3075.4	1.57	3.09	3.61	90	42.6	2080	3066.0	9.27	9.29	509	575	42.3	45.7	406	8223	9.43	1.5	3322	3053	.08	2.00	2.00	4.24	9.51	8.70	D
35	0550	3075.7	1.92	2.97	3.67	90	42.3	2090	3066.1	9.25	9.41	510	459	43.0	45.8	397	9072	9.74	1.7	2587	3037	.08	1.94	1.94	4.24	9.50	8.70	D
36	0556	3076.0	2.66	3.06	3.65	89	41.1	2500	3066.7	9.27	9.41	561	487	43.4	45.9	391	9696	10.0	1.8	2165	3002	.09	1.83	1.83	4.24	9.50	8.70	D
37	0557	3076.4	23.2	2.96	3.68	91	40.9	2500	3066.9	9.27	9.41	561	430	43.4	45.9	385	9773	10.3	1.8	559	2930	.09	1.22	1.22	4.24	9.50	8.70	D
38	0609	3076.7	1.56	2.80	3.73	93	40.9	2850	3069.3	9.32	9.55	603	541	44.2	46.7	383	10832	10.6	2.0	$	2928	.10	2.00	1.99	4.24	9.47	8.70	D
39	0616	3077.0	2.70	2.76	3.70	94	42.2	2840	3069.9	9.30	9.56	604	512	44.6	47.7	369	11529	11.0	2.1	1745	2887	.11	1.86	1.86	4.25	9.45	8.70	D
40	0621	3077.3	3.25	2.85	3.52	94	42.9	2820	3070.2	9.27	9.57	603	543	44.8	47.7	362	11965	11.3	2.2	1726	2857	.11	1.82	1.82	4.24	9.44	8.70	D
41	0625	3077.6	3.83	3.19	3.74	94	43.7	2820	3070.9	9.24	9.58	604	561	45.2	48.0	357	12412	11.6	2.3	1309	2817	.12	1.79	1.78	4.25	9.43	8.70	D
42	0634	3077.9	2.36	2.90	3.72	88	43.6	2820	3072.7	9.24	9.60	604	574	45.7	48.3	356	13134	11.9	2.4	2122	2803	.12	1.91	1.91	4.25	9.43	8.70	D
43	0638	3078.2	3.62	2.86	4.53	88	42.0	2810	3073.2	9.28	9.63	605	585	46.1	48.9	356	13548	12.2	2.5	1238	2764	.13	1.76	1.76	4.25	9.42	8.70	D
44	0642	3078.5	5.64	3.18	4.22	88	41.5	2810	3073.3	9.27	9.63	604	565	46.4	49.0	356	13845	12.5	2.6	755	2722	.13	1.63	1.63	4.25	9.42	8.70	D
45	0643	3078.8	23.1	3.35	3.89	88	41.8	2810	3073.3	9.27	9.63	604	565	46.4	49.0	355	13914	12.8	2.6	267	2669	.13	1.22	1.22	4.25	9.42	8.70	D
46	0646	3079.1	5.54	3.08	3.64	89	40.4	2810	3073.7	9.27	9.63	604	582	46.6	48.9	353	14196	13.1	2.6	1321	2621	.13	1.62	1.62	4.25	9.42	8.70	D
47	0652	3079.4	2.61	3.26	4.01	89	41.4	2830	3074.2	9.27	9.62	607	562	47.0	49.5	353	14736	13.4	2.7	1522	2596	.14	1.86	1.86	4.25	9.40	8.70	D
48	0659	3079.7	2.46	3.01	3.53	89	41.5	2830	3074.6	9.34	9.58	609	574	47.4	49.6	351	15394	13.7	2.9	1920	2584	.14	1.88	1.88	4.25	9.40	8.70	D
49	0703	3080.0	5.08	2.88	3.63	88	40.1	2830	3074.8	9.35	9.57	608	584	47.6	49.9	347	15725	14.0	2.9	1095	2551	.15	1.65	1.65	4.25	9.39	8.70	D
50	0704	3080.3	11.9	3.06	3.92	89	40.8	2830	3074.9	9.32	9.56	609	565	47.8	50.1	345	15843	14.3	2.9	390	2505	.15	1.41	1.41	4.25	9.39	8.70	D
51	0705	3080.6	21.0	3.15	3.64	88	38.0	2830	3075.0	9.32	9.56	608	577	47.8	50.1	344	15921	14.6	3.0	240	2460	.15	1.22	1.22	4.25	9.39	8.70	D
52	0706	3080.9	13.5	3.58	4.09	88	41.3	2830	3075.1	9.29	9.56	608	575	48.0	50.6	346	16028	14.9	3.0	417	2421	.15	1.38	1.38	4.25	9.39	8.70	D

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
Flow check at 3081m.																											
54	0713	3081.2	12.4	3.43	4.24	89	39.0	2810	3075.1	9.31	9.55	603	570	48.2	50.6	352	16165	15.2	3.0	522	2375	.15	1.38	1.38	4.26	9.39	8.70
55	0714	3081.5	17.1	3.22	3.94	90	42.5	2800	3075.1	9.31	9.55	606	604	48.2	50.6	350	16259	15.5	3.0	319	2333	.15	1.33	1.33	4.25	9.39	8.70
56	0716	3081.8	8.10	3.34	3.75	88	42.2	2800	3075.2	9.33	9.56	605	609	48.5	50.4	346	16457	15.8	3.1	642	2303	.15	1.54	1.54	4.26	9.39	8.70
57	0721	3082.1	3.00	3.10	3.97	88	42.2	2800	3075.5	9.30	9.55	606	607	48.8	50.5	341	16943	16.1	3.1	2342	2285	.16	1.83	1.83	4.26	9.40	8.70
58	0726	3082.4	3.40	2.96	3.58	90	41.6	2800	3075.7	9.29	9.56	606	548	48.9	51.2	337	17376	16.4	3.2	1581	2270	.16	1.79	1.79	4.26	9.40	8.70
59	0728	3082.7	10.8	3.09	4.10	91	40.5	2810	3075.8	9.29	9.56	606	568	48.9	51.2	336	17529	16.7	3.3	483	2241	.16	1.44	1.44	4.26	9.40	8.70
60	0739	3083.1	11.7	3.11	4.14	91	38.5	2810	3076.2	9.28	9.54	466	382	49.4	51.8	347	17690	17.0	3.3	440	2204	.16	1.40	1.40	4.26	9.38	8.70
61	0740	3083.7	11.2	3.32	4.06	86	41.4	2880	3076.2	9.32	9.51	610	576	49.7	51.3	340	17824	17.7	3.3	390	2134	.17	1.43	1.43	4.26	9.41	8.70
62	0743	3084.0	8.67	3.19	4.10	86	39.5	2830	3076.3	9.32	9.51	614	604	49.7	51.3	335	18005	18.0	3.3	476	2108	.17	1.48	1.48	4.26	9.41	8.70
63	0745	3084.3	6.97	2.99	3.85	87	41.5	2830	3076.4	9.32	9.51	612	588	49.7	51.3	330	18229	18.3	3.4	773	2084	.17	1.57	1.56	4.26	9.41	8.70
64	0750	3084.6	3.65	2.91	3.70	86	38.6	2880	3076.6	9.32	9.51	614	581	49.9	52.1	327	18658	18.6	3.5	1146	2072	.17	1.71	1.71	4.26	9.41	8.70
65	0755	3084.9	3.76	2.77	3.82	85	41.2	2830	3076.9	9.34	9.51	613	528	48.9	52.2	322	19081	18.9	3.6	1568	2066	.18	1.73	1.73	4.26	9.42	8.70
66	0759	3085.2	4.37	3.11	3.91	87	37.5	2830	3077.1	9.36	9.50	612	535	48.7	52.6	325	19446	19.2	3.6	1261	2048	.18	1.65	1.65	4.26	9.42	8.70
67	0803	3085.5	4.90	3.32	4.03	89	39.9	2890	3077.2	9.36	9.50	612	563	48.8	52.6	323	19773	19.5	3.7	1121	2032	.18	1.65	1.65	4.27	9.42	8.70
68	0809	3085.8	3.27	3.18	3.83	89	40.4	2890	3077.5	9.36	9.50	613	543	49.3	52.1	321	20264	19.8	3.8	1988	2024	.19	1.78	1.77	4.26	9.42	8.70
69	0815	3086.1	2.85	3.33	3.75	90	39.1	2890	3077.8	9.36	9.48	612	585	49.5	52.0	319	20829	20.1	3.9	2306	2023	.19	1.80	1.79	4.27	9.43	8.70
70	0819	3086.4	5.68	3.38	4.06	89	40.3	2900	3078.1	9.35	9.50	612	572	49.8	51.9	318	21112	20.4	3.9	927	2006	.19	1.61	1.61	4.27	9.43	8.70
71	0828	3087.0	3.23	3.26	3.72	90	39.9	2890	3079.1	9.32	9.49	612	565	50.4	51.4	317	22017	21.0	4.1	1437	1983	.20	1.77	1.77	4.27	9.44	8.70
72	0833	3087.3	4.09	3.32	3.78	88	40.7	2890	3079.4	9.32	9.51	612	564	50.5	51.6	315	22443	21.3	4.2	1497	1974	.21	1.71	1.70	4.27	9.45	8.70
73	0840	3087.6	2.27	3.19	3.86	87	42.7	2900	3079.9	9.33	9.51	612	561	50.7	51.9	314	23078	21.6	4.3	1766	1974	.21	1.90	1.90	4.27	9.45	8.70
74	0844	3087.9	4.69	3.12	3.94	87	41.1	2890	3080.7	9.32	9.52	612	553	50.8	51.9	311	23417	21.9	4.4	1163	1962	.22	1.67	1.67	4.27	9.45	8.70
75	0852	3088.2	2.37	3.21	3.93	87	42.4	2890	3081.7	9.34	9.48	612	557	51.0	52.1	312	24085	22.2	4.5	2563	1963	.22	1.88	1.88	4.27	9.45	8.70
76	0900	3088.5	2.13	2.94	3.79	89	42.0	2880	3082.1	9.31	9.50	614	536	51.2	52.0	325	24846	22.5	4.6	2195	1968	.23	1.91	1.91	4.27	9.45	8.70
77	0906	3088.9	3.36	3.07	3.65	89	42.8	2880	3082.8	9.37	9.50	613	551	49.4	52.1	343	25368	22.8	4.7	1572	1964	.23	1.79	1.79	4.27	9.45	8.70
78	0911	3089.1	3.99	2.95	4.09	88	42.1	2880	3083.4	9.38	9.50	614	560	48.7	52.2	356	25741	23.1	4.8	1173	1953	.24	1.73	1.73	4.27	9.45	8.70
79	0913	3089.5	7.32	3.11	4.00	87	40.7	2890	3083.8	9.41	9.50	614	567	47.8	52.4	364	25945	23.5	4.8	665	1936	.24	1.54	1.53	4.27	9.45	8.70
80	0917	3089.8	4.39	3.05	3.87	89	40.1	2880	3084.2	9.41	9.50	613	566	47.0	52.5	373	26336	23.7	4.9	1458	1927	.24	1.68	1.68	4.28	9.45	8.70
81	0922	3090.1	3.58	3.17	3.84	89	41.2	2880	3084.5	9.42	9.50	613	558	46.2	52.3	379	26758	24.1	5.0	2294	1919	.25	1.75	1.75	4.28	9.46	8.70
82	0925	3090.4	5.71	2.98	3.71	89	40.8	2880	3084.7	9.44	9.49	614	569	46.3	52.2	381	27057	24.4	5.1	941	1907	.25	1.61	1.61	4.28	9.46	8.70
83	0927	3090.7	9.54	3.07	3.68	90	40.5	2890	3084.8	9.44	9.49	614	565	46.3	52.2	382	27218	24.7	5.1	516	1889	.25	1.47	1.46	4.28	9.46	8.70
84	0930	3091.0	6.44	3.48	4.41	88	41.7	2870	3085.1	9.44	9.49	613	569	46.3	52.2	383	27467	25.0	5.1	810	1875	.25	1.59	1.58	4.28	9.46	8.70
85	0934	3091.3	5.17	3.44	4.05	89	40.7	2870	3085.4	9.44	9.49	612	577	46.6	52.2	387	27794	25.3	5.2	787	1866	.26	1.64	1.64	4.28	9.47	8.70
86	0938	3091.6	4.65	3.23	4.00	89	40.2	2870	3085.5	9.45	9.50	613	588	47.0	52.1	388	28142	25.6	5.3	1690	1860	.26	1.66	1.66	4.28	9.47	8.70
87	0941	3091.9	4.99	3.10	3.71	89	42.5	2860	3085.8	9.44	9.50	613	595	47.7	51.8	386	28464	25.9	5.3	1038	1848	.26	1.67	1.66	4.28	9.47	8.70
88	0943	3092.2	9.81	3.75	4.38	88	40.3	2850	3085.8	9.44	9.50	612	559	47.7	51.8	386	28627	26.2	5.3	540	1832	.26	1.45	1.44	4.28	9.48	8.70
89	0954	3092.5	11.2	3.61	4.60	88	39.5	2860	3086.4	9.44	9.43	613	599	48.5	52.2	430	28790	26.5	5.4	443	1815	.26	1.40	1.40	4.28	9.48	8.70
90	0955	3092.8	10.8	3.11	3.54	86	41.0	2850	3086.5	9.38	9.48	611	595	47.6	52.3	424	28904	26.8	5.4	372	1799	.27	1.42	1.42	4.28	9.48	8.70
91	1004	3093.1	2.01	2.94	4.14	87	41.2	2860	3087.0	9.31	9.49	611	598	46.4	52.3	413	29695	27.1	5.6	1546	1811	.27	1.91	1.90	4.28	9.49	8.70
92	1014	3093.4	1.83	2.78	3.80	87	39.4	2840	3087.5	9.30	9.49	611	565	48.0	52.7	409	30561	27.4	5.7	2536	1816	.28	1.91	1.90	4.29	9.49	8.70
93	1020	3093.7	3.18	2.78	4.21	87	40.8	2840	3087.9	9.36	9.48	611	533	49.2	53.0	409	31060	27.7	5.8	1725	1816	.29	1.77	1.76	4.28	9.49	8.70
94	1025	3094.0	3.37	2.86	3.97	87	40.3	2840	3088.0	9.36	9.48	611	529	50.2	52.9	411	31484	28.0	5.9	1364	1809	.29	1.75	1.74	4.29	9.49	8.70
95	1027	3094.3	9.81	3.15	3.77	87	39.3	2840	3088.1	9.36	9.48	611	528	50.2	52.9	411	31645	28.3	5.9	557	1795	.29	1.43	1.42	4.29	9.49	8.70
96	1029	3094.6	5.89	3.25	4.30	87	43.1	2840	3088.2	9.37	9.47	611	535	50.6	52.8	410	31887	28.6	6.0	728	1783	.29	1.62	1.61	4.29	9.49	8.70
97	1036	3094.9	2.83	3.38	4.19	87	42.8	2830	3088.4	9.34	9.47	611	607	51.2	52.9	404	32451	28.9	6.1	1027	1784	.30	1.83	1.82	4.29	9.49	8.70
98	1039	3095.3	6.16	3.41	4.19	88	43.2	2860	3088.6	9.34	9.46	612	586	51.5	52.8	403	32733	29.2	6.1	878	1774	.30	1.61	1.60	4.29	9.50	8.70
99	1044	3095.5	3.65	3.44	3.85	87	43.2	2840	3088.9	9.35	9.47	611	579	51.7	53.1	401	33126	29.5	6.2	1647	1768	.30	1.76	1.75	4.29	9.50	8.70
100	1050	3095.9	2.68	3.38	4.09	87	41.9	2840	3089.6	9.35	9.47	610	529	52.3	52.7	403	33720	29.9	6.3	1923	1769	.31	1.83	1.83	4.29	9.50	8.70
101	1056	3096.2	3.23	3.39	4.22	87	42.8	2850	3089.9	9.32	9.45	612	516	52.4	52.6	400	34252	30.2	6.4	1727	1768	.31	1.79	1.78	4.29	9.50	8.70
102	1104	3096.5	2.36	3.41	3.98	87	42.3	2840	3090.8	9.32	9.44	611	498	52.6	52.4	402	34871	30.5	6.5	1868	1770	.32	1.87	1.87	4.29	9.49	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
103	1114	3096.8	1.74	3.41	4.80	87	42.0	2840	3091.5	9.28	9.42	611	491	52.8	51.9	400	35785	30.8	6.7	2482	1781	.33	1.96	1.95	4.29	9.48	8.70
104	1118	3097.1	4.12	3.40	3.76	87	42.7	2840	3092.0	9.28	9.42	612	501	52.8	51.9	399	36171	31.1	6.8	1177	1775	.33	1.72	1.71	4.29	9.47	8.70
105	1127	3097.4	2.39	3.34	3.88	87	42.5	2840	3092.6	9.33	9.41	611	497	52.7	52.1	398	36878	31.4	6.9	2599	1780	.34	1.88	1.87	4.29	9.46	8.70
106	1130	3097.7	5.23	3.45	4.34	87	41.5	2840	3092.8	9.32	9.42	611	530	52.7	51.9	398	37162	31.7	7.0	904	1771	.34	1.64	1.63	4.30	9.46	8.70
107	1131	3098.0	18.0	3.50	4.05	87	40.2	2840	3092.8	9.33	9.40	611	490	52.6	52.2	398	37254	32.0	7.0	302	1758	.34	1.27	1.27	4.29	9.45	8.70
108	1132	3098.3	11.8	3.41	3.71	87	40.8	2850	3092.8	9.33	9.40	611	483	52.6	52.2	400	37379	32.3	7.0	374	1745	.34	1.40	1.39	4.30	9.45	8.70
109	1133	3098.6	23.4	3.86	4.16	87	42.4	2840	3092.8	9.33	9.40	611	487	52.6	52.2	397	37445	32.6	7.0	222	1731	.34	1.22	1.21	4.30	9.46	8.70
+ Flow check at 3099m.																											
111	1140	3098.9	9.74	3.77	4.25	88	42.4	2830	3092.9	9.35	9.42	606	479	52.6	52.2	411	37623	32.9	7.1	604	1722	.34	1.48	1.47	4.30	9.45	8.70
112	1144	3099.2	4.26	3.94	4.52	89	43.1	2830	3093.1	9.32	9.36	609	514	52.1	52.1	399	37998	33.2	7.1	5719	1715	.35	1.73	1.72	4.30	9.45	8.70
113	1151	3099.5	2.63	3.39	4.11	89	41.8	2830	3093.4	9.33	9.41	610	515	52.0	52.3	400	38583	33.5	7.3	2084	1715	.35	1.85	1.84	4.30	9.45	8.70
114	1157	3099.8	2.84	3.19	3.84	87	41.3	2830	3093.8	9.33	9.40	609	520	51.9	52.3	401	39166	33.8	7.4	1915	1716	.36	1.82	1.81	4.30	9.45	8.70
115	1200	3100.1	5.96	3.27	3.94	88	42.1	2820	3094.2	9.33	9.41	610	514	51.8	52.7	397	39433	34.1	7.4	937	1709	.36	1.62	1.61	4.30	9.45	8.70
116	1205	3100.4	3.17	2.98	3.93	87	42.1	2840	3094.5	9.35	9.44	610	532	51.8	52.8	401	39874	34.4	7.5	1156	1705	.36	1.80	1.79	4.30	9.45	8.70
117	1217	3100.7	1.54	2.89	3.84	88	42.6	2830	3095.4	9.36	9.47	610	554	51.6	53.2	408	40914	34.7	7.7	2125	1719	.37	2.01	2.01	4.30	9.44	8.70
118	1226	3101.0	2.05	2.83	3.77	88	42.1	2830	3095.8	9.38	9.48	609	578	51.7	53.8	419	41697	35.0	7.8	2509	1725	.38	1.92	1.91	4.30	9.44	8.70
119	1232	3101.3	3.21	2.86	3.86	87	43.2	2810	3096.0	9.41	9.48	610	545	51.3	53.8	421	42194	35.3	7.9	1460	1723	.38	1.81	1.80	4.30	9.44	8.70
120	1242	3101.6	1.84	3.01	3.40	88	42.1	2830	3096.3	9.40	9.45	608	523	51.3	54.4	432	43061	35.6	8.1	2815	1733	.39	1.96	1.95	4.30	9.44	8.70
121	1257	3102.0	3.33	2.72	3.83	87	39.9	2820	3096.8	9.42	9.34	605	498	51.6	54.4	460	43617	35.9	8.2	1545	1732	.40	1.75	1.74	4.31	9.45	8.70
122	1306	3102.3	2.12	2.86	3.57	88	42.0	2810	3097.2	9.35	9.48	606	564	51.5	54.5	458	44370	36.3	8.4	2065	1737	.40	1.91	1.90	4.31	9.46	8.70
123	1309	3102.6	7.31	2.98	3.71	87	41.6	2810	3097.6	9.35	9.48	607	567	51.5	54.6	455	44590	36.5	8.4	771	1729	.41	1.55	1.54	4.31	9.46	8.70
124	1315	3102.9	2.72	3.24	4.35	87	42.1	2810	3098.4	9.36	9.47	606	534	51.8	54.7	461	45117	36.9	8.5	1044	1728	.41	1.84	1.83	4.31	9.46	8.70
125	1316	3103.2	9.65	3.29	4.04	87	42.4	2780	3098.7	9.36	9.47	605	497	51.8	54.7	461	45282	37.2	8.5	540	1718	.41	1.47	1.46	4.31	9.46	8.70
126	1321	3103.5	3.88	3.40	4.29	87	42.6	2810	3099.0	9.35	9.50	606	534	52.0	54.3	465	45693	37.5	8.6	771	1714	.42	1.74	1.73	4.31	9.47	8.70
127	1330	3103.8	2.18	3.34	4.36	87	43.1	2810	3099.4	9.35	9.49	606	548	52.2	54.0	468	46424	37.8	8.7	2764	1719	.42	1.91	1.90	4.31	9.47	8.70
128	1335	3104.1	3.62	3.12	4.06	87	42.0	2820	3099.8	9.37	9.48	607	526	52.3	53.8	471	46904	38.1	8.8	1690	1718	.43	1.75	1.74	4.31	9.47	8.70
129	1337	3104.4	8.01	3.21	3.96	87	41.8	2820	3099.9	9.37	9.48	607	497	52.3	53.8	474	47102	38.4	8.9	675	1709	.43	1.52	1.51	4.31	9.47	8.70
130	1341	3104.7	3.96	3.21	4.06	87	42.5	2810	3100.2	9.37	9.48	606	458	52.6	53.7	475	47471	38.7	8.9	867	1704	.43	1.73	1.72	4.31	9.48	8.70
131	1347	3105.0	3.05	3.34	4.02	87	43.6	2810	3100.3	9.37	9.48	607	470	52.6	53.6	480	47991	39.0	9.0	1695	1704	.44	1.82	1.81	4.31	9.48	8.70
132	1355	3105.3	2.52	3.17	3.86	88	41.4	2810	3100.6	9.40	9.48	607	489	52.5	53.7	484	48673	39.3	9.2	1873	1707	.44	1.85	1.83	4.31	9.48	8.70
133	1400	3105.6	2.94	3.25	3.85	87	41.5	2810	3100.8	9.38	9.46	606	506	52.5	53.9	486	49125	39.6	9.3	1536	1705	.45	1.80	1.79	4.32	9.49	8.70
134	1410	3105.9	2.00	3.19	3.88	87	42.5	2820	3101.2	9.37	9.45	608	531	52.8	54.2	482	49969	39.9	9.4	2369	1713	.45	1.92	1.91	4.31	9.49	8.70
135	1415	3106.2	3.79	3.31	4.04	87	42.4	2820	3101.3	9.36	9.45	607	517	53.1	53.7	482	50360	40.2	9.5	1191	1709	.46	1.74	1.73	4.32	9.49	8.70
136	1419	3106.5	4.44	3.24	4.03	86	43.7	2820	3101.5	9.38	9.44	607	522	53.6	54.1	483	50714	40.5	9.6	1090	1704	.46	1.71	1.70	4.32	9.49	8.70
137	1425	3106.8	3.02	3.06	3.79	87	42.5	2820	3101.7	9.38	9.44	608	509	53.8	54.4	482	51266	40.8	9.7	2187	1705	.46	1.81	1.79	4.32	9.49	8.70
138	1432	3107.1	2.61	3.24	4.04	87	43.4	2820	3101.8	9.39	9.45	608	536	54.0	54.3	481	51842	41.1	9.8	1924	1706	.47	1.86	1.85	4.32	9.49	8.70
139	1436	3107.4	3.97	3.17	4.46	87	41.5	2820	3102.0	9.38	9.44	607	505	54.3	54.7	479	52260	41.4	9.9	1334	1704	.47	1.71	1.70	4.32	9.49	8.70
140	1442	3107.7	3.28	3.05	4.35	87	42.6	2820	3102.4	9.38	9.43	608	547	54.4	55.0	479	52720	41.7	10.0	1476	1701	.48	1.78	1.77	4.32	9.49	8.70
141	1448	3108.1	2.79	3.08	3.83	87	43.0	2820	3103.0	9.40	9.45	608	559	54.6	55.2	477	53309	42.0	10.1	2203	1703	.48	1.84	1.82	4.32	9.49	8.70
142	1456	3108.4	2.38	2.93	3.83	87	43.3	2810	3103.4	9.37	9.45	608	557	54.9	55.9	477	53973	42.3	10.2	2330	1705	.49	1.89	1.87	4.32	9.49	8.70
143	1501	3108.7	3.39	2.98	3.89	87	41.7	2810	3103.6	9.37	9.45	607	575	55.2	55.8	477	54425	42.7	10.3	1450	1703	.49	1.76	1.75	4.32	9.49	8.70
144	1506	3109.0	4.26	3.18	4.00	87	42.8	2820	3103.9	9.37	9.45	607	544	55.2	55.8	473	54806	42.9	10.4	1145	1700	.50	1.71	1.70	4.32	9.49	8.70
145	1511	3109.3	3.15	3.21	4.00	87	44.2	2800	3104.4	9.42	9.42	607	543	55.9	56.2	471	55295	43.3	10.4	1471	1699	.50	1.82	1.80	4.32	9.49	8.70
146	1518	3109.6	2.97	3.12	3.91	87	43.4	2810	3104.7	9.39	9.41	607	499	56.0	55.8	470	55838	43.5	10.6	1870	1700	.51	1.82	1.81	4.32	9.49	8.70
147	1522	3109.9	4.45	3.30	4.53	87	41.8	2810	3104.8	9.47	9.42	607	504	56.1	56.5	472	56189	43.9	10.6	1120	1695	.51	1.68	1.67	4.33	9.50	8.70
148	1526	3110.2	4.01	3.29	4.21	87	43.7	2810	3105.1	9.48	9.42	607	567	56.2	56.6	474	56587	44.2	10.7	1232	1693	.51	1.74	1.73	4.32	9.50	8.70
149	1528	3110.5	9.79	3.30	3.99	87	41.9	2810	3105.2	9.48	9.42	606	566	56.2	56.6	474	56748	44.5	10.7	462	1684	.51	1.46	1.45	4.33	9.50	8.70
150	1530	3110.8	8.22	3.41	3.84	87	42.9	2800	3105.3	9.46	9.43	607	536	56.2	56.2	471	56939	44.8	10.8	618	1676	.51	1.52	1.51	4.33	9.50	8.70
151	1533	3111.1	7.51	3.42	3.99	87	43.0	2800	3105.4	9.44	9.42	605	534	56.3	56.3	468	57171	45.1	10.8	759	1670	.52	1.55	1.53	4.33	9.50	8.70
152	1546	3111.4	4.71	3.19	3.64	88	42.5	2770	3105.7	9.44	9.13	602	532	56.4	55.8	479	57514	45.4	10.9	955	1666	.52	1.68	1.66	4.33	9.51	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	JOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NKB	ECD	EST FM PR
153	1553	3112.1	2.19	3.30	3.48	87	43.0	2840	3106.3	9.37	9.41	610	516	56.1	55.8	469	58591	46.1	11.1	4253	1663	.53	1.91	1.90	4.33	9.51	8.70
154	1604	3112.4	2.82	3.27	3.80	87	41.1	2840	3107.1	9.38	9.42	610	525	56.1	56.5	466	59094	46.3	11.2	2563	1666	.53	1.86	1.86	4.33	9.54	8.70
155	1612	3112.6	1.96	3.13	3.93	86	42.8	2840	3108.1	9.36	9.42	610	554	56.2	56.8	465	59773	46.6	11.3	2577	1669	.54	1.93	1.91	4.33	9.52	8.70
156	1618	3112.9	3.08	3.06	3.55	87	42.2	2840	3108.3	9.41	9.43	610	475	56.4	56.7	466	60316	46.9	11.4	1831	1670	.54	1.79	1.78	4.33	9.52	8.70
157	1623	3113.2	3.45	3.03	3.75	87	41.9	2840	3108.3	9.42	9.42	610	609	56.5	56.5	465	60752	47.2	11.5	1448	1668	.55	1.75	1.74	4.33	9.52	8.70
158	1629	3113.5	3.00	3.35	4.16	87	44.5	2840	3108.3	9.41	9.42	610	543	56.7	56.5	465	61279	47.5	11.6	1480	1668	.55	1.83	1.81	4.34	9.52	8.70
159	1634	3113.8	3.87	3.31	3.90	87	43.3	2840	3108.3	9.42	9.42	610	536	56.7	56.5	464	61683	47.8	11.7	1139	1665	.56	1.74	1.72	4.34	9.52	8.70
160	1639	3114.2	3.52	3.35	3.84	87	45.2	2830	3108.3	9.43	9.41	610	528	56.8	56.4	465	62155	48.1	11.8	1534	1664	.56	1.79	1.78	4.34	9.52	8.70
161	1645	3114.5	3.06	3.32	3.96	87	45.3	2840	3108.3	9.43	9.42	610	484	56.8	56.5	464	62670	48.4	11.9	1694	1664	.56	1.83	1.82	4.34	9.53	8.70
162	1649	3114.8	4.88	3.36	3.61	87	45.0	2840	3108.3	9.45	9.43	610	500	56.8	56.7	464	62985	48.8	11.9	1027	1660	.57	1.69	1.68	4.34	9.53	8.70
163	1654	3115.1	3.43	3.35	3.67	87	45.4	2840	3108.3	9.44	9.41	610	511	56.8	56.7	463	63459	49.1	12.0	1747	1659	.57	1.80	1.78	4.34	9.53	8.70
164	1658	3115.4	4.86	3.28	3.54	87	45.1	2840	3108.3	9.45	9.42	610	574	56.8	56.9	461	63777	49.4	12.1	1050	1655	.57	1.69	1.68	4.34	9.54	8.70
165	1702	3115.7	4.86	3.52	3.88	87	44.0	2840	3108.3	9.45	9.42	610	571	56.8	56.9	459	64102	49.7	12.1	797	1651	.58	1.68	1.66	4.34	9.54	8.70
166	1706	3116.0	4.52	3.45	3.88	87	44.0	2840	3108.3	9.44	9.42	610	486	56.8	57.0	458	64457	49.9	12.2	1102	1648	.58	1.70	1.68	4.34	9.54	8.70
167	1709	3116.3	5.44	3.54	3.83	87	44.4	2840	3108.3	9.43	9.42	611	535	56.9	56.5	458	64747	50.3	12.3	976	1644	.58	1.65	1.63	4.34	9.54	8.70
168	1712	3116.6	5.75	3.42	4.13	87	45.6	2840	3108.3	9.43	9.42	611	522	56.9	56.9	456	65021	50.6	12.3	916	1639	.58	1.65	1.63	4.34	9.54	8.70
169	1717	3116.9	4.18	3.38	4.07	87	44.5	2830	3108.3	9.42	9.41	610	547	57.1	56.8	457	65398	50.9	12.4	1658	1636	.59	1.73	1.71	4.34	9.55	8.70
170	1720	3117.2	5.23	3.79	4.32	87	44.1	2830	3109.0	9.42	9.42	610	544	57.1	56.8	456	65670	51.2	12.4	1007	1632	.59	1.66	1.64	4.34	9.54	8.70
171	1725	3117.5	3.68	3.72	4.27	87	44.1	2830	3111.5	9.42	9.42	609	514	57.1	57.1	454	66100	51.5	12.5	1177	1630	.59	1.76	1.74	4.34	9.53	8.70
172	1728	3117.8	5.27	3.93	4.34	86	44.1	2830	3112.4	9.43	9.42	609	493	57.1	56.6	454	66372	51.8	12.6	923	1625	.60	1.66	1.64	4.35	9.53	8.70
173	1731	3118.1	4.95	3.99	4.50	87	44.8	2820	3112.5	9.45	9.41	609	485	57.2	56.8	453	66691	52.1	12.6	1089	1621	.60	1.68	1.67	4.35	9.53	8.70
174	1738	3118.4	2.64	4.09	4.57	87	44.3	2830	3112.5	9.47	9.45	609	601	57.2	57.0	454	67288	52.4	12.8	1775	1623	.60	1.86	1.84	4.35	9.53	8.70
175	1742	3118.7	5.32	4.13	4.57	87	41.9	2830	3112.6	9.46	9.45	610	576	57.2	56.9	453	67588	52.7	12.8	952	1619	.61	1.63	1.61	4.35	9.53	8.70
176	1743	3119.0	12.8	4.10	4.44	88	42.3	2840	3112.7	9.46	9.45	610	537	57.2	56.9	451	67722	53.0	12.8	436	1613	.61	1.39	1.37	4.35	9.53	8.70
177	1747	3119.3	4.03	4.06	4.50	87	44.1	2830	3112.9	9.46	9.44	610	560	57.2	56.7	451	68083	53.3	12.9	765	1610	.61	1.74	1.72	4.35	9.53	8.70
178	1752	3119.6	4.04	4.16	4.47	87	42.7	2840	3113.0	9.46	9.45	609	578	57.2	56.9	453	68474	53.6	13.0	1193	1608	.61	1.72	1.70	4.35	9.54	8.70
179	1755	3119.9	6.18	4.05	4.58	87	42.9	2840	3113.2	9.47	9.47	609	589	57.2	56.9	451	68731	53.9	13.0	808	1603	.62	1.60	1.58	4.35	9.54	8.70
180	1759	3120.3	5.01	4.10	4.50	86	42.4	2840	3113.4	9.45	9.46	609	503	57.3	57.4	455	69063	54.2	13.1	1202	1601	.62	1.65	1.63	4.35	9.54	8.70
181	1811	3120.6	3.55	3.93	4.64	87	41.4	2860	3114.0	9.54	9.47	570	424	57.4	57.0	470	69502	54.5	13.2	2000	1599	.62	1.73	1.72	4.35	9.55	8.70
182	1814	3121.2	5.58	3.05	3.85	87	42.3	2860	3114.1	9.44	9.44	612	529	57.3	56.6	457	69828	55.1	13.2	1971	1587	.63	1.61	1.60	4.35	9.56	8.70
183	1818	3121.5	4.53	3.47	4.57	85	41.9	2850	3114.4	9.47	9.45	610	512	57.2	56.8	455	70169	55.5	13.3	1037	1584	.63	1.66	1.65	4.35	9.56	8.70
184	1821	3121.8	7.26	3.94	4.26	85	43.0	2850	3114.5	9.50	9.46	610	528	57.1	57.0	450	70382	55.7	13.4	713	1580	.63	1.54	1.52	4.36	9.56	8.70
185	1826	3122.1	3.54	3.79	4.32	86	42.7	2840	3114.9	9.44	9.44	609	577	57.1	57.2	449	70822	56.0	13.4	6256	1579	.63	1.75	1.73	4.36	9.57	8.70
186	1829	3122.4	5.56	3.95	4.27	87	43.5	2850	3115.1	9.47	9.50	610	650	57.1	57.0	449	71078	56.3	13.5	820	1575	.64	1.63	1.61	4.36	9.57	8.70
187	1833	3122.7	4.01	3.92	4.34	87	43.3	2850	3115.3	9.48	9.53	610	595	57.1	56.8	450	71421	56.7	13.6	1171	1572	.64	1.72	1.70	4.36	9.58	8.70
188	1836	3123.0	6.12	3.91	4.29	87	43.7	2840	3115.5	9.45	9.49	610	577	57.2	56.9	444	71679	57.0	13.6	775	1568	.64	1.60	1.58	4.36	9.58	8.70
189	1841	3123.3	3.42	3.94	4.27	87	43.4	2850	3116.0	9.45	9.45	610	611	57.2	57.0	445	72149	57.3	13.7	1154	1567	.65	1.77	1.75	4.36	9.58	8.70
190	1846	3123.6	3.29	3.94	4.46	87	44.0	2840	3116.5	9.49	9.49	610	609	57.3	57.4	447	72574	57.6	13.8	1384	1566	.65	1.78	1.77	4.36	9.58	8.70
191	1851	3123.9	3.99	4.06	4.46	87	43.6	2850	3116.9	9.50	9.52	610	592	57.3	57.4	445	72975	57.9	13.9	1338	1565	.65	1.72	1.70	4.36	9.58	8.70
192	1853	3124.2	9.71	4.00	4.23	87	45.5	2840	3117.0	9.50	9.52	609	589	57.3	57.4	441	73119	58.2	13.9	471	1559	.65	1.49	1.47	4.36	9.58	8.70
193	1858	3124.5	3.45	3.93	4.40	86	44.4	2850	3117.4	9.49	9.51	610	667	57.4	57.1	446	73575	58.5	14.0	894	1558	.66	1.77	1.75	4.36	9.58	8.70
194	1904	3124.8	2.90	4.05	4.48	87	43.8	2830	3117.9	9.50	9.50	610	624	57.6	57.0	442	74119	58.8	14.1	1326	1559	.66	1.82	1.80	4.36	9.58	8.70
195	1910	3125.1	3.33	3.45	4.26	86	43.5	2850	3118.2	9.45	9.49	610	644	57.7	56.8	432	74593	59.1	14.2	1507	1560	.67	1.77	1.75	4.36	9.59	8.70
196	1913	3125.4	6.02	3.30	3.80	87	44.0	2850	3118.4	9.47	9.54	610	610	57.7	57.2	401	74856	59.4	14.2	816	1555	.67	1.61	1.59	4.36	9.59	8.70
197	1916	3125.7	4.97	3.29	3.90	86	43.0	2850	3118.7	9.41	9.51	610	591	57.6	57.6	386	75171	59.7	14.3	1131	1552	.67	1.65	1.63	4.37	9.59	8.70
198	1919	3126.0	7.49	3.30	3.97	87	43.3	2860	3119.0	9.46	9.49	610	635	57.5	57.3	381	75382	60.0	14.3	693	1548	.67	1.54	1.52	4.37	9.60	8.70
199	1923	3126.3	4.10	3.38	3.99	88	43.5	2860	3119.4	9.45	9.47	610	594	57.3	57.2	376	75771	60.3	14.4	1314	1546	.68	1.71	1.69	4.37	9.60	8.70
200	1928	3126.6	3.57	3.43	3.92	88	44.1	2840	3119.8	9.48	9.48	610	637	57.2	57.2	376	76218	60.6	14.5	1477	1545	.68	1.76	1.74	4.37	9.60	8.70
201	1931	3126.9	6.51	3.45	3.84	89	43.5	2850	3120.0	9.49	9.50	610	586	57.2	57.5	371	76464	60.9	14.5	765	1542	.68	1.59	1.56	4.37	9.60	8.70
202	1937	3127.3	3.46	3.43	4.11	88	42.7	2870	3120.5	9.51	9.49	611	616	57.1	57.9	380	76959	61.2	14.6	1521	1542	.69	1.75	1.73	4.37	9.60	8.

EXLOG® AMOCO AUST. Tilana No.1 329230 Data Printed at time 07:02 Date Oct 16 '85
Data Recorded at time 19:40 Date Oct 12 '85 162

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
203	1940	3127.6	4.75	3.30	3.71	86	43.9	2860	3120.7	9.49	9.49	611	598	56.8	57.5	381	77291	61.5	14.7	1111	1540	.69	1.67	1.65	4.37	9.60	8.70
204	1943	3127.9	5.78	3.40	3.84	88	43.2	2870	3120.9	9.52	9.50	611	621	56.6	57.5	382	77547	61.9	14.7	831	1536	.69	1.61	1.59	4.37	9.60	8.70
205	1948	3128.2	4.45	3.28	3.82	88	44.3	2860	3121.3	9.51	9.50	611	599	56.4	57.9	387	77925	62.2	14.8	1197	1534	.70	1.70	1.68	4.37	9.60	8.70
206	1952	3128.5	4.46	3.44	4.07	88	43.0	2860	3121.7	9.51	9.50	611	584	56.3	57.4	388	78262	62.5	14.9	1071	1532	.70	1.68	1.66	4.37	9.60	8.70
207	1955	3128.8	5.48	3.66	4.45	88	44.0	2860	3121.9	9.50	9.51	611	605	56.2	57.7	388	78571	62.8	14.9	977	1529	.70	1.64	1.62	4.37	9.60	8.70
208	1959	3129.1	4.78	4.29	4.60	88	43.9	2860	3122.2	9.52	9.47	611	581	56.1	57.7	393	78886	63.1	15.0	1003	1526	.70	1.68	1.65	4.37	9.60	8.70
209	2003	3129.4	4.35	4.20	4.70	88	44.4	2860	3122.5	9.54	9.48	611	662	56.1	57.3	395	79252	63.4	15.1	1028	1524	.71	1.71	1.69	4.37	9.60	8.70
210	2008	3129.7	3.78	4.09	4.48	88	44.0	2860	3123.0	9.52	9.49	611	624	56.1	57.4	399	79690	63.7	15.1	1390	1524	.71	1.74	1.72	4.38	9.60	8.70
211	2021	3130.6	6.15	3.15	3.71	90	43.2	2820	3123.6	9.54	9.37	604	646	56.0	57.0	415	80277	64.6	15.3	1574	1511	.72	1.60	1.58	4.38	9.60	8.70
212	2025	3130.9	4.58	3.50	4.02	90	43.8	2820	3123.9	9.52	9.52	604	649	55.8	57.6	413	80631	64.9	15.3	1519	1509	.72	1.69	1.67	4.38	9.60	8.70
213	2031	3131.2	2.76	3.40	3.97	87	42.6	2800	3124.5	9.56	9.56	604	643	55.6	57.5	417	81210	65.2	15.4	2457	1510	.72	1.81	1.79	4.38	9.61	8.70
214	2034	3131.5	6.82	3.24	4.03	86	42.3	2800	3124.6	9.54	9.55	605	628	55.6	57.6	414	81443	65.5	15.5	852	1507	.73	1.55	1.53	4.38	9.61	8.70
215	2040	3131.8	2.82	3.11	3.79	88	43.2	2810	3125.0	9.56	9.48	604	663	55.7	57.7	420	82006	65.8	15.6	2487	1508	.73	1.81	1.79	4.38	9.62	8.70
216	2045	3132.1	4.29	3.14	4.21	87	44.4	2810	3125.3	9.57	9.48	604	595	55.8	57.7	418	82379	66.1	15.7	1406	1508	.73	1.71	1.68	4.38	9.62	8.70
217	2055	3132.4	1.74	3.13	4.07	87	43.8	2810	3126.2	9.56	9.47	605	594	56.0	57.8	425	83287	66.4	15.8	2435	1513	.74	1.96	1.93	4.38	9.62	8.70
218	2100	3132.7	3.46	3.32	3.66	88	43.3	2810	3126.6	9.44	9.48	604	610	56.0	57.7	426	83750	66.7	15.9	1480	1512	.75	1.76	1.73	4.38	9.62	8.70
219	2106	3133.0	3.04	3.40	4.04	87	44.2	2800	3127.0	9.44	9.48	604	624	56.2	57.7	430	84274	67.0	16.0	1510	1513	.75	1.80	1.78	4.38	9.63	8.70
220	2114	3133.4	2.72	3.40	4.06	87	45.3	2800	3127.5	9.45	9.47	604	634	56.3	57.7	433	84904	67.3	16.1	2302	1516	.76	1.85	1.82	4.38	9.64	8.70
221	2119	3133.7	3.74	4.25	4.70	87	44.4	2790	3128.0	9.44	9.47	602	587	56.4	57.8	434	85326	67.6	16.2	1773	1516	.76	1.74	1.72	4.39	9.64	8.70
222	2125	3134.0	2.68	4.31	4.64	87	44.5	2790	3128.5	9.43	9.45	603	635	56.6	57.4	432	85913	67.9	16.3	1858	1516	.76	1.84	1.82	4.39	9.64	8.70
223	2130	3134.3	3.53	4.45	4.69	87	44.7	2790	3129.0	9.43	9.45	603	655	56.8	57.1	431	86330	68.3	16.4	1380	1515	.77	1.76	1.74	4.39	9.64	8.70
224	2134	3134.6	4.25	4.30	4.66	87	45.4	2790	3129.3	9.42	9.45	603	643	57.1	57.3	429	86702	68.6	16.5	1190	1514	.77	1.72	1.69	4.39	9.63	8.70
225	2139	3134.9	3.96	4.31	4.70	87	44.9	2780	3129.7	9.45	9.44	603	585	57.3	57.7	428	87126	68.9	16.6	1497	1513	.77	1.73	1.71	4.39	9.63	8.70
226	2145	3135.2	3.02	4.38	4.74	87	45.4	2780	3130.1	9.48	9.44	603	597	57.5	57.5	426	87649	69.2	16.7	2499	1514	.78	1.82	1.80	4.39	9.62	8.70
227	2149	3135.5	5.00	4.40	4.63	87	44.5	2790	3130.6	9.48	9.43	603	586	57.6	57.4	426	87965	69.5	16.7	1114	1511	.78	1.66	1.64	4.39	9.62	8.70
228	2153	3135.8	4.22	4.29	4.72	87	44.5	2780	3130.8	9.50	9.40	602	549	57.7	57.6	427	88337	69.8	16.8	1270	1510	.78	1.71	1.69	4.39	9.62	8.70
229	2157	3136.1	4.99	4.39	4.78	87	45.1	2780	3131.0	9.51	9.40	601	549	57.8	57.9	427	88653	70.1	16.9	1135	1508	.79	1.67	1.65	4.39	9.61	8.70
230	2203	3136.4	2.90	4.44	4.70	87	45.7	2790	3131.4	9.49	9.41	602	568	57.8	57.7	429	89194	70.4	17.0	2457	1509	.79	1.84	1.81	4.39	9.61	8.70
231	2209	3136.7	3.13	4.44	4.83	87	44.5	2790	3131.8	9.56	9.37	602	636	57.2	58.1	443	89679	70.7	17.1	1461	1509	.80	1.80	1.78	4.39	9.60	8.70
232	2214	3137.0	3.80	4.43	4.78	87	44.1	2790	3132.1	9.56	9.39	602	612	57.1	58.2	441	90108	71.0	17.1	1377	1508	.80	1.74	1.71	4.39	9.60	8.70
233	2218	3137.3	3.90	4.41	4.76	86	44.6	2780	3132.4	9.59	9.37	602	622	57.0	57.9	440	90499	71.3	17.2	1378	1507	.80	1.74	1.71	4.39	9.60	8.70
234	2225	3137.6	2.63	4.37	4.73	87	44.2	2790	3132.5	9.58	9.38	603	581	57.1	57.6	439	91097	71.6	17.3	2079	1508	.81	1.85	1.82	4.40	9.60	8.70
235	2231	3137.9	3.44	4.42	4.68	87	43.8	2790	3132.8	9.60	9.35	602	588	57.1	57.7	437	91568	71.9	17.4	1490	1508	.81	1.77	1.74	4.40	9.59	8.70
236	2236	3138.2	3.42	4.50	4.77	87	44.4	2790	3133.0	9.60	9.35	602	600	57.2	57.8	435	92021	72.2	17.5	1351	1508	.82	1.78	1.75	4.40	9.59	8.70
237	2242	3138.5	3.00	4.45	4.74	87	44.1	2790	3133.4	9.56	9.37	602	598	57.3	57.4	433	92555	72.5	17.6	1959	1509	.82	1.81	1.78	4.40	9.59	8.70
238	2244	3133.8	7.52	4.40	4.65	87	43.8	2790	3133.5	9.54	9.39	602	591	57.3	57.7	427	92765	72.8	17.6	1076	1507	.82	1.54	1.51	4.40	9.59	8.70
239	2250	3139.1	3.47	4.49	4.86	87	44.8	2790	3133.7	9.51	9.36	603	623	57.3	58.0	429	93216	73.1	17.7	1333	1505	.83	1.78	1.75	4.40	9.60	8.70
240	2257	3139.4	2.55	4.40	4.97	87	43.5	2800	3134.1	9.52	9.37	603	611	57.5	57.9	426	93833	73.4	17.9	2058	1507	.83	1.85	1.82	4.40	9.60	8.70
241	2306	3140.1	3.27	3.46	3.58	87	39.7	2840	3134.5	9.55	9.38	609	649	57.6	57.2	430	94169	74.0	17.9	1839	1499	.83	1.77	1.75	4.40	9.62	8.70
242	2313	3140.4	2.64	3.19	4.06	87	41.6	2850	3135.1	9.48	9.41	608	645	57.5	58.5	421	94758	74.4	18.0	2095	1500	.84	1.81	1.78	4.40	9.62	8.70
243	2320	3140.7	2.93	3.25	4.09	87	41.8	2850	3135.4	9.49	9.42	609	644	57.6	58.3	414	95351	74.7	18.1	1913	1502	.84	1.78	1.75	4.40	9.63	8.70
244	2326	3141.0	3.00	3.26	4.19	86	44.2	2850	3136.0	9.47	9.43	609	619	57.6	58.4	408	95872	75.0	18.2	1739	1502	.85	1.80	1.77	4.40	9.63	8.70
245	2331	3141.3	3.64	3.41	4.07	87	43.7	2850	3136.3	9.51	9.43	610	618	57.7	59.0	406	96265	75.3	18.3	1416	1501	.85	1.74	1.71	4.40	9.64	8.70
246	2335	3141.6	3.86	3.42	4.09	85	44.1	2840	3136.7	9.52	9.42	609	599	58.0	59.1	408	96667	75.6	18.4	1272	1500	.85	1.72	1.70	4.41	9.64	8.70
247	2342	3141.9	2.61	3.26	4.19	86	44.5	2840	3137.1	9.52	9.42	609	626	58.2	58.9	406	97269	75.9	18.5	2244	1502	.86	1.84	1.82	4.41	9.65	8.70
248	2348	3142.2	3.19	3.37	4.32	87	44.0	2840	3137.5	9.53	9.48	609	626	58.7	59.1	403	97802	76.2	18.6	1592	1503	.86	1.78	1.75	4.41	9.65	8.70
249	2354	3142.5	2.87	3.31	4.05	87	42.5	2830	3137.8	9.51	9.48	609	690	59.0	59.5	403	98311	76.5	18.7	1667	1503	.87	1.79	1.76	4.41	9.65	8.70
	Date	Oct 13 '85																									
250	0000	3142.8	3.27	3.36	3.97	86	43.3	2840	3138.1	9.45	9.50	608	650	59.2	59.0	400	98793	76.8	18.8	1415	1503	.87	1.76	1.74	4.41	9.65	8.70
251	0004	3143.1	4.14	3.32	3.84	86	43.8	2840	3138.3	9.45	9.49	610	673	59.3	59.5	402	99168	77.1	18.9	1251	1502	.88	1.70	1.67	4.41	9.65	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM P
252	0010	3143.4	3.12	3.38	4.13	85	45.5	2830	3138.7	9.45	9.49	610	650	59.5	59.3	400	99668	77.4	19.0	1596	1502	.88	1.80	1.77	4.41	9.65	8.70
253	0017	3143.7	2.78	3.11	4.00	85	43.5	2840	3139.2	9.45	9.50	610	644	59.6	59.1	398	100256	77.7	19.1	1943	1504	.88	1.81	1.78	4.41	9.64	8.70
254	0022	3144.0	3.85	3.24	3.89	85	44.9	2830	3139.6	9.46	9.48	609	649	59.7	59.7	397	100661	78.0	19.2	1255	1503	.89	1.73	1.70	4.41	9.64	8.70
255	0030	3144.3	2.36	3.38	4.13	85	44.1	2840	3140.0	9.46	9.49	608	647	59.8	59.6	396	101320	78.3	19.3	2502	1505	.89	1.87	1.84	4.41	9.63	8.70
256	0038	3144.6	2.10	3.29	4.02	86	44.0	2840	3140.3	9.49	9.49	609	683	59.9	59.4	393	102029	78.6	19.4	2371	1508	.90	1.90	1.87	4.41	9.62	8.70
257	0046	3144.9	2.30	3.30	3.86	87	42.0	2850	3140.7	9.38	9.48	610	606	60.0	60.0	392	102718	78.9	19.6	2044	1511	.90	1.86	1.83	4.41	9.60	8.70
258	0054	3145.2	2.13	3.26	3.87	86	43.7	2850	3141.1	9.37	9.47	610	648	60.0	60.5	391	103457	79.2	19.7	2388	1514	.91	1.90	1.87	4.41	9.60	8.70
259	0102	3145.5	2.52	3.36	3.88	86	45.4	2850	3141.5	9.38	9.47	609	638	60.2	60.3	388	104081	79.5	19.8	1882	1516	.92	1.88	1.85	4.42	9.60	8.70
260	0109	3145.8	2.68	3.44	4.09	86	44.0	2850	3142.0	9.37	9.46	608	645	60.3	60.5	386	104689	79.8	19.9	2046	1517	.92	1.84	1.81	4.42	9.59	8.70
261	0116	3146.2	2.43	3.51	4.07	87	44.9	2850	3142.3	9.36	9.47	608	662	60.5	60.1	387	105338	80.1	20.1	2350	1519	.93	1.88	1.85	4.42	9.58	8.70
262	0122	3146.5	2.94	3.45	4.08	87	45.2	2840	3142.6	9.37	9.48	607	670	60.5	60.2	386	105864	80.4	20.2	1841	1520	.93	1.83	1.80	4.42	9.57	8.70
263	0131	3146.8	2.13	3.34	4.01	86	44.9	2840	3143.0	9.37	9.49	607	671	60.5	60.3	383	106602	80.8	20.3	2254	1523	.94	1.92	1.89	4.42	9.56	8.70
264	0138	3147.1	2.58	2.80	3.54	86	43.6	2840	3143.5	9.37	9.49	607	667	60.6	60.7	384	107207	81.1	20.4	1825	1524	.94	1.85	1.82	4.42	9.55	8.70
265	0146	3147.4	2.26	2.79	3.84	86	42.8	2840	3143.9	9.38	9.51	607	676	60.7	61.4	381	107905	81.3	20.6	2258	1527	.95	1.88	1.85	4.42	9.53	8.70
266	0153	3147.7	2.47	2.89	3.53	86	44.1	2840	3144.4	9.38	9.50	608	674	60.9	61.7	380	108539	81.6	20.7	2042	1529	.95	1.88	1.85	4.42	9.52	8.70
267	0204	3148.0	1.72	3.01	3.84	86	45.2	2840	3144.8	9.37	9.52	609	670	61.3	61.8	376	109447	82.0	20.9	3590	1534	.96	2.00	1.97	4.42	9.51	8.70
268	0211	3148.3	2.43	3.45	3.98	87	44.3	2830	3145.0	9.39	9.51	607	667	61.4	62.7	375	110093	82.3	21.0	2077	1536	.97	1.89	1.86	4.42	9.51	8.70
269	0218	3148.6	2.84	3.67	3.96	86	44.7	2830	3145.3	9.37	9.52	608	676	61.6	63.2	371	110648	82.6	21.1	1892	1536	.97	1.85	1.82	4.42	9.50	8.70
270	0227	3148.9	2.02	3.73	4.00	86	45.6	2830	3145.6	9.38	9.50	606	677	62.2	63.1	371	111424	82.9	21.2	2279	1540	.98	1.96	1.93	4.42	9.49	8.70
271	0230	3149.2	3.16	3.69	3.92	86	45.0	2820	3145.8	9.38	9.50	606	675	62.2	63.1	371	111687	83.2	21.3	2135	1537	.98	1.82	1.79	4.42	9.49	8.70
272	0235	3149.5	2.31	3.71	3.97	86	43.6	2820	3145.9	9.40	9.51	607	663	62.5	63.5	370	112167	83.5	21.4	2129	1537	.98	1.90	1.87	4.43	9.48	8.70
273	0248	3149.8	2.90	3.08	3.87	89	45.2	2910	3146.3	9.41	9.28	550	503	62.6	62.0	388	112358	83.8	21.4	1976	1535	.98	1.85	1.82	4.43	9.46	8.70
274	0258	3150.1	2.04	2.78	4.02	87	36.4	2920	3146.7	9.35	9.51	616	663	61.8	62.3	366	113124	84.1	21.6	4117	1537	.99	1.83	1.80	4.43	9.48	8.70
275	0306	3150.4	2.30	3.03	3.66	86	41.8	2920	3147.1	9.35	9.49	618	647	61.7	63.0	365	113805	84.4	21.7	2384	1539	1.00	1.87	1.84	4.43	9.48	8.70
276	0313	3150.7	2.52	3.02	3.78	86	43.0	2930	3147.3	9.35	9.49	617	665	62.2	63.1	363	114410	84.7	21.8	1915	1541	1.00	1.87	1.83	4.43	9.48	8.70
277	0319	3151.0	3.03	2.90	3.67	86	41.5	2930	3147.6	9.38	9.50	617	669	62.4	62.8	368	114930	85.0	21.9	1715	1541	1.01	1.79	1.76	4.43	9.49	8.70
278	0325	3151.3	3.28	2.93	3.61	86	42.9	2930	3147.9	9.38	9.49	617	678	61.9	63.7	375	115423	85.3	22.0	1616	1541	1.01	1.79	1.75	4.43	9.48	8.70
279	0331	3151.6	2.64	2.81	3.81	86	44.3	2940	3148.2	9.33	9.49	617	655	60.5	63.7	384	116002	85.6	22.1	1829	1542	1.01	1.87	1.84	4.43	9.48	8.70
280	0339	3151.9	2.43	2.94	4.00	85	43.7	2930	3148.4	9.34	9.47	618	664	59.7	64.2	393	116645	85.9	22.2	2305	1544	1.02	1.88	1.85	4.43	9.48	8.70
281	0346	3152.2	2.72	2.92	3.68	86	42.9	2930	3148.7	9.30	9.50	617	692	59.2	63.5	401	117223	86.2	22.4	1764	1545	1.02	1.84	1.81	4.43	9.49	8.70
282	0352	3152.5	2.87	2.68	3.71	86	43.0	2930	3148.9	9.33	9.50	617	658	58.9	63.5	410	117772	86.5	22.5	1649	1546	1.03	1.82	1.79	4.43	9.48	8.70
283	0357	3152.9	3.45	2.75	3.65	86	42.9	2930	3149.2	9.34	9.52	617	658	58.7	62.8	417	118220	86.8	22.6	1329	1545	1.03	1.77	1.74	4.43	9.48	8.70
284	0402	3153.2	3.45	2.93	3.97	85	42.6	2930	3149.4	9.35	9.52	616	625	58.3	62.7	429	118671	87.1	22.6	1525	1546	1.04	1.76	1.73	4.43	9.48	8.70
285	0409	3153.5	2.59	2.85	3.68	85	42.3	2940	3149.7	9.38	9.51	617	624	57.8	63.1	468	119270	87.5	22.8	1707	1546	1.04	1.84	1.81	4.44	9.48	8.70
286	0415	3153.8	3.63	2.79	3.48	85	42.2	2930	3149.9	9.38	9.50	617	598	56.6	63.5	432	119699	87.8	22.8	1410	1546	1.04	1.75	1.71	4.44	9.47	8.70
287	0421	3154.1	2.65	2.97	3.78	85	42.1	2930	3150.3	9.39	9.49	616	597	56.1	63.7	496	120230	88.1	22.9	2097	1546	1.05	1.84	1.80	4.44	9.47	8.70
288	0428	3154.4	2.67	2.91	4.11	86	42.5	2930	3150.4	9.39	9.50	618	642	55.5	62.7	502	120818	88.4	23.1	1863	1547	1.05	1.84	1.81	4.44	9.47	8.70
289	0434	3154.7	2.84	2.91	3.58	86	41.6	2920	3150.6	9.37	9.52	617	654	55.2	62.5	505	121372	88.7	23.2	1750	1548	1.06	1.81	1.78	4.44	9.47	8.70
290	0438	3155.0	4.17	2.81	3.74	84	41.7	2920	3150.8	9.32	9.51	617	655	54.0	62.2	508	121743	89.0	23.2	1153	1547	1.06	1.70	1.67	4.44	9.47	8.70
291	0443	3155.3	3.77	3.21	4.06	84	42.5	2910	3151.0	9.32	9.51	617	654	52.8	62.4	525	122150	89.3	23.3	1327	1546	1.06	1.74	1.70	4.44	9.47	8.70
292	0447	3155.6	5.56	3.99	4.39	84	42.8	2920	3151.2	9.33	9.52	615	633	51.8	62.3	555	122444	89.6	23.4	975	1544	1.07	1.63	1.59	4.44	9.47	8.70
293	0452	3155.9	3.48	3.88	4.19	85	42.1	2910	3151.5	9.31	9.52	616	638	50.0	62.4	554	122855	89.9	23.5	1478	1543	1.07	1.76	1.72	4.44	9.47	8.70
294	0457	3156.2	3.30	3.75	4.06	85	42.9	2900	3151.7	9.32	9.52	616	644	50.1	61.9	550	123349	90.2	23.6	1596	1543	1.07	1.78	1.75	4.44	9.48	8.70
295	0502	3156.5	3.33	3.67	3.89	84	42.8	2890	3151.9	9.32	9.52	615	631	50.1	61.9	548	123737	90.5	23.6	1355	1542	1.08	1.77	1.74	4.44	9.48	8.70
296	0508	3156.8	3.32	3.61	3.98	84	42.7	2890	3152.2	9.34	9.50	616	582	53.1	61.3	546	124196	90.8	23.7	1505	1542	1.08	1.77	1.74	4.44	9.47	8.70
297	0520	3157.1	1.48	4.01	4.47	86	43.8	2870	3152.8	9.35	9.50	614	674	56.1	59.6	539	125303	91.1	23.9	2505	1549	1.09	2.03	2.00	4.44	9.47	8.70
298	0526	3157.4	3.03	4.20	4.60	86	42.7	2860	3153.1	9.36	9.48	614	618	57.2	59.5	536	125818	91.4	24.0	1733	1549	1.09	1.81	1.77	4.45	9.47	8.70
299	0532	3157.7	3.24	4.04	4.43	86	43.5	2870	3153.4	9.36	9.49	614	635	57.7	59.4	534	126300	91.7	24.1	1830	1549	1.10	1.80	1.77	4.45	9.47	8.70
300	0537	3158.0	3.56	4.05	4.42	86	43.5	2870	3153.7	9.35	9.46	615	696	58.3	59.2	533	126720	92.0	24.2	1340	1548	1.10	1.77	1.74	4.45	9.47	8.70
301	0545	3158.3	2.39	4.07	4.47	86	43.9	2860	3154.1	9.37	9.46	614	585	58.7	59.1	530	127374	92.3	24.3	1681	1550	1.11	1.89	1.86	4.45	9.47	8.70

EXLOG®

AMOCO AUST. Tilana No.1

329232

Data Printed at time 07:10 Date Oct 16 '85
Data Recorded at time 05:51 Date Oct 13 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
302	0551	3158.7	2.90	4.15	4.43	86	42.7	2870	3154.4	9.39	9.45	615	544	58.9	59.3	529	127931	92.6	24.4	1796	1551	1.11	1.82	1.79	4.45	9.47	8.70
303	0604	3159.0	4.74	3.67	4.42	87	40.6	2810	3154.7	9.39	9.44	602	569	59.2	58.8	529	128282	92.9	24.5	1836	1552	1.11	1.66	1.62	4.45	9.47	8.70
304	0606	3159.3	3.90	3.53	4.42	88	40.4	2820	3154.8	9.39	9.44	607	582	59.2	58.8	522	128420	93.2	24.5	1723	1546	1.12	1.73	1.69	4.45	9.48	8.70
305	0611	3159.6	3.08	4.24	4.65	87	43.3	2790	3155.1	9.29	9.41	606	570	59.2	59.1	508	128928	93.5	24.6	1423	1546	1.12	1.81	1.78	4.45	9.48	8.70
306	0616	3159.9	4.19	4.26	4.50	87	44.0	2790	3155.4	9.28	9.43	607	578	59.2	58.3	505	129298	93.9	24.7	1175	1545	1.12	1.73	1.70	4.45	9.47	8.70
307	0620	3160.2	4.62	4.32	4.68	87	44.5	2800	3155.7	9.26	9.42	606	554	59.3	58.8	500	129644	94.2	24.8	1068	1543	1.12	1.71	1.67	4.45	9.47	8.70
308	0624	3160.5	4.31	4.37	4.70	87	44.2	2790	3156.0	9.26	9.43	606	533	59.2	58.6	510	130036	94.5	24.8	1189	1542	1.13	1.73	1.69	4.45	9.47	8.70
309	0627	3160.8	6.39	4.48	4.90	87	45.0	2800	3156.2	9.31	9.43	606	535	59.1	58.4	516	130255	94.8	24.9	819	1540	1.13	1.62	1.58	4.45	9.47	8.70
310	0629	3161.1	7.39	4.50	4.80	87	44.8	2800	3156.3	9.31	9.43	607	558	59.1	58.4	517	130467	95.1	24.9	656	1537	1.13	1.58	1.54	4.45	9.47	8.70
311	0635	3161.4	3.14	4.31	4.72	87	44.1	2800	3156.7	9.28	9.40	606	504	58.7	58.4	521	130969	95.4	25.0	2392	1537	1.14	1.82	1.78	4.46	9.47	8.70
312	0641	3161.7	3.16	4.25	4.63	88	43.5	2810	3157.0	9.25	9.41	606	533	58.5	58.4	526	131473	95.7	25.1	1621	1537	1.14	1.81	1.78	4.46	9.47	8.70
313	0647	3162.0	3.06	3.83	4.58	88	44.9	2810	3157.2	9.21	9.39	607	570	57.7	58.2	524	131998	96.0	25.2	1617	1537	1.14	1.84	1.80	4.46	9.47	8.70
314	0653	3162.3	2.85	3.32	4.10	87	44.1	2830	3157.3	9.21	9.38	609	537	57.3	58.0	524	132557	96.3	25.3	1622	1538	1.15	1.85	1.81	4.46	9.47	8.70
315	0659	3162.6	2.94	3.04	3.75	89	42.5	2830	3157.6	9.25	9.38	610	542	56.7	58.5	522	133103	96.6	25.4	1663	1538	1.15	1.83	1.79	4.46	9.46	8.70
316	0707	3162.9	2.53	2.96	3.72	90	43.3	2830	3158.0	9.34	9.40	611	548	56.4	58.7	522	133744	96.9	25.5	1845	1540	1.16	1.88	1.84	4.46	9.46	8.70
317	0713	3163.2	2.99	3.06	3.55	88	43.1	2830	3158.4	9.30	9.41	611	555	56.1	59.2	521	134319	97.2	25.7	1866	1541	1.16	1.83	1.79	4.46	9.45	8.70
318	0717	3163.5	4.13	3.02	3.74	89	42.5	2800	3158.5	9.25	9.43	612	618	56.0	59.3	519	134684	97.5	25.7	1154	1539	1.17	1.73	1.69	4.46	9.45	8.70
319	0719	3163.8	9.11	2.93	3.69	89	41.6	2790	3158.5	9.23	9.44	608	639	56.0	60.0	517	134863	97.8	25.8	511	1536	1.17	1.49	1.45	4.46	9.44	8.70
320	0721	3164.1	11.3	3.07	3.57	89	41.7	2800	3158.6	9.23	9.44	608	646	56.0	60.0	511	135015	98.1	25.8	488	1533	1.17	1.43	1.39	4.46	9.44	8.70
321	0723	3164.4	10.3	3.11	4.21	88	40.7	2750	3158.7	9.25	9.47	608	660	56.1	59.8	503	135162	98.4	25.8	494	1530	1.17	1.45	1.41	4.46	9.44	8.70
+ Flow check at 3165m.																											
323	0729	3164.8	15.6	3.08	3.80	88	40.6	2800	3158.9	9.21	9.49	609	620	56.2	59.5	498	135274	98.7	25.8	339	1526	1.17	1.33	1.29	4.46	9.43	8.70
324	0731	3165.0	9.84	3.27	4.27	89	43.2	2790	3159.0	9.21	9.49	608	629	56.2	59.5	496	135429	99.0	25.9	404	1523	1.17	1.49	1.45	4.47	9.43	8.70
325	0736	3165.4	3.62	3.11	3.79	89	42.7	2790	3159.2	9.19	9.49	607	637	56.4	60.4	492	135888	99.3	26.0	2184	1522	1.18	1.77	1.74	4.47	9.43	8.70
326	0741	3165.7	3.37	3.02	3.90	89	43.1	2780	3159.6	9.20	9.46	607	635	56.6	61.1	490	136346	99.7	26.0	1502	1522	1.18	1.80	1.76	4.47	9.42	8.70
327	0750	3166.0	2.06	3.01	3.73	88	43.4	2760	3160.1	9.24	9.47	607	675	57.1	61.0	486	137126	100	26.2	1961	1525	1.19	1.95	1.91	4.47	9.42	8.70
328	0757	3166.3	2.91	3.05	3.70	88	43.4	2750	3160.6	9.26	9.47	606	633	57.7	61.0	482	137697	100	26.3	1793	1525	1.19	1.85	1.81	4.47	9.41	8.70
329	0805	3166.6	1.82	2.96	3.63	88	44.8	2750	3161.4	9.28	9.48	606	632	58.3	61.2	480	138465	101	26.4	2474	1523	1.20	2.01	1.97	4.47	9.39	8.70
330	0811	3166.9	2.34	2.57	4.08	87	32.3	2710	3161.7	9.32	9.47	590	559	58.6	61.4	483	138744	101	26.5	1894	1526	1.20	1.90	1.87	4.47	9.37	8.70
331	0822	3167.2	1.62	4.17	4.64	88	43.0	2740	3162.3	9.31	9.47	604	638	59.3	61.5	471	139746	101	26.7	4090	1531	1.21	2.02	1.98	4.47	9.36	8.70
332	0828	3167.5	3.48	4.23	4.54	87	43.8	2730	3162.5	9.30	9.47	604	613	59.4	61.5	467	140192	101	26.8	1428	1530	1.21	1.81	1.77	4.47	9.36	8.70
333	0833	3167.8	3.25	4.37	4.62	87	43.8	2740	3162.8	9.31	9.46	605	600	59.7	59.8	464	140680	102	26.9	1452	1530	1.21	1.83	1.79	4.47	9.36	8.70
334	0841	3168.1	2.39	4.30	4.65	88	42.7	2750	3163.1	9.31	9.44	605	594	59.8	59.8	461	141355	102	27.0	2019	1532	1.22	1.91	1.86	4.47	9.36	8.70
335	0856	3168.4	2.74	3.64	4.62	82	42.6	2790	3163.5	9.35	9.41	592	481	59.7	59.8	483	141756	102	27.1	1941	1531	1.22	1.88	1.84	4.47	9.36	8.70
336	0902	3168.7	1.64	3.42	4.22	86	42.6	2810	3164.1	9.30	9.38	611	628	59.2	58.8	463	142323	103	27.2	3190	1532	1.23	2.01	1.96	4.47	9.37	8.70
337	0904	3169.0	3.91	3.34	3.83	88	40.5	2820	3164.4	9.30	9.38	612	607	59.2	58.8	457	142499	103	27.2	2437	1529	1.23	1.73	1.69	4.48	9.37	8.70
338	0911	3169.3	2.85	3.34	3.79	88	40.8	2810	3165.0	9.16	9.39	612	587	58.9	58.8	439	143059	103	27.3	1885	1530	1.23	1.82	1.78	4.48	9.38	8.70
339	0918	3169.6	2.28	3.27	3.86	88	40.7	2830	3165.8	9.21	9.40	613	596	58.7	58.7	430	143728	104	27.4	2878	1531	1.24	1.88	1.84	4.48	9.38	8.70
340	0925	3169.9	2.59	3.22	3.72	89	41.1	2830	3166.1	9.21	9.40	614	602	58.7	58.7	428	144352	104	27.6	2010	1533	1.24	1.86	1.82	4.48	9.38	8.70
341	0931	3170.2	3.13	3.34	3.99	89	41.5	2840	3166.4	9.17	9.40	615	593	58.3	58.8	417	144838	104	27.7	1442	1533	1.25	1.81	1.77	4.48	9.39	8.70
342	0934	3170.5	5.56	3.46	4.14	88	40.2	2860	3166.6	9.18	9.35	616	671	58.2	58.7	415	145140	105	27.7	860	1531	1.25	1.62	1.58	4.48	9.39	8.70
343	0939	3170.8	4.21	3.58	4.01	89	42.2	2860	3166.8	9.20	9.34	617	625	57.0	58.4	411	145532	105	27.8	1285	1530	1.25	1.73	1.69	4.48	9.39	8.70
344	0943	3171.1	3.82	4.14	4.83	89	40.9	2840	3167.0	9.20	9.31	616	625	58.1	58.8	409	145951	105	27.9	1413	1529	1.26	1.74	1.70	4.48	9.39	8.70
345	0948	3171.5	3.63	4.42	4.79	87	42.4	2840	3167.2	9.25	9.32	615	646	58.1	59.1	409	146389	105	27.9	1601	1529	1.26	1.77	1.73	4.48	9.39	8.70
346	0952	3171.7	4.29	4.39	4.84	89	41.0	2840	3167.4	9.25	9.34	616	661	58.0	58.4	407	146755	106	28.0	1185	1527	1.26	1.71	1.67	4.48	9.40	8.70
347	0957	3172.1	3.79	4.41	4.73	88	41.5	2840	3167.6	9.22	9.32	616	627	58.2	58.2	406	147181	106	28.1	1323	1527	1.27	1.75	1.71	4.48	9.40	8.70
348	1000	3172.4	6.40	4.51	4.72	87	41.2	2830	3167.7	9.24	9.33	615	669	58.1	58.8	403	147427	106	28.1	731	1525	1.27	1.59	1.55	4.48	9.40	8.70
349	1003	3172.7	5.78	4.50	4.82	88	41.0	2860	3167.8	9.26	9.32	617	644	58.1	59.1	403	147704	107	28.2	772	1523	1.27	1.62	1.58	4.48	9.40	8.70
350	1006	3173.0	6.39	4.41	4.89	87	41.6	2840	3168.0	9.25	9.32	617	662	58.2	59.3	402	147950	107	28.2	881	1521	1.27	1.60	1.55	4.49	9.40	8.70
351	1007	3173.3	17.5	4.38	4.71	86	40.4	2860	3168.0	9.25	9.32	617	633	58.2	59.3	400	148041	107	28.2	297	1517	1.27	1.29	1.25	4.49	9.40	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DKC	NK	NKB	ECD	EST FM PR
352	1011	3173.6	5.21	4.51	4.77	87	41.5	2860	3168.3	9.27	9.35	616	606	58.2	59.1	402	148367	108	28.3	1478	1516	1.28	1.65	1.61	4.49	9.39	8.70
353	1013	3173.9	8.25	4.56	5.04	88	41.7	2860	3168.4	9.27	9.35	617	645	58.2	59.1	400	148560	108	28.3	586	1513	1.28	1.53	1.48	4.49	9.39	8.70
354	1016	3174.2	5.39	4.37	4.80	88	40.7	2860	3168.6	9.28	9.35	617	626	58.2	59.3	403	148829	108	28.4	966	1512	1.28	1.64	1.60	4.49	9.39	8.70
355	1018	3174.5	9.15	4.50	4.80	87	40.6	2850	3168.6	9.28	9.35	618	633	58.2	59.1	403	149004	108	28.4	555	1509	1.28	1.48	1.44	4.49	9.39	8.70
356	1019	3174.8	16.9	4.44	4.80	87	40.8	2860	3168.7	9.28	9.35	617	636	58.2	59.1	400	149098	109	28.4	374	1506	1.28	1.31	1.27	4.49	9.39	8.70
357	1021	3175.1	11.7	4.51	4.84	88	41.5	2850	3168.8	9.28	9.35	617	661	58.2	59.1	400	149241	109	28.5	654	1502	1.28	1.42	1.38	4.49	9.39	8.70
358	1022	3175.4	14.5	4.51	4.86	88	41.8	2860	3168.8	9.28	9.36	617	669	58.3	59.0	399	149344	109	28.5	362	1499	1.28	1.37	1.32	4.49	9.39	8.70
359	1024	3175.7	10.4	4.50	4.85	88	41.2	2860	3168.9	9.28	9.36	617	659	58.3	59.0	398	149495	110	28.5	480	1497	1.29	1.45	1.41	4.49	9.39	8.70
+ Flow check at 3176m.																											
361	1029	3176.0	10.7	4.14	4.65	87	41.3	2860	3169.0	9.28	9.35	612	649	58.3	58.7	404	149654	110	28.6	446	1494	1.29	1.45	1.40	4.49	9.38	8.70
362	1032	3176.3	6.27	4.37	4.75	87	43.1	2870	3169.0	9.25	9.36	618	668	58.2	59.0	400	149905	110	28.6	744	1491	1.29	1.62	1.58	4.49	9.38	8.70
363	1035	3176.6	7.94	4.55	4.82	88	42.5	2830	3169.2	9.25	9.36	619	651	58.2	59.0	397	150117	111	28.6	699	1489	1.29	1.55	1.51	4.49	9.38	8.70
364	1037	3176.9	8.77	4.45	4.82	87	43.2	2870	3169.5	9.20	9.36	620	652	58.2	58.8	395	150289	111	28.7	553	1487	1.29	1.53	1.48	4.50	9.38	8.70
365	1039	3177.2	8.09	4.44	4.87	87	42.3	2870	3170.0	9.20	9.36	619	654	58.2	58.8	394	150484	111	28.7	588	1484	1.29	1.54	1.50	4.50	9.38	8.70
366	1041	3177.5	7.98	4.63	4.97	87	43.4	2870	3170.1	9.18	9.36	619	663	58.3	59.1	393	150684	112	28.7	557	1482	1.30	1.56	1.51	4.50	9.38	8.70
367	1043	3177.8	11.0	4.60	4.82	88	42.0	2870	3170.2	9.18	9.36	619	685	58.3	59.1	392	150828	112	28.8	465	1479	1.30	1.45	1.40	4.50	9.38	8.70
368	1044	3178.2	15.3	4.50	5.15	89	42.9	2810	3170.2	9.21	9.33	617	659	57.5	59.4	393	150936	112	28.8	343	1476	1.30	1.36	1.32	4.50	9.38	8.70
+ Circulate returns at 3178m.																											
370	1235	3178.5	14.7	3.22	4.04	88	42.3	2810	3179.2	9.20	9.35	617	618	63.7	65.2	345	151160	112	28.8	376	1474	1.30	1.38	1.33	4.50	9.30	8.70
371	1237	3178.8	9.88	3.10	4.07	87	41.4	2800	3179.2	9.18	9.39	615	641	62.1	63.7	346	151319	113	28.9	433	1471	1.30	1.48	1.44	4.50	9.30	8.70
372	1239	3179.1	10.3	4.00	4.29	87	42.2	2800	3179.2	9.18	9.39	615	639	62.1	63.7	349	151472	113	28.9	491	1469	1.30	1.48	1.44	4.50	9.30	8.70
373	1240	3179.4	20.2	4.22	4.60	87	42.0	2820	3179.2	9.18	9.39	615	650	62.1	63.7	349	151550	113	28.9	268	1465	1.30	1.28	1.24	4.50	9.30	8.70
374	1241	3179.7	12.6	4.07	4.61	87	42.0	2810	3179.2	9.21	9.38	615	630	60.7	61.8	350	151676	114	28.9	286	1463	1.30	1.42	1.38	4.50	9.30	8.70
375	1242	3180.0	18.9	4.42	4.85	87	41.3	2820	3179.2	9.21	9.38	615	611	60.7	61.8	351	151762	114	29.0	264	1459	1.30	1.29	1.25	4.50	9.30	8.70
376	1243	3180.3	24.5	3.99	4.41	87	40.3	2830	3179.2	9.21	9.38	615	623	60.7	61.8	351	151825	114	29.0	223	1456	1.30	1.21	1.16	4.50	9.30	8.70
377	1245	3180.6	8.41	3.59	4.10	87	42.5	2820	3179.2	9.27	9.36	616	616	59.9	63.6	354	152014	115	29.0	2155	1454	1.31	1.54	1.50	4.50	9.30	8.70
378	1253	3180.9	2.24	3.20	4.28	87	42.1	2850	3179.2	9.33	9.37	618	627	59.2	62.8	359	152720	115	29.1	5897	1456	1.31	1.93	1.88	4.51	9.30	8.70
379	1302	3181.2	1.60	3.14	3.74	88	42.8	2380	3179.2	9.37	9.36	620	599	58.9	62.5	366	153547	115	29.3	2965	1458	1.32	2.04	1.99	4.51	9.31	8.70
380	1312	3181.5	2.09	2.98	3.82	87	41.2	2890	3179.2	9.39	9.37	620	553	58.2	61.5	380	154374	115	29.4	2899	1462	1.33	1.93	1.89	4.51	9.31	8.70
381	1325	3181.8	1.35	3.02	3.71	88	40.6	2900	3179.2	9.44	9.36	620	635	58.3	61.0	383	155551	116	29.7	4783	1468	1.33	2.05	2.00	4.51	9.32	8.70
382	1338	3182.1	1.31	3.11	3.81	89	43.3	2880	3179.2	9.35	9.33	620	643	58.1	60.5	381	156691	116	29.9	3737	1473	1.34	2.09	2.05	4.51	9.35	8.70
383	1347	3182.4	2.21	3.12	4.04	87	43.0	2880	3179.2	9.31	9.34	619	592	58.2	60.4	382	157455	116	30.0	2649	1475	1.35	1.93	1.88	4.51	9.36	8.70
384	1351	3182.7	4.47	2.94	4.05	86	42.5	2890	3179.2	9.33	9.36	619	615	58.3	60.4	383	157782	117	30.1	1073	1474	1.35	1.71	1.66	4.51	9.38	8.70
385	1355	3183.0	4.83	2.88	4.14	86	43.8	2880	3179.2	9.35	9.36	619	617	58.2	60.7	385	158124	117	30.2	1082	1473	1.36	1.70	1.66	4.51	9.39	8.70
386	1402	3183.3	2.67	2.79	4.29	86	43.5	2880	3179.2	9.34	9.34	619	619	58.2	60.1	387	158710	117	30.3	2076	1474	1.36	1.87	1.82	4.51	9.41	8.70
387	1409	3183.7	2.58	3.04	3.92	86	42.9	2880	3179.5	9.34	9.35	618	642	58.1	60.3	389	159318	118	30.4	1612	1475	1.36	1.87	1.82	4.51	9.42	8.70
388	1412	3183.9	5.59	3.11	4.17	86	42.8	2870	3180.0	9.33	9.36	618	652	58.1	60.6	389	159587	118	30.4	819	1473	1.37	1.64	1.60	4.51	9.43	8.70
389	1417	3184.3	3.71	2.93	4.32	86	43.1	2870	3181.3	9.30	9.35	619	630	58.2	60.5	389	160025	118	30.5	1245	1473	1.37	1.76	1.72	4.51	9.43	8.70
390	1422	3184.6	3.56	3.15	4.39	85	43.2	2870	3181.8	9.29	9.30	619	650	58.3	60.8	389	160445	119	30.6	1373	1473	1.37	1.77	1.73	4.52	9.43	8.70
391	1427	3184.9	3.40	3.05	4.25	86	43.3	2860	3182.0	9.31	9.22	619	645	58.3	61.5	399	160920	119	30.7	1638	1473	1.38	1.79	1.74	4.52	9.44	8.70
392	1432	3185.2	3.99	3.08	4.23	86	42.7	2870	3182.1	9.36	9.23	618	678	58.2	61.7	392	161312	119	30.8	1405	1472	1.38	1.73	1.69	4.52	9.45	8.70
393	1436	3185.5	4.52	3.07	4.20	86	43.2	2860	3182.2	9.36	9.32	618	660	58.2	60.9	395	161656	119	30.8	1332	1472	1.38	1.70	1.66	4.52	9.45	8.70
394	1443	3185.8	2.55	3.07	4.40	86	43.4	2870	3182.4	9.39	9.32	619	658	58.1	61.7	400	162259	120	31.0	2348	1472	1.39	1.87	1.82	4.52	9.46	8.70
395	1452	3186.1	1.93	3.01	4.20	86	43.8	2890	3182.7	9.36	9.30	619	660	57.7	62.5	413	163091	120	31.1	2926	1476	1.39	1.95	1.91	4.52	9.47	8.70
396	1459	3186.4	2.71	2.87	4.43	87	44.2	2890	3182.9	9.29	9.33	618	657	56.9	61.9	421	163673	120	31.2	2117	1476	1.40	1.86	1.82	4.52	9.48	8.70
397	1510	3186.7	1.62	3.01	3.73	87	44.1	2900	3183.1	9.28	9.29	620	655	56.4	61.4	435	164653	121	31.4	2726	1480	1.41	2.01	1.97	4.52	9.48	8.70
398	1516	3187.0	3.32	3.10	4.01	87	43.7	2900	3183.3	9.27	9.31	620	661	57.1	61.5	435	165131	121	31.5	1617	1481	1.41	1.80	1.75	4.52	9.47	8.70
399	1521	3187.3	3.75	3.19	4.25	88	43.5	2890	3183.4	9.26	9.32	619	674	57.7	61.8	436	165553	121	31.6	1274	1480	1.41	1.76	1.72	4.52	9.47	8.70
400	1541	3187.6	2.58	3.06	4.09	87	44.8	2790	3184.2	9.33	9.37	607	627	59.3	60.5	439	166209	122	31.7	1801	1481	1.42	1.89	1.84	4.52	9.46	8.70
401	1546	3188.0	2.50	3.28	3.71	87	43.4	2790	3184.4	9.26	9.41	607	656	59.3	59.8	433	166585	122	31.8	2266	1482	1.42	1.88	1.83	4.52	9.45	8.70

EXLOG

AMOCO AUST. Tilana No.1

329234

Data Printed at time 07:18 Date Oct 16 '85
Data Recorded at time 15:54 Date Oct 13 '85

166

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
402	1554	3188.2	1.35	3.11	4.47	87	43.6	2780	3185.0	9.30	9.43	607	632	59.5	61.2	427	167335	122	31.9	3068	1483	1.43	2.07	2.02	4.52	9.44	8.70
403	1602	3188.5	2.42	3.36	4.26	86	44.1	2780	3185.6	9.31	9.41	607	661	60.1	61.4	424	167986	123	32.1	2234	1484	1.43	1.90	1.85	4.53	9.44	8.70
404	1611	3188.8	2.10	3.21	4.34	87	43.9	2790	3186.2	9.32	9.38	607	626	60.6	61.2	420	168775	123	32.2	2342	1487	1.44	1.94	1.89	4.53	9.43	8.70
405	1616	3189.1	2.85	3.20	4.50	87	45.1	2780	3186.5	9.35	9.38	608	592	60.9	61.4	420	169249	123	32.3	1676	1487	1.44	1.87	1.82	4.53	9.43	8.70
406	1623	3189.4	2.84	3.02	4.38	87	46.2	2780	3186.9	9.42	9.39	607	604	60.2	61.4	414	169808	123	32.4	1688	1487	1.45	1.89	1.84	4.53	9.43	8.70
407	1633	3189.7	1.79	2.99	4.50	87	44.8	2780	3187.3	9.38	9.38	608	587	61.2	61.4	414	170728	124	32.6	2064	1491	1.45	2.00	1.95	4.53	9.42	8.70
408	1640	3190.0	1.26	3.21	4.42	87	44.8	2760	3187.5	9.40	9.38	607	611	61.2	61.8	417	171297	124	32.7	2728	1492	1.46	2.11	2.06	4.53	9.42	8.70
409	1649	3190.3	2.11	3.08	4.15	87	44.3	2780	3187.9	9.35	9.36	607	595	61.3	62.2	416	172049	124	32.8	2355	1494	1.46	1.95	1.90	4.53	9.42	8.70
410	1657	3190.7	2.30	3.30	4.38	87	45.0	2780	3188.2	9.29	9.32	608	593	61.5	61.8	412	172766	125	33.0	2180	1496	1.47	1.93	1.88	4.53	9.42	8.70
411	1659	3191.0	10.1	3.05	4.32	87	44.4	2790	3188.3	9.29	9.30	608	590	61.6	61.3	413	172922	125	33.0	467	1493	1.47	1.49	1.44	4.53	9.42	8.70
412	1701	3191.3	8.48	3.12	3.89	87	43.7	2790	3188.5	9.29	9.30	608	608	61.6	61.3	416	173090	125	33.0	612	1491	1.47	1.53	1.48	4.53	9.42	8.70
413	1702	3191.6	14.2	3.11	4.53	87	45.4	2790	3188.6	9.29	9.27	608	578	61.6	61.0	413	173198	126	33.0	356	1488	1.47	1.40	1.35	4.53	9.43	8.70
414	1707	3191.9	3.29	3.34	4.50	87	44.5	2790	3188.8	9.26	9.28	608	607	61.6	60.8	414	173671	126	33.1	1226	1488	1.48	1.82	1.77	4.53	9.43	8.70
415	1710	3192.2	6.47	3.42	4.31	88	43.2	2800	3188.9	9.28	9.30	608	577	61.5	60.9	413	173921	126	33.2	926	1487	1.48	1.61	1.56	4.53	9.43	8.70
416	1716	3192.5	3.32	3.40	4.63	87	44.0	2800	3188.9	9.27	9.27	609	592	61.4	61.3	412	174398	126	33.3	5351	1486	1.48	1.81	1.76	4.54	9.44	8.70
417	1722	3192.8	2.97	3.36	4.11	88	44.1	2810	3189.3	9.26	9.24	610	588	61.3	61.3	406	174935	127	33.4	1895	1487	1.49	1.85	1.80	4.54	9.44	8.70
418	1728	3193.1	2.67	3.11	3.98	90	43.9	2810	3189.5	9.24	9.34	610	621	61.3	61.8	401	175542	127	33.5	2015	1488	1.49	1.88	1.83	4.54	9.44	8.70
419	1732	3193.4	4.78	3.03	4.52	89	44.0	2810	3189.6	9.25	9.33	610	612	61.5	61.9	401	175879	127	33.6	1272	1487	1.49	1.71	1.66	4.54	9.44	8.70
420	1735	3193.7	6.83	2.97	3.80	89	44.9	2820	3189.7	9.25	9.33	610	604	61.5	61.9	402	176092	128	33.6	698	1485	1.50	1.61	1.56	4.54	9.44	8.70
421	1739	3194.0	3.99	3.29	4.07	88	45.0	2790	3189.9	9.25	9.47	611	633	61.7	62.1	401	176495	128	33.7	1221	1484	1.50	1.77	1.72	4.54	9.44	8.70
422	1742	3194.3	6.87	3.78	4.22	88	43.7	2800	3190.0	9.25	9.47	610	609	61.7	62.1	402	176728	128	33.7	793	1482	1.50	1.59	1.54	4.54	9.45	8.70
423	1748	3194.6	3.09	3.73	4.20	89	44.6	2810	3190.3	9.25	9.46	610	611	61.8	62.3	400	177250	129	33.8	1944	1482	1.51	1.84	1.79	4.54	9.44	8.70
424	1814	3195.8	2.78	3.32	4.34	88	45.1	2810	3191.3	9.29	9.50	611	635	62.1	62.8	397	179591	130	34.2	1567	1485	1.52	1.88	1.83	4.54	9.43	8.70
425	1823	3196.1	2.08	3.16	4.00	89	45.8	2820	3191.6	9.31	9.53	612	641	62.1	62.7	396	180354	130	34.4	2205	1487	1.53	1.98	1.93	4.55	9.43	8.70
426	1832	3196.4	1.97	3.11	3.65	89	44.9	2820	3192.0	9.32	9.54	612	674	62.3	62.9	396	181179	130	34.5	2403	1490	1.54	1.98	1.93	4.55	9.42	8.70
427	1838	3196.7	2.99	3.07	4.25	87	45.3	2820	3192.9	9.31	9.56	613	653	62.4	62.6	394	181707	131	34.6	1822	1490	1.54	1.86	1.81	4.55	9.41	8.70
428	1843	3197.0	3.68	3.15	4.12	86	44.9	2820	3193.2	9.35	9.56	613	673	62.3	63.0	393	182137	131	34.7	1430	1490	1.54	1.79	1.74	4.55	9.40	8.70
429	1853	3197.4	6.95	2.97	3.90	89	37.0	2840	3193.7	9.36	9.57	603	592	62.2	62.9	406	182398	131	34.8	1001	1489	1.55	1.52	1.47	4.55	9.39	8.70
430	1855	3197.7	8.14	3.14	3.76	90	41.4	2830	3193.8	9.44	9.60	614	647	61.9	62.3	402	182568	132	34.8	510	1486	1.55	1.53	1.48	4.55	9.39	8.70
431	1900	3198.0	3.36	3.30	3.86	88	43.1	2830	3194.1	9.43	9.59	614	640	61.6	61.9	395	183042	132	34.9	1357	1486	1.55	1.81	1.75	4.55	9.39	8.70
432	1906	3198.3	3.01	3.24	4.14	87	44.1	2810	3194.4	9.42	9.58	613	624	61.2	62.2	394	183591	132	35.0	1570	1487	1.56	1.85	1.80	4.55	9.38	8.70
433	1913	3198.6	2.88	3.28	4.53	87	44.6	2820	3194.9	9.43	9.57	613	635	61.0	62.6	397	184143	133	35.1	1788	1487	1.56	1.87	1.82	4.55	9.38	8.70
434	1920	3198.9	2.57	3.20	4.26	88	43.9	2830	3195.5	9.37	9.57	613	643	60.1	62.6	403	184765	133	35.2	2071	1488	1.56	1.90	1.84	4.55	9.39	8.70
435	1925	3199.2	3.61	3.36	4.07	90	45.1	2840	3195.8	9.41	9.60	613	633	59.8	62.1	406	185215	133	35.3	1712	1489	1.57	1.82	1.76	4.55	9.39	8.70
436	1928	3199.5	5.75	3.29	4.44	88	45.4	2830	3196.0	9.39	9.56	613	577	59.4	62.3	406	185487	133	35.4	865	1487	1.57	1.67	1.62	4.55	9.39	8.70
437	1933	3199.8	3.70	3.09	4.04	88	44.2	2830	3196.3	9.38	9.52	612	594	59.0	61.9	406	185929	134	35.4	1058	1486	1.57	1.79	1.74	4.55	9.40	8.70
438	1938	3200.1	3.41	3.00	4.24	87	44.0	2840	3196.5	9.40	9.51	612	611	58.7	62.5	406	186394	134	35.5	1723	1487	1.58	1.81	1.75	4.56	9.41	8.70
439	1943	3200.4	3.94	3.48	4.23	87	44.1	2830	3196.6	9.45	9.52	613	603	58.4	62.1	406	186794	134	35.6	1155	1486	1.58	1.76	1.71	4.56	9.42	8.70
440	1947	3200.7	3.88	3.50	4.01	87	45.1	2840	3196.9	9.40	9.53	613	618	58.2	62.4	406	187199	135	35.7	1280	1485	1.58	1.78	1.72	4.56	9.43	8.70
441	1951	3201.0	5.42	3.54	4.00	88	44.3	2830	3197.1	9.39	9.51	613	605	58.1	61.7	406	187493	135	35.7	1069	1484	1.59	1.67	1.62	4.56	9.44	8.70
442	1954	3201.3	5.01	3.57	4.05	89	45.3	2840	3197.2	9.38	9.52	613	586	57.9	62.2	406	187814	135	35.8	1058	1483	1.59	1.71	1.65	4.56	9.44	8.70
443	1958	3201.6	4.77	3.34	3.87	88	44.3	2830	3197.3	9.40	9.51	614	604	57.8	62.6	406	188151	136	35.9	1032	1482	1.59	1.71	1.65	4.56	9.45	8.70
444	2003	3201.9	4.05	3.71	4.04	89	44.4	2830	3197.5	9.38	9.52	613	637	57.8	62.1	406	188548	136	35.9	1316	1481	1.59	1.76	1.70	4.56	9.46	8.70
445	2007	3202.2	4.24	3.60	3.90	88	44.2	2830	3197.7	9.38	9.53	613	601	57.7	62.0	406	188924	136	36.0	1362	1481	1.60	1.74	1.68	4.56	9.46	8.70
446	2011	3202.5	4.03	3.71	3.93	89	44.6	2830	3197.8	9.41	9.54	612	621	57.7	61.4	406	189325	137	36.1	1292	1480	1.60	1.76	1.70	4.56	9.47	8.70
447	2016	3202.8	4.24	3.75	4.38	87	44.5	2820	3198.0	9.39	9.56	612	611	57.7	61.6	406	189701	137	36.2	1131	1479	1.60	1.74	1.68	4.56	9.48	8.70
448	2019	3203.2	6.50	3.74	4.05	89	45.6	2830	3198.2	9.41	9.57	613	601	57.6	61.7	406	189968	137	36.2	805	1478	1.61	1.63	1.57	4.56	9.48	8.70
449	2024	3203.4	3.25	3.91	4.40	88	45.1	2840	3198.4	9.44	9.56	613	609	57.6	61.6	406	190419	137	36.3	1532	1478	1.61	1.82	1.77	4.56	9.49	8.70
450	2028	3203.8	4.00	3.73	4.06	88	45.3	2830	3198.8	9.45	9.56	614	626	57.6	61.6	406	190820	138	36.4	1290	1477	1.61	1.76	1.71	4.57	9.50	8.70
451	2034	3204.1	3.83	3.71	4.05	88	44.7	2830	3199.1	9.45	9.54	614	616	57.6	61.4	406	191264	138	36.5	1527	1477	1.62	1.77	1.71	4.57	9.50	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	MK	MKB	ECD	EST FM PR
452	2037	3204.4	5.06	3.77	4.18	88	44.3	2820	3199.3	9.45	9.54	614	609	57.6	61.4	406	191561	138	36.5	972	1476	1.62	1.68	1.63	4.57	9.50	8.70
453	2041	3204.7	3.99	3.71	4.01	87	44.2	2820	3199.6	9.43	9.53	613	607	57.5	61.6	406	191959	139	36.6	1295	1475	1.62	1.75	1.69	4.57	9.50	8.70
454	2046	3205.0	4.02	3.77	4.15	87	44.6	2820	3199.8	9.47	9.56	613	618	57.3	61.4	406	192354	139	36.7	1245	1475	1.62	1.75	1.69	4.57	9.51	8.70
455	2050	3205.3	4.88	3.99	4.33	87	45.2	2830	3200.0	9.42	9.56	613	614	57.2	61.5	406	192694	139	36.7	1098	1474	1.63	1.70	1.64	4.57	9.51	8.70
456	2054	3205.6	4.77	4.23	4.56	89	45.2	2810	3200.2	9.45	9.56	613	639	57.1	61.5	406	193014	140	36.8	970	1473	1.63	1.71	1.65	4.57	9.52	8.70
457	2057	3205.9	4.84	4.05	4.30	87	45.4	2820	3200.3	9.45	9.57	612	618	57.0	61.1	406	193353	140	36.9	1127	1472	1.63	1.70	1.64	4.57	9.52	8.70
458	2103	3206.2	3.58	4.29	4.72	86	44.5	2810	3200.7	9.42	9.57	612	605	56.9	60.4	406	193792	140	36.9	1364	1472	1.63	1.78	1.72	4.57	9.52	8.70
459	2107	3206.5	3.96	4.40	4.70	87	45.3	2810	3201.0	9.41	9.55	612	635	56.9	60.3	406	194177	140	37.0	1243	1471	1.64	1.76	1.70	4.57	9.53	8.70
460	2116	3206.8	4.21	3.48	5.64	86	39.7	2850	3201.4	9.43	9.49	617	595	57.6	58.9	406	194372	141	37.0	1234	1469	1.64	1.70	1.65	4.57	9.53	8.70
461	2120	3207.1	4.86	3.20	4.03	87	43.5	2840	3201.6	9.40	9.50	615	586	57.9	58.5	406	194696	141	37.1	1250	1468	1.64	1.68	1.62	4.57	9.53	8.70
462	2125	3207.4	4.16	3.46	3.98	87	41.9	2840	3201.9	9.40	9.49	615	557	58.0	58.8	406	195098	141	37.2	1187	1468	1.64	1.70	1.65	4.57	9.53	8.70
463	2128	3207.7	5.15	3.74	5.26	87	42.0	2830	3202.2	9.40	9.49	614	570	58.2	58.5	406	195388	142	37.2	982	1467	1.65	1.64	1.59	4.58	9.53	8.70
464	2134	3208.0	3.03	4.20	4.48	86	43.8	2830	3202.7	9.41	9.47	614	576	58.3	58.5	406	195931	142	37.3	1533	1467	1.65	1.81	1.76	4.58	9.53	8.70
465	2140	3208.3	3.06	4.16	4.46	86	43.0	2840	3203.2	9.41	9.43	614	553	58.4	58.2	406	196443	142	37.4	1815	1468	1.66	1.80	1.74	4.58	9.53	8.70
466	2146	3208.6	3.28	4.20	4.46	86	42.7	2820	3203.6	9.42	9.42	614	558	58.5	58.4	452	196920	143	37.5	1496	1468	1.66	1.77	1.72	4.58	9.53	8.70
467	2152	3208.9	3.08	4.17	4.46	86	43.2	2830	3204.0	9.44	9.43	613	561	58.5	58.2	450	197426	143	37.6	1744	1468	1.66	1.80	1.74	4.58	9.54	8.70
468	2154	3209.2	7.96	4.31	4.67	86	42.4	2830	3204.2	9.46	9.45	613	569	58.4	58.2	450	197616	143	37.7	604	1466	1.66	1.52	1.46	4.58	9.54	8.70
469	2156	3209.5	10.3	4.44	4.85	86	42.0	2820	3204.3	9.46	9.45	614	543	58.4	58.2	451	197767	144	37.7	466	1464	1.67	1.44	1.38	4.58	9.54	8.70
470	2157	3209.9	14.9	4.18	4.91	86	42.6	2810	3204.5	9.46	9.45	614	549	58.4	58.2	451	197874	144	37.7	365	1462	1.67	1.34	1.28	4.58	9.54	8.70
+ Flow check at 3210m.																											
472	2206	3210.2	8.74	3.46	4.19	88	42.2	2820	3204.8	9.43	9.43	611	521	58.0	58.6	462	198066	144	37.8	557	1460	1.67	1.49	1.44	4.58	9.54	8.70
473	2207	3210.5	18.2	3.60	4.00	92	43.1	2820	3204.9	9.43	9.43	611	547	58.0	58.6	462	198157	144	37.8	267	1458	1.67	1.30	1.25	4.58	9.54	8.70
474	2209	3210.8	9.82	3.66	4.29	88	43.5	2820	3205.0	9.45	9.45	612	562	57.7	59.0	462	198319	145	37.8	454	1455	1.67	1.47	1.42	4.58	9.54	8.70
475	2210	3211.1	10.4	3.65	4.38	87	43.3	2810	3205.2	9.45	9.45	611	559	57.7	59.0	461	198471	145	37.8	491	1453	1.67	1.45	1.39	4.58	9.54	8.70
476	2216	3211.4	3.45	3.45	3.97	87	43.3	2810	3205.5	9.48	9.48	612	565	57.6	58.5	458	198922	145	37.9	1871	1453	1.67	1.77	1.71	4.59	9.54	8.70
477	2224	3211.7	2.27	3.26	3.88	87	43.0	2810	3206.1	9.45	9.48	612	555	57.6	58.3	452	199619	146	38.1	2059	1455	1.68	1.89	1.83	4.59	9.54	8.70
478	2231	3212.0	2.41	2.93	3.85	87	42.7	2830	3206.6	9.44	9.49	612	626	57.7	58.7	446	200277	146	38.2	2217	1456	1.68	1.86	1.81	4.59	9.54	8.70
479	2239	3212.3	2.44	3.24	4.00	87	42.6	2800	3207.2	9.46	9.51	612	596	57.8	58.6	444	200924	146	38.3	2033	1457	1.69	1.86	1.80	4.59	9.55	8.70
480	2248	3212.6	2.04	3.17	3.98	87	42.7	2820	3207.8	9.48	9.49	613	573	57.9	58.9	440	201701	147	38.5	2365	1459	1.70	1.91	1.85	4.59	9.55	8.70
481	2256	3212.9	2.29	3.13	4.16	87	42.5	2820	3208.2	9.48	9.47	613	605	58.0	59.1	435	202398	147	38.6	2361	1461	1.70	1.88	1.82	4.59	9.55	8.70
482	2304	3213.2	2.15	3.13	3.87	89	42.8	2820	3208.9	9.48	9.47	613	607	58.2	59.6	429	203149	147	38.7	2329	1463	1.71	1.90	1.84	4.59	9.55	8.70
483	2313	3213.5	1.94	2.99	3.88	88	43.0	2810	3209.4	9.48	9.52	613	629	58.3	59.9	416	203972	148	38.9	2673	1465	1.71	1.93	1.87	4.59	9.55	8.70
484	2322	3213.8	2.26	3.06	3.96	86	43.0	2810	3209.8	9.49	9.53	612	620	58.3	60.6	413	204671	148	39.0	2344	1466	1.72	1.88	1.83	4.59	9.55	8.70
485	2330	3214.1	2.18	3.13	4.04	87	42.2	2810	3210.3	9.49	9.54	612	624	58.4	60.5	410	205397	148	39.2	2182	1468	1.72	1.88	1.83	4.59	9.55	8.70
486	2338	3214.4	2.57	3.14	4.02	87	42.7	2790	3211.2	9.48	9.55	612	618	58.6	60.5	408	206058	148	39.3	1974	1469	1.73	1.84	1.79	4.59	9.55	8.70
487	2347	3214.7	1.76	3.10	4.04	87	43.1	2800	3212.4	9.37	9.54	613	621	59.2	60.6	406	206899	149	39.4	2394	1472	1.74	1.96	1.90	4.59	9.56	8.70
488	2355	3215.0	2.23	3.16	4.21	87	43.5	2790	3212.8	9.37	9.50	612	625	59.5	60.2	403	207614	149	39.6	2298	1473	1.74	1.89	1.84	4.59	9.56	8.70
	Date	Oct 14 '85																									
489	0004	3215.3	2.03	3.17	3.88	87	44.5	2810	3213.2	9.38	9.50	612	611	59.5	60.4	403	208401	149	39.7	2346	1475	1.75	1.93	1.87	4.60	9.57	8.70
490	0011	3215.7	2.79	3.18	4.53	87	45.0	2810	3213.5	9.39	9.47	612	598	59.6	60.6	403	209003	150	39.8	1974	1476	1.75	1.85	1.79	4.60	9.57	8.70
+ Run survey at 3216m.																											
492	0127	3215.9	7.82	3.16	4.52	88	43.9	2790	3214.2	9.40	9.55	604	625	58.4	57.5	402	209274	150	39.9	660	1475	1.75	1.54	1.48	4.60	9.56	8.70
493	0133	3216.2	3.22	4.10	4.97	89	43.2	2810	3214.4	9.33	9.60	610	634	57.1	51.3	389	209779	150	40.0	6422	1475	1.76	1.79	1.73	4.60	9.56	8.70
494	0141	3216.6	2.31	4.05	4.77	88	46.3	2790	3214.6	9.31	9.54	608	609	56.0	57.6	385	210467	151	40.1	2283	1476	1.76	1.93	1.86	4.60	9.55	8.70
495	0152	3216.9	1.67	4.16	4.60	88	46.4	2800	3215.0	9.35	9.51	608	616	56.0	58.2	384	211429	151	40.3	2644	1479	1.77	2.03	1.96	4.60	9.55	8.70
496	0202	3217.2	1.84	3.93	4.69	87	46.5	2800	3215.4	9.35	9.52	609	623	56.9	58.1	381	212287	151	40.5	2745	1482	1.78	2.00	1.93	4.60	9.54	8.70
497	0215	3217.5	1.35	3.90	4.44	88	46.4	2810	3215.9	9.34	9.51	609	628	57.4	58.3	378	213466	151	40.7	3753	1486	1.79	2.09	2.03	4.60	9.52	8.70
498	0225	3217.8	1.76	4.17	4.79	90	45.6	2790	3216.3	9.32	9.50	611	626	57.8	58.2	376	214395	152	40.9	2978	1489	1.79	2.01	1.95	4.60	9.50	8.70
499	0237	3218.1	1.58	3.70	4.23	88	47.5	2790	3216.7	9.31	9.52	610	652	57.9	59.0	371	215409	152	41.0	3466	1492	1.80	2.07	2.01	4.60	9.49	8.70
500	0241	3218.4	1.62	3.54	3.87	87	46.0	2790	3216.8	9.31	9.51	611	634	57.9	59.0	372	215748	152	41.1	3444	1491	1.80	2.04	1.98	4.60	9.48	8.70

EXLOG AMOCO AUST. Tilana No.1 329236 Data Printed at time 07:26 Date Oct 16 '85
Data Recorded at time 02:51 Date Oct 14 '85 168 46

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
501	0251	3218.7	1.71	3.59	4.05	87	45.9	2790	3217.4	9.33	9.49	609	636	58.2	59.4	370	216678	153	41.3	3017	1494	1.81	2.02	1.96	4.60	9.47	8.70
502	0301	3219.0	1.89	3.60	4.09	87	44.6	2790	3217.4	9.30	9.51	609	644	58.4	59.4	364	217532	153	41.5	2845	1497	1.82	1.98	1.91	4.61	9.46	8.70
503	0310	3219.3	1.99	3.65	4.14	87	44.8	2800	3217.8	9.33	9.49	610	624	58.7	59.4	365	218252	153	41.6	2468	1498	1.82	1.97	1.90	4.61	9.46	8.70
504	0315	3219.6	1.73	3.70	4.23	87	45.6	2800	3218.0	9.32	9.48	610	638	58.9	60.7	365	218747	154	41.7	2949	1498	1.83	2.02	1.96	4.61	9.46	8.70
505	0324	3219.9	2.09	3.67	4.39	88	44.2	2800	3218.4	9.31	9.46	611	614	59.1	60.7	363	219560	154	41.8	2481	1500	1.83	1.95	1.89	4.61	9.45	8.70
506	0326	3220.2	15.2	4.04	4.35	87	43.1	2790	3218.4	9.31	9.46	610	610	59.1	60.7	365	219660	154	41.9	432	1498	1.83	1.35	1.29	4.61	9.45	8.70
507	0327	3220.5	14.7	3.87	4.35	88	43.3	2790	3218.5	9.31	9.46	610	598	59.1	60.7	363	219768	155	41.9	330	1496	1.83	1.37	1.31	4.61	9.45	8.70
508	0328	3220.8	17.2	3.82	4.17	88	44.0	2790	3218.5	9.31	9.50	610	603	59.6	60.9	361	219860	155	41.9	282	1493	1.83	1.33	1.26	4.61	9.45	8.70
Flow check at 3221m.																											
510	0336	3221.1	5.50	3.56	4.35	88	44.3	2850	3218.7	9.32	9.48	615	598	59.8	60.8	369	220168	155	42.0	2250	1492	1.84	1.67	1.60	4.61	9.44	8.70
511	0337	3221.4	5.43	3.22	4.15	87	43.1	2850	3218.8	9.32	9.48	616	613	59.8	60.8	367	220304	155	42.0	1067	1490	1.84	1.65	1.59	4.61	9.44	8.70
512	0341	3221.7	4.45	2.97	4.41	87	43.4	2840	3218.9	9.31	9.51	616	595	59.8	60.5	362	220658	156	42.0	1130	1489	1.84	1.71	1.65	4.61	9.44	8.70
513	0348	3222.0	2.61	3.23	4.46	87	42.9	2840	3219.2	9.32	9.50	615	595	59.6	60.6	367	221227	156	42.2	2035	1490	1.84	1.86	1.80	4.61	9.44	8.70
514	0355	3222.3	2.72	3.56	4.20	87	43.1	2840	3219.4	9.33	9.52	615	582	59.1	60.6	377	221808	156	42.3	1851	1491	1.85	1.85	1.79	4.61	9.44	8.70
515	0400	3222.6	3.70	3.71	4.35	86	43.0	2850	3219.5	9.32	9.51	615	582	58.3	61.3	386	222235	157	42.3	1394	1490	1.85	1.76	1.70	4.62	9.44	8.70
516	0407	3223.0	2.56	3.38	4.47	87	43.5	2860	3219.8	9.30	9.49	616	574	57.2	61.3	399	222853	157	42.5	1742	1491	1.86	1.88	1.81	4.62	9.43	8.70
517	0415	3223.3	2.11	2.96	3.65	87	43.9	2850	3220.1	9.30	9.49	617	596	56.6	61.1	412	223604	157	42.6	2357	1493	1.86	1.94	1.88	4.62	9.43	8.70
518	0426	3223.6	1.78	2.97	3.53	87	42.6	2850	3220.5	9.33	9.50	616	574	56.4	60.4	430	224496	158	42.8	2593	1495	1.87	1.97	1.91	4.62	9.43	8.70
519	0433	3223.9	2.54	3.64	4.13	87	42.3	2830	3220.7	9.36	9.49	614	572	56.3	61.0	438	225144	158	42.9	2199	1497	1.87	1.87	1.80	4.62	9.43	8.70
520	0440	3224.2	2.45	3.69	4.01	87	42.9	2840	3221.0	9.35	9.50	616	566	56.4	60.5	437	225766	158	43.0	2019	1497	1.88	1.89	1.82	4.62	9.41	8.70
521	0448	3224.5	2.43	3.66	3.97	87	43.4	2820	3221.4	9.31	9.47	615	580	56.9	60.8	437	226405	158	43.1	2075	1498	1.88	1.89	1.83	4.62	9.41	8.70
522	0454	3224.8	2.83	3.76	4.49	87	42.1	2820	3221.6	9.33	9.50	615	590	57.9	60.5	433	226980	159	43.3	1742	1499	1.89	1.84	1.77	4.62	9.41	8.70
523	0503	3225.1	2.08	3.53	4.12	87	43.8	2820	3222.2	9.33	9.50	615	566	58.7	61.0	433	227722	159	43.4	2603	1500	1.89	1.95	1.88	4.62	9.41	8.70
524	0510	3225.4	2.74	3.68	4.00	87	42.8	2810	3223.2	9.30	9.51	615	578	59.4	60.3	432	228309	159	43.5	1860	1501	1.90	1.85	1.79	4.62	9.41	8.70
525	0524	3225.7	2.96	3.43	4.15	86	42.2	2850	3223.8	9.26	9.48	613	611	59.7	61.1	442	228866	160	43.6	1682	1502	1.90	1.82	1.76	4.62	9.41	8.70
526	0526	3226.0	3.11	3.08	4.13	88	42.1	2820	3223.9	9.27	9.50	617	654	59.9	60.5	431	229084	160	43.7	1624	1500	1.90	1.80	1.75	4.62	9.41	8.70
527	0532	3226.3	2.97	4.13	4.61	90	43.0	2840	3224.2	9.15	9.53	618	662	59.9	60.6	420	229590	160	43.7	2636	1500	1.91	1.84	1.78	4.62	9.41	8.70
528	0537	3226.6	3.17	4.21	4.68	89	43.1	2840	3224.5	9.15	9.53	618	645	59.8	60.4	416	230101	161	43.8	1583	1500	1.91	1.82	1.76	4.63	9.41	8.70
529	0543	3226.9	3.27	4.26	4.63	89	42.8	2840	3224.7	9.21	9.43	617	626	59.9	60.3	414	230596	161	43.9	1580	1500	1.91	1.81	1.74	4.63	9.41	8.70
530	0547	3227.2	4.46	4.18	4.47	88	42.2	2840	3224.9	9.22	9.42	617	626	59.9	60.1	415	230954	161	44.0	1123	1500	1.92	1.71	1.64	4.63	9.42	8.70
531	0549	3227.5	11.9	4.14	4.39	87	42.1	2840	3225.0	9.22	9.42	618	632	59.9	60.1	414	231088	162	44.0	435	1498	1.92	1.42	1.35	4.63	9.42	8.70
532	0553	3227.9	4.59	3.41	4.13	87	42.1	2860	3225.1	9.22	9.40	619	611	59.9	59.3	413	231455	162	44.1	1721	1497	1.92	1.69	1.63	4.63	9.42	8.70
533	0555	3228.1	7.80	3.56	4.34	87	42.3	2850	3225.2	9.22	9.40	618	609	59.9	59.3	412	231646	162	44.1	587	1495	1.92	1.54	1.48	4.63	9.42	8.70
534	0600	3228.4	3.64	3.34	4.26	88	42.6	2840	3225.4	9.25	9.35	618	585	59.8	59.6	410	232082	162	44.2	1419	1495	1.93	1.77	1.70	4.63	9.42	8.70
535	0609	3228.7	2.00	3.38	3.94	88	42.1	2850	3225.7	9.23	9.31	619	601	59.6	58.8	409	232892	163	44.4	2584	1497	1.93	1.94	1.88	4.63	9.40	8.70
536	0614	3229.1	3.72	3.37	4.13	90	42.0	2860	3225.9	9.24	9.29	618	598	59.5	58.6	408	233332	163	44.5	1358	1496	1.94	1.77	1.70	4.63	9.40	8.70
537	0620	3229.4	3.03	3.24	3.93	88	43.1	2860	3226.2	9.23	9.29	619	583	59.4	58.5	408	233861	163	44.6	1876	1497	1.94	1.84	1.77	4.63	9.39	8.70
538	0625	3229.7	3.75	3.34	3.90	89	41.6	2870	3226.4	9.22	9.33	619	592	59.2	58.6	407	234314	164	44.6	1441	1497	1.94	1.76	1.69	4.63	9.39	8.70
539	0631	3230.0	3.31	3.51	4.05	90	41.4	2860	3226.5	9.23	9.32	618	583	58.8	58.1	408	234811	164	44.7	1519	1497	1.95	1.80	1.73	4.63	9.38	8.70
540	0637	3230.3	3.08	3.37	4.07	89	42.5	2860	3226.9	9.22	9.32	619	616	58.7	57.9	406	235336	164	44.8	1924	1497	1.95	1.83	1.76	4.64	9.38	8.70
541	0640	3230.6	5.43	3.28	3.85	89	42.3	2840	3227.0	9.22	9.35	619	584	58.5	57.9	406	235632	165	44.9	942	1496	1.95	1.66	1.59	4.64	9.38	8.70
542	0645	3230.9	3.67	3.27	4.05	89	42.4	2830	3227.2	9.22	9.33	619	614	58.3	58.6	404	236075	165	45.0	1756	1496	1.96	1.78	1.71	4.64	9.37	8.70
543	0647	3231.2	6.60	3.30	3.74	87	41.3	2810	3227.3	9.22	9.33	620	593	58.3	58.6	401	236311	165	45.0	775	1494	1.96	1.59	1.52	4.64	9.37	8.70
544	0653	3231.5	3.52	3.20	3.91	87	40.3	2780	3227.4	9.22	9.35	620	622	58.2	58.5	398	236772	165	45.1	867	1494	1.96	1.76	1.69	4.64	9.37	8.70
545	0658	3231.8	3.65	3.09	3.81	88	41.3	2730	3227.7	9.20	9.35	620	635	58.1	58.5	402	237201	166	45.2	1351	1494	1.96	1.76	1.70	4.64	9.36	8.70
546	0659	3232.1	4.29	2.98	3.68	88	42.3	2730	3227.8	9.20	9.35	620	613	58.1	58.5	401	237339	166	45.2	1499	1492	1.97	1.73	1.66	4.64	9.36	8.70
547	0705	3232.4	3.12	2.92	3.79	87	41.6	2720	3228.2	9.21	9.38	620	600	58.1	58.6	398	237870	166	45.3	1634	1492	1.97	1.81	1.75	4.64	9.35	8.70
548	0711	3232.7	3.23	2.90	3.62	87	41.8	2600	3228.5	9.20	9.38	621	617	58.2	59.0	399	238365	167	45.4	1483	1492	1.97	1.81	1.74	4.64	9.35	8.70
549	0716	3233.0	3.54	2.60	3.30	87	33.1	2840	3228.7	9.23	9.37	612	610	58.1	59.4	409	238398	167	45.4	1108	1490	1.97	1.76	1.69	4.64	9.34	8.70
550	0725	3233.6	4.21	3.26	4.12	88	42.4	2840	3229.2	9.19	9.41	618	635	58.0	58.8	396	239151	168	45.5	1522	1488	1.98	1.74	1.67	4.64	9.34	8.70

AMOCO AUST. Tilana No.1 329237

Data Printed at time 07:30 Date Oct 16 '85
Data Recorded at time 07:29 Date Oct 14 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
551	0729	3233.9	4.11	3.75	4.10	88	40.9	2850	3229.7	9.21	9.41	618	621	58.1	59.0	394	239542	168	45.6	1229	1488	1.98	1.73	1.66	4.65	9.33	8.70
552	0734	3234.2	3.68	3.75	4.07	88	42.1	2850	3230.2	9.21	9.39	619	617	58.2	59.7	393	239978	168	45.7	1501	1488	1.99	1.78	1.71	4.65	9.32	8.70
553	0737	3234.5	6.02	3.93	4.15	90	42.6	2860	3230.3	9.21	9.37	620	614	58.3	59.7	393	240250	169	45.8	916	1487	1.99	1.65	1.58	4.65	9.32	8.70
554	0741	3234.8	4.56	3.93	4.17	90	41.8	2850	3230.5	9.21	9.37	620	629	58.3	59.7	391	240607	169	45.8	1053	1486	1.99	1.72	1.65	4.65	9.32	8.70
555	0744	3235.1	5.63	3.97	4.15	90	41.6	2870	3230.6	9.24	9.38	621	636	58.5	59.9	391	240898	169	45.9	899	1485	1.99	1.65	1.59	4.65	9.32	8.70
556	0749	3235.5	4.20	3.95	4.21	90	42.2	2870	3230.8	9.24	9.38	621	627	58.6	59.9	390	241287	169	45.9	1241	1484	2.00	1.75	1.68	4.65	9.32	8.70
557	0802	3235.8	5.86	3.84	4.44	90	41.0	2780	3231.3	9.25	9.38	554	424	58.9	60.2	410	241604	170	46.0	928	1483	2.00	1.64	1.57	4.65	9.31	8.70
558	0809	3236.4	2.94	2.92	3.77	89	40.1	2870	3231.6	9.23	9.43	624	649	58.6	60.0	390	242200	170	46.1	8759	1482	2.00	1.82	1.75	4.65	9.33	8.70
559	0816	3236.7	2.49	3.02	3.84	90	40.4	2840	3232.0	9.25	9.43	618	656	58.5	59.7	384	242824	171	46.2	1985	1482	2.01	1.87	1.81	4.65	9.32	8.70
560	0826	3237.0	1.87	3.17	3.73	89	39.0	2850	3232.7	9.26	9.45	616	654	58.8	59.9	381	243695	171	46.4	2466	1484	2.01	1.93	1.87	4.65	9.32	8.70
561	0833	3237.3	2.74	2.94	3.63	87	37.4	2860	3233.1	9.25	9.43	617	644	59.0	59.7	379	244299	171	46.5	1876	1485	2.02	1.80	1.73	4.65	9.32	8.70
562	0841	3237.6	2.13	2.98	3.67	87	38.5	2850	3233.8	9.26	9.40	617	653	59.2	59.6	378	245050	172	46.6	3859	1486	2.02	1.89	1.82	4.65	9.32	8.70
563	0849	3237.9	2.30	3.08	3.73	89	37.8	2830	3234.2	9.24	9.37	616	656	59.2	59.4	377	245731	172	46.8	2303	1487	2.03	1.86	1.79	4.66	9.32	8.70
564	0853	3238.2	4.11	2.97	3.92	89	39.9	2850	3234.5	9.22	9.36	618	633	59.2	59.0	373	246136	172	46.8	1343	1487	2.03	1.72	1.65	4.66	9.32	8.70
565	0857	3238.5	4.24	2.92	3.98	89	40.2	2860	3234.7	9.21	9.36	620	665	59.0	59.3	373	246508	172	46.9	1117	1486	2.03	1.72	1.65	4.66	9.32	8.70
566	0903	3238.8	3.38	3.19	3.71	89	39.8	2870	3235.0	9.21	9.37	619	666	58.9	59.3	370	246999	173	47.0	1848	1486	2.04	1.78	1.71	4.66	9.32	8.70
567	0909	3239.1	2.99	2.97	3.65	90	41.0	2870	3235.4	9.22	9.37	619	674	58.9	59.2	368	247540	173	47.1	1730	1487	2.04	1.83	1.76	4.66	9.32	8.70
568	0914	3239.4	3.65	2.92	3.73	89	39.8	2780	3235.7	9.23	9.38	608	672	58.9	59.2	369	247978	173	47.2	1342	1486	2.05	1.75	1.68	4.66	9.33	8.70
569	0921	3239.7	2.75	3.03	3.65	88	39.2	2760	3236.3	9.23	9.38	607	657	58.9	59.2	367	248568	174	47.3	2074	1487	2.05	1.82	1.76	4.66	9.33	8.70
570	0925	3240.0	3.83	3.09	3.85	87	40.0	2760	3236.6	9.22	9.41	607	663	58.8	59.6	372	248930	174	47.4	1271	1487	2.05	1.74	1.67	4.66	9.33	8.70
571	0932	3240.3	2.73	3.08	3.75	87	39.7	2760	3237.2	9.20	9.41	606	662	58.0	60.5	378	249561	174	47.5	1568	1487	2.06	1.83	1.76	4.66	9.33	8.70
572	0940	3240.6	2.34	3.73	4.12	87	39.2	2780	3237.7	9.20	9.42	607	640	57.4	60.3	389	250238	175	47.6	1962	1488	2.06	1.86	1.79	4.66	9.33	8.70
573	0947	3240.9	2.67	3.69	4.23	87	38.9	2770	3238.0	9.26	9.40	608	665	56.6	60.3	397	250330	175	47.7	1836	1489	2.07	1.82	1.75	4.66	9.33	8.70
574	0951	3241.2	4.42	3.87	4.16	86	40.2	2770	3238.1	9.24	9.40	608	625	56.3	60.4	399	251198	175	47.8	1160	1488	2.07	1.69	1.62	4.66	9.33	8.70
575	0956	3241.5	3.38	3.85	4.14	87	39.8	2770	3238.3	9.21	9.32	607	619	56.1	60.7	405	251656	176	47.9	1489	1488	2.07	1.77	1.70	4.67	9.33	8.70
576	1005	3241.9	2.03	3.62	4.02	87	40.6	2760	3238.6	9.22	9.38	608	630	56.4	60.8	405	252435	176	48.0	2396	1490	2.08	1.93	1.85	4.67	9.33	8.70
577	1011	3242.2	3.41	3.64	4.00	87	40.5	2770	3239.0	9.23	9.37	608	638	56.9	60.6	402	252902	176	48.1	1475	1490	2.08	1.77	1.70	4.67	9.33	8.70
578	1016	3242.5	3.13	3.77	4.29	87	40.5	2770	3239.1	9.21	9.40	609	643	57.8	60.5	399	253408	176	48.2	1693	1490	2.09	1.80	1.73	4.67	9.33	8.70
579	1021	3242.8	3.34	3.67	3.97	87	40.3	2770	3239.3	9.19	9.40	609	640	58.2	60.1	396	253823	177	48.3	1280	1490	2.09	1.74	1.67	4.67	9.33	8.70
580	1029	3243.1	2.40	3.64	3.98	89	40.4	2850	3239.6	9.18	9.40	620	613	58.5	60.4	395	254534	177	48.4	2119	1491	2.09	1.88	1.81	4.67	9.33	8.70
581	1037	3243.4	2.36	3.99	4.54	89	41.3	2790	3240.2	9.21	9.36	610	614	59.0	59.7	396	255224	177	48.6	2184	1492	2.10	1.90	1.83	4.67	9.33	8.70
582	1044	3243.7	2.40	4.30	4.67	88	40.8	2770	3240.5	9.25	9.36	610	637	58.9	59.7	418	255861	178	48.7	2042	1493	2.10	1.89	1.81	4.67	9.33	8.70
583	1049	3244.0	3.94	4.41	4.78	87	40.7	2790	3240.8	9.25	9.38	609	607	58.4	59.5	424	256284	178	48.8	1268	1493	2.11	1.74	1.66	4.67	9.32	8.70
584	1055	3244.3	3.03	4.39	4.83	88	41.0	2790	3241.1	9.26	9.34	609	599	57.8	58.9	429	256809	178	48.9	2148	1493	2.11	1.82	1.75	4.67	9.32	8.70
585	1102	3244.6	2.46	4.23	4.73	89	40.9	2780	3241.5	9.27	9.28	608	608	56.9	58.2	431	257439	179	49.0	2249	1494	2.12	1.88	1.81	4.67	9.32	8.70
586	1109	3244.9	2.71	4.18	4.54	88	41.1	2790	3241.8	9.24	9.31	609	615	56.1	57.8	430	258056	179	49.1	1916	1494	2.12	1.86	1.78	4.67	9.31	8.70
587	1117	3245.2	2.10	4.09	4.47	88	40.7	2790	3242.2	9.26	9.30	608	618	55.7	57.3	436	258789	179	49.2	2131	1496	2.13	1.92	1.85	4.68	9.31	8.70
588	1132	3245.5	3.43	3.19	4.42	87	40.6	2750	3242.3	9.24	9.34	604	593	54.7	57.0	444	259305	179	49.3	1633	1496	2.13	1.77	1.70	4.68	9.35	8.70
589	1135	3245.8	5.17	4.03	4.57	87	39.4	2760	3242.3	9.27	9.33	604	574	54.5	56.7	444	259604	180	49.4	1004	1495	2.13	1.64	1.56	4.68	9.35	8.70
590	1143	3246.1	2.38	4.32	4.70	88	39.5	2750	3242.5	9.27	9.30	604	601	54.5	57.0	438	260292	180	49.5	3120	1496	2.14	1.86	1.79	4.68	9.35	8.70
591	1147	3246.4	4.39	4.37	4.67	89	40.3	2760	3242.6	9.26	9.27	604	598	54.7	56.6	426	260652	180	49.6	1196	1495	2.14	1.70	1.63	4.68	9.35	8.70
592	1153	3246.7	3.04	4.38	4.75	89	43.0	2750	3242.8	9.22	9.28	605	615	54.5	56.4	413	261185	181	49.7	1320	1495	2.14	1.85	1.77	4.68	9.36	8.70
593	1202	3247.0	2.12	4.26	4.63	90	42.9	2760	3243.2	9.26	9.24	605	601	54.7	55.5	408	261960	181	49.8	2068	1497	2.15	1.95	1.87	4.68	9.35	8.70
594	1207	3247.3	3.19	4.37	4.80	89	42.5	2750	3243.4	9.27	9.18	605	622	54.8	56.1	404	262471	181	49.9	1658	1497	2.15	1.82	1.75	4.68	9.35	8.70
595	1213	3247.6	3.21	4.20	4.78	89	42.0	2740	3243.6	9.28	9.26	605	635	55.0	55.6	404	262978	182	50.0	1659	1497	2.16	1.82	1.74	4.68	9.35	8.70
596	1222	3247.9	1.98	4.19	4.49	89	43.2	2750	3243.9	9.31	9.27	607	632	55.3	56.3	402	263798	182	50.2	2316	1499	2.16	1.97	1.90	4.68	9.36	8.70
597	1229	3248.3	2.60	4.17	4.46	89	42.2	2750	3244.1	9.30	9.29	606	625	55.4	56.5	400	264424	182	50.3	1935	1499	2.17	1.88	1.80	4.68	9.36	8.70
598	1235	3248.6	3.00	4.11	4.54	89	43.3	2740	3244.4	9.28	9.30	606	637	55.5	56.5	397	264965	183	50.4	1861	1500	2.17	1.85	1.77	4.68	9.36	8.70
599	1242	3248.9	2.99	4.23	4.67	89	43.1	2740	3244.6	9.27	9.31	607	612	55.6	56.2	397	265557	183	50.5	1729	1500	2.18	1.85	1.77	4.69	9.37	8.70
600	1249	3249.2	2.26	4.18	4.50	89	43.2	2750	3244.9	9.29	9.31	605	610	55.7	56.3	397	266213	183	50.6	2071	1501	2.18	1.93	1.85	4.69	9.37	8.70

AMOCO AUST. Tilana No.1 329238 Data Printed at time 07:34 Date Oct 16 '85
Data Recorded at time 12:57 Date Oct 14 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST T/T	DXC	NX	NXB	ECD	EST PP
601	1257	3249.5	2.50	4.32	4.62	89	42.8	2740	3245.1	9.32	9.28	605	579	55.8	56.2	397	266916	183	50.8	1920	1502	2.19	1.90	1.82	4.69	9.37	8.70
602	1303	3249.8	3.00	4.23	4.63	89	43.7	2750	3245.3	9.33	9.26	606	579	55.9	56.1	398	267439	184	50.9	1735	1502	2.19	1.85	1.77	4.69	9.37	8.70
603	1311	3250.1	2.09	4.22	4.60	90	43.7	2760	3245.7	9.32	9.25	605	569	55.9	55.6	396	268160	184	51.0	2113	1504	2.20	1.96	1.88	4.69	9.38	8.70
604	1320	3250.4	2.26	4.20	4.55	89	43.5	2760	3246.1	9.32	9.23	606	569	55.8	55.5	396	268925	184	51.1	2460	1505	2.20	1.93	1.85	4.69	9.38	8.70
605	1326	3250.7	2.67	4.31	4.62	89	43.7	2770	3246.5	9.31	9.22	606	564	55.6	56.3	393	269437	185	51.2	2228	1505	2.20	1.88	1.81	4.69	9.39	8.70
606	1333	3251.0	2.97	4.35	4.73	89	43.3	2750	3246.8	9.29	9.24	605	574	55.6	55.9	392	270067	185	51.3	1719	1506	2.21	1.85	1.77	4.69	9.39	8.70
607	1337	3251.3	4.27	4.37	4.82	88	43.1	2760	3246.9	9.30	9.22	604	588	55.7	55.7	390	270421	185	51.4	1101	1505	2.21	1.74	1.66	4.69	9.39	8.70
608	1342	3251.6	3.50	4.37	4.77	88	42.5	2760	3247.2	9.31	9.23	604	605	55.7	55.8	390	270903	186	51.5	1659	1505	2.22	1.79	1.71	4.69	9.39	8.70
609	1347	3251.9	3.93	4.22	4.62	87	43.4	2740	3247.4	9.31	9.25	603	593	55.7	55.6	390	271305	186	51.6	1357	1505	2.22	1.76	1.68	4.69	9.40	8.70
610	1354	3252.2	2.08	4.11	4.54	87	42.9	2760	3247.8	9.32	9.24	603	615	55.3	56.0	401	271954	186	51.7	1962	1506	2.22	1.94	1.86	4.69	9.40	8.70
611	1400	3252.5	3.12	3.97	4.33	86	42.8	2760	3248.0	9.29	9.25	602	618	54.7	56.7	407	272462	187	51.8	1682	1506	2.23	1.82	1.74	4.69	9.40	8.70
612	1410	3252.8	2.04	4.12	4.55	88	43.5	2780	3248.4	9.30	9.22	606	617	54.2	55.8	415	273278	187	52.0	2398	1508	2.23	1.96	1.88	4.70	9.41	8.70
613	1416	3253.1	2.79	4.15	4.52	89	43.1	2760	3248.7	9.31	9.24	604	619	53.9	55.6	424	273858	187	52.1	1839	1508	2.24	1.86	1.78	4.70	9.41	8.70
614	1421	3253.4	3.45	4.14	4.56	87	43.8	2760	3249.0	9.28	9.24	603	607	53.6	55.4	426	274305	187	52.1	1487	1508	2.24	1.80	1.72	4.70	9.40	8.70
615	1426	3253.7	3.80	4.29	4.62	90	43.9	2770	3249.1	9.28	9.23	605	603	53.6	55.5	431	274734	188	52.2	1104	1507	2.24	1.78	1.70	4.70	9.41	8.70
616	1434	3254.0	2.28	4.23	4.54	89	43.9	2760	3249.5	9.28	9.24	606	600	53.6	55.8	436	275444	188	52.4	1878	1508	2.25	1.93	1.85	4.70	9.41	8.70
617	1440	3254.4	3.05	4.32	4.81	90	44.2	2760	3249.8	9.29	9.26	606	592	53.7	56.1	438	275989	188	52.5	1672	1509	2.25	1.85	1.77	4.70	9.41	8.70
618	1444	3254.7	4.51	4.54	4.87	90	44.5	2730	3249.9	9.28	9.27	605	616	53.8	56.1	441	276353	189	52.5	1160	1508	2.25	1.74	1.66	4.70	9.40	8.70
619	1500	3255.0	2.76	4.12	4.94	89	41.3	2800	3250.4	9.26	9.30	609	612	53.5	55.0	454	276983	189	52.6	1760	1509	2.26	1.84	1.76	4.70	9.40	8.70
620	1505	3255.3	3.77	4.53	4.98	89	42.6	2800	3250.6	9.25	9.31	610	614	53.4	55.7	454	277415	189	52.7	1435	1508	2.26	1.77	1.69	4.70	9.40	8.70
621	1509	3255.6	4.30	4.57	5.04	88	42.6	2790	3250.8	9.27	9.32	610	644	53.3	56.3	454	277788	190	52.8	1202	1508	2.27	1.73	1.65	4.70	9.40	8.70
622	1515	3255.9	3.53	4.61	4.89	88	43.1	2790	3251.0	9.27	9.31	610	609	53.4	56.3	457	278240	190	52.9	1598	1508	2.27	1.79	1.71	4.70	9.40	8.70
623	1518	3256.2	5.65	4.53	4.81	87	43.4	2770	3251.3	9.27	9.31	610	610	53.4	56.3	457	278524	190	52.9	922	1507	2.27	1.66	1.58	4.70	9.40	8.70
624	1524	3256.5	3.08	4.28	4.75	87	43.8	2790	3251.7	9.27	9.30	611	600	53.6	56.1	461	279039	190	53.0	1954	1507	2.27	1.84	1.76	4.71	9.39	8.70
625	1535	3256.8	1.77	4.04	4.51	87	43.3	2770	3252.2	9.29	9.31	606	606	53.8	55.6	467	279992	191	53.2	2479	1509	2.28	1.99	1.92	4.71	9.39	8.70
626	1540	3257.1	3.24	4.09	4.45	87	42.9	2760	3252.5	9.27	9.30	608	603	53.9	55.7	468	280454	191	53.3	1500	1509	2.28	1.81	1.73	4.71	9.39	8.70
627	1544	3257.4	4.46	4.19	4.58	86	43.2	2770	3252.6	9.24	9.28	608	595	54.0	55.3	471	280808	191	53.4	1188	1509	2.29	1.72	1.64	4.71	9.39	8.70
628	1546	3257.7	7.98	4.30	4.68	87	43.3	2760	3252.7	9.24	9.28	607	615	54.0	55.3	473	281005	192	53.4	600	1507	2.29	1.55	1.47	4.71	9.39	8.70
629	1548	3258.0	11.2	4.40	4.77	87	44.0	2770	3252.7	9.26	9.29	608	590	54.0	55.3	472	281146	192	53.4	448	1505	2.29	1.46	1.38	4.71	9.39	8.70
630	1555	3258.3	2.53	4.29	4.55	87	43.8	2780	3253.0	9.31	9.27	610	588	54.0	55.9	478	281800	192	53.6	1695	1506	2.29	1.90	1.82	4.71	9.39	8.70
631	1558	3258.6	7.00	4.27	4.68	88	43.6	2770	3253.2	9.27	9.24	608	600	54.0	55.6	478	282021	193	53.6	698	1505	2.30	1.60	1.52	4.71	9.38	8.70
632	1605	3258.9	2.39	4.11	4.45	88	44.0	2790	3253.6	9.28	9.26	609	568	54.2	54.2	479	282685	193	53.7	1570	1506	2.30	1.92	1.84	4.71	9.38	8.70
633	1610	3259.2	3.81	4.09	4.65	88	43.1	2780	3253.8	9.26	9.27	609	602	54.1	54.8	478	283107	193	53.8	1324	1506	2.30	1.77	1.69	4.71	9.38	8.70
634	1617	3259.5	2.63	4.19	4.66	87	43.7	2780	3254.1	9.31	9.25	609	545	54.1	54.2	481	283728	194	53.9	2109	1506	2.31	1.89	1.81	4.71	9.38	8.70
635	1620	3259.8	5.83	4.24	4.77	88	43.6	2790	3254.3	9.34	9.24	610	548	54.1	54.6	480	284001	194	54.0	963	1506	2.31	1.65	1.57	4.71	9.38	8.70
636	1627	3260.1	2.73	4.25	4.73	88	44.0	2800	3254.7	9.32	9.22	611	572	54.0	54.2	484	284579	194	54.1	1491	1506	2.31	1.88	1.80	4.72	9.38	8.70
637	1634	3260.4	2.45	4.18	4.61	89	43.9	2810	3254.8	9.31	9.21	611	586	54.1	53.7	482	285238	194	54.2	2120	1506	2.32	1.91	1.83	4.72	9.38	8.70
638	1641	3260.8	2.61	4.24	4.61	88	44.6	2800	3255.2	9.32	9.21	611	587	54.2	54.6	480	285856	195	54.3	1753	1507	2.32	1.90	1.82	4.72	9.39	8.70
639	1648	3261.1	2.69	4.16	4.55	88	44.1	2780	3255.7	9.36	9.20	609	559	54.3	54.5	476	286451	195	54.4	2227	1508	2.33	1.89	1.80	4.72	9.39	8.70
640	1657	3261.4	1.97	4.16	4.59	87	44.1	2780	3256.3	9.46	9.21	609	535	54.4	54.7	478	287254	195	54.6	2331	1509	2.33	1.97	1.89	4.72	9.39	8.70
641	1708	3261.7	1.96	4.10	4.54	87	44.6	2770	3256.7	9.51	9.22	610	542	54.5	54.9	474	288139	196	54.8	3301	1511	2.34	1.98	1.90	4.72	9.39	8.70
642	1719	3262.0	1.47	4.19	4.75	87	44.2	2770	3257.2	9.49	9.22	609	573	54.6	55.2	474	289122	196	54.9	3745	1514	2.35	2.05	1.97	4.72	9.42	8.70
643	1726	3262.3	2.44	4.11	4.45	87	44.5	2770	3258.1	9.49	9.23	609	560	54.7	55.2	472	289771	196	55.1	2199	1514	2.35	1.91	1.82	4.72	9.44	8.70
644	1736	3262.6	1.81	4.20	4.53	88	44.5	2780	3258.7	9.49	9.25	612	597	54.7	55.5	470	290662	197	55.2	2724	1516	2.36	1.99	1.91	4.72	9.45	8.70
645	1744	3262.9	2.68	4.27	4.72	88	43.7	2770	3259.0	9.41	9.24	610	580	54.8	54.9	474	291308	197	55.4	1972	1517	2.36	1.86	1.78	4.72	9.47	8.70
646	1749	3263.2	3.51	4.26	4.63	88	43.3	2770	3259.3	9.57	9.26	610	583	54.7	55.2	474	291762	197	55.4	1440	1517	2.37	1.78	1.70	4.72	9.49	8.70
647	1757	3263.5	2.33	4.44	4.80	88	43.2	2770	3259.7	9.67	9.26	609	562	54.7	55.5	474	292447	197	55.6	2313	1518	2.37	1.89	1.81	4.72	9.50	8.70
648	1802	3263.8	3.29	4.38	4.93	88	43.1	2770	3260.0	9.69	9.27	609	573	54.5	55.1	475	292902	198	55.7	1510	1518	2.37	1.79	1.71	4.73	9.50	8.70
649	1812	3264.1	2.81	3.73	4.72	88	40.6	2840	3260.4	9.67	9.31	582	475	54.3	55.2	485	293217	198	55.7	2144	1518	2.38	1.82	1.74	4.73	9.52	8.70
650	1814	3264.4	3.14	3.16	3.85	89	42.6	2820	3260.5	9.67	9.31	613	588	54.3	55.2	480	293420	198	55.8	1724	1516	2.38	1.79	1.71	4.73	9.54	8.70

329239

Data Recorded at time 18:22 Date Oct 14 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NK	NKB	ECD	EST FM PR
651	1822	3264.7	2.27	3.58	4.10	88	42.2	2810	3260.9	9.67	9.31	613	616	54.0	55.1	471	294124	199	55.9	3617	1517	2.38	1.87	1.79	4.73	9.57	8.70
652	1827	3265.0	3.74	3.54	4.12	88	42.7	2820	3261.0	9.66	9.31	614	625	53.8	55.2	468	294575	199	56.0	1560	1516	2.39	1.73	1.65	4.73	9.59	8.70
653	1833	3265.3	2.98	3.72	4.14	88	43.3	2810	3261.3	9.64	9.27	613	606	53.8	55.4	468	295109	199	56.1	3311	1517	2.39	1.80	1.72	4.73	9.62	8.70
654	1839	3265.6	3.02	3.54	4.08	88	42.7	2830	3261.5	9.65	9.27	614	645	53.9	55.0	464	295613	200	56.2	1620	1517	2.39	1.79	1.70	4.73	9.63	8.70
655	1846	3265.9	2.44	3.47	4.05	88	43.3	2830	3261.7	9.64	9.28	614	634	54.0	55.0	462	296269	200	56.3	2195	1517	2.40	1.85	1.77	4.73	9.65	8.70
656	1852	3266.2	3.55	3.54	4.08	87	43.3	2750	3261.9	9.64	9.27	608	617	54.1	55.2	458	296736	200	56.4	1687	1517	2.40	1.74	1.66	4.73	9.67	8.70
657	1900	3266.5	2.17	3.83	4.63	87	43.6	2750	3262.1	9.61	9.27	605	620	54.3	54.6	459	297434	201	56.5	1838	1518	2.41	1.88	1.80	4.73	9.69	8.70
658	1905	3266.8	3.40	4.39	4.66	87	43.1	2820	3262.2	9.61	9.27	613	626	54.3	54.6	458	297901	201	56.6	1300	1518	2.41	1.74	1.66	4.73	9.69	8.70
659	1910	3267.2	3.66	4.39	4.70	87	43.0	2820	3262.4	9.61	9.25	613	630	54.4	55.5	455	298345	201	56.7	1501	1518	2.41	1.72	1.64	4.73	9.70	8.70
660	1919	3267.5	2.07	4.29	4.65	87	44.4	2820	3262.7	9.60	9.26	613	644	54.5	55.4	454	299093	201	56.8	2214	1519	2.42	1.90	1.82	4.74	9.70	8.70
661	1923	3267.8	4.62	4.11	4.50	87	42.6	2810	3262.9	9.59	9.26	612	597	54.5	55.1	450	299437	202	56.9	1078	1519	2.42	1.65	1.57	4.74	9.71	8.70
662	1927	3268.1	4.39	4.20	4.47	87	44.1	2820	3263.1	9.63	9.28	613	596	54.6	55.2	453	299800	202	57.0	1090	1518	2.42	1.68	1.60	4.74	9.71	8.70
663	1934	3268.4	2.69	4.21	4.56	87	43.8	2810	3263.4	9.63	9.31	612	581	54.5	55.1	450	300397	202	57.1	2471	1519	2.43	1.81	1.73	4.74	9.72	8.70
664	1941	3268.7	2.44	4.18	4.50	87	43.9	2820	3263.7	9.59	9.33	615	615	54.2	55.2	451	301045	203	57.2	1860	1519	2.43	1.84	1.76	4.74	9.74	8.70
665	1951	3269.0	1.88	4.12	4.45	88	43.1	2820	3264.3	9.60	9.33	614	606	54.0	55.3	451	301896	203	57.4	2079	1521	2.44	1.90	1.82	4.74	9.74	8.70
666	2000	3269.3	1.95	4.07	4.41	88	43.9	2820	3264.8	9.47	9.31	614	619	53.9	55.5	451	302717	203	57.5	2533	1523	2.44	1.91	1.82	4.74	9.73	8.70
667	2005	3269.6	3.57	4.10	4.37	88	43.7	2810	3265.1	9.47	9.30	612	601	53.9	55.7	447	303164	204	57.6	1478	1522	2.45	1.73	1.65	4.74	9.73	8.70
668	2013	3269.9	2.25	4.14	4.45	87	44.3	2810	3265.5	9.47	9.29	613	614	54.0	55.0	443	303867	204	57.7	2182	1523	2.45	1.87	1.79	4.74	9.72	8.70
669	2022	3270.2	2.20	4.11	4.45	87	44.3	2820	3265.9	9.44	9.30	613	626	53.9	55.4	444	304590	204	57.9	2241	1525	2.46	1.88	1.80	4.74	9.70	8.70
670	2030	3270.5	2.38	4.07	4.46	87	44.4	2810	3266.2	9.47	9.30	612	607	53.8	54.6	441	305313	204	58.0	2392	1526	2.46	1.86	1.78	4.74	9.69	8.70
671	2037	3270.8	2.27	4.05	4.44	87	45.0	2810	3266.5	9.47	9.30	612	576	53.7	55.0	439	305954	205	58.1	2038	1526	2.47	1.89	1.80	4.74	9.68	8.70
672	2044	3271.1	3.17	4.07	4.47	87	44.1	2820	3266.9	9.48	9.30	613	569	53.7	54.5	439	306491	205	58.2	2048	1527	2.47	1.78	1.70	4.75	9.66	8.70
673	2052	3271.4	2.00	4.00	4.38	87	44.3	2820	3267.3	9.49	9.30	614	618	53.7	54.6	436	307206	205	58.4	2105	1528	2.48	1.92	1.83	4.75	9.65	8.70
674	2059	3271.7	2.51	4.09	4.34	87	44.8	2830	3267.7	9.48	9.30	614	621	53.7	54.9	433	307838	206	58.5	2271	1528	2.48	1.86	1.78	4.75	9.64	8.70
675	2110	3272.0	1.61	4.13	4.55	88	44.4	2820	3268.2	9.59	9.27	614	562	53.8	55.2	438	308765	206	58.7	3251	1530	2.49	1.99	1.90	4.75	9.63	8.70
676	2119	3272.4	2.15	4.18	4.59	87	43.1	2830	3268.6	9.62	9.32	613	641	53.8	54.0	441	309552	206	58.8	2326	1532	2.49	1.89	1.80	4.75	9.62	8.70
677	2128	3272.6	1.70	4.24	4.67	87	44.2	2820	3269.0	9.56	9.29	613	624	53.6	54.8	436	310341	207	59.0	2999	1533	2.50	1.97	1.89	4.75	9.61	8.70
678	2133	3272.9	3.24	4.27	4.69	87	43.9	2810	3269.2	9.55	9.31	613	597	53.6	54.3	427	310833	207	59.1	1436	1533	2.50	1.78	1.70	4.75	9.61	8.70
679	2143	3273.3	2.00	4.08	4.44	87	43.6	2830	3269.6	9.54	9.33	614	647	53.5	54.7	424	311662	207	59.2	2063	1535	2.51	1.92	1.83	4.75	9.61	8.70
680	2150	3273.6	2.55	2.92	4.40	87	38.6	2770	3269.8	9.53	9.33	598	566	53.5	54.7	436	311748	208	59.2	2451	1533	2.51	1.84	1.74	4.75	9.60	8.70
681	2156	3273.9	2.67	3.19	4.04	88	43.2	2800	3270.0	9.51	9.36	610	625	53.8	55.5	419	312231	208	59.3	2545	1533	2.51	1.83	1.75	4.75	9.61	8.70
682	2205	3274.2	2.10	3.51	4.15	87	42.9	2790	3270.3	9.21	9.33	610	636	53.7	55.2	382	313048	208	59.5	3260	1534	2.52	1.89	1.81	4.75	9.61	8.70
683	2212	3274.5	2.39	3.66	4.20	87	44.0	2780	3270.6	9.36	9.34	609	675	53.9	55.4	375	313658	208	59.6	2073	1535	2.52	1.87	1.78	4.75	9.62	8.70
684	2221	3274.8	2.06	3.52	4.29	86	43.8	2780	3271.1	9.36	9.40	609	648	54.1	55.0	374	314425	209	59.8	2720	1536	2.53	1.91	1.82	4.76	9.62	8.70
685	2228	3275.1	2.61	3.22	3.90	87	43.9	2790	3271.3	9.37	9.31	609	644	54.2	55.5	373	315077	209	59.9	2104	1537	2.53	1.85	1.76	4.76	9.60	8.70
686	2234	3275.4	3.04	3.30	4.50	87	43.6	2790	3271.6	9.37	9.29	609	650	54.3	55.6	370	315595	209	60.0	1727	1537	2.54	1.80	1.71	4.76	9.59	8.70
687	2238	3275.7	4.58	3.46	5.09	87	44.0	2800	3271.7	9.37	9.31	609	634	54.4	55.4	370	315905	210	60.0	1254	1536	2.54	1.69	1.60	4.76	9.59	8.70
688	2244	3276.0	2.84	3.58	4.10	87	44.1	2800	3271.9	9.38	9.29	610	655	54.5	55.3	370	316463	210	60.1	2164	1537	2.54	1.83	1.74	4.76	9.58	8.70
689	2251	3276.3	2.59	3.54	4.10	87	43.8	2800	3272.1	9.34	9.34	608	645	54.5	55.6	366	317074	210	60.3	2097	1537	2.55	1.85	1.77	4.76	9.57	8.70
690	2258	3276.6	2.26	3.58	4.05	87	43.5	2780	3272.4	9.34	9.33	608	631	54.5	55.3	367	317670	211	60.4	1965	1538	2.55	1.89	1.80	4.76	9.57	8.70
691	2309	3276.9	1.76	3.53	4.22	86	43.0	2790	3272.7	9.34	9.35	608	646	54.6	55.3	365	318566	211	60.5	3624	1539	2.56	1.95	1.87	4.76	9.56	8.70
692	2317	3277.2	2.40	3.41	4.02	87	44.5	2800	3273.0	9.33	9.31	609	671	54.7	55.7	360	319259	211	60.7	2164	1540	2.56	1.89	1.80	4.76	9.54	8.70
693	2325	3277.5	2.01	3.41	4.02	87	44.3	2800	3273.3	9.31	9.30	610	640	54.7	55.9	356	320013	212	60.8	2848	1542	2.57	1.94	1.85	4.76	9.52	8.70
694	2334	3277.8	2.16	2.96	3.86	87	44.2	2790	3273.9	9.30	9.28	610	622	54.7	55.6	352	320774	212	61.0	2549	1543	2.57	1.93	1.84	4.76	9.49	8.70
695	2342	3278.1	2.38	3.19	3.89	88	43.2	2800	3274.1	9.29	9.29	611	649	54.9	55.9	349	321439	212	61.1	2081	1544	2.58	1.89	1.80	4.76	9.47	8.70
696	2350	3278.4	2.05	3.27	4.00	87	44.9	2800	3274.5	9.28	9.27	610	647	54.9	55.7	351	322192	212	61.2	2043	1545	2.58	1.96	1.87	4.77	9.45	8.70
697	2358	3278.7	2.38	3.25	3.97	87	44.2	2800	3274.7	9.26	9.30	610	631	54.9	55.8	346	322862	213	61.4	1966	1545	2.59	1.91	1.82	4.77	9.44	8.70
	Date	Oct 15 '85																									
698	0008	3279.0	1.73	3.17	4.03	88	44.7	2800	3275.2	9.28	9.31	610	641	55.1	56.5	347	323783	213	61.5	2763	1547	2.59	2.01	1.92	4.77	9.43	8.70
699	0020	3279.3	1.58	3.36	4.40	88	44.8	2820	3275.9	9.29	9.34	611	636	54.8	57.4	348	324794	213	61.7	3213	1550	2.60	2.04	1.95	4.77	9.42	8.70

EXLOG

AMOCO AUST. Tilana No.1 329240

Data Printed at time 07:42 Date Oct 16 '85
Data Recorded at time 00:31 Date Oct 15 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
700	0031	3279.6	1.74	4.14	4.41	88	46.1	2820	3276.3	9.26	9.34	610	641	54.2	56.6	340	325714	214	61.9	2707	1552	2.61	2.04	1.94	4.77	9.41	8.70
701	0041	3280.0	1.76	4.19	4.49	87	45.6	2810	3276.7	9.28	9.36	610	652	54.3	55.7	335	326631	214	62.1	3342	1554	2.61	2.03	1.93	4.77	9.40	8.70
702	0052	3280.3	1.64	4.11	4.56	88	45.6	2810	3277.1	9.26	9.36	611	653	54.3	55.6	332	327600	214	62.3	3450	1555	2.62	2.05	1.96	4.77	9.39	8.70
703	0104	3280.6	1.47	4.12	4.58	87	45.0	2820	3277.5	9.26	9.35	610	650	54.2	55.8	325	328684	215	62.5	3006	1558	2.63	2.07	1.98	4.77	9.39	8.70
704	0117	3280.9	1.49	4.08	4.53	88	45.5	2810	3277.9	9.30	9.38	610	645	54.1	55.3	319	329761	215	62.7	3442	1561	2.64	2.08	1.99	4.77	9.38	8.70
705	0128	3281.2	1.70	4.11	4.55	87	45.2	2800	3278.4	9.28	9.41	610	636	53.9	55.1	312	330782	215	62.9	2831	1563	2.64	2.04	1.94	4.77	9.37	8.70
706	0138	3281.5	1.95	4.05	4.51	87	45.4	2800	3278.8	9.31	9.40	609	653	53.4	54.4	315	331593	215	63.0	2971	1564	2.65	2.00	1.90	4.77	9.37	8.70
707	0149	3281.8	1.59	4.05	4.54	88	45.0	2820	3279.1	9.29	9.39	610	662	52.0	54.3	321	332591	216	63.2	3123	1566	2.66	2.06	1.96	4.77	9.37	8.70
708	0153	3282.1	4.18	4.35	4.77	88	45.8	2830	3279.2	9.29	9.39	611	659	51.7	54.6	326	332971	216	63.3	1277	1566	2.66	1.78	1.68	4.78	9.38	8.70
709	0159	3282.4	3.35	4.32	4.76	87	45.0	2830	3279.4	9.29	9.40	610	659	51.4	54.5	341	333444	216	63.4	1296	1566	2.66	1.83	1.74	4.78	9.38	8.70
710	0213	3282.7	4.50	3.71	4.74	88	46.7	2600	3279.7	9.32	9.37	547	508	49.1	54.0	378	333836	217	63.4	1276	1565	2.66	1.77	1.67	4.78	9.37	8.70
711	0219	3283.0	2.58	3.84	4.60	90	45.2	2790	3279.8	9.32	9.38	604	647	48.3	52.5	358	334364	217	63.5	2184	1565	2.67	1.92	1.82	4.78	9.38	8.70
712	0226	3283.3	2.84	4.29	4.67	89	44.9	2790	3280.0	9.34	9.39	605	656	48.7	53.1	353	334972	217	63.7	1857	1566	2.67	1.89	1.79	4.78	9.38	8.70
713	0233	3283.6	2.55	4.34	4.83	88	45.8	2770	3280.2	9.36	9.39	604	667	49.4	53.0	356	335602	218	63.8	2531	1567	2.68	1.93	1.83	4.78	9.38	8.70
714	0248	3284.8	3.15	4.48	4.94	89	45.8	2770	3284.5	9.39	9.38	605	655	48.6	52.4	391	336619	219	64.0	2162	1563	2.69	1.85	1.76	4.78	9.45	8.70
715	0253	3285.1	3.43	4.59	4.97	89	46.6	2780	3284.5	9.34	9.40	605	663	48.1	53.0	400	337089	219	64.1	1553	1563	2.70	1.84	1.74	4.78	9.45	8.70
716	0303	3285.7	6.12	4.52	4.94	89	45.2	2780	3285.5	9.35	9.41	605	660	48.3	52.6	403	337750	220	64.2	916	1562	2.71	1.65	1.55	4.78	9.45	8.70
717	0307	3286.0	4.23	4.61	4.99	89	45.3	2760	3285.5	9.37	9.41	605	654	48.8	52.4	403	338129	220	64.3	1631	1561	2.71	1.76	1.66	4.78	9.44	8.70
718	0313	3286.4	3.41	4.62	4.95	89	45.5	2770	3285.5	9.35	9.41	606	647	49.0	52.2	407	338603	220	64.4	1495	1561	2.72	1.83	1.73	4.79	9.44	8.70
719	0317	3286.7	4.22	4.67	5.08	88	46.8	2750	3285.5	9.36	9.41	605	666	49.3	52.3	407	338984	221	64.5	1230	1561	2.72	1.78	1.68	4.78	9.44	8.70
720	0321	3287.0	5.30	4.53	5.09	89	45.9	2740	3285.5	9.35	9.40	603	705	49.5	52.5	409	339310	221	64.5	988	1560	2.72	1.70	1.60	4.79	9.44	8.70
721	0326	3287.3	3.21	4.56	5.07	87	46.3	2740	3285.5	9.37	9.40	604	665	49.8	52.2	413	339754	221	64.6	9297	1560	2.73	1.85	1.75	4.79	9.44	8.70
722	0329	3287.6	5.23	4.68	4.98	89	45.8	2770	3285.5	9.35	9.40	605	675	49.9	52.3	411	340061	222	64.7	1728	1559	2.73	1.70	1.61	4.79	9.44	8.70
723	0338	3287.9	2.10	4.38	4.90	89	44.7	2760	3285.5	9.37	9.41	605	630	49.9	52.4	420	340826	222	64.8	3069	1560	2.73	1.96	1.86	4.79	9.44	8.70
724	0344	3288.2	2.66	4.45	5.23	89	45.1	2760	3285.5	9.38	9.39	605	646	50.0	52.0	418	341392	222	64.9	1930	1560	2.74	1.89	1.80	4.79	9.44	8.70
725	0353	3288.5	2.13	4.27	4.71	89	45.7	2760	3285.5	9.35	9.38	606	621	50.4	51.9	415	342154	222	65.1	2269	1561	2.74	1.97	1.87	4.79	9.45	8.70
726	0404	3288.8	1.59	4.29	4.75	88	45.9	2750	3285.5	9.35	9.34	604	579	51.0	51.5	414	343160	223	65.3	3459	1563	2.75	2.05	1.95	4.79	9.45	8.70
727	0414	3289.1	1.87	4.26	4.82	88	45.9	2770	3285.5	9.34	9.31	605	581	51.2	51.4	415	344070	223	65.4	2986	1565	2.76	2.01	1.91	4.79	9.45	8.70
728	0419	3289.4	3.72	4.33	4.71	88	46.5	2770	3285.5	9.33	9.34	605	587	51.3	51.3	413	344481	223	65.5	1274	1565	2.76	1.81	1.71	4.79	9.45	8.70
729	0421	3289.7	7.47	4.65	4.97	88	45.7	2770	3285.5	9.35	9.33	605	586	51.3	51.2	412	344696	224	65.6	691	1563	2.76	1.59	1.49	4.79	9.45	8.70
730	0427	3290.0	3.15	4.46	5.01	89	45.3	2770	3285.5	9.35	9.32	605	605	51.3	51.4	412	345228	224	65.7	6716	1564	2.76	1.84	1.74	4.80	9.45	8.70
731	0433	3290.3	3.40	4.60	4.99	89	45.4	2790	3285.5	9.33	9.34	607	610	51.1	51.7	410	345703	224	65.7	1620	1563	2.77	1.83	1.73	4.79	9.45	8.70
732	0434	3290.6	11.0	4.50	4.85	89	44.5	2790	3285.5	9.33	9.34	606	608	51.1	51.7	407	345850	225	65.8	566	1562	2.77	1.47	1.37	4.80	9.45	8.70
733	0439	3290.9	3.91	4.45	5.12	89	44.5	2780	3285.5	9.29	9.31	606	592	51.1	51.7	403	346260	225	65.8	1286	1562	2.77	1.77	1.67	4.80	9.45	8.70
734	0452	3291.2	1.41	4.33	4.71	88	45.7	2770	3286.4	9.27	9.32	607	585	51.3	51.4	403	347402	225	66.1	6349	1564	2.78	2.09	1.99	4.80	9.44	8.70
735	0503	3291.5	1.61	4.26	4.73	88	45.6	2780	3287.2	9.30	9.34	605	617	51.1	51.7	404	348402	225	66.2	4138	1567	2.79	2.05	1.95	4.80	9.43	8.70
736	0510	3291.8	2.46	4.22	4.68	88	46.9	2770	3287.6	9.23	9.33	605	620	51.0	52.0	399	348986	226	66.4	1963	1567	2.79	1.94	1.84	4.80	9.43	8.70
737	0517	3292.1	2.57	4.08	4.87	87	46.9	2770	3287.9	9.22	9.35	605	596	51.1	52.0	397	349605	226	66.5	2474	1567	2.79	1.93	1.82	4.80	9.43	8.70
738	0526	3292.4	2.06	4.27	4.76	87	45.2	2770	3288.2	9.23	9.38	605	628	51.3	52.5	399	350367	226	66.6	2173	1568	2.80	1.97	1.87	4.80	9.42	8.70
739	0536	3292.8	2.14	2.74	4.66	85	44.4	2630	3288.4	9.22	9.37	587	597	51.4	52.6	404	350449	227	66.6	2014	1567	2.80	1.95	1.85	4.80	9.41	8.70
740	0543	3293.1	2.68	4.02	4.85	89	43.1	2780	3288.6	9.20	9.38	605	633	51.5	52.8	399	351031	227	66.7	1822	1567	2.80	1.87	1.77	4.80	9.40	8.70
741	0548	3293.4	3.67	4.89	5.47	90	42.6	2770	3288.7	9.23	9.39	604	622	51.6	52.7	393	351478	227	66.8	1458	1566	2.81	1.78	1.68	4.80	9.40	8.70
742	0552	3293.7	4.57	4.54	5.06	89	43.8	2770	3288.9	9.25	9.41	605	639	51.6	53.1	388	351838	228	66.9	1391	1566	2.81	1.73	1.63	4.81	9.39	8.70
743	0601	3294.0	1.90	4.56	5.09	91	43.0	2790	3289.3	9.27	9.41	606	643	51.9	53.5	388	352701	228	67.1	2605	1567	2.82	1.98	1.88	4.80	9.38	8.70
744	0606	3294.3	4.75	4.78	5.16	91	43.0	2780	3289.7	9.28	9.41	606	641	52.1	53.0	384	353083	228	67.1	1303	1567	2.82	1.72	1.62	4.81	9.37	8.70
745	0609	3294.6	5.64	4.79	5.07	92	42.8	2780	3289.9	9.28	9.41	605	632	52.2	52.8	381	353378	229	67.2	1147	1566	2.82	1.67	1.57	4.81	9.37	8.70
746	0614	3294.9	3.43	4.79	5.30	92	43.3	2780	3290.1	9.26	9.40	606	652	52.3	53.1	378	353816	229	67.3	2209	1566	2.82	1.82	1.72	4.81	9.37	8.70
747	0619	3295.2	3.16	4.51	5.03	89	42.7	2780	3290.7	9.25	9.40	605	637	52.4	53.0	376	354326	229	67.3	1649	1566	2.83	1.83	1.73	4.81	9.36	8.70
748	0624	3295.5	3.72	4.49	4.85	87	41.6	2760	3291.0	9.28	9.42	604	632	52.5	53.2	375	354721	229	67.4	1158	1565	2.83	1.76	1.66	4.81	9.36	8.70
749	0629	3295.8	3.51	4.52	4.87	87	42.9	2750	3291.1	9.30	9.38	602	623	52.4	53.4	376	355174	230	67.5	1281	1565	2.83	1.80	1.70	4.81	9.35	8.70

AMOCO AUST. Tilana No.1 329241

Data Printed at time 07:46 Date Oct 16 85
Data Recorded at time 06:34 Date Oct 15 85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NX	NXB	ECD	EST FM PR
750	0634	3296.1	4.00	4.58	4.90	87	42.0	2770	3291.1	9.28	9.38	604	646	52.4	53.1	373	355572	230	67.6	1065	1564	2.84	1.75	1.65	4.81	9.35	8.70
751	0641	3296.4	2.67	4.66	5.03	90	42.6	2760	3291.4	9.18	9.37	604	636	52.3	53.0	376	356224	230	67.7	1329	1565	2.84	1.88	1.78	4.81	9.35	8.70
752	0645	3296.8	4.69	4.55	4.96	90	41.6	2780	3291.4	9.19	9.39	606	643	52.3	53.1	375	356605	231	67.8	1198	1564	2.84	1.70	1.60	4.81	9.35	8.70
753	0650	3297.0	3.63	4.81	5.12	90	42.2	2780	3291.7	9.22	9.38	606	634	52.2	52.7	371	357013	231	67.9	1469	1564	2.85	1.79	1.69	4.81	9.35	8.70
754	0658	3297.3	1.88	4.40	5.10	91	41.8	2780	3292.0	9.22	9.36	606	613	52.2	52.4	372	357802	231	68.0	5538	1565	2.85	1.98	1.88	4.82	9.34	8.70
755	0704	3297.6	3.24	4.29	4.88	90	41.8	2780	3292.3	9.23	9.37	606	623	52.1	52.8	371	358309	232	68.1	1602	1565	2.85	1.82	1.72	4.81	9.34	8.70
756	0707	3297.9	6.60	4.54	4.93	90	44.2	2790	3292.3	9.24	9.37	606	620	52.0	52.7	366	358534	232	68.1	751	1564	2.86	1.64	1.53	4.82	9.34	8.70
757	0713	3298.3	2.68	4.39	4.77	90	42.4	2770	3292.5	9.22	9.37	605	617	52.0	52.5	369	359146	232	68.2	1014	1564	2.86	1.88	1.78	4.82	9.34	8.70
758	0722	3298.6	2.18	4.40	4.89	90	42.7	2780	3293.0	9.16	9.33	604	613	52.0	52.5	368	359898	233	68.4	3295	1565	2.87	1.95	1.84	4.82	9.34	8.70
759	0726	3298.9	4.13	4.12	4.75	87	42.8	2780	3293.3	9.21	9.35	603	622	51.9	52.6	368	360284	233	68.5	1268	1565	2.87	1.75	1.65	4.82	9.34	8.70
760	0733	3299.2	2.53	4.23	4.80	87	42.5	2790	3293.7	9.13	9.34	604	642	51.9	52.9	368	360909	233	68.6	2008	1565	2.87	1.89	1.79	4.82	9.33	8.70
761	0735	3299.5	8.14	4.34	4.73	87	42.8	2780	3293.8	9.12	9.32	604	602	51.9	52.9	365	361102	233	68.6	823	1564	2.87	1.55	1.45	4.82	9.33	8.70
762	0742	3299.8	2.88	4.40	4.79	87	41.5	2770	3294.1	9.13	9.34	603	594	51.9	52.8	366	361646	234	68.7	1233	1564	2.83	1.84	1.74	4.82	9.33	8.70
763	0747	3300.1	3.52	4.43	4.87	87	42.0	2770	3294.5	9.14	9.36	603	602	52.1	52.7	364	362088	234	68.8	1432	1564	2.88	1.79	1.69	4.82	9.32	8.70
764	0751	3300.4	4.64	4.41	4.91	87	42.4	2770	3294.8	9.11	9.36	603	604	52.1	52.9	364	362432	234	68.9	1281	1564	2.88	1.71	1.61	4.82	9.32	8.70
765	0756	3300.7	3.32	4.45	4.97	88	42.8	2790	3295.0	9.16	9.36	604	622	52.2	53.0	359	362907	235	69.0	1302	1563	2.89	1.82	1.72	4.82	9.31	8.70
766	0800	3301.0	4.87	4.78	5.07	90	42.4	2790	3295.2	9.11	9.35	605	632	52.2	53.1	360	363241	235	69.0	898	1562	2.89	1.71	1.61	4.83	9.31	8.70
767	0805	3301.3	3.29	4.62	5.01	89	42.6	2800	3295.6	9.13	9.35	606	634	52.4	53.4	357	363735	235	69.1	1425	1562	2.89	1.83	1.72	4.82	9.30	8.70
768	0812	3301.6	2.92	4.66	4.91	89	42.3	2790	3296.0	9.14	9.35	606	618	52.4	53.5	356	364289	236	69.2	1615	1562	2.90	1.86	1.76	4.83	9.29	8.70
769	0816	3301.9	4.54	4.43	4.81	88	41.7	2790	3296.2	9.15	9.37	606	639	52.4	53.7	355	364677	236	69.3	1353	1562	2.90	1.72	1.62	4.83	9.29	8.70
770	0819	3302.2	4.93	4.67	5.06	89	42.6	2790	3296.3	9.16	9.37	607	637	52.4	53.7	353	364976	236	69.3	963	1561	2.90	1.71	1.61	4.83	9.28	8.70
771	0830	3302.5	7.98	3.49	5.03	86	44.2	2740	3296.8	9.18	9.34	595	636	52.3	53.2	361	365241	237	69.4	1075	1560	2.90	1.58	1.47	4.83	9.27	8.70
772	0833	3302.8	5.65	3.81	5.14	86	45.4	2770	3296.9	9.07	9.32	602	646	52.2	52.8	350	365517	237	69.4	1743	1560	2.90	1.70	1.59	4.83	9.27	8.70
773	0838	3303.1	3.38	3.60	4.42	88	45.1	2760	3297.2	9.10	9.30	604	675	52.1	53.6	346	365940	237	69.5	2739	1559	2.91	1.85	1.75	4.83	9.27	8.70
774	0844	3303.4	3.19	3.63	4.37	88	46.3	2760	3297.3	9.11	9.32	603	636	52.1	53.8	345	366399	237	69.6	1737	1559	2.91	1.89	1.78	4.83	9.27	8.70
775	0850	3303.7	2.95	3.54	4.51	87	47.6	2760	3297.8	9.15	9.32	602	640	52.2	54.2	343	366937	238	69.7	1772	1559	2.91	1.92	1.82	4.83	9.26	8.70
776	0855	3304.0	3.77	3.78	4.34	87	44.5	2760	3298.1	9.15	9.32	602	628	52.2	54.2	340	367360	238	69.8	1266	1559	2.92	1.81	1.71	4.83	9.26	8.70
777	0900	3304.4	3.47	3.64	4.46	87	44.5	2760	3298.4	9.14	9.33	602	660	52.5	53.7	340	367846	238	69.9	1924	1559	2.92	1.84	1.73	4.83	9.25	8.70
778	0905	3304.6	3.47	3.66	4.09	88	44.8	2770	3298.5	9.16	9.33	602	633	52.6	53.7	338	368236	239	70.0	1397	1558	2.92	1.85	1.74	4.84	9.25	8.70
779	0911	3304.9	2.74	3.86	4.49	87	44.8	2750	3298.9	9.14	9.34	601	653	52.7	53.4	338	368815	239	70.1	1740	1559	2.93	1.92	1.81	4.83	9.24	8.70
780	0916	3305.3	4.46	3.75	4.46	87	44.6	2770	3299.1	9.10	9.35	604	652	52.7	53.7	336	369189	239	70.1	1279	1558	2.93	1.77	1.66	4.84	9.24	8.70
781	0921	3305.6	3.24	3.76	4.07	88	45.0	2770	3299.6	9.13	9.35	603	649	52.7	53.9	334	369680	240	70.2	1940	1558	2.93	1.87	1.76	4.84	9.24	8.70
782	0926	3305.9	4.16	3.63	4.34	87	44.2	2760	3299.7	9.13	9.34	602	644	52.7	53.7	334	370062	240	70.3	1449	1558	2.94	1.79	1.68	4.84	9.24	8.70
783	0930	3306.2	4.09	3.81	4.59	87	45.9	2760	3300.1	9.15	9.34	603	641	52.8	53.7	332	370435	240	70.4	1133	1557	2.94	1.81	1.70	4.84	9.23	8.70
784	0937	3306.5	2.62	3.70	4.47	87	44.6	2780	3300.5	9.15	9.33	604	635	52.5	53.7	345	371057	240	70.5	1636	1558	2.94	1.93	1.82	4.84	9.24	8.70
785	0938	3306.8	13.3	3.70	4.41	85	45.7	2770	3300.6	9.15	9.33	603	645	52.5	53.7	342	371173	241	70.5	745	1556	2.94	1.44	1.34	4.84	9.24	8.70
786	0944	3307.1	3.27	3.53	4.47	87	45.7	2780	3300.9	9.15	9.32	603	647	51.2	53.7	354	371641	241	70.6	796	1556	2.95	1.88	1.77	4.84	9.24	8.70
787	0951	3307.4	2.49	3.74	4.52	86	45.1	2790	3301.4	9.15	9.36	604	661	50.4	53.3	361	372279	241	70.7	2098	1557	2.95	1.95	1.84	4.84	9.24	8.70
788	0956	3307.7	3.83	3.82	4.40	86	45.6	2790	3301.6	9.12	9.33	604	669	50.4	53.4	358	372638	242	70.8	1401	1556	2.95	1.82	1.71	4.84	9.24	8.70
789	1002	3308.0	2.86	3.37	4.27	88	45.0	2790	3302.1	9.13	9.35	604	671	50.5	53.4	369	373174	242	70.9	1741	1556	2.96	1.91	1.80	4.84	9.24	8.70
790	1010	3308.3	2.11	3.63	4.34	86	44.5	2780	3302.5	9.15	9.36	605	669	50.6	53.0	369	373929	242	71.1	2143	1557	2.96	1.99	1.88	4.85	9.24	8.70
791	1014	3308.6	5.22	3.74	4.48	85	44.5	2790	3302.9	9.16	9.36	604	660	50.7	52.9	369	374224	243	71.1	1089	1557	2.96	1.71	1.61	4.84	9.23	8.70
792	1018	3308.9	4.13	3.69	4.50	86	46.2	2770	3303.1	9.17	9.35	604	662	50.7	52.9	368	374568	243	71.2	1221	1556	2.97	1.81	1.70	4.85	9.24	8.70
793	1023	3309.2	3.26	3.66	4.61	87	44.3	2790	3303.4	9.18	9.32	606	639	50.7	53.1	374	375051	243	71.3	1358	1556	2.97	1.86	1.75	4.85	9.24	8.70
794	1028	3309.5	4.35	3.71	4.30	88	45.6	2780	3303.7	9.20	9.30	606	668	50.6	53.2	376	375417	244	71.3	1032	1555	2.97	1.79	1.68	4.85	9.24	8.70
795	1031	3309.8	6.36	3.74	4.58	87	44.8	2780	3303.7	9.20	9.30	606	655	50.6	53.2	378	375691	244	71.4	867	1555	2.97	1.67	1.56	4.85	9.24	8.70
796	1035	3310.1	4.08	3.68	4.57	88	43.8	2790	3304.0	9.23	9.33	607	676	50.4	53.1	381	376047	244	71.5	1217	1554	2.98	1.79	1.68	4.85	9.24	8.70
797	1038	3310.5	5.62	3.77	4.52	88	43.9	2790	3304.2	9.23	9.33	607	684	50.4	53.1	385	376356	244	71.5	1117	1553	2.98	1.69	1.59	4.85	9.24	8.70
798	1042	3310.8	4.28	4.03	4.82	89	43.5	2780	3304.5	9.22	9.34	607	665	50.4	53.1	387	376730	245	71.6	1478	1553	2.98	1.77	1.66	4.85	9.25	8.70
799	1048	3311.1	3.13	4.56	5.04	88	44.7	2780	3304.8	9.21	9.34	607	700	50.4	52.9	392	377244	245	71.7	1810	1553	2.98	1.83	1.77	4.85	9.25	8.70

EXLOG

AMOCO AUST. Tilana No.1

329242

Data Printed at time 07:22 Date Oct 28 '85
Data Recorded at time 10:53 Date Oct 15 '85

174

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
800	1053	3311.4	3.53	4.50	5.06	89	46.0	2770	3305.1	9.19	9.34	606	652	50.4	52.9	396	377699	245	71.8	1512	1553	2.99	1.86	1.75	4.86	9.26	8.70	
801	1104	3311.7	3.17	4.59	4.91	89	45.8	2820	3305.8	9.20	9.32	609	653	50.0	53.0	415	378053	246	71.8	1421	1552	2.99	1.89	1.78	4.85	9.26	8.70	
+ Pull out of hole at 3311.7m.																												
+ NB#17 SMITH F2 12.25" 3x14 jets. Ream tight hole on the trip in from 2300 - 2908m. Ream tight section and fill to bottom.																												
Drill ahead from 3311.7m.																												
Date Oct 17 '85																												
810	0803	3312.2	3.85	3.13	4.17	91	43.5	2900	3311.7	9.52	9.55	587	535	52.8	54.3	417	5436	.47	1.0	1359	10047	.05	1.74	1.74	4.86	9.62	8.70	
811	0808	3312.5	3.57	3.26	4.34	91	42.9	2910	3311.7	9.52	9.48	585	536	52.8	54.6	417	5898	.80	1.1	1380	9170	.05	1.75	1.75	4.86	9.62	8.70	
812	0818	3312.9	3.47	3.29	4.16	90	42.7	2900	3311.7	9.51	9.57	585	558	52.8	56.2	417	6795	1.14	1.2	1441	28772	.06	1.76	1.76	4.86	9.62	8.70	
813	0825	3313.2	4.38	3.29	4.11	90	43.2	2920	3311.7	9.49	9.47	586	553	52.9	56.9	416	7393	1.47	1.4	1201	19603	.07	1.70	1.70	4.86	9.62	8.70	
814	0829	3313.5	4.32	3.76	7.49	89	42.6	2890	3311.7	9.47	9.51	585	525	52.6	57.5	409	7765	1.78	1.4	1201	16416	.07	1.69	1.69	4.86	9.61	8.70	
815	0836	3313.8	2.42	4.38	7.58	92	44.5	2900	3311.7	9.48	9.69	586	533	52.9	58.1	407	8456	2.08	1.5	1998	14311	.08	1.89	1.89	4.86	9.61	8.70	
816	0851	3314.1	3.60	3.05	3.49	93	44.5	2810	3311.7	9.50	9.67	577	539	54.0	57.6	410	8759	2.39	1.6	1365	12625	.08	1.78	1.78	4.86	9.61	8.70	
817	0857	3314.4	3.46	3.25	4.19	91	44.2	2810	3311.7	9.51	9.64	577	468	54.4	57.0	407	9240	2.69	1.7	1268	11349	.09	1.78	1.78	4.86	9.60	8.70	
818	0902	3314.7	3.15	3.18	4.18	88	43.9	2810	3311.8	9.50	9.64	578	524	54.6	57.6	404	9757	2.98	1.8	1526	10411	.09	1.80	1.80	4.87	9.60	8.70	
819	0907	3315.0	3.65	3.20	3.54	90	43.3	2810	3311.8	9.52	9.65	578	492	54.8	57.7	402	10203	3.27	1.9	1418	9689	.09	1.75	1.75	4.86	9.60	8.70	
820	0914	3315.3	2.87	3.09	4.30	89	43.2	2810	3311.9	9.50	9.66	577	506	55.3	57.7	400	10767	3.61	2.0	1701	8933	.10	1.82	1.82	4.87	9.60	8.70	
821	0921	3315.6	2.65	3.26	4.09	87	44.1	2800	3312.0	9.52	9.66	576	525	55.9	58.2	401	11371	3.91	2.1	2092	8315	.11	1.85	1.85	4.87	9.60	8.70	
822	0925	3315.9	4.51	3.22	4.10	87	43.7	2810	3312.0	9.52	9.66	578	568	56.1	58.0	401	11736	4.22	2.2	1214	7798	.11	1.69	1.69	4.87	9.60	8.70	
823	0927	3316.2	6.47	3.27	4.13	90	45.3	2810	3312.0	9.52	9.66	578	524	56.1	58.1	398	11990	4.52	2.2	1017	7327	.11	1.61	1.61	4.87	9.60	8.70	
824	0933	3316.6	3.52	3.39	4.20	90	44.4	2800	3312.1	9.52	9.65	576	473	56.3	57.9	400	12494	4.82	2.3	2185	7006	.12	1.78	1.78	4.87	9.60	8.70	
825	0939	3316.9	2.97	3.21	4.26	91	44.0	2810	3312.1	9.51	9.66	578	524	56.5	58.0	401	13051	5.13	2.4	1476	6649	.12	1.83	1.82	4.87	9.60	8.70	
826	0944	3317.2	4.01	3.03	3.78	92	44.0	2810	3312.2	9.52	9.64	578	543	56.3	58.6	402	13463	5.43	2.5	1349	6348	.13	1.74	1.74	4.87	9.60	8.70	
827	0947	3317.4	4.59	3.20	4.36	90	45.2	2800	3312.2	9.51	9.67	577	587	56.8	58.2	401	13796	5.74	2.5	982	6060	.13	1.71	1.71	4.87	9.60	8.70	
828	0955	3317.8	2.54	3.23	4.27	90	45.3	2800	3312.3	9.51	9.65	576	515	57.1	58.6	407	14486	6.02	2.7	1473	5389	.13	1.88	1.88	4.87	9.60	8.70	
829	1000	3318.1	3.03	3.17	3.95	89	44.9	2790	3312.3	9.50	9.59	576	573	57.2	58.5	414	14936	6.35	2.7	1323	5642	.14	1.82	1.82	4.87	9.60	8.70	
830	1005	3318.4	3.89	3.08	3.94	88	43.7	2800	3312.4	9.50	9.55	576	535	57.2	58.5	411	15350	6.66	2.8	1140	5444	.14	1.73	1.73	4.88	9.60	8.70	
831	1010	3318.7	3.98	3.13	4.00	89	44.0	2790	3312.8	9.49	9.56	576	559	57.2	58.3	414	15778	6.96	2.9	1291	5264	.15	1.73	1.73	4.87	9.60	8.70	
832	1014	3319.0	3.76	3.17	3.70	90	45.9	2820	3313.1	9.50	9.54	577	518	57.1	58.6	416	16189	7.27	3.0	1123	5094	.15	1.77	1.77	4.88	9.60	8.70	
833	1021	3319.3	2.47	3.04	3.54	91	45.3	2820	3313.5	9.49	9.54	578	517	57.0	58.7	417	16859	7.57	3.1	1630	4971	.16	1.89	1.89	4.88	9.60	8.70	
834	1024	3319.6	6.37	3.12	3.59	90	44.9	2820	3313.6	9.48	9.51	577	485	56.9	58.8	411	17130	7.87	3.2	910	4813	.16	1.61	1.61	4.88	9.60	8.70	
835	1029	3319.9	3.39	3.22	3.60	90	45.6	2820	3313.8	9.50	9.51	577	527	56.9	58.9	414	17565	8.17	3.2	1118	4685	.16	1.80	1.80	4.88	9.60	8.70	
836	1035	3320.2	3.19	3.27	3.70	90	46.0	2840	3313.9	9.49	9.56	577	494	56.9	58.6	417	18078	8.47	3.3	1540	4578	.17	1.83	1.82	4.88	9.60	8.70	
837	1042	3320.5	2.58	3.22	3.77	90	45.2	2810	3314.4	9.48	9.52	576	544	56.9	58.9	414	18714	8.78	3.4	2044	4484	.17	1.88	1.87	4.88	9.60	8.70	
838	1047	3320.8	3.92	3.15	3.93	89	45.5	2810	3314.6	9.48	9.49	575	465	56.9	58.9	414	19115	9.09	3.5	1183	4368	.18	1.75	1.75	4.88	9.60	8.70	
839	1051	3321.1	3.68	3.04	3.55	88	44.8	2800	3314.8	9.46	9.49	576	483	57.1	58.7	412	19556	9.40	3.6	1283	4271	.18	1.76	1.76	4.88	9.60	8.70	
840	1102	3321.4	2.56	3.02	3.73	89	42.2	2800	3315.4	9.45	9.54	576	525	57.6	59.1	416	20257	9.70	3.7	1575	4208	.19	1.84	1.83	4.88	9.60	8.70	
841	1104	3321.7	7.85	3.11	3.94	90	43.6	2780	3315.5	9.46	9.55	576	553	57.7	59.2	413	20445	10.0	3.8	623	4097	.19	1.54	1.53	4.88	9.59	8.70	
842	1111	3322.0	2.53	3.32	4.28	92	45.0	2780	3316.0	9.46	9.55	576	482	57.7	59.2	419	21039	10.3	3.9	2050	4058	.20	1.89	1.88	4.89	9.59	8.70	
843	1116	3322.3	3.17	3.26	3.99	90	45.4	2790	3316.4	9.47	9.59	577	485	57.8	58.4	423	21555	10.6	4.0	1346	3955	.20	1.82	1.82	4.88	9.59	8.70	
844	1121	3322.6	3.74	3.34	3.80	90	44.7	2780	3316.6	9.47	9.59	577	519	57.7	58.8	422	21993	10.9	4.1	1204	3892	.20	1.76	1.76	4.89	9.59	8.70	
845	1125	3322.9	4.52	3.34	3.93	89	45.3	2770	3316.9	9.46	9.59	577	495	57.6	58.4	421	22355	11.2	4.1	1148	3811	.21	1.72	1.71	4.89	9.58	8.70	
846	1128	3323.2	6.31	3.41	3.97	90	45.4	2780	3317.0	9.47	9.57	577	485	57.6	58.1	423	22612	11.5	4.2	973	3749	.21	1.62	1.62	4.89	9.58	8.70	
847	1140	3323.6	4.22	3.17	3.70	90	41.8	2880	3317.5	9.47	9.57	565	468	57.6	57.9	443	22843	11.8	4.2	1135	3677	.21	1.75	1.74	4.89	9.58	8.70	
848	1143	3323.8	3.81	3.39	3.58	91	46.9	2920	3317.5	9.47	9.57	585	481	57.6	57.9	439	22909	12.1	4.2	1634	3563	.21	1.81	1.80	4.89	9.58	8.70	
849	1148	3324.2	4.08	3.36	4.37	91	46.3	2920	3317.8	9.46	9.60	593	481	57.1	57.0	431	23342	12.4	4.3	5330	3517	.22	1.76	1.76	4.89	9.58	8.70	
850	1151	3324.5	5.05	3.41	4.55	90	47.3	2930	3318.0	9.46	9.60	596	539	57.1	57.0	428	23602	12.7	4.4	996	3447	.22	1.71	1.70	4.89	9.58	8.70	
851	1154	3324.8	6.48	3.52	4.21	91	45.8	2930	3318.2	9.47	9.57	596	430	56.9	57.6	426	23855	13.1	4.4	853	3389	.22	1.62	1.62	4.89	9.58	8.70	
852	1158	3325.1	3.41	3.33	3.76	91	47.1	2950	3318.5	9.46	9.57	597	548	56.8	57.6	426	24301	13.4	4.5	1143	3335	.23	1.83	1.82	4.89	9.58	8.70	
853	1204	3325.4	3.24	3.28	4.42	90	46.5	2950	3318.9	9.48	9.56	598	520	56.8	57.9	427	24842	13.7	4.6	1587	3299	.23	1.83	1.83	4.89	9.57	8.70	

AMOCO AUST. Tilana No.1 329243 Data Printed at time 07:26 Date Oct 28 Data Recorded at time 12:09 Date Oct 17 175

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST EM PR	
854	1209	3325.7	3.51	3.43	4.51	90	47.3	2930	3319.1	9.63	9.64	598	559	56.8	58.2	426	25278	14.0	4.7	1380	3254	.23	1.82	1.81	4.90	9.57	8.70	D
855	1212	3326.0	5.62	3.25	4.51	90	46.7	2930	3319.3	9.63	9.64	598	631	56.8	58.2	426	25551	14.3	4.7	896	3202	.24	1.67	1.67	4.89	9.57	8.70	D
856	1215	3326.3	5.90	3.16	3.56	89	47.1	2930	3319.6	9.65	9.62	598	615	56.9	58.4	424	25827	14.6	4.8	666	3153	.24	1.66	1.66	4.90	9.57	8.70	D
857	1223	3326.6	2.58	3.22	3.60	90	46.5	2930	3320.1	9.63	9.64	598	591	57.1	58.9	428	26490	14.9	4.9	1476	3139	.25	1.90	1.89	4.90	9.57	8.70	D
858	1228	3326.9	3.52	3.15	3.69	90	47.0	2950	3320.4	9.66	9.65	598	575	57.3	59.6	431	26956	15.2	5.0	1430	3098	.25	1.81	1.81	4.90	9.58	8.70	D
859	1233	3327.2	3.26	3.16	3.57	91	46.7	2950	3320.6	9.64	9.68	599	552	57.4	59.2	437	27439	15.5	5.1	1394	3063	.25	1.83	1.83	4.90	9.59	8.70	D
860	1240	3327.5	2.84	3.23	4.37	90	46.8	2950	3321.1	9.65	9.68	598	583	57.5	59.5	437	28041	15.8	5.2	1596	3041	.26	1.87	1.86	4.90	9.60	8.70	D
861	1244	3327.8	4.66	3.25	4.35	87	45.3	2970	3321.2	9.63	9.63	599	554	57.5	59.7	437	28380	16.1	5.2	1172	3003	.26	1.70	1.69	4.90	9.61	8.70	D
862	1248	3328.1	3.71	3.35	4.29	87	47.0	2960	3321.3	9.64	9.62	599	499	57.6	59.9	438	28763	16.4	5.3	1360	2972	.27	1.78	1.77	4.90	9.62	8.70	D
863	1254	3328.4	3.14	3.27	4.12	87	45.7	2990	3321.8	9.62	9.62	599	521	57.8	59.8	442	29267	16.7	5.4	1917	2945	.27	1.81	1.81	4.90	9.63	8.70	D
864	1257	3328.7	5.64	3.14	4.31	87	45.7	2980	3321.8	9.62	9.62	600	488	57.8	59.8	441	29540	17.0	5.5	925	2906	.27	1.64	1.63	4.90	9.63	8.70	D
865	1302	3329.0	3.55	3.21	4.40	88	43.5	2980	3322.1	9.62	9.64	599	565	58.0	59.8	442	29998	17.3	5.5	1059	2884	.28	1.75	1.74	4.90	9.64	8.70	D
866	1308	3329.3	3.15	3.12	4.16	88	43.5	2990	3322.5	9.62	9.61	601	561	58.1	59.4	448	30504	17.6	5.6	1513	2861	.28	1.78	1.77	4.91	9.65	8.70	D
867	1312	3329.6	4.28	3.27	4.29	87	42.6	3000	3322.9	9.63	9.56	600	622	58.0	59.6	450	30874	17.9	5.7	1215	2833	.29	1.68	1.67	4.90	9.65	8.70	D
868	1318	3329.9	3.43	3.44	4.33	87	42.5	2980	3323.3	9.65	9.54	600	319	58.1	60.0	451	31334	18.2	5.8	1619	2809	.29	1.74	1.73	4.91	9.66	8.70	D
869	1323	3330.2	3.25	3.36	4.47	87	45.1	3000	3323.3	9.64	9.56	600	511	58.3	59.8	456	31773	18.5	5.9	1518	2783	.29	1.79	1.78	4.91	9.67	8.70	D
870	1330	3330.5	2.60	3.36	4.10	87	42.3	3000	3324.3	9.63	9.50	601	530	58.5	59.4	457	32383	18.8	6.0	1831	2771	.30	1.81	1.80	4.91	9.68	8.70	D
871	1334	3330.9	4.10	3.19	4.17	87	41.3	2990	3324.7	9.63	9.53	601	574	58.5	59.1	459	32769	19.2	6.1	1216	2748	.30	1.67	1.66	4.91	9.68	8.70	D
872	1339	3331.2	3.92	3.50	4.21	86	41.4	2970	3325.0	9.61	9.49	600	550	58.5	58.5	457	33169	19.5	6.2	1175	2721	.31	1.68	1.67	4.91	9.69	8.70	D
873	1345	3331.5	3.56	3.23	4.18	86	42.2	3010	3325.3	9.61	9.46	600	490	58.4	58.2	461	33693	19.8	6.3	1522	2705	.31	1.71	1.71	4.91	9.70	8.70	D
874	1351	3331.8	2.30	3.32	4.16	87	40.7	3000	3325.7	9.61	9.51	600	511	58.3	58.3	464	34248	20.1	6.4	2529	2690	.32	1.82	1.81	4.91	9.71	8.70	D
875	1356	3332.1	4.04	3.34	4.08	87	42.5	3010	3326.1	9.62	9.52	600	510	58.3	58.5	466	34670	20.4	6.4	1413	2670	.32	1.68	1.67	4.91	9.72	8.70	D
876	1403	3332.4	2.65	3.14	3.98	87	43.4	3030	3326.4	9.59	9.51	601	490	58.2	58.4	468	35267	20.7	6.6	2469	2659	.32	1.81	1.80	4.91	9.73	8.70	D
877	1414	3332.7	1.46	2.95	3.37	87	42.1	2970	3326.8	9.61	9.55	593	483	58.1	58.7	480	35580	21.0	6.6	2429	2640	.33	1.95	1.96	4.91	9.72	8.70	D
878	1424	3333.0	1.63	2.92	3.85	87	39.9	2970	3327.4	9.52	9.61	595	570	57.9	58.7	477	36461	21.3	6.8	5718	2638	.33	1.90	1.89	4.92	9.72	8.70	D
879	1432	3333.3	2.55	3.07	3.84	86	39.6	2970	3327.8	9.54	9.57	595	509	57.9	58.8	478	37076	21.6	6.9	2457	2627	.34	1.77	1.76	4.92	9.72	8.70	D
880	1440	3333.6	1.99	2.98	3.64	87	39.8	2980	3328.4	9.55	9.57	596	447	57.8	59.1	484	37847	21.9	7.1	2498	2623	.35	1.85	1.84	4.92	9.70	8.70	D
881	1448	3333.9	2.47	3.23	3.98	87	39.6	2960	3328.7	9.55	9.55	596	496	58.0	59.3	481	38508	22.2	7.2	2053	2618	.35	1.78	1.78	4.92	9.70	8.70	D
882	1454	3334.2	2.88	3.10	4.05	87	40.7	2940	3329.1	9.55	9.55	597	556	58.2	59.2	479	39005	22.5	7.3	1683	2602	.36	1.76	1.75	4.92	9.69	8.70	D
883	1509	3334.5	1.12	3.10	4.06	87	40.4	2960	3330.1	9.59	9.52	597	521	58.9	60.2	480	40390	22.8	7.5	2252	2624	.37	2.02	2.01	4.92	9.68	8.70	D
884	1519	3334.8	1.99	3.12	3.94	86	39.7	2970	3330.5	9.59	9.56	596	575	59.3	60.1	479	41180	23.1	7.7	2518	2623	.38	1.85	1.84	4.92	9.68	8.70	D
885	1526	3335.1	2.41	3.25	4.13	87	39.8	2960	3330.9	9.58	9.59	596	529	59.8	60.7	478	41851	23.4	7.8	2495	2622	.38	1.80	1.79	4.92	9.67	8.70	D
886	1537	3335.5	2.08	3.13	4.23	87	40.8	2970	3331.6	9.57	9.58	595	641	60.1	60.8	475	42762	23.7	8.0	3006	2622	.39	1.86	1.85	4.92	9.67	8.70	D
887	1550	3335.7	.98	3.07	4.17	88	41.7	2980	3332.3	9.56	9.54	596	510	60.7	60.8	476	43907	24.0	8.2	7457	2634	.40	2.08	2.07	4.92	9.66	8.70	D
888	1600	3336.0	1.90	3.12	4.03	87	41.5	2980	3332.6	9.58	9.48	594	541	60.9	60.6	477	44738	24.3	8.4	2768	2634	.41	1.89	1.88	4.93	9.65	8.70	D
889	1610	3336.3	1.73	3.02	3.91	86	40.1	2960	3332.9	9.53	9.44	594	455	61.1	60.8	474	45643	24.6	8.5	5811	2637	.42	1.89	1.88	4.92	9.65	8.70	D
890	1622	3336.6	1.53	3.05	4.04	86	40.0	2950	3333.4	9.59	9.50	593	494	61.3	60.5	474	46660	24.9	8.7	3113	2642	.43	1.93	1.92	4.93	9.65	8.70	D
891	1635	3337.0	1.42	3.21	4.05	86	39.7	2970	3333.8	9.61	9.49	596	484	61.3	61.0	477	47763	25.2	9.0	3582	2655	.44	1.95	1.94	4.93	9.65	8.70	D
892	1642	3337.3	2.69	3.15	3.92	86	39.2	2990	3334.2	9.61	9.49	596	520	61.5	60.6	475	48400	25.6	9.1	2020	2645	.44	1.76	1.75	4.93	9.65	8.70	D
893	1651	3337.6	1.77	3.17	4.06	85	39.9	2950	3334.3	9.59	9.54	595	576	61.5	60.7	474	49203	25.9	9.2	2474	2644	.45	1.88	1.87	4.93	9.65	8.70	D
894	1708	3337.9	1.15	2.96	4.01	91	41.3	2950	3334.8	9.57	9.59	595	606	61.6	61.4	472	50610	26.2	9.5	3507	2664	.46	2.04	2.03	4.93	9.66	8.70	D
895	1743	3338.2	1.02	2.93	6.27	92	40.5	2950	3335.9	9.61	9.57	594	514	61.4	62.3	503	52483	26.5	9.8	5341	2696	.48	2.07	2.05	4.93	9.66	8.70	D
896	1753	3338.5	1.57	3.07	4.21	90	42.5	2950	3336.2	9.60	9.56	595	495	61.8	62.0	498	53450	26.8	10.0	3274	2699	.49	1.97	1.96	4.93	9.66	8.70	D
897	1803	3338.8	1.87	3.01	4.07	92	41.0	2970	3336.4	9.61	9.59	596	533	61.9	62.4	499	54339	27.1	10.2	2667	2699	.49	1.90	1.89	4.93	9.67	8.70	D
898	1818	3339.1	1.22	2.96	4.01	91	41.9	2980	3336.8	9.63	9.56	596	539	62.1	63.1	496	55712	27.4	10.4	3195	2714	.51	2.03	2.02	4.93	9.67	8.70	D
899	1829	3339.4	1.73	3.06	4.28	90	42.0	2980	3337.2	9.64	9.51	596	523	62.3	62.8	493	56717	27.7	10.6	3109	2719	.52	1.93	1.92	4.93	9.68	8.70	D
900	1839	3339.7	1.89	3.14	4.02	90	42.0	2970	3337.5	9.61	9.50	595	494	62.4	63.1	472	57581	28.0	10.8	2928	2719	.52	1.91	1.89	4.94	9.68	8.70	D
901	1846	3340.0	2.65	3.16	4.02	90	42.8	2990	3337.5	9.64	9.50	597	530	62.5	63.2	471	58195	28.3	10.9	2486	2712	.53	1.82	1.80	4.93	9.69	8.70	D
902	1858	3340.4	1.67	3.05	4.02	91	42.8	2980	3337.9	9.69	9.52	597	557	62.7	62.2	463	59291	28.6	11.1	3377	2716	.54	1.95	1.94	4.94	9.69	8.70	D
903	1906	3340.6	1.71	2.98	3.37	91	43.2	2980	3337.9	9.58	9.57	595	582	62.6	62.7	465	60022	28.9	11.2	2602	2710	.54	1.95	1.94	4.94	9.69	8.70	D

EXLOG AMOCO AUST. Tilana No.1 329244 Data Printed at time 07:30 Date Oct 28 '85 Data Recorded at time 19:17 Date Oct 17 '85 176

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST PM PR	
904	1917	3340.9	1.59	3.02	3.82	91	42.8	2980	3338.0	9.56	9.51	595	538	62.5	62.6	468	61065	29.2	11.4	3178	2714	.55	1.97	1.95	4.94	9.71	8.70	D
905	1924	3341.2	2.74	3.09	3.75	91	42.7	2980	3338.0	9.57	9.51	595	530	62.6	62.9	466	61671	29.5	11.5	1926	2705	.56	1.81	1.79	4.94	9.71	8.70	D
906	1933	3341.5	2.14	2.96	3.65	91	41.9	3000	3338.2	9.56	9.55	595	520	62.6	62.9	462	62483	29.8	11.7	2241	2702	.57	1.87	1.85	4.94	9.70	8.70	D
907	1940	3341.8	2.53	3.04	3.97	91	42.7	2980	3338.4	9.50	9.58	594	524	62.9	63.1	459	63140	30.1	11.8	1984	2696	.57	1.83	1.81	4.94	9.70	8.70	D
908	1948	3342.4	3.20	3.13	3.92	90	42.4	2950	3338.5	9.52	9.60	582	507	62.9	63.9	469	63333	30.7	11.8	1928	2686	.57	1.78	1.75	4.94	9.70	8.70	D
909	1955	3342.7	3.06	3.32	4.33	91	43.1	2990	3338.7	9.54	9.64	596	569	62.8	63.8	457	63916	31.0	11.9	1305	2639	.58	1.78	1.77	4.94	9.70	8.70	D
910	2002	3343.1	2.52	3.24	4.07	90	41.5	2960	3338.9	9.56	9.64	596	527	62.9	63.6	453	64585	31.3	12.1	1832	2634	.58	1.82	1.80	4.95	9.70	8.70	D
911	2007	3343.4	3.54	3.35	4.32	90	41.5	2960	3339.0	9.53	9.65	596	584	63.0	63.9	450	65043	31.6	12.1	1332	2621	.59	1.72	1.70	4.94	9.70	8.70	D
912	2015	3343.7	2.42	3.15	4.09	90	41.4	2980	3339.2	9.54	9.63	595	610	63.2	63.8	448	65726	32.0	12.3	1773	2616	.59	1.83	1.81	4.95	9.69	8.70	D
913	2018	3344.0	5.96	3.09	3.43	91	41.2	2970	3339.4	9.55	9.62	596	644	63.3	64.1	444	66004	32.3	12.3	896	2599	.60	1.57	1.56	4.95	9.69	8.70	D
914	2022	3344.3	4.19	3.16	4.14	92	41.4	2980	3339.5	9.53	9.62	597	494	63.4	63.8	442	66401	32.5	12.4	968	2587	.60	1.68	1.66	4.95	9.68	8.70	D
915	2026	3344.6	4.16	3.23	3.99	91	41.3	2970	3339.7	9.54	9.64	595	614	63.6	64.0	445	66803	32.9	12.5	1079	2574	.60	1.68	1.66	4.95	9.68	8.70	D
916	2033	3344.9	2.72	3.40	4.21	90	41.5	3010	3340.0	9.53	9.63	596	609	63.8	63.8	449	67404	33.2	12.6	1715	2566	.61	1.80	1.78	4.95	9.67	8.70	D
917	2039	3345.2	3.03	3.15	4.06	90	41.5	2950	3340.2	9.56	9.60	594	557	63.9	63.8	446	67951	33.5	12.7	1587	2558	.61	1.77	1.75	4.95	9.67	8.70	D
918	2044	3345.5	3.71	3.33	4.23	89	41.5	2960	3340.3	9.53	9.64	594	571	64.0	63.8	442	68393	33.8	12.8	1456	2547	.62	1.71	1.69	4.95	9.66	8.70	D
919	2052	3345.8	1.95	3.06	4.11	89	41.1	2960	3340.6	9.58	9.64	594	622	64.2	63.8	441	69061	34.1	12.9	2103	2543	.62	1.88	1.87	4.95	9.66	8.70	D
920	2056	3346.1	3.93	3.02	4.02	88	40.5	2960	3340.8	9.55	9.63	594	654	64.3	63.8	438	69471	34.4	13.0	1284	2532	.63	1.68	1.66	4.95	9.65	8.70	D
921	2100	3346.4	5.51	3.23	4.39	89	40.4	2970	3340.9	9.55	9.63	593	590	64.3	63.8	426	69764	34.7	13.0	909	2517	.63	1.59	1.57	4.95	9.66	8.70	D
922	2105	3346.7	3.55	3.08	3.89	91	41.1	3000	3341.1	9.52	9.62	595	566	64.3	63.9	421	70259	35.0	13.1	1466	2509	.63	1.73	1.71	4.96	9.65	8.70	D
923	2110	3347.0	3.41	3.33	4.26	89	41.5	3010	3341.2	9.51	9.56	594	564	63.7	62.8	422	70659	35.3	13.2	1322	2498	.64	1.74	1.72	4.95	9.64	8.70	D
924	2115	3347.3	3.51	3.08	3.55	90	42.1	2980	3341.5	9.50	9.55	596	594	63.2	62.9	426	71130	35.6	13.3	1688	2488	.64	1.74	1.72	4.96	9.64	8.70	D
925	2119	3347.6	4.92	3.19	3.97	90	40.8	2990	3341.6	9.49	9.59	596	457	62.8	63.1	426	71479	35.9	13.3	1035	2477	.65	1.63	1.61	4.96	9.64	8.70	D
926	2122	3347.9	4.13	3.08	3.50	90	40.6	2960	3341.8	9.47	9.61	596	604	62.6	63.5	424	71816	36.2	13.4	1129	2464	.65	1.68	1.66	4.96	9.64	8.70	D
927	2127	3348.2	3.72	3.09	4.10	90	41.6	2970	3342.0	9.46	9.65	596	533	62.6	63.7	426	72255	36.5	13.5	1300	2455	.65	1.72	1.70	4.96	9.63	8.70	D
928	2132	3348.5	4.09	3.24	4.11	88	40.8	2990	3342.3	9.47	9.68	596	521	62.7	64.2	429	72648	36.8	13.6	1320	2445	.66	1.67	1.66	4.96	9.63	8.70	D
929	2137	3348.8	3.76	3.23	4.18	87	40.2	2980	3342.5	9.48	9.66	595	578	63.0	64.1	428	73073	37.1	13.6	1291	2436	.66	1.69	1.67	4.96	9.63	8.70	D
930	2141	3349.2	4.01	3.20	4.03	86	39.9	2950	3342.7	9.47	9.67	594	571	63.2	63.8	427	73479	37.4	13.7	1376	2428	.66	1.67	1.65	4.96	9.62	8.70	D
931	2146	3349.5	3.64	3.43	4.25	86	41.1	2940	3342.9	9.47	9.67	594	577	63.2	63.8	426	73911	37.7	13.8	1414	2419	.67	1.71	1.69	4.96	9.62	8.70	D
932	2150	3349.8	5.02	3.26	4.07	87	41.2	2970	3343.1	9.46	9.62	595	559	63.4	64.7	422	74224	38.0	13.9	998	2408	.67	1.62	1.60	4.96	9.62	8.70	D
933	2154	3350.1	4.93	3.26	4.27	86	41.5	2960	3343.4	9.47	9.61	594	473	63.7	64.5	425	74541	38.3	13.9	1138	2396	.67	1.63	1.61	4.96	9.62	8.70	D
934	2158	3350.4	3.39	3.19	4.06	87	41.7	2960	3343.5	9.49	9.65	595	545	63.9	64.2	427	74960	38.6	14.0	1739	2388	.68	1.74	1.72	4.97	9.62	8.70	D
935	2202	3350.7	5.69	3.19	3.95	87	40.0	2960	3343.7	9.49	9.65	594	575	63.8	64.3	427	75233	39.0	14.1	904	2375	.68	1.57	1.55	4.96	9.62	8.70	D
936	2206	3351.0	4.16	3.23	3.89	87	39.2	2950	3344.0	9.49	9.68	594	542	63.9	64.4	425	75615	39.3	14.1	981	2367	.68	1.65	1.63	4.97	9.61	8.70	D
937	2210	3351.3	4.46	3.07	4.16	87	41.3	2950	3344.3	9.47	9.66	594	531	64.0	64.5	425	75969	39.6	14.2	1156	2357	.68	1.66	1.64	4.97	9.61	8.70	D
938	2213	3351.6	5.27	3.30	4.15	88	41.5	2950	3344.6	9.48	9.67	594	592	64.1	65.0	424	76273	39.9	14.3	1001	2346	.69	1.62	1.60	4.97	9.61	8.70	D
+ Wiper trip.																												
Date Oct 18 '85																												
942	0332	3352.8	3.97	3.43	5.01	91	36.7	2940	3352.4	9.58	9.86	464	412	48.2	50.4	415	76820	41.1	14.4	3552	2288	.69	1.73	1.71	4.97	9.58	8.70	D
943	0332	3354.0	1.92	3.19	3.48	95	38.7	2940	3352.4	9.58	9.86	465	386	48.2	50.4	415	76850	42.3	14.4	3105	2288	.69	1.89	1.87	4.98	9.55	8.70	D
944	0338	3354.3	4.27	3.24	4.14	95	39.8	2890	3352.4	9.54	9.81	468	424	48.0	51.5	406	77347	42.6	14.5	1203	2218	.70	1.68	1.66	4.98	9.56	8.70	D
945	0341	3354.6	4.92	3.05	4.04	91	40.2	2880	3352.4	9.54	9.81	466	390	48.0	51.5	404	77683	42.9	14.5	1172	2209	.70	1.64	1.62	4.98	9.56	8.70	D
946	0346	3355.0	4.07	3.22	4.00	90	40.0	2900	3352.4	9.54	9.79	467	403	48.1	52.5	401	78111	43.2	14.6	1238	2204	.70	1.69	1.66	4.98	9.56	8.70	D
947	0352	3355.3	2.93	2.88	3.99	90	40.0	2910	3352.4	9.55	9.68	467	425	49.1	54.0	402	78671	43.5	14.7	1649	2200	.71	1.78	1.76	4.98	9.56	8.70	D
948	0358	3355.5	3.26	2.95	4.18	91	41.1	2910	3352.4	9.56	9.71	467	453	49.6	54.3	400	79151	43.8	14.8	1515	2194	.71	1.76	1.74	4.98	9.57	8.70	D
949	0403	3355.9	3.62	3.10	4.07	91	40.3	2900	3352.4	9.57	9.70	467	407	50.0	54.7	399	79631	44.1	14.9	1518	2189	.72	1.72	1.70	4.98	9.57	8.70	D
950	0407	3356.2	4.16	3.15	4.05	91	39.7	2920	3352.4	9.57	9.72	469	461	50.8	54.9	399	80009	44.5	14.9	1177	2182	.72	1.68	1.65	4.98	9.57	8.70	D
951	0411	3356.5	4.55	3.13	4.10	91	40.4	2890	3352.4	9.57	9.73	468	459	51.5	54.6	397	80372	44.8	15.0	1100	2175	.72	1.66	1.64	4.98	9.58	8.70	D
952	0419	3356.8	2.50	3.07	3.99	91	40.3	2890	3352.4	9.57	9.73	470	521	52.0	55.2	399	81058	45.1	15.1	1924	2174	.73	1.82	1.80	4.99	9.58	8.70	D
953	0423	3357.1	4.47	2.67	3.92	91	40.2	2900	3352.4	9.58	9.70	470	414	52.4	55.3	391	81425	45.3	15.2	1055	2168	.73	1.66	1.64	4.99	9.59	8.70	D
954	0428	3357.4	3.01	2.85	4.01	92	40.0	2900	3352.4	9.58	9.64	469	452	52.8	54.8	386	81958	45.7	15.3	1496	2163	.74	1.77	1.75	4.99	9.59	8.70	D

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
955	0436	3357.7	2.31	2.89	4.32	88	40.0	2920	3352.4	9.57	9.58	471	450	53.3	54.6	388	82655	46.0	15.4	1904	2163	.74	1.82	1.80	4.99	9.64	8.70
956	0443	3358.0	2.68	2.92	4.16	88	41.1	2910	3352.4	9.56	9.61	469	392	53.4	54.8	384	83255	46.3	15.6	1684	2161	.75	1.80	1.77	4.99	9.65	8.70
957	0450	3358.3	2.61	2.87	3.95	88	41.1	2920	3352.4	9.57	9.65	470	397	53.7	55.7	382	83873	46.6	15.7	1870	2160	.75	1.80	1.78	4.99	9.65	8.70
958	0455	3358.6	3.65	3.09	4.08	88	40.0	2910	3352.4	9.57	9.67	469	391	53.7	54.7	379	84321	46.9	15.8	1528	2155	.76	1.69	1.67	4.99	9.66	8.70
959	0501	3358.9	2.96	2.97	4.07	88	44.3	2900	3352.4	9.56	9.60	469	378	53.8	55.0	381	84854	47.2	15.9	1847	2152	.76	1.81	1.78	4.99	9.66	8.70
960	0505	3359.2	4.49	2.91	4.11	87	41.9	2910	3352.4	9.56	9.71	468	387	53.8	56.1	384	85208	47.5	15.9	1211	2145	.76	1.65	1.63	4.99	9.67	8.70
961	0510	3359.5	4.37	3.00	4.40	88	41.4	2920	3352.4	9.57	9.74	468	424	53.9	56.2	384	85573	47.8	16.0	1142	2139	.77	1.66	1.63	4.99	9.67	8.70
962	0514	3359.8	4.00	3.19	6.02	88	41.0	2910	3352.4	9.58	9.60	468	467	54.1	57.0	388	85971	48.1	16.1	1160	2133	.77	1.68	1.65	4.99	9.67	8.70
963	0520	3360.1	3.18	3.37	4.30	88	43.0	2900	3352.4	9.59	9.59	469	423	54.2	57.8	388	86478	48.4	16.2	2542	2129	.77	1.77	1.74	5.00	9.68	8.70
964	0524	3360.4	4.10	3.38	4.44	89	41.3	2900	3352.4	9.60	9.64	468	416	54.2	57.8	384	86872	48.7	16.2	1393	2124	.78	1.68	1.65	5.00	9.68	8.70
965	0529	3360.8	4.12	3.22	3.95	88	41.4	2920	3352.4	9.60	9.67	470	463	54.4	56.7	383	87296	49.0	16.3	1298	2119	.78	1.67	1.65	5.00	9.69	8.70
966	0542	3361.0	3.48	3.15	4.12	88	42.4	2870	3352.4	9.58	9.59	465	415	54.5	56.1	387	87801	49.3	16.4	1769	2116	.79	1.73	1.71	5.00	9.69	8.70
967	0547	3361.3	3.44	3.26	3.83	93	42.7	2860	3352.8	9.53	9.63	466	520	54.1	56.5	383	88262	49.6	16.5	1352	2111	.79	1.75	1.73	5.00	9.70	8.70
968	0550	3361.6	5.57	3.15	3.77	93	41.2	2880	3353.7	9.53	9.58	465	538	54.1	56.5	384	88564	49.9	16.6	837	2104	.79	1.60	1.57	5.00	9.70	8.70
969	0555	3362.0	3.72	3.18	3.84	92	42.8	2910	3354.1	9.54	9.67	469	464	53.8	56.4	384	89041	50.2	16.6	1488	2100	.80	1.73	1.70	5.00	9.70	8.70
970	0601	3362.2	2.95	3.15	3.97	93	42.1	3010	3354.4	9.55	9.67	474	520	53.5	56.6	380	89584	50.5	16.7	1565	2096	.80	1.79	1.76	5.00	9.71	8.70
971	0605	3362.6	4.29	3.08	4.01	93	41.3	3040	3354.7	9.55	9.67	479	491	53.5	56.6	379	89983	50.9	16.8	1154	2091	.81	1.67	1.65	5.00	9.71	8.70
972	0610	3362.9	3.76	3.10	3.95	93	40.1	3050	3355.1	9.54	9.68	480	488	53.5	57.3	381	90435	51.2	16.9	1285	2086	.81	1.69	1.67	5.00	9.71	8.70
973	0614	3363.2	4.33	3.13	3.59	93	41.5	3050	3355.3	9.53	9.66	481	382	53.5	58.6	382	90841	51.4	17.0	1172	2082	.81	1.67	1.65	5.00	9.71	8.70
974	0621	3363.5	2.78	3.11	3.56	93	41.7	3040	3355.7	9.55	9.70	480	457	53.7	58.2	382	91446	51.8	17.1	1977	2080	.82	1.80	1.77	5.00	9.71	8.70
975	0624	3363.8	5.07	3.18	3.81	93	40.5	3050	3355.9	9.54	9.68	480	441	54.2	59.1	382	91778	52.1	17.1	1052	2073	.82	1.61	1.59	5.01	9.71	8.70
976	0629	3364.1	3.84	3.37	3.99	93	40.7	3030	3356.2	9.55	9.71	480	433	54.5	58.7	385	92205	52.4	17.2	1125	2068	.82	1.69	1.67	5.01	9.71	8.70
977	0633	3364.4	5.03	3.33	4.23	92	39.9	3020	3356.4	9.55	9.69	479	377	54.5	58.7	388	92546	52.7	17.3	1084	2063	.83	1.61	1.58	5.01	9.71	8.70
978	0637	3364.7	4.15	3.49	4.23	92	40.8	3030	3356.7	9.57	9.65	480	384	54.7	58.1	390	92944	53.0	17.3	1174	2057	.83	1.67	1.65	5.01	9.71	8.70
979	0641	3365.0	4.39	3.35	4.05	93	39.3	3040	3356.9	9.55	9.61	481	392	54.8	58.0	391	93330	53.3	17.4	1131	2052	.83	1.64	1.61	5.01	9.71	8.70
980	0644	3365.3	5.84	3.31	3.62	93	39.6	3040	3357.1	9.53	9.65	481	466	54.7	58.0	389	93621	53.6	17.5	845	2046	.84	1.56	1.54	5.01	9.71	8.70
981	0648	3365.6	5.81	3.33	3.70	93	41.5	3040	3357.3	9.55	9.63	481	431	54.7	58.2	389	93911	53.9	17.5	938	2038	.84	1.59	1.56	5.01	9.71	8.70
982	0651	3365.9	5.35	3.24	3.78	93	39.4	3030	3357.4	9.55	9.63	482	428	54.7	58.2	389	94225	54.2	17.6	938	2033	.84	1.58	1.56	5.01	9.71	8.70
983	0655	3366.2	4.75	3.30	3.74	93	40.7	3040	3357.6	9.53	9.64	481	462	54.8	57.5	391	94579	54.5	17.6	1153	2027	.84	1.64	1.61	5.01	9.71	8.70
984	0659	3366.5	3.96	3.17	3.57	93	39.8	3050	3357.8	9.53	9.65	483	371	54.5	57.3	387	95005	54.8	17.7	1254	2022	.85	1.67	1.65	5.01	9.71	8.70
985	0704	3366.8	3.58	3.17	3.70	93	39.2	3040	3358.0	9.52	9.61	482	481	54.6	55.9	391	95477	55.1	17.8	1377	2019	.85	1.69	1.67	5.01	9.70	8.70
986	0708	3367.2	5.80	3.21	4.20	93	41.3	3040	3358.2	9.53	9.58	482	420	54.5	54.4	392	95794	55.4	17.8	877	2013	.86	1.59	1.56	5.02	9.70	8.70
987	0712	3367.4	3.95	3.20	4.17	92	40.9	3030	3358.4	9.50	9.68	482	450	54.1	57.4	390	96182	55.7	17.9	1137	2008	.86	1.69	1.66	5.02	9.70	8.70
988	0717	3367.8	3.91	3.11	3.93	93	38.2	3030	3358.8	9.51	9.65	482	449	54.0	57.4	388	96646	56.0	18.0	1404	2005	.86	1.66	1.63	5.02	9.70	8.70
989	0723	3368.1	3.14	3.28	4.04	93	38.3	3040	3359.1	9.56	9.64	482	418	54.0	57.5	390	97178	56.3	18.1	1603	2004	.87	1.72	1.69	5.02	9.70	8.70
990	0726	3368.4	5.07	3.34	4.15	93	38.9	3030	3359.4	9.50	9.64	482	492	54.0	57.0	389	97507	56.6	18.2	1066	1997	.87	1.59	1.57	5.02	9.70	8.70
991	0733	3368.7	2.51	3.15	3.76	92	38.5	3020	3359.8	9.51	9.62	481	458	53.9	57.9	388	98110	56.9	18.3	2109	1996	.88	1.78	1.76	5.02	9.69	8.70
992	0735	3369.0	6.43	3.23	3.84	92	41.0	3030	3360.0	9.50	9.62	481	489	54.0	57.7	389	98344	57.2	18.3	738	1989	.88	1.55	1.52	5.02	9.69	8.70
993	0742	3369.3	2.91	3.19	3.72	93	41.4	3030	3360.3	9.50	9.62	481	486	54.1	57.2	385	98920	57.6	18.4	2588	1987	.88	1.78	1.75	5.02	9.69	8.70
994	0747	3369.6	3.04	3.19	4.04	93	40.3	3030	3360.7	9.49	9.59	482	499	54.1	57.1	382	99443	57.9	18.5	1518	1985	.89	1.75	1.73	5.02	9.69	8.70
995	0752	3369.9	3.91	3.27	4.05	93	39.4	3020	3360.8	9.50	9.57	481	528	54.1	57.1	381	99897	58.2	18.6	1380	1982	.89	1.67	1.65	5.02	9.69	8.70
996	0755	3370.2	5.86	3.42	4.19	91	39.9	2990	3360.9	9.50	9.59	481	477	54.1	57.3	383	100168	58.5	18.6	893	1975	.89	1.57	1.54	5.02	9.69	8.70
997	0806	3370.8	3.64	3.43	3.68	91	42.7	2660	3361.5	9.50	9.56	447	367	54.2	57.3	416	100364	59.1	18.7	1682	1959	.89	1.72	1.69	5.03	9.68	8.70
998	0812	3371.1	3.49	3.24	4.64	91	41.9	3020	3361.8	9.54	9.59	478	397	54.1	56.7	417	100832	59.4	18.8	1703	1956	.90	1.74	1.71	5.03	9.68	8.70
999	0815	3371.4	5.61	3.26	4.38	90	38.1	3010	3362.0	9.52	9.61	478	389	53.9	56.7	419	101083	59.7	18.8	811	1949	.90	1.55	1.52	5.03	9.67	8.70
1000	0819	3371.7	3.95	3.31	4.45	88	38.5	2970	3362.3	9.53	9.60	479	465	53.8	56.2	421	101502	60.0	18.9	1196	1946	.90	1.65	1.62	5.03	9.67	8.70
1001	0824	3372.0	3.99	3.42	4.24	89	40.2	3000	3362.6	9.51	9.59	478	382	53.7	56.8	415	101905	60.3	19.0	1249	1943	.91	1.67	1.64	5.03	9.67	8.70
1002	0829	3372.3	3.62	3.14	4.28	90	39.4	2980	3362.9	9.49	9.59	479	425	53.5	56.4	414	102342	60.6	19.0	1401	1939	.91	1.69	1.66	5.03	9.67	8.70
1003	0833	3372.6	3.97	3.00	4.05	89	39.1	3010	3363.2	9.49	9.57	480	393	53.4	56.8	412	102756	60.9	19.1	1434	1936	.92	1.66	1.63	5.03	9.67	8.70
1004	0841	3372.9	2.47	3.05	4.22	88	38.6	3010	3363.6	9.49	9.59	480	415	53.4	56.6	413	103410	61.2	19.2	3114	1937	.92	1.78	1.75	5.03	9.67	8.70

EXLOG AMOCO AUST. Tilana No.1 329246 Data Printed at time 07:42 Data Recorded at time 03:46 Date Oct 28 '85 Date Oct 18 '85 178

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
1005	0846	3373.2	3.27	3.17	7.06	88	38.9	2990	3364.0	9.56	9.64	479	455	53.5	56.6	409	103899	61.5	19.3	1633	1934	.92	1.71	1.68	5.03	9.67	8.70	
1006	0858	3373.5	2.07	4.04	7.76	86	37.6	2990	3364.9	9.69	9.65	478	406	53.5	56.9	408	104675	61.8	19.5	2315	1937	.93	1.81	1.78	5.03	9.66	8.70	
1007	0903	3373.8	3.59	3.05	7.68	99	37.9	3010	3365.3	9.72	9.66	481	494	53.5	57.1	404	105164	62.1	19.6	1209	1935	.94	1.70	1.67	5.03	9.66	8.70	
1008	0911	3374.2	2.32	3.20	5.21	99	39.5	3010	3366.1	9.68	9.68	479	414	53.5	56.5	406	106017	62.4	19.7	1970	1937	.94	1.84	1.81	5.04	9.66	8.70	
1009	0914	3374.5	5.77	3.24	4.63	99	39.4	3020	3366.3	9.68	9.68	480	441	53.5	56.5	403	106330	62.7	19.8	949	1931	.95	1.59	1.56	5.04	9.66	8.70	
1010	0919	3374.8	3.81	3.79	4.73	99	38.0	2990	3366.6	9.69	9.69	479	416	53.6	56.4	403	106801	63.0	19.8	1103	1928	.95	1.68	1.65	5.04	9.67	8.70	
2	0933	3375.7	3.54	3.61	4.98	99	40.8	3010	3367.5	9.66	9.72	478	418	53.7	56.1	401	108173	64.0	20.1	3355	1918	.96	1.74	1.71	5.04	9.68	8.70	
3	0938	3376.0	3.39	4.05	7.61	96	37.8	2970	3367.9	9.66	9.71	479	482	53.7	56.0	401	108697	64.3	20.2	1426	1916	.97	1.70	1.67	5.04	9.69	8.70	
4	0943	3376.3	4.83	3.20	4.46	101	36.0	3010	3368.1	9.66	9.73	480	466	53.7	56.3	403	109103	64.6	20.2	1114	1912	.97	1.59	1.56	5.04	9.70	8.70	
5	0948	3376.6	5.30	4.34	7.82	91	37.7	2970	3368.5	9.66	9.76	475	464	53.7	55.8	406	109413	64.9	20.3	1165	1907	.97	1.56	1.53	5.04	9.70	8.70	
6	0954	3376.9	4.93	3.67	7.82	92	34.9	2980	3369.0	9.64	9.77	476	437	53.6	56.4	401	109760	65.1	20.3	1092	1905	.98	1.55	1.52	5.04	9.71	8.70	
7	0959	3377.2	3.08	4.03	4.54	92	35.8	3000	3369.1	9.66	9.74	478	424	53.5	56.6	402	110164	65.5	20.4	1146	1900	.98	1.69	1.66	5.04	9.72	8.70	
8	1002	3377.5	4.99	3.21	3.60	91	37.1	3010	3369.3	9.66	9.74	481	438	53.5	56.6	404	110519	65.8	20.5	1252	1899	.98	1.57	1.54	5.05	9.72	8.70	
9	1007	3377.8	3.81	3.29	3.80	92	37.9	3010	3369.7	9.63	9.70	480	511	53.5	56.1	410	110958	66.1	20.6	1229	1894	.99	1.66	1.62	5.05	9.72	8.70	
10	1009	3378.1	10.3	3.62	4.29	93	37.4	3000	3369.8	9.64	9.71	480	463	53.5	56.2	411	111114	66.4	20.6	513	1887	.99	1.38	1.35	5.05	9.73	8.70	
11	1013	3378.4	4.21	3.65	7.72	89	37.8	3010	3370.1	9.65	9.70	481	508	53.5	56.6	418	111525	66.7	20.7	811	1884	.99	1.61	1.58	5.05	9.73	8.70	
12	1017	3378.7	4.65	3.18	3.47	93	38.1	3020	3370.1	9.65	9.70	482	447	53.5	56.6	424	111886	67.0	20.7	1077	1881	.99	1.60	1.57	5.05	9.73	8.70	
13	1021	3379.0	5.20	3.17	3.49	92	36.9	3020	3370.6	9.66	9.69	481	464	53.5	56.4	423	112197	67.3	20.8	1051	1876	1.00	1.55	1.52	5.05	9.74	8.70	
14	1024	3379.3	4.87	3.30	3.72	93	37.5	3010	3371.0	9.65	9.67	481	463	53.6	56.1	427	112544	67.6	20.8	976	1872	1.00	1.58	1.55	5.05	9.74	8.70	
15	1037	3380.0	6.01	3.38	3.44	97	37.9	2930	3371.7	9.65	9.62	474	514	53.6	56.1	421	112859	68.2	20.9	1073	1862	1.00	1.56	1.53	5.05	9.75	8.70	
16	1040	3380.2	5.47	3.35	3.85	96	37.7	2930	3371.8	9.65	9.62	473	486	53.6	56.1	412	113078	68.5	20.9	1229	1854	1.00	1.56	1.53	5.05	9.75	8.70	
17	1043	3380.5	5.41	3.27	3.75	95	39.2	2990	3372.1	9.62	9.66	476	453	53.5	55.8	406	113401	68.8	21.0	881	1851	1.01	1.58	1.54	5.05	9.76	8.70	
18	1046	3380.9	8.32	3.30	3.73	95	36.7	2970	3372.2	9.59	9.68	477	468	53.2	55.7	404	113629	69.1	21.0	767	1847	1.01	1.43	1.40	5.05	9.76	8.70	
19	1049	3381.1	4.21	3.23	3.62	95	38.0	2970	3372.4	9.59	9.68	476	436	53.2	55.7	412	113958	69.4	21.1	1013	1841	1.01	1.63	1.60	5.06	9.77	8.70	
20	1054	3381.5	4.26	3.11	3.79	95	38.9	2970	3372.6	9.59	9.69	477	492	53.1	55.4	415	114407	69.8	21.2	1213	1839	1.02	1.64	1.61	5.06	9.77	8.70	
21	1057	3381.8	4.98	3.30	3.74	96	38.2	2980	3372.8	9.60	9.71	476	442	53.1	55.6	422	114689	70.1	21.2	847	1834	1.02	1.59	1.55	5.06	9.78	8.70	
22	1059	3382.1	5.16	3.38	4.01	96	41.5	2970	3373.0	9.60	9.71	476	458	53.1	55.6	424	114964	70.4	21.3	903	1829	1.02	1.62	1.59	5.06	9.78	8.70	
23	1101	3382.4	11.4	3.51	4.04	95	42.6	2970	3373.1	9.62	9.69	476	406	53.1	56.2	424	115117	70.7	21.3	442	1823	1.02	1.41	1.37	5.06	9.78	8.70	
24	1105	3382.7	4.32	3.30	3.92	96	41.8	2970	3373.2	9.65	9.69	477	419	53.3	55.8	428	115515	71.0	21.4	858	1820	1.02	1.67	1.64	5.06	9.79	8.70	
25	1110	3383.0	4.24	3.17	3.72	95	39.8	2970	3373.3	9.65	9.69	477	434	53.3	55.8	434	115924	71.3	21.4	1088	1818	1.03	1.65	1.62	5.06	9.79	8.70	
26	1112	3383.3	7.67	3.19	3.83	95	38.4	2960	3373.3	9.65	9.68	476	409	53.5	55.6	436	116188	71.6	21.5	833	1813	1.03	1.47	1.43	5.06	9.79	8.70	
27	1116	3383.6	3.74	3.16	3.70	95	42.6	2970	3373.5	9.65	9.68	476	358	53.6	55.1	447	116567	71.9	21.5	3516	1810	1.03	1.72	1.68	5.06	9.80	8.70	
28	1120	3383.9	4.58	3.11	3.94	94	41.4	2970	3373.7	9.65	9.68	476	417	53.6	55.1	452	116944	72.2	21.6	1265	1807	1.04	1.64	1.61	5.06	9.80	8.70	
29	1122	3384.2	9.26	3.38	3.77	94	42.6	2960	3373.8	9.65	9.68	476	405	53.6	55.1	450	117130	72.5	21.6	538	1802	1.04	1.46	1.43	5.06	9.80	8.70	
30	1126	3384.5	5.27	3.24	3.80	95	42.3	2970	3374.0	9.67	9.68	477	342	53.5	54.8	454	117508	72.8	21.7	1349	1800	1.04	1.62	1.58	5.07	9.80	8.70	
31	1129	3384.8	4.97	3.24	3.77	95	42.0	2960	3374.2	9.67	9.68	476	340	53.5	54.8	457	117786	73.1	21.8	858	1795	1.04	1.63	1.59	5.07	9.80	8.70	
32	1133	3385.1	4.51	3.29	3.89	95	43.1	2960	3374.4	9.65	9.69	477	444	53.5	54.4	462	118130	73.4	21.8	1068	1791	1.05	1.67	1.63	5.07	9.80	8.70	
33	1137	3385.4	4.84	3.17	3.80	95	42.8	2960	3374.7	9.67	9.67	476	378	53.5	54.3	466	118484	73.7	21.9	1028	1788	1.05	1.65	1.61	5.07	9.80	8.70	
34	1140	3385.7	4.85	3.19	3.76	95	42.4	2960	3374.9	9.65	9.68	476	358	53.4	54.3	469	118804	74.0	21.9	1031	1785	1.05	1.64	1.61	5.07	9.80	8.70	
35	1144	3386.0	4.75	3.32	4.13	95	41.0	2960	3375.2	9.65	9.68	476	369	53.4	54.3	473	119164	74.3	22.0	1403	1782	1.06	1.63	1.59	5.07	9.80	8.70	
36	1147	3386.3	4.55	3.26	3.80	94	41.0	2950	3375.5	9.64	9.68	476	403	53.3	54.3	476	119505	74.6	22.1	1228	1778	1.06	1.64	1.61	5.07	9.79	8.70	
37	1150	3386.6	6.74	3.40	3.89	95	43.8	2940	3375.6	9.66	9.69	476	422	53.2	54.0	477	119737	74.9	22.1	736	1774	1.06	1.57	1.53	5.07	9.79	8.70	
38	1154	3386.9	4.79	3.33	3.90	95	43.5	2950	3375.8	9.66	9.69	476	417	53.2	54.0	484	120095	75.2	22.2	1246	1771	1.06	1.66	1.62	5.07	9.79	8.70	
39	1156	3387.2	8.01	3.43	4.06	91	43.5	2940	3376.0	9.70	9.68	476	448	53.1	54.1	481	120297	75.5	22.2	614	1766	1.07	1.50	1.47	5.07	9.79	8.70	
40	1200	3387.6	4.43	3.11	3.78	92	43.9	2950	3376.3	9.67	9.70	476	404	53.0	54.1	478	120676	75.8	22.3	1254	1764	1.07	1.68	1.64	5.07	9.79	8.70	
41	1208	3387.9	2.04	3.15	4.02	91	44.5	2960	3376.6	9.65	9.69	476	369	53.0	54.3	479	121408	76.1	22.4	4074	1766	1.08	1.90	1.86	5.08	9.79	8.70	
42	1212	3388.2	4.68	3.21	3.81	92	44.5	2950	3376.9	9.65	9.70	477	357	53.1	54.2	477	121762	76.4	22.5	1035	1763	1.08	1.67	1.63	5.08	9.79	8.70	
43	1221	3388.5	1.99	3.18	4.29	90	46.4	2940	3377.5	9.65	9.71	476	404	53.3	54.2	476	122585	76.8	22.6	2281	1765	1.09	1.93	1.89	5.08	9.79	8.70	
44	1227	3388.8	3.29	3.30	4.61	90	45.1	2950	3378.0	9.65	9.72	477	400	53.4	54.3	476	123082	77.1	22.7	1600	1764	1.09	1.77	1.73	5.08	9.79	8.70	
45	1229	3389.1	3.28	3.32	4.67	90	45.2	2960	3378.2	9.67	9.71	477	358	53.5	54.3	474	123333	77.4	22.8	1578	1760	1.09	1.77	1.74	5.08	9.79	8.70	

AMOCO AUST. Tilana No.1 329247 Data Printed at time 07:47 Date Oct 28
Data Recorded at time 12:38 Date Oct 18 179

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
46	1238	3390.0	2.94	3.10	3.53	90	46.1	2960	3378.7	9.66	9.72	478	378	53.5	53.9	497	123503	78.3	22.8	1495	1762	1.09	1.87	1.82	5.08	9.74	8.70	D
47	1243	3390.3	3.90	3.11	3.35	90	40.5	2740	3378.8	9.66	9.72	414	264	53.5	53.9	492	123561	78.6	22.8	1607	1736	1.09	1.70	1.66	5.08	9.78	8.70	D
48	1248	3390.6	3.93	3.16	4.43	89	43.1	2980	3379.3	9.69	9.72	478	373	53.6	53.3	475	124031	78.9	22.9	2373	1735	1.10	1.69	1.66	5.08	9.79	8.70	D
49	1254	3390.9	2.21	3.10	4.17	88	43.9	2980	3379.6	9.64	9.75	478	398	53.4	53.1	474	124559	79.2	23.0	1705	1734	1.10	1.86	1.82	5.08	9.79	8.70	D
50	1258	3391.2	4.90	3.18	4.38	88	42.1	2970	3380.1	9.64	9.75	477	451	53.4	53.1	472	124910	79.5	23.1	1240	1732	1.10	1.61	1.58	5.08	9.79	8.70	D
51	1304	3391.5	3.06	3.36	4.43	88	43.1	2980	3380.7	9.64	9.76	477	330	53.3	53.9	469	125433	79.8	23.2	1662	1731	1.11	1.76	1.72	5.09	9.79	8.70	D
52	1308	3391.8	3.59	3.20	4.44	89	43.0	2980	3381.3	9.64	9.76	479	442	53.3	53.9	471	125837	80.1	23.2	1443	1730	1.11	1.72	1.68	5.09	9.79	8.70	D
53	1315	3392.1	2.50	3.27	4.31	88	44.9	2970	3381.8	9.63	9.73	479	449	53.3	53.9	469	126441	80.4	23.3	1661	1730	1.12	1.84	1.80	5.09	9.79	8.70	D
54	1321	3392.4	3.19	3.27	4.18	88	43.9	2980	3382.6	9.64	9.75	478	426	53.4	54.0	469	126976	80.7	23.4	1635	1730	1.12	1.76	1.72	5.09	9.79	8.70	D
55	1324	3392.7	6.66	3.31	3.86	88	43.8	2970	3382.9	9.63	9.78	478	439	53.4	53.7	465	127207	81.0	23.5	877	1726	1.12	1.55	1.51	5.09	9.79	8.70	D
56	1328	3393.0	4.80	3.42	4.16	89	42.9	2980	3383.1	9.63	9.78	478	414	53.4	53.7	468	127558	81.3	23.5	761	1724	1.13	1.63	1.60	5.09	9.79	8.70	D
57	1331	3393.3	6.18	3.37	3.99	89	42.8	2990	3383.4	9.61	9.78	479	400	53.4	54.1	466	127808	81.6	23.6	729	1720	1.13	1.56	1.52	5.09	9.79	8.70	D
58	1336	3393.7	3.40	3.31	4.04	89	43.5	2980	3383.9	9.59	9.79	479	423	53.2	54.2	461	128298	81.9	23.7	1791	1721	1.13	1.74	1.70	5.09	9.80	8.70	D
59	1340	3394.0	4.61	3.36	4.15	89	44.3	2980	3384.3	9.60	9.79	478	421	53.0	54.3	461	128645	82.2	23.8	1155	1718	1.14	1.66	1.62	5.09	9.80	8.70	D
60	1345	3394.3	3.31	3.27	3.59	88	43.9	2990	3384.9	9.58	9.80	478	418	53.0	54.6	463	129083	82.5	23.8	1281	1716	1.14	1.75	1.71	5.09	9.80	8.70	D
61	1349	3394.6	5.23	3.33	3.64	83	43.9	2990	3385.3	9.61	9.82	478	405	53.1	54.8	459	129392	82.8	23.9	1018	1713	1.14	1.62	1.58	5.09	9.79	8.70	D
62	1353	3394.9	3.47	3.17	4.26	88	45.0	2980	3385.6	9.62	9.83	477	388	53.2	55.0	460	129802	83.2	24.0	1158	1711	1.14	1.75	1.71	5.10	9.79	8.70	D
63	1401	3395.2	2.46	3.31	3.97	89	42.8	3000	3386.3	9.62	9.83	478	437	53.3	54.9	459	130472	83.4	24.1	1566	1712	1.15	1.82	1.78	5.10	9.79	8.70	D
64	1402	3395.5	9.07	3.66	4.27	89	44.3	2970	3386.5	9.62	9.83	477	449	53.3	54.9	458	130630	83.8	24.1	489	1708	1.15	1.47	1.43	5.10	9.79	8.70	D
65	1407	3395.8	3.95	3.97	7.70	86	43.8	2940	3386.9	9.62	9.83	473	381	53.3	54.9	456	131030	84.1	24.2	1067	1706	1.15	1.69	1.65	5.10	9.79	8.70	D
66	1412	3396.1	4.05	3.83	7.72	86	44.4	2980	3387.5	9.65	9.80	477	460	53.4	55.7	457	131407	84.4	24.3	1144	1705	1.16	1.69	1.65	5.10	9.78	8.70	D
67	1417	3396.4	3.63	3.18	4.08	88	43.8	2970	3388.0	9.65	9.80	477	469	53.6	56.1	458	131849	84.7	24.4	1485	1704	1.16	1.72	1.68	5.10	9.78	8.70	D
68	1422	3396.7	3.70	3.13	3.95	89	44.3	2990	3388.3	9.64	9.80	477	481	53.8	55.5	456	132327	85.0	24.4	1991	1703	1.17	1.73	1.69	5.10	9.78	8.70	D
69	1431	3397.0	1.89	3.54	7.79	85	43.5	2920	3388.7	9.67	9.81	472	333	54.0	56.0	455	133029	85.3	24.6	4496	1705	1.17	1.89	1.86	5.10	9.78	8.70	D
70	1435	3397.3	5.15	3.51	4.29	88	44.0	2970	3388.9	9.67	9.82	477	474	54.1	56.4	454	133367	85.6	24.7	1165	1703	1.17	1.62	1.59	5.10	9.78	8.70	D
71	1441	3397.6	2.71	3.70	4.62	87	44.4	2970	3389.2	9.69	9.83	477	515	54.2	56.3	456	133905	85.9	24.8	1391	1702	1.18	1.81	1.77	5.10	9.78	8.70	D
72	1444	3397.9	6.23	3.45	4.39	88	44.6	2960	3389.4	9.67	9.83	476	415	54.3	56.4	452	134163	86.2	24.8	808	1699	1.18	1.58	1.54	5.10	9.78	8.70	D
73	1450	3398.2	2.87	3.74	4.99	87	43.9	2980	3389.9	9.68	9.84	476	376	54.4	56.2	453	134761	86.5	24.9	1298	1700	1.18	1.79	1.75	5.11	9.78	8.70	D
74	1455	3398.5	3.14	3.63	4.36	89	43.3	2960	3390.1	9.67	9.85	477	457	54.6	56.2	451	135184	86.8	25.0	1342	1698	1.19	1.76	1.72	5.11	9.78	8.70	D
75	1500	3398.8	3.54	3.60	4.45	89	44.5	2960	3390.5	9.70	9.85	476	472	54.6	55.9	451	135642	87.1	25.1	1450	1697	1.19	1.74	1.70	5.11	9.78	8.70	D
76	1508	3399.1	2.47	3.39	4.56	88	44.2	2990	3391.1	9.69	9.85	476	480	54.5	56.3	451	136292	87.4	25.2	1932	1698	1.20	1.83	1.80	5.11	9.78	8.70	D
77	1512	3399.5	4.59	3.40	4.52	88	44.1	2990	3391.2	9.70	9.84	477	436	54.8	56.5	451	136665	87.7	25.3	1267	1697	1.20	1.66	1.62	5.11	9.78	8.70	D
78	1522	3399.8	3.92	3.44	4.04	90	38.7	2940	3391.7	9.70	9.85	472	447	54.8	56.4	458	136767	88.0	25.3	1275	1692	1.20	1.66	1.62	5.11	9.78	8.70	D
79	1524	3400.1	1.66	3.34	4.15	90	43.4	2980	3391.8	9.70	9.85	475	413	54.8	56.4	453	136960	88.3	25.3	2164	1688	1.20	1.94	1.90	5.11	9.78	8.70	D
80	1530	3400.3	2.97	3.27	3.66	90	43.5	2980	3392.1	9.69	9.89	476	458	54.8	55.8	449	137470	88.6	25.4	982	1687	1.21	1.78	1.74	5.11	9.78	8.70	D
81	1538	3400.7	2.60	3.25	3.56	90	43.7	2980	3392.5	9.68	9.90	475	422	54.7	56.0	448	138214	88.9	25.6	4129	1690	1.21	1.82	1.78	5.11	9.78	8.70	D
82	1543	3401.0	2.80	3.50	4.38	90	43.4	2970	3392.9	9.70	9.90	474	353	54.6	55.7	449	138703	89.3	25.7	2031	1688	1.22	1.80	1.76	5.11	9.79	8.70	D
83	1547	3401.3	5.56	3.41	4.21	90	43.8	2970	3393.2	9.71	9.90	474	381	54.7	56.1	445	139021	89.6	25.7	673	1686	1.22	1.61	1.57	5.11	9.79	8.70	D
84	1552	3401.6	3.21	3.29	3.68	91	44.4	2980	3393.7	9.68	9.92	475	405	54.7	56.2	444	139536	89.9	25.8	1082	1686	1.22	1.77	1.73	5.12	9.79	8.70	D
85	1600	3401.9	1.51	3.19	3.77	91	45.2	2970	3394.2	9.68	9.92	476	469	54.7	56.0	446	140238	90.2	25.9	2885	1687	1.23	1.99	1.95	5.12	9.79	8.70	D
86	1609	3402.2	2.09	3.05	3.86	90	43.9	2970	3394.8	9.70	9.92	475	437	54.8	56.0	440	141034	90.5	26.1	2017	1689	1.24	1.88	1.84	5.12	9.79	8.70	D
87	1625	3402.5	1.14	3.07	3.64	90	45.4	2960	3395.9	9.70	9.96	475	414	54.8	55.7	445	142487	90.8	26.3	3229	1698	1.25	2.07	2.03	5.12	9.80	8.70	D
88	1636	3402.8	1.67	3.08	4.15	92	43.8	2960	3396.6	9.69	9.93	476	433	54.8	55.8	440	143473	91.1	26.5	3046	1702	1.26	1.95	1.91	5.12	9.81	8.70	D
89	1649	3403.1	1.47	3.36	4.39	91	44.2	2960	3397.2	9.70	9.91	475	469	54.8	55.9	438	144642	91.4	26.7	3656	1709	1.27	1.98	1.94	5.12	9.81	8.70	D
90	1659	3403.4	1.85	3.28	4.18	90	44.7	2960	3397.8	9.70	9.83	475	419	54.8	56.7	432	145533	91.7	26.9	3570	1713	1.27	1.92	1.88	5.12	9.81	8.70	D
91	1711	3403.7	1.27	3.08	3.56	90	44.0	2970	3398.5	9.71	9.73	475	448	55.1	57.0	430	146700	92.0	27.1	3696	1719	1.28	2.02	1.98	5.12	9.82	8.70	D
92	1718	3404.0	2.58	3.35	4.28	91	45.8	2950	3398.9	9.69	9.73	474	430	55.2	57.5	426	147339	92.3	27.2	2010	1719	1.29	1.85	1.80	5.12	9.82	8.70	D
93	1726	3404.3	2.57	3.16	4.39	90	44.2	2950	3399.2	9.69	9.71	475	481	55.4	57.5	425	147978	92.6	27.3	1916	1719	1.29	1.82	1.78	5.12	9.82	8.70	D
94	1734	3404.6	2.05	3.19	3.61	90	43.9	2950	3399.6	9.70	9.71	475	522	55.7	57.6	424	148774	92.9	27.5	2685	1722	1.30	1.88	1.84	5.12	9.82	8.70	D
95	1742	3404.9	2.05	3.18	3.69	90	45.3	2950	3400.3	9.69	9.72	475	493	55.9	57.8	424	149492	93.2	27.6	3101	1724	1.31	1.90	1.86	5.12	9.82	8.70	D

EXLOG®

AMOCO AUST. Tilana No.1

329248

Data Printed at time 07:51 Date Oct 28 '85
Data Recorded at time 17:49 Date Oct 18 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
96	1749	3405.2	2.52	3.17	4.51	90	45.5	2940	3400.6	9.69	9.70	475	538	56.0	58.1	420	150075	93.5	27.7	1822	1723	1.31	1.85	1.80	5.13	9.82	8.70	D
97	1754	3405.5	3.11	3.21	4.44	90	45.3	2940	3400.9	9.68	9.69	475	459	56.1	57.7	417	150550	93.8	27.8	1739	1723	1.31	1.78	1.74	5.13	9.82	8.70	D
98	1758	3405.8	3.93	3.34	4.45	90	47.0	2940	3401.1	9.68	9.69	475	532	56.2	57.6	415	150925	94.1	27.9	1422	1722	1.32	1.74	1.69	5.13	9.82	8.70	D
99	1804	3406.1	3.08	3.43	4.56	90	46.4	2940	3401.4	9.70	9.70	476	581	56.2	57.9	416	151452	94.4	28.0	1615	1720	1.32	1.80	1.75	5.13	9.82	8.70	D
100	1811	3406.4	2.14	3.46	4.34	90	43.9	2950	3401.9	9.69	9.68	475	589	56.3	57.9	419	152062	94.7	28.1	2451	1721	1.33	1.87	1.83	5.13	9.82	8.70	D
101	1816	3406.8	4.21	3.28	4.32	89	43.9	2950	3402.0	9.70	9.69	475	510	56.4	58.0	415	152487	95.0	28.2	1213	1719	1.33	1.68	1.63	5.13	9.82	8.70	D
102	1823	3407.1	2.40	3.22	4.13	89	43.3	2930	3402.1	9.68	9.70	474	580	56.5	58.1	413	153100	95.4	28.3	1812	1720	1.33	1.83	1.79	5.13	9.82	8.70	D
103	1828	3407.4	4.08	3.19	4.32	90	44.1	2940	3402.3	9.70	9.69	473	488	56.6	58.1	419	153537	95.7	28.4	1740	1719	1.34	1.69	1.65	5.13	9.82	8.70	D
104	1832	3407.7	4.00	3.26	4.07	90	42.4	2940	3402.4	9.71	9.67	474	522	56.7	58.5	420	153908	96.0	28.4	1124	1716	1.34	1.67	1.63	5.13	9.82	8.70	D
105	1837	3408.0	3.66	3.40	4.21	89	43.4	2960	3402.5	9.70	9.69	474	577	56.7	58.3	422	154389	96.3	28.5	1941	1716	1.34	1.71	1.67	5.13	9.82	8.70	D
106	1843	3408.3	3.12	3.20	4.48	90	44.0	2950	3402.7	9.70	9.68	474	620	56.8	58.6	422	154912	96.6	28.6	2272	1715	1.35	1.76	1.72	5.13	9.82	8.70	D
107	1847	3408.6	4.00	3.28	4.28	90	42.8	2970	3402.9	9.72	9.68	474	442	56.8	58.3	421	155320	96.9	28.7	1504	1715	1.35	1.68	1.64	5.14	9.82	8.70	D
108	1902	3408.9	3.07	3.21	4.08	90	39.8	2820	3403.1	9.71	9.67	462	501	56.4	58.9	438	155919	97.2	28.8	1580	1714	1.36	1.71	1.67	5.14	9.82	8.70	D
109	1907	3409.2	3.13	3.30	4.27	92	42.4	2980	3403.3	9.73	9.68	477	551	55.8	58.1	440	156370	97.5	28.9	1324	1713	1.36	1.75	1.70	5.14	9.82	8.70	D
110	1912	3409.5	3.92	3.34	4.30	90	42.8	2980	3403.4	9.74	9.65	477	530	55.5	58.5	443	156812	97.8	29.0	1292	1712	1.36	1.69	1.64	5.14	9.82	8.70	D
111	1918	3409.8	3.35	3.23	4.16	89	42.1	2990	3403.6	9.70	9.68	476	478	55.2	58.2	443	157297	98.1	29.1	1341	1711	1.37	1.72	1.67	5.14	9.83	8.70	D
112	1924	3410.1	2.52	3.23	4.48	89	43.6	2990	3403.7	9.71	9.69	476	555	55.1	57.6	454	157848	98.4	29.2	1846	1711	1.37	1.82	1.77	5.14	9.83	8.70	D
113	1932	3410.4	2.39	3.20	4.31	89	42.8	2990	3403.9	9.71	9.66	476	609	55.0	58.3	455	158560	98.7	29.3	2752	1714	1.38	1.82	1.78	5.14	9.83	8.70	D
114	1938	3410.7	2.95	3.21	4.38	89	42.4	2980	3404.1	9.71	9.68	476	558	54.9	58.3	459	159111	99.0	29.4	1511	1712	1.38	1.76	1.71	5.14	9.83	8.70	D
115	1942	3411.0	4.21	3.37	4.35	90	42.5	2980	3404.4	9.72	9.66	477	594	54.9	58.4	462	159498	99.3	29.5	1206	1711	1.39	1.66	1.61	5.14	9.83	8.70	D
116	1945	3411.3	5.63	3.19	4.50	90	42.4	2990	3404.5	9.72	9.66	475	542	54.9	58.4	464	159749	99.6	29.5	978	1708	1.39	1.58	1.53	5.14	9.83	8.70	D
117	1954	3411.6	2.11	3.32	4.36	89	41.9	2980	3404.9	9.72	9.66	476	581	55.0	58.4	469	160537	99.9	29.7	1300	1710	1.39	1.84	1.80	5.14	9.83	8.70	D
118	2001	3411.9	2.71	3.38	4.49	89	43.9	3000	3405.0	9.72	9.63	476	519	55.0	58.4	474	161138	100	29.8	1923	1710	1.40	1.80	1.75	5.15	9.83	8.70	D
119	2005	3412.2	3.83	3.51	4.63	90	43.7	2960	3405.2	9.71	9.67	475	570	55.1	58.2	476	161520	101	29.9	1499	1710	1.40	1.70	1.66	5.15	9.83	8.70	D
120	2009	3412.6	4.02	3.62	4.60	90	43.7	2970	3405.4	9.72	9.65	474	541	55.1	58.2	473	161926	101	29.9	2382	1708	1.41	1.69	1.64	5.15	9.83	8.70	D
121	2013	3412.8	3.63	3.45	4.17	90	41.4	2980	3405.7	9.71	9.67	474	542	55.1	57.6	472	162241	101	30.0	1663	1707	1.41	1.69	1.64	5.15	9.83	8.70	D
122	2018	3413.2	3.52	3.38	4.20	90	42.1	2990	3406.0	9.71	9.65	475	553	55.4	58.1	473	162704	101	30.1	1404	1705	1.41	1.70	1.66	5.15	9.84	8.70	D
123	2023	3413.5	4.36	3.24	4.41	89	43.2	2990	3406.2	9.53	9.65	476	570	55.6	58.1	471	163113	102	30.2	1116	1703	1.42	1.66	1.61	5.15	9.84	8.70	D
124	2026	3413.8	5.38	3.25	4.12	90	42.7	2990	3406.4	9.53	9.65	474	503	55.6	58.1	469	163386	102	30.2	953	1701	1.42	1.59	1.55	5.15	9.84	8.70	D
125	2033	3414.1	2.35	3.13	3.78	89	43.1	2990	3406.8	9.58	9.66	475	455	56.3	58.2	468	164072	102	30.3	2572	1702	1.42	1.83	1.78	5.15	9.84	8.70	D
126	2039	3414.4	3.15	3.46	4.45	89	43.1	2980	3407.1	9.54	9.68	475	523	56.5	58.5	467	164536	103	30.4	1440	1701	1.43	1.74	1.70	5.15	9.84	8.70	D
127	2042	3414.7	4.70	3.22	4.37	89	42.4	3000	3407.3	9.57	9.64	475	471	56.7	58.2	465	164880	103	30.5	1147	1699	1.43	1.63	1.58	5.15	9.84	8.70	D
128	2046	3415.0	4.44	3.25	3.77	89	44.5	2990	3407.4	9.57	9.64	474	417	56.7	58.2	463	165178	103	30.5	1001	1696	1.43	1.66	1.62	5.15	9.84	8.70	D
129	2053	3415.3	2.47	3.18	3.84	90	43.7	2970	3408.1	9.54	9.68	474	500	57.0	58.3	463	165836	104	30.7	1816	1697	1.44	1.82	1.78	5.16	9.83	8.70	D
130	2058	3415.6	4.15	3.30	4.37	90	42.4	2970	3408.3	9.57	9.64	475	548	57.2	58.5	461	166230	104	30.7	1224	1696	1.44	1.66	1.62	5.16	9.83	8.70	D
131	2102	3415.9	4.44	3.47	4.49	90	42.6	2960	3408.4	9.57	9.64	475	532	57.2	58.5	461	166597	104	30.8	1055	1694	1.44	1.65	1.60	5.16	9.83	8.70	D
132	2104	3416.2	8.54	3.21	4.47	90	42.2	2970	3408.5	9.55	9.67	475	524	57.3	58.5	457	166788	104	30.8	615	1691	1.44	1.46	1.41	5.16	9.82	8.70	D
133	2111	3416.5	2.53	3.20	4.71	89	44.1	2980	3408.9	9.57	9.64	476	439	57.4	58.7	460	167472	105	31.0	1577	1693	1.45	1.82	1.78	5.16	9.82	8.70	D
134	2115	3416.8	4.94	3.21	4.32	90	42.7	2990	3409.0	9.56	9.63	476	546	57.5	58.7	456	167802	105	31.0	1034	1690	1.45	1.62	1.57	5.16	9.81	8.70	D
135	2122	3417.1	2.67	3.27	4.58	89	43.8	2960	3409.3	9.56	9.65	476	592	57.6	58.9	458	168410	105	31.1	2542	1691	1.46	1.81	1.76	5.16	9.81	8.70	D
136	2126	3417.4	3.42	3.28	4.61	90	43.0	2940	3409.5	9.56	9.60	476	520	57.7	58.6	454	168814	106	31.2	1471	1689	1.46	1.73	1.68	5.16	9.80	8.70	D
137	2131	3417.7	4.17	3.28	4.41	89	43.1	2980	3409.8	9.55	9.59	476	537	57.8	58.9	454	169222	106	31.3	1157	1688	1.46	1.68	1.63	5.16	9.79	8.70	D
138	2137	3418.0	3.27	3.34	4.08	90	43.0	2970	3410.1	9.56	9.59	476	486	57.9	59.1	454	169720	106	31.4	1672	1688	1.47	1.74	1.70	5.16	9.79	8.70	D
139	2147	3418.3	3.27	3.23	4.11	89	42.9	2930	3410.4	9.59	9.60	470	531	58.1	58.5	459	169950	107	31.4	1602	1685	1.47	1.74	1.70	5.16	9.78	8.70	D
140	2148	3418.6	3.26	3.70	4.11	89	43.5	2980	3410.4	9.59	9.60	475	495	58.1	58.5	455	170056	107	31.4	1556	1682	1.47	1.74	1.69	5.17	9.78	8.70	D
141	2151	3419.0	5.38	3.56	4.88	89	43.3	2970	3410.6	9.59	9.60	475	433	58.1	58.5	450	170326	107	31.5	487	1679	1.47	1.61	1.56	5.17	9.78	8.70	D
142	2157	3419.3	3.41	3.74	4.77	88	43.2	2950	3410.8	9.54	9.62	475	588	58.0	58.1	453	170798	108	31.6	1274	1678	1.48	1.74	1.69	5.17	9.77	8.70	D
143	2159	3419.6	7.69	3.54	4.63	90	43.7	2960	3411.1	9.54	9.62	476	593	58.0	58.1	448	170989	108	31.6	900	1676	1.48	1.52	1.47	5.17	9.77	8.70	D
144	2202	3419.9	6.60	3.39	4.69	89	41.2	2960	3411.3	9.54	9.62	474	425	58.0	58.1	446	171257	108	31.7	764	1673	1.48	1.53	1.48	5.17	9.77	8.70	D
145	2206	3420.2	3.29	3.55	4.53	89	42.3	2970	3411.5	9.54	9.61	475	528	58.0	58.5	446	171649	108	31.7	1852	1672	1.48	1.73	1.69	5.17	9.76	8.70	D

AMOCO AUST. Tilana No.1 329249

Data Printed at time 07:55 Date Oct 28
Data Recorded at time 22:10 Date Oct 18

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
146	2210	3420.5	5.44	3.38	4.86	89	41.8	2980	3411.7	9.53	9.61	475	489	58.0	58.8	445	171944	109	31.8	989	1669	1.49	1.59	1.54	5.17	9.76	8.70
147	2214	3420.8	3.89	3.48	4.60	88	42.3	2950	3411.9	9.55	9.61	473	556	58.0	59.0	446	172357	109	31.9	1656	1669	1.49	1.69	1.64	5.17	9.75	8.70
148	2217	3421.1	6.64	3.57	4.23	89	40.3	2950	3412.1	9.55	9.61	473	518	58.0	59.0	444	172600	109	31.9	833	1666	1.49	1.52	1.47	5.17	9.75	8.70
149	2218	3421.4	12.5	3.53	4.10	88	39.8	2960	3412.1	9.55	9.61	473	488	58.0	59.0	438	172654	110	31.9	500	1661	1.49	1.40	1.37	5.17	9.75	8.70
150	2223	3421.7	3.17	3.42	4.54	89	42.2	2970	3412.4	9.53	9.63	474	515	58.1	58.7	438	173163	110	32.0	957	1661	1.50	1.75	1.70	5.17	9.74	8.70
151	2226	3422.0	6.67	3.16	4.42	89	41.9	2970	3412.6	9.53	9.63	474	517	58.1	58.7	433	173428	110	32.1	900	1659	1.50	1.54	1.49	5.18	9.74	8.70
152	2231	3422.3	3.23	3.68	4.58	89	42.6	2950	3412.9	9.51	9.71	474	539	58.1	58.7	432	173831	111	32.1	1339	1657	1.50	1.75	1.70	5.18	9.74	8.70
153	2235	3422.6	4.99	3.53	4.49	88	42.7	2960	3413.2	9.50	9.71	475	556	58.0	58.9	429	174154	111	32.2	1147	1655	1.50	1.63	1.58	5.18	9.73	8.70
154	2239	3422.9	4.54	3.29	4.22	89	41.5	2970	3413.4	9.48	9.73	475	511	58.1	58.9	430	174539	111	32.3	1121	1655	1.51	1.64	1.59	5.18	9.72	8.70
155	2258	3423.2	1.57	3.73	7.94	79	35.7	2920	3414.6	9.48	9.71	470	504	58.2	59.4	427	175423	112	32.5	$	1658	1.51	1.83	1.78	5.18	9.70	8.70
156	2259	3423.5	21.4	3.14	4.02	89	38.5	2910	3414.6	9.48	9.71	470	487	58.2	59.4	428	175493	112	32.5	1302	1655	1.51	1.19	1.14	5.18	9.70	8.70
157	2300	3423.8	18.5	3.52	3.81	92	43.3	2950	3414.7	9.48	9.71	473	453	58.3	59.0	422	175583	112	32.5	251	1650	1.51	1.28	1.23	5.18	9.69	8.70
158	2305	3424.1	3.32	3.37	3.72	91	42.7	2980	3415.2	9.49	9.72	477	523	58.4	58.7	423	176072	112	32.6	748	1649	1.52	1.76	1.71	5.18	9.69	8.70
159	2308	3424.4	6.33	3.51	4.99	89	43.1	2970	3415.2	9.49	9.72	476	538	58.4	58.7	420	176329	113	32.6	778	1647	1.52	1.58	1.52	5.18	9.69	8.70
160	2322	3424.8	1.53	4.62	7.90	87	39.3	2930	3416.2	9.51	9.71	471	472	58.3	59.1	421	177391	113	32.8	3965	1652	1.53	1.92	1.87	5.18	9.68	8.70
161	2323	3425.0	18.0	3.28	4.07	91	34.2	2930	3416.3	9.51	9.71	471	473	58.3	59.1	420	177477	113	32.8	326	1648	1.53	1.20	1.15	5.18	9.68	8.70
162	2325	3425.3	13.1	3.64	4.42	93	42.2	2980	3416.4	9.49	9.72	474	464	58.3	59.0	418	177604	114	32.9	487	1645	1.53	1.37	1.32	5.19	9.68	8.70
+ Flow check.																											
164	2332	3425.7	7.01	3.50	4.44	91	44.1	2900	3416.6	9.50	9.71	468	504	58.3	58.5	425	177852	114	32.9	776	1642	1.53	1.57	1.51	5.19	9.67	8.70
165	2336	3426.0	4.37	3.44	4.52	90	45.2	2950	3416.9	9.50	9.71	473	508	58.3	58.5	420	178170	114	33.0	1281	1640	1.53	1.71	1.66	5.19	9.67	8.70
166	2338	3426.3	8.65	3.52	3.99	91	45.3	2950	3417.0	9.50	9.73	473	448	58.3	58.7	415	178367	115	33.0	595	1638	1.54	1.52	1.46	5.19	9.67	8.70
167	2342	3426.6	5.19	3.42	4.37	89	46.1	2930	3417.2	9.50	9.73	473	489	58.3	58.7	413	178680	115	33.1	811	1636	1.54	1.67	1.62	5.19	9.67	8.70
168	2346	3426.9	3.83	3.52	4.19	89	46.7	2930	3417.5	9.50	9.71	473	499	58.2	58.5	416	179102	115	33.1	1478	1636	1.54	1.76	1.71	5.19	9.67	8.70
169	2349	3427.2	6.01	3.57	4.29	89	45.7	2940	3417.6	9.50	9.73	472	559	58.2	58.1	415	179372	115	33.2	957	1633	1.54	1.62	1.57	5.19	9.67	8.70
170	2353	3427.5	5.25	3.38	4.27	90	44.2	2940	3417.9	9.50	9.73	472	479	58.2	58.1	414	179681	116	33.3	898	1631	1.55	1.65	1.59	5.19	9.67	8.70
171	2355	3427.8	7.23	3.64	4.16	90	45.3	2950	3418.0	9.49	9.72	473	468	58.1	58.5	411	179900	116	33.3	717	1629	1.55	1.57	1.51	5.19	9.67	8.70
	Date	Oct 19 '85																									
172	0010	3428.1	6.30	3.24	4.31	91	42.2	2780	3418.6	9.54	9.67	448	404	58.0	58.6	420	180069	116	33.3	848	1627	1.55	1.60	1.56	5.19	9.66	8.70
173	0015	3428.7	6.23	3.93	5.31	95	45.7	2940	3419.0	9.55	9.68	473	452	57.9	58.0	412	180465	117	33.4	515	1619	1.55	1.63	1.58	5.20	9.66	8.70
174	0017	3429.0	6.47	3.80	4.18	96	45.8	2960	3419.1	9.55	9.68	473	444	57.9	58.0	410	180708	117	33.4	958	1618	1.55	1.63	1.57	5.20	9.66	8.70
175	0020	3429.3	5.74	3.55	4.34	96	44.9	2950	3419.3	9.51	9.69	473	398	57.7	58.2	403	180976	118	33.5	748	1616	1.56	1.65	1.59	5.20	9.66	8.70
176	0024	3429.6	5.01	3.75	4.40	92	46.2	2950	3419.7	9.51	9.69	472	459	57.7	58.2	405	181311	118	33.5	814	1614	1.56	1.69	1.64	5.20	9.66	8.70
177	0027	3429.9	5.92	3.72	4.34	93	45.4	2960	3419.9	9.52	9.69	472	456	57.6	57.6	406	181598	118	33.6	911	1612	1.56	1.64	1.58	5.20	9.65	8.70
178	0028	3430.2	10.1	3.87	4.15	93	43.2	2960	3420.1	9.52	9.69	471	473	57.6	57.6	403	181748	118	33.6	471	1609	1.56	1.46	1.40	5.20	9.65	8.70
179	0031	3430.5	6.48	4.02	6.29	91	45.1	2950	3420.3	9.55	9.68	471	413	57.5	58.4	401	182000	119	33.7	808	1607	1.56	1.60	1.55	5.20	9.65	8.70
180	0034	3430.8	5.25	4.24	7.64	86	43.8	2950	3420.6	9.55	9.69	472	463	57.5	58.5	402	182304	119	33.7	1409	1606	1.57	1.63	1.58	5.20	9.65	8.70
181	0037	3431.1	7.02	3.64	4.94	91	45.6	2970	3420.8	9.55	9.69	472	472	57.5	58.5	400	182541	119	33.8	699	1603	1.57	1.59	1.53	5.20	9.65	8.70
182	0041	3431.4	4.66	3.90	4.92	90	45.2	2950	3421.2	9.54	9.69	472	542	57.5	58.6	403	182863	120	33.8	1500	1601	1.57	1.70	1.64	5.20	9.65	8.70
183	0042	3431.7	14.7	3.44	4.52	91	43.1	2970	3421.3	9.54	9.69	473	498	57.5	58.6	400	182967	120	33.8	339	1598	1.57	1.35	1.30	5.20	9.65	8.70
184	0044	3432.1	7.15	3.47	4.21	92	46.3	2960	3421.6	9.54	9.69	472	467	57.5	58.6	398	183218	120	33.9	454	1596	1.57	1.59	1.54	5.21	9.65	8.70
185	0049	3432.4	4.50	3.79	6.88	88	44.1	2960	3421.8	9.54	9.69	473	610	57.6	58.8	400	183613	121	34.0	1169	1595	1.58	1.69	1.63	5.21	9.65	8.70
186	0052	3432.7	4.72	3.64	4.39	90	44.4	2960	3422.0	9.53	9.53	472	465	57.7	52.2	404	183858	121	34.0	793	1593	1.58	1.68	1.63	5.21	9.65	8.70
187	0056	3433.0	4.57	3.84	7.36	88	44.9	2960	3422.4	9.55	9.60	473	527	57.5	57.9	406	184208	121	34.1	1100	1592	1.58	1.69	1.64	5.21	9.65	8.70
188	0058	3433.3	8.13	3.58	4.29	92	45.5	2960	3422.5	9.55	9.60	473	572	57.5	57.9	405	184393	122	34.1	682	1589	1.58	1.54	1.49	5.21	9.65	8.70
189	0101	3433.6	5.07	3.43	4.50	91	45.9	2950	3422.7	9.54	9.52	473	520	57.1	58.1	406	184697	122	34.2	1001	1587	1.59	1.68	1.63	5.21	9.65	8.70
190	0103	3433.9	8.17	3.51	4.33	91	46.3	2950	3422.9	9.54	9.52	473	519	57.1	58.1	403	184912	122	34.2	735	1585	1.59	1.55	1.49	5.21	9.65	8.70
191	0107	3434.2	4.68	3.62	4.18	91	45.8	2940	3423.2	9.54	9.53	473	558	57.0	58.3	405	185213	122	34.3	843	1583	1.59	1.71	1.65	5.21	9.65	8.70
192	0109	3434.5	8.37	3.54	4.11	91	43.8	2960	3423.2	9.54	9.53	472	489	57.0	58.3	402	185422	123	34.3	635	1581	1.59	1.51	1.46	5.21	9.65	8.70
193	0112	3434.8	5.75	3.62	4.28	91	43.4	2960	3423.2	9.54	9.53	472	487	57.0	58.3	401	185683	123	34.3	731	1579	1.59	1.62	1.56	5.21	9.65	8.70
194	0114	3435.1	8.43	3.58	4.59	91	44.0	2940	3423.2	9.54	9.53	472	484	57.0	58.3	402	185870	123	34.4	600	1576	1.60	1.52	1.46	5.21	9.65	8.70

EXLOG®

AMOCO AUST. Tilana No.1

329250

Data Printed at time 07:59 Date Oct 28 '85
Data Recorded at time 01:16 Date Oct 19 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR	
195	0116	3435.4	8.46	3.45	4.15	91	44.3	2940	3423.2	9.54	9.53	472	466	57.0	58.3	401	186072	124	34.4	641	1574	1.60	1.52	1.46	5.22	9.66	8.70	D
196	0118	3435.7	11.1	3.79	4.26	91	45.7	2940	3423.2	9.55	9.71	472	458	57.0	58.5	398	186221	124	34.4	342	1571	1.60	1.45	1.40	5.22	9.66	8.70	D
197	0121	3436.0	5.06	3.53	5.13	90	43.8	2950	3423.2	9.55	9.71	472	549	57.0	58.5	401	186541	124	34.5	1000	1570	1.60	1.65	1.60	5.22	9.66	8.70	D
198	0123	3436.3	8.41	3.38	4.57	90	45.3	2950	3423.3	9.55	9.69	472	496	57.0	58.6	398	186717	125	34.5	616	1568	1.60	1.53	1.47	5.22	9.66	8.70	D
199	0126	3436.6	6.09	3.50	4.34	91	45.4	2960	3423.7	9.55	9.69	473	439	57.0	58.6	398	186987	125	34.6	734	1565	1.60	1.62	1.57	5.22	9.66	8.70	D
200	0129	3436.9	7.60	3.35	4.36	90	43.5	2960	3423.9	9.53	9.72	472	465	57.1	58.5	399	187202	125	34.6	665	1564	1.61	1.54	1.48	5.22	9.66	8.70	D
201	0141	3437.3	7.04	3.79	4.34	93	43.4	2880	3424.5	9.54	9.68	463	521	57.2	58.5	404	187296	126	34.6	694	1560	1.61	1.50	1.45	5.22	9.66	8.70	D
202	0144	3437.9	5.20	4.01	7.65	89	43.9	2960	3424.7	9.56	9.68	468	452	57.2	57.2	393	187600	126	34.7	1115	1555	1.61	1.64	1.59	5.22	9.67	8.70	D
203	0146	3438.2	10.1	3.56	4.39	95	44.5	2960	3424.7	9.56	9.68	472	576	57.2	57.2	391	187769	126	34.7	580	1552	1.61	1.48	1.42	5.22	9.67	8.70	D
204	0150	3438.5	4.46	3.65	4.22	95	43.4	2960	3424.7	9.54	9.70	471	478	57.0	58.7	389	188113	127	34.8	958	1552	1.61	1.70	1.64	5.22	9.67	8.70	D
205	0152	3438.8	6.80	3.61	4.23	94	44.9	2970	3424.7	9.54	9.70	473	446	57.0	58.7	386	188363	127	34.8	739	1549	1.62	1.59	1.54	5.23	9.67	8.70	D
206	0157	3439.1	3.97	3.55	4.88	93	45.3	2980	3425.4	9.52	9.70	472	411	57.0	58.3	387	188788	127	34.9	1094	1548	1.62	1.75	1.69	5.23	9.67	8.70	D
207	0201	3439.4	4.61	3.76	4.90	89	45.0	2980	3425.7	9.53	9.72	473	416	57.1	58.4	385	189140	128	35.0	1074	1547	1.62	1.69	1.63	5.23	9.67	8.70	D
208	0205	3439.7	4.48	4.17	4.90	89	44.1	2980	3425.9	9.52	9.71	473	511	57.2	58.8	381	189502	128	35.0	1364	1546	1.62	1.69	1.63	5.23	9.68	8.70	D
209	0207	3440.0	6.92	4.47	4.74	90	43.5	2980	3426.1	9.52	9.71	475	397	57.2	58.8	379	189717	128	35.1	674	1544	1.63	1.56	1.50	5.23	9.68	8.70	D
210	0214	3440.3	2.77	3.60	4.83	89	46.0	2980	3426.7	9.54	9.74	474	540	57.4	59.0	379	190299	129	35.2	2397	1544	1.63	1.85	1.79	5.23	9.68	8.70	D
211	0219	3440.6	3.73	4.30	4.76	88	45.2	2990	3427.1	9.50	9.73	474	521	57.5	59.3	377	190770	129	35.3	1582	1544	1.63	1.75	1.69	5.23	9.68	8.70	D
212	0224	3440.9	3.73	4.31	4.84	89	46.2	2990	3427.6	9.52	9.74	475	546	57.7	59.0	374	191205	129	35.4	1601	1544	1.64	1.77	1.71	5.23	9.68	8.70	D
213	0229	3441.2	3.33	4.53	5.06	89	44.9	3000	3427.8	9.52	9.74	475	514	57.7	59.0	373	191608	129	35.4	1370	1543	1.64	1.78	1.72	5.23	9.68	8.70	D
214	0234	3441.5	3.76	4.45	4.92	89	45.8	2990	3428.4	9.53	9.74	475	534	57.8	58.8	374	192039	130	35.5	1233	1542	1.64	1.76	1.70	5.23	9.68	8.70	D
215	0239	3441.8	3.08	4.46	4.90	89	44.4	2980	3429.2	9.56	9.73	475	538	57.9	59.1	369	192566	130	35.6	1480	1542	1.65	1.80	1.74	5.23	9.68	8.70	D
216	0245	3442.1	3.75	4.32	4.83	89	44.2	2960	3429.7	9.56	9.74	471	524	57.9	59.2	370	193025	130	35.7	1574	1543	1.65	1.74	1.68	5.24	9.68	8.70	D
217	0249	3442.4	3.32	4.33	4.77	89	45.2	2960	3430.1	9.55	9.74	473	477	58.0	59.5	368	193439	131	35.8	1396	1541	1.66	1.79	1.73	5.24	9.68	8.70	D
218	0254	3442.7	4.22	4.52	5.10	88	45.6	2930	3430.7	9.59	9.74	469	600	58.1	59.4	369	193837	131	35.8	1322	1541	1.66	1.72	1.66	5.24	9.68	8.70	D
219	0300	3443.0	3.05	4.47	5.07	86	47.7	2940	3431.4	9.61	9.73	468	461	58.2	59.4	369	194344	131	35.9	2611	1541	1.66	1.83	1.77	5.24	9.68	8.70	D
220	0304	3443.3	4.38	4.56	4.98	87	44.7	2960	3431.8	9.60	9.75	471	573	58.2	59.4	367	194693	132	36.0	1138	1540	1.66	1.69	1.64	5.24	9.68	8.70	D
221	0308	3443.6	4.67	4.55	4.99	89	44.4	2960	3432.2	9.60	9.78	469	522	58.3	59.1	364	195050	132	36.1	1048	1539	1.67	1.68	1.62	5.24	9.68	8.70	D
222	0314	3443.9	2.66	4.52	5.01	88	45.3	2970	3432.8	9.61	9.78	471	542	58.3	59.0	365	195631	132	36.2	1884	1539	1.67	1.85	1.79	5.24	9.68	8.70	D
223	0315	3444.2	6.31	4.56	4.70	87	43.3	2960	3432.9	9.61	9.78	472	507	58.3	59.0	359	195679	133	36.2	875	1536	1.67	1.62	1.57	5.24	9.68	8.70	D
224	0320	3444.5	3.58	4.55	4.90	88	46.6	2940	3433.4	9.61	9.80	471	506	58.3	59.4	358	196116	133	36.3	506	1536	1.68	1.78	1.72	5.24	9.69	8.70	D
225	0327	3444.9	2.45	4.31	4.81	87	45.0	2960	3434.2	9.60	9.80	470	542	58.4	59.7	356	196775	133	36.4	1579	1537	1.68	1.86	1.81	5.24	9.69	8.70	D
226	0336	3445.2	2.04	4.33	4.63	89	45.1	2970	3435.3	9.60	9.80	471	485	58.4	59.9	363	197562	133	36.6	2324	1539	1.69	1.92	1.87	5.24	9.69	8.70	D
227	0341	3445.5	3.68	4.34	4.62	90	45.3	2970	3435.9	9.60	9.78	472	438	58.1	60.4	366	197998	134	36.6	1352	1539	1.69	1.76	1.70	5.25	9.69	8.70	D
228	0348	3445.8	2.83	4.32	4.71	89	45.2	2970	3436.6	9.58	9.77	472	425	57.5	60.2	374	198579	134	36.7	2025	1540	1.69	1.83	1.77	5.25	9.69	8.70	D
229	0406	3446.1	2.13	4.14	4.67	89	45.8	3020	3438.2	9.58	9.73	470	562	56.0	59.7	401	199366	134	36.9	2362	1541	1.70	1.92	1.86	5.25	9.69	8.70	D
230	0413	3446.7	3.42	3.06	4.51	91	46.3	3010	3438.7	9.58	9.73	472	488	56.0	59.7	397	199862	135	37.0	4990	1538	1.70	1.80	1.74	5.25	9.69	8.70	D
231	0417	3447.0	5.35	4.34	5.35	89	45.4	3010	3439.0	9.59	9.69	473	459	55.3	59.2	402	200195	135	37.0	1849	1537	1.71	1.65	1.59	5.25	9.70	8.70	D
232	0425	3447.3	1.85	4.30	4.87	89	45.5	3010	3439.8	9.61	9.74	473	406	54.5	58.9	416	200902	136	37.2	1544	1538	1.71	1.95	1.90	5.25	9.70	8.70	D
233	0431	3447.6	3.03	4.39	4.65	90	46.6	3020	3440.3	9.61	9.76	473	409	53.8	59.3	431	201439	136	37.3	1646	1538	1.72	1.83	1.77	5.25	9.70	8.70	D
234	0438	3447.9	2.59	4.38	4.67	89	47.3	3020	3440.6	9.62	9.78	473	405	53.0	59.2	470	202119	136	37.4	2151	1540	1.72	1.88	1.82	5.25	9.70	8.70	D
235	0445	3448.2	2.59	4.13	4.56	90	46.9	3020	3441.0	9.66	9.77	473	499	52.4	58.9	499	202746	136	37.5	1941	1540	1.73	1.88	1.82	5.25	9.70	8.70	D
236	0456	3448.5	1.58	4.30	4.69	89	47.6	3010	3441.7	9.64	9.81	473	556	50.8	58.9	513	203688	137	37.7	3855	1543	1.73	2.03	1.97	5.25	9.71	8.70	D
237	0502	3448.8	2.94	4.41	4.75	90	45.3	3010	3442.1	9.60	9.80	474	515	50.3	58.9	510	204240	137	37.8	1604	1543	1.74	1.82	1.76	5.26	9.71	8.70	D
238	0511	3449.1	2.12	4.42	4.73	88	43.3	3010	3442.6	9.58	9.83	475	547	50.0	58.1	500	205003	137	37.9	1895	1545	1.74	1.88	1.82	5.26	9.72	8.70	D
239	0523	3449.4	1.49	4.38	4.71	89	45.6	3020	3443.4	9.60	9.83	476	453	51.0	57.7	501	206096	138	38.1	2669	1549	1.75	2.01	1.95	5.26	9.74	8.70	D
240	0531	3449.7	2.55	4.38	4.72	90	46.5	3010	3443.9	9.60	9.86	477	598	51.3	57.8	496	206775	138	38.3	2245	1551	1.76	1.87	1.81	5.26	9.74	8.70	D
241	0539	3450.0	1.97	4.37	4.67	90	44.6	3000	3444.6	9.60	9.84	477	520	51.9	57.9	501	207557	138	38.4	3936	1552	1.76	1.92	1.86	5.26	9.74	8.70	D
242	0546	3450.4	2.88	4.36	4.67	90	44.9	2990	3444.9	9.60	9.84	477	561	52.3	57.8	489	208160	139	38.5	2067	1553	1.77	1.82	1.75	5.26	9.74	8.70	D
243	0555	3450.7	2.01	4.30	4.58	90	45.3	3010	3445.3	9.58	9.70	479	556	52.5	58.2	468	208980	139	38.7	2650	1556	1.78	1.93	1.86	5.26	9.74	8.70	D
244	0603	3451.0	2.26	4.34	4.50	90	44.7	3010	3445.7	9.59	9.70	479	667	52.6	58.0	465	209707	139	38.8	2445	1557	1.78	1.88	1.82	5.26	9.74	8.70	D

AMOCO AUST. Tilana No.1 329251

Data Printed at time 08:03 Date Oct 28 [illegible]5
Data Recorded at time 06:10 Date Oct 19 [illegible]5

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
245	0610	3451.3	2.29	4.25	4.56	91	45.2	3010	3446.1	9.56	9.63	480	725	52.9	58.1	468	210326	140	38.9	1860	1557	1.79	1.89	1.83	5.26	9.74	8.70
246	0617	3451.6	2.56	4.28	4.52	91	45.2	3020	3446.3	9.57	9.57	479	622	53.2	56.2	469	210995	140	39.0	1936	1558	1.79	1.86	1.79	5.26	9.74	8.70
247	0626	3451.9	2.03	4.28	4.57	91	44.6	3010	3446.5	9.59	9.53	481	596	53.2	57.5	473	211810	140	39.2	2538	1560	1.80	1.92	1.85	5.26	9.74	8.70
248	0633	3452.2	2.62	4.33	4.56	91	45.1	3020	3447.2	9.60	9.50	482	623	53.6	57.4	466	212442	140	39.3	1938	1561	1.80	1.85	1.79	5.27	9.73	8.70
249	0640	3452.5	2.50	4.24	4.47	91	45.6	3010	3447.5	9.53	9.48	481	527	54.1	57.2	460	213107	141	39.4	2116	1562	1.81	1.87	1.81	5.27	9.73	8.70
250	0646	3452.8	3.04	4.29	4.54	91	45.2	3010	3447.8	9.55	9.47	480	528	54.5	57.2	456	213597	141	39.5	1572	1562	1.81	1.81	1.74	5.27	9.73	8.70
251	0654	3453.1	1.90	4.38	4.61	91	45.6	3010	3448.3	9.56	9.68	479	545	55.2	56.7	451	214381	141	39.7	2301	1563	1.82	1.95	1.89	5.27	9.73	8.70
252	0705	3453.4	1.77	4.43	4.72	91	46.1	2980	3448.6	9.55	9.66	478	419	55.6	56.4	447	215300	142	39.8	2971	1566	1.82	1.98	1.91	5.27	9.73	8.70
253	0714	3453.7	1.87	4.47	5.17	91	46.0	2980	3448.9	9.52	9.56	478	442	55.9	55.6	423	216192	142	40.0	2994	1568	1.83	1.96	1.90	5.27	9.72	8.70
254	0726	3454.0	1.63	4.52	5.20	91	45.2	3000	3449.3	9.48	9.53	479	423	55.7	55.6	413	217204	142	40.2	2962	1571	1.84	1.99	1.92	5.27	9.72	8.70
255	0733	3454.3	2.42	4.20	4.98	90	45.3	3000	3449.5	9.49	9.51	478	354	55.7	55.4	412	217830	143	40.3	2024	1572	1.84	1.87	1.81	5.27	9.72	8.70
256	0740	3454.6	2.58	4.51	5.13	90	45.8	3000	3449.8	9.51	9.53	478	430	55.6	55.6	415	218521	143	40.4	1857	1573	1.85	1.87	1.80	5.27	9.70	8.70
257	0747	3454.9	2.90	4.51	5.07	91	48.6	2980	3450.1	9.50	9.55	476	402	55.6	55.9	410	219143	143	40.5	2715	1574	1.85	1.87	1.81	5.27	9.70	8.70
258	0802	3455.2	1.11	4.66	5.26	90	44.9	2980	3450.6	9.48	9.70	477	447	55.6	56.6	413	220497	144	40.8	4230	1579	1.86	2.10	2.04	5.28	9.69	8.70
259	0808	3455.5	2.85	4.75	5.30	90	44.6	2980	3450.8	9.50	9.69	477	463	55.2	56.8	411	221075	144	40.9	1889	1579	1.87	1.83	1.76	5.28	9.68	8.70
260	0821	3455.8	2.14	4.06	6.83	85	44.3	2980	3451.2	9.59	9.66	475	433	55.3	57.4	414	221336	144	40.9	3101	1578	1.87	1.91	1.84	5.28	9.67	8.70
261	0829	3456.1	.49	2.76	7.72	88	45.5	2950	3451.5	9.57	9.74	476	459	55.3	57.7	411	222076	144	41.1	9925	1579	1.88	2.34	2.28	5.28	9.67	8.70
262	0850	3456.4	.61	4.27	7.75	92	43.7	3030	3452.4	9.61	9.63	483	438	56.3	58.1	405	223702	145	41.4	$	1587	1.89	2.26	2.20	5.28	9.65	8.70
263	0912	3456.8	.89	3.63	7.62	86	43.8	3010	3453.5	9.66	9.62	482	503	57.1	58.2	403	225676	145	41.8	5483	1596	1.90	2.14	2.08	5.28	9.65	8.70
+ Circulate returns, pull out of hole at 3457m.																											
+ NB#18 SMITH F3 12.25" with 3x14 jets. Start depth 3456.5m.																											
	Date	Oct 20 '85																									
270	0234	3456.8	2.48	3.39	4.34	88	31.0	2980	3456.4	9.84	9.62	584	690	34.5	48.0	340	703	.30	.1	2557	85077	.01	1.64	1.65	5.28	9.81	8.70
271	0246	3457.1	1.55	3.63	4.64	87	42.2	2990	3456.4	9.80	9.58	588	902	39.1	49.1	337	1728	.61	.3	$	40029	.02	1.93	1.93	5.28	9.82	8.70
272	0255	3457.4	1.87	3.13	4.02	87	34.5	2990	3456.4	9.81	9.75	590	953	41.9	49.9	331	2488	.91	.5	4069	27514	.02	1.76	1.76	5.23	9.84	8.70
273	0258	3457.7	6.34	3.28	3.89	87	39.1	3000	3456.4	9.81	9.75	590	978	41.9	49.9	330	2737	1.21	.5	2785	22508	.03	1.50	1.50	5.28	9.84	8.70
274	0259	3458.0	13.5	4.05	4.75	86	51.3	2990	3456.4	9.72	9.69	590	929	43.2	51.0	329	2842	1.52	.5	373	17076	.03	1.41	1.41	5.28	9.84	8.70
275	0305	3458.3	2.52	3.78	5.22	86	49.1	3000	3456.4	9.54	9.62	592	765	44.4	52.1	323	3415	1.83	.7	930	14247	.03	1.87	1.88	5.23	9.85	8.70
276	0311	3458.6	3.14	3.56	4.89	87	46.6	3000	3456.4	9.51	9.61	596	750	46.5	53.3	325	3915	2.13	.7	1584	12338	.03	1.78	1.78	5.23	9.86	8.70
277	0317	3458.9	3.04	3.51	5.03	86	47.4	3000	3456.4	9.53	9.61	594	696	47.4	53.8	328	4432	2.44	.8	1681	11000	.04	1.80	1.80	5.28	9.85	8.70
278	0322	3459.2	3.98	3.40	4.63	86	44.6	3000	3456.4	9.52	9.53	593	729	48.5	54.4	330	4827	2.74	.9	1354	9922	.04	1.69	1.69	5.29	9.84	8.70
279	0328	3459.5	3.07	3.31	4.82	86	46.3	3010	3456.4	9.54	9.63	593	749	49.1	54.3	334	5336	3.05	1.0	1521	9095	.05	1.78	1.79	5.28	9.84	8.70
280	0334	3459.8	2.90	3.45	5.06	87	46.1	3000	3456.4	9.50	9.66	593	727	50.0	55.2	337	5914	3.34	1.1	1966	8451	.05	1.80	1.80	5.29	9.83	8.70
281	0338	3460.1	5.22	3.64	4.77	87	47.3	3000	3456.4	9.49	9.59	593	670	50.3	55.8	338	6200	3.66	1.2	1002	7809	.06	1.65	1.65	5.29	9.82	8.70
282	0346	3460.4	2.34	3.26	5.02	86	47.0	3020	3456.4	9.49	9.50	596	676	51.1	56.6	343	6868	3.96	1.3	1747	7365	.06	1.88	1.88	5.29	9.81	8.70
283	0351	3460.7	3.29	3.38	4.68	87	46.0	3010	3456.4	9.48	9.49	594	681	51.5	56.9	347	7372	4.25	1.4	1594	6972	.07	1.77	1.77	5.29	9.80	8.70
284	0357	3461.0	2.83	3.53	4.75	87	46.3	3000	3456.4	9.46	9.17	594	775	52.3	56.8	350	7903	4.57	1.5	1627	6602	.07	1.82	1.82	5.29	9.79	8.70
285	0403	3461.3	3.39	3.53	4.69	87	46.6	3010	3456.4	9.46	9.16	595	964	52.6	56.6	357	8371	4.88	1.6	1606	6281	.08	1.77	1.77	5.29	9.79	8.70
286	0410	3461.6	2.78	3.48	4.70	87	46.7	3010	3456.4	9.46	8.89	596	846	53.0	57.4	361	8960	5.18	1.7	2239	6026	.08	1.83	1.83	5.29	9.78	8.70
287	0414	3461.9	4.23	3.59	4.73	89	47.5	3020	3456.4	9.45	9.00	597	761	53.1	57.5	361	9331	5.49	1.8	1166	5752	.08	1.73	1.73	5.29	9.77	8.70
288	0421	3462.2	2.63	3.28	4.67	88	46.5	3020	3456.5	9.43	9.14	596	613	53.5	58.4	364	9958	5.78	1.9	2091	5563	.09	1.85	1.85	5.30	9.75	8.70
289	0438	3462.5	2.63	3.44	4.22	91	44.2	2920	3457.0	9.48	9.16	584	619	53.5	55.8	412	10114	6.08	1.9	2010	5313	.09	1.85	1.84	5.29	9.74	8.70
290	0439	3462.8	2.90	4.03	4.89	90	44.7	3050	3457.0	9.48	9.16	592	616	53.5	55.8	411	10278	6.39	1.9	4764	5077	.09	1.83	1.82	5.30	9.74	8.70
291	0443	3463.1	5.42	3.14	4.66	92	43.6	3010	3457.0	9.48	9.16	594	599	53.5	55.8	386	10584	6.69	2.0	861	4885	.10	1.62	1.62	5.30	9.74	8.70
292	0450	3463.4	2.56	2.93	7.75	90	44.7	2830	3457.3	9.36	9.34	595	602	53.0	57.2	334	11217	6.98	2.1	2311	4767	.10	1.85	1.85	5.30	9.70	8.70
293	0516	3463.8	1.75	4.09	7.81	80	40.8	2800	3458.6	9.35	9.33	699	554	48.3	58.1	434	12099	7.29	2.3	3745	4690	.11	1.89	1.89	5.30	9.63	8.70
294	0518	3464.1	7.42	4.24	4.91	90	43.8	2850	3458.8	9.39	9.35	611	546	46.6	57.3	448	12271	7.62	2.3	587	4511	.11	1.55	1.55	5.30	9.62	8.70
295	0520	3464.4	7.14	3.51	3.98	87	42.7	2860	3458.8	9.39	9.35	597	545	46.6	57.3	460	12494	7.90	2.4	685	4376	.11	1.54	1.54	5.30	9.62	8.70
296	0530	3464.7	1.94	3.52	4.67	89	43.0	2870	3459.4	9.44	9.34	595	550	46.0	58.2	447	13324	8.23	2.5	2800	4294	.12	1.92	1.92	5.30	9.60	8.70
297	0539	3465.0	1.97	3.58	4.98	91	43.1	2970	3459.9	9.43	9.43	601	643	48.6	58.2	439	14165	8.53	2.7	2495	4232	.13	1.93	1.93	5.30	9.59	8.70

EXLOG AMOCO AUST. Tilana No.1 329252 Data Printed at time 08:07 Date Oct 28 '85 Data Recorded at time 05:57 Date Oct 20 '85 184

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TV	DXC	NX	NXB	ECD	EST FM PR
298	0557	3465.3	2.51	4.89	7.81	75	42.2	2970	3460.8	9.46	9.35	603	630	54.1	58.9	432	14775	8.84	2.8	2302	4175	.13	1.80	1.80	5.30	9.57	8.70
299	0604	3465.6	2.51	3.82	4.90	77	43.3	2950	3461.3	9.49	9.33	603	583	55.5	58.4	425	15337	9.14	2.9	2247	4089	.14	1.82	1.82	5.30	9.57	8.70
300	0612	3465.9	2.15	3.93	4.58	75	43.6	2960	3461.7	9.51	9.29	604	626	56.6	59.0	426	15972	9.45	3.1	2844	4032	.14	1.86	1.86	5.31	9.57	8.70
301	0619	3466.2	2.92	3.83	4.73	75	43.4	2970	3462.0	9.50	9.29	604	590	57.1	58.9	420	16440	9.75	3.2	1781	3960	.15	1.77	1.77	5.30	9.57	8.70
302	0623	3466.5	3.59	3.37	4.53	75	41.4	2980	3462.2	9.51	9.27	604	591	57.7	59.0	420	16793	10.1	3.3	1409	3877	.15	1.69	1.69	5.31	9.57	8.70
303	0629	3466.8	3.40	3.63	4.68	75	43.1	2960	3462.6	9.51	9.25	602	591	57.9	59.4	418	17194	10.4	3.3	1502	3806	.15	1.72	1.72	5.31	9.58	8.70
304	0633	3467.1	3.73	3.54	4.64	75	43.1	2970	3463.0	9.51	9.24	602	573	58.2	59.4	417	17560	10.7	3.4	1531	3737	.16	1.70	1.70	5.31	9.58	8.70
305	0639	3467.4	3.26	3.79	4.68	75	42.2	2970	3463.3	9.51	9.22	604	552	58.6	56.1	416	18005	11.0	3.5	1854	3678	.16	1.72	1.72	5.31	9.58	8.70
306	0645	3467.7	3.47	3.48	4.56	75	40.3	2990	3463.5	9.51	9.39	604	511	58.5	57.2	416	18398	11.3	3.6	1576	3618	.17	1.68	1.68	5.31	9.58	8.70
307	0649	3468.0	3.60	3.59	4.57	75	41.1	2990	3463.6	9.51	9.63	604	423	58.4	56.6	417	18719	11.6	3.7	1303	3552	.17	1.68	1.68	5.31	9.59	8.70
308	0653	3468.3	4.70	3.60	4.85	75	42.0	2990	3463.6	9.51	9.63	604	440	58.4	56.6	418	19024	11.9	3.8	1033	3493	.17	1.61	1.62	5.31	9.59	8.70
309	0657	3468.6	3.89	3.78	4.90	75	43.2	2990	3463.6	9.50	9.65	603	422	58.2	56.2	417	19337	12.2	3.8	1355	3436	.17	1.68	1.68	5.31	9.59	8.70
310	0703	3468.9	3.15	3.81	4.67	74	43.5	2990	3463.7	9.46	9.70	603	498	57.7	59.3	417	19748	12.5	3.9	1701	3385	.18	1.74	1.74	5.32	9.60	8.70
311	0709	3469.2	2.76	3.61	4.72	74	42.9	2990	3464.4	9.44	9.71	603	513	57.7	59.9	414	20240	12.8	4.0	2216	3347	.18	1.77	1.77	5.31	9.61	8.70
312	0715	3469.5	3.41	3.76	4.95	75	41.6	2990	3464.6	9.44	9.73	603	509	58.2	60.3	410	20652	13.1	4.1	1600	3309	.18	1.69	1.70	5.32	9.61	8.70
313	0717	3469.9	7.61	3.43	4.84	74	40.6	2980	3464.6	9.44	9.73	603	518	58.2	60.3	411	20827	13.4	4.2	739	3253	.19	1.45	1.46	5.32	9.61	8.70
314	0719	3470.1	10.3	3.62	4.36	74	41.6	2990	3464.7	9.46	9.72	603	516	58.5	59.2	411	20955	13.7	4.2	460	3185	.19	1.38	1.38	5.32	9.62	8.70
315	0727	3470.5	2.40	3.62	4.82	77	43.1	2980	3464.9	9.46	9.67	603	425	58.9	58.1	410	21536	14.0	4.3	1207	3164	.19	1.82	1.82	5.32	9.62	8.70
316	0732	3470.8	3.55	3.53	4.61	79	41.6	2990	3465.1	9.45	9.62	603	445	59.0	57.9	410	21941	14.3	4.4	1417	3127	.19	1.70	1.70	5.32	9.62	8.70
317	0739	3471.1	2.67	3.79	5.14	79	41.8	3000	3465.2	9.43	9.61	604	453	58.8	57.8	407	22478	14.6	4.5	2093	3097	.20	1.78	1.78	5.32	9.62	8.70
318	0742	3471.4	5.40	3.36	4.51	79	40.9	3010	3465.2	9.41	9.63	605	433	58.8	58.1	406	22745	14.9	4.6	1025	3054	.20	1.57	1.57	5.32	9.63	8.70
319	0743	3471.7	12.6	3.42	4.68	79	42.0	3000	3465.2	9.41	9.63	604	463	58.8	58.1	404	22858	15.2	4.6	376	3000	.20	1.34	1.34	5.32	9.63	8.70
320	0745	3472.0	8.89	3.49	5.09	79	40.8	3010	3465.3	9.39	9.66	605	420	58.8	58.2	406	23020	15.5	4.6	416	2955	.20	1.43	1.43	5.32	9.63	8.70
321	0748	3472.3	6.45	3.70	6.14	79	42.1	3000	3465.5	9.39	9.66	605	449	58.8	58.2	405	23241	15.8	4.7	788	2909	.21	1.53	1.53	5.32	9.63	8.70
322	0758	3472.6	9.82	4.06	6.56	76	38.4	2890	3465.7	9.42	9.72	587	453	58.8	59.7	412	23413	16.2	4.7	566	2869	.21	1.36	1.36	5.33	9.62	8.70
323	0758	3472.9	5.38	4.50	6.62	73	41.7	2960	3465.7	9.42	9.72	592	426	58.8	59.7	410	23450	16.5	4.7	1025	2820	.21	1.57	1.57	5.33	9.62	8.70
324	0934	3473.2	5.43	4.48	7.93	74	30.8	2960	3471.6	9.58	9.67	607	549	61.5	62.0	365	23683	16.8	4.8	1630	2784	.21	1.42	1.42	5.33	9.63	8.70
325	0939	3473.5	4.16	6.19	7.85	77	13.5	3040	3472.2	9.58	9.63	634	530	61.6	62.5	364	23987	17.1	4.8	1545	2749	.21	1.22	1.22	5.33	9.64	8.70
326	0947	3473.8	2.35	5.87	7.93	80	17.1	3030	3473.0	9.57	9.67	605	486	61.8	61.7	363	24563	17.4	5.0	1892	2738	.22	1.42	1.42	5.33	9.64	8.70
327	0949	3474.1	8.80	4.38	7.48	88	25.2	3050	3473.1	9.57	9.67	606	499	61.8	61.7	365	24740	17.7	5.0	598	2701	.22	1.27	1.27	5.33	9.64	8.70
328	0952	3474.4	5.24	4.16	4.84	83	36.2	3060	3473.1	9.56	9.63	608	532	61.8	62.0	367	25017	18.0	5.1	2892	2671	.22	1.53	1.53	5.33	9.65	8.70
329	1212	3475.0	3.41	3.87	7.93	81	18.5	3040	3474.7	9.58	10.0	605	542	63.8	65.2	357	25468	18.2	5.2	2133	2660	.23	1.23	1.23	5.33	9.71	8.70
330	1217	3475.3	3.58	3.67	5.77	85	13.0	3040	3474.7	9.57	10.0	606	568	63.7	64.9	361	25974	18.9	5.2	1661	2588	.23	1.24	1.24	5.34	9.72	8.70
331	1223	3475.7	3.27	3.46	7.57	87	20.1	3060	3474.7	9.59	10.1	604	518	63.6	65.0	362	26385	19.2	5.3	1649	2574	.23	1.41	1.41	5.33	9.72	8.70
332	1230	3476.0	2.55	3.96	7.77	84	23.1	3030	3474.7	9.60	10.2	605	522	63.9	64.9	367	26980	19.5	5.4	2047	2565	.24	1.51	1.51	5.34	9.73	8.70
333	1233	3477.3	2.72	4.04	7.67	79	24.5	3030	3474.7	9.56	10.1	605	517	64.2	64.9	368	27244	20.9	5.5	1718	2408	.24	1.50	1.50	5.34	9.73	8.70
334	1242	3477.8	3.05	3.91	7.69	85	26.1	3030	3474.7	9.58	10.2	606	536	64.7	65.3	368	28009	21.3	5.7	1706	2394	.25	1.52	1.52	5.34	9.74	8.70
335	1246	3478.1	4.44	3.54	3.86	83	30.0	3030	3474.7	9.58	10.2	607	545	64.9	65.1	367	28371	21.6	5.7	1110	2374	.25	1.49	1.49	5.34	9.74	8.70
336	1252	3478.4	3.45	3.46	3.82	88	31.5	3040	3474.7	9.58	10.2	608	539	65.0	64.7	367	28834	21.9	5.8	1832	2361	.26	1.58	1.57	5.34	9.74	8.70
337	1254	3479.4	3.24	3.06	3.27	88	31.7	3040	3474.7	9.58	10.2	608	556	65.1	65.0	367	29018	22.1	5.8	1661	2357	.26	1.60	1.59	5.34	9.74	8.70
338	1257	3479.6	3.56	3.02	3.24	88	32.8	3040	3474.7	9.57	10.2	607	536	65.2	65.1	366	29337	23.2	5.9	1526	2257	.26	1.59	1.58	5.35	9.75	8.70
339	1301	3479.9	5.15	3.13	3.47	88	37.2	3050	3477.0	9.57	10.2	608	550	65.3	64.8	366	29649	23.5	6.0	881	2241	.26	1.55	1.54	5.35	9.74	8.70
340	1303	3480.2	10.9	3.24	3.48	88	47.5	3030	3477.0	9.57	10.2	607	571	65.3	64.8	366	29797	23.8	6.0	456	2218	.26	1.45	1.45	5.35	9.74	8.70
341	1307	3480.5	4.19	3.70	4.69	88	45.4	3020	3477.0	9.57	10.2	606	567	65.4	64.7	372	30171	24.1	6.1	2189	2205	.27	1.70	1.70	5.35	9.74	8.70
342	1311	3480.8	4.07	3.90	4.65	87	45.0	3020	3477.0	9.58	10.4	606	574	65.1	64.7	376	30561	24.4	6.1	1241	2193	.27	1.71	1.70	5.35	9.74	8.70
343	1315	3481.1	5.01	3.78	4.35	87	44.5	3030	3477.0	9.58	10.4	605	572	64.6	64.9	379	30878	24.7	6.2	1016	2178	.27	1.64	1.64	5.35	9.74	8.70
344	1321	3481.4	3.08	3.72	7.40	85	45.3	3000	3477.0	9.59	10.4	605	574	63.9	65.3	387	31374	25.0	6.3	1920	2171	.28	1.78	1.78	5.35	9.74	8.70
345	1325	3481.7	5.03	3.77	4.62	86	44.6	3010	3477.0	9.59	10.4	604	583	63.5	65.4	391	31687	25.3	6.4	998	2157	.28	1.64	1.63	5.35	9.74	8.70
346	1328	3482.0	4.69	3.43	4.27	87	44.8	3000	3477.0	9.59	10.4	604	623	63.5	65.4	395	32023	25.6	6.4	1148	2144	.28	1.66	1.66	5.36	9.74	8.70
347	1333	3482.3	4.24	3.30	3.67	90	44.8	3010	3477.0	9.60	10.4	604	605	63.2	65.5	400	32408	25.9	6.5	1301	2133	.29	1.70	1.69	5.36	9.74	8.70

AMOCO AUST. Tilana No.1

329253

Data Printed at time 03:11 Date Oct 28 '85
Data Recorded at time 13:37 Date Oct 28 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
348	1337	3482.6	4.79	3.41	3.77	87	45.0	3020	3477.0	9.60	10.4	604	596	63.2	65.5	403	32739	26.2	6.6	1025	2120	.29	1.66	1.65	5.36	9.74	8.70
349	1341	3483.0	4.51	3.15	4.00	87	46.5	3010	3477.0	9.59	10.4	604	597	63.1	65.7	407	33110	26.5	6.6	1131	2111	.29	1.69	1.69	5.36	9.74	8.70
350	1346	3483.3	3.81	3.28	4.18	87	45.0	3010	3477.0	9.60	10.3	603	599	63.1	65.8	412	33528	26.8	6.7	1260	2100	.30	1.73	1.72	5.36	9.74	8.70
351	1349	3483.6	5.76	3.37	3.77	89	43.9	2970	3477.0	9.60	10.3	600	599	63.1	65.8	414	33793	27.1	6.8	851	2086	.30	1.60	1.59	5.36	9.74	8.70
352	1400	3484.6	3.71	3.51	4.03	88	45.2	2980	3477.0	9.60	10.2	595	587	63.1	65.9	456	34069	28.2	6.8	1263	2080	.30	1.75	1.74	5.36	9.69	8.70
353	1407	3485.1	4.21	3.42	4.09	88	44.7	2910	3477.0	9.62	10.2	591	554	62.9	65.3	445	34296	28.7	6.9	1346	1992	.30	1.71	1.69	5.36	9.74	8.70
354	1410	3485.4	4.85	3.51	4.35	89	46.6	2970	3477.5	9.62	10.3	599	543	62.3	64.5	444	34631	29.0	6.9	3203	1981	.31	1.68	1.67	5.37	9.74	8.70
355	1415	3485.7	4.06	3.37	5.09	88	46.4	2960	3478.0	9.60	10.2	598	554	62.0	64.3	445	35020	29.3	7.0	1573	1973	.31	1.73	1.72	5.37	9.74	8.70
356	1420	3486.0	3.69	3.46	5.16	88	47.6	2970	3478.4	9.60	10.2	600	525	61.8	65.3	449	35458	29.6	7.1	2044	1967	.31	1.77	1.76	5.37	9.74	8.70
357	1425	3486.3	3.69	4.56	7.64	85	47.9	2970	3478.7	9.60	10.1	599	563	61.9	65.8	453	35881	29.9	7.2	1358	1961	.32	1.76	1.76	5.37	9.74	8.70
358	1428	3486.6	5.06	3.19	6.32	90	46.9	2970	3478.9	9.60	10.1	600	539	61.9	65.8	459	36201	30.2	7.2	990	1951	.32	1.68	1.67	5.37	9.74	8.70
359	1453	3486.9	1.22	3.76	7.90	85	42.1	3010	3479.9	9.62	10.1	603	536	62.7	65.6	486	37504	30.5	7.5	$	1977	.33	2.00	1.99	5.37	9.74	8.70
360	1459	3487.2	2.68	2.84	5.37	86	21.9	3010	3480.2	9.62	10.2	604	478	62.8	65.4	493	38042	30.8	7.6	1781	1973	.34	1.48	1.48	5.37	9.74	8.70
361	1503	3487.5	4.42	2.98	3.53	87	25.5	3010	3480.7	9.62	10.2	603	515	62.8	65.4	498	38400	31.1	7.7	1166	1964	.34	1.42	1.42	5.37	9.74	8.70
362	1507	3487.8	4.86	3.07	3.64	87	30.2	3000	3481.0	9.62	10.1	603	470	62.9	65.2	502	38724	31.4	7.7	1019	1955	.34	1.47	1.46	5.37	9.75	8.70
363	1511	3488.1	4.24	3.18	3.99	96	35.4	3000	3481.3	9.61	10.1	603	505	62.9	65.4	509	39094	31.7	7.8	1562	1948	.35	1.57	1.56	5.37	9.75	8.70
364	1514	3488.4	6.69	3.52	4.24	86	41.3	3000	3481.6	9.61	10.1	603	520	62.9	65.4	513	39315	32.0	7.8	811	1936	.35	1.52	1.51	5.38	9.75	8.70
365	1517	3488.7	4.96	3.40	4.15	86	41.5	2990	3481.7	9.61	10.2	601	525	62.9	65.0	517	39631	32.3	7.9	1176	1927	.35	1.60	1.60	5.38	9.75	8.70
366	1521	3489.1	5.19	3.31	4.35	86	44.6	3000	3482.1	9.60	10.2	602	469	62.9	65.1	520	39947	32.6	8.0	951	1919	.35	1.63	1.62	5.38	9.75	8.70
367	1524	3489.4	5.39	3.31	4.37	86	45.4	2990	3482.4	9.60	10.1	602	473	62.8	65.2	522	40237	32.9	8.0	977	1910	.36	1.63	1.62	5.38	9.75	8.70
368	1529	3489.7	4.04	3.27	4.26	86	47.9	2980	3482.7	9.60	10.1	601	552	62.9	65.7	523	40624	33.2	8.1	1231	1904	.36	1.74	1.73	5.38	9.75	8.70
369	1533	3490.0	4.21	3.09	4.11	86	47.2	2980	3483.1	9.59	10.2	601	509	63.2	64.7	524	40980	33.5	8.2	1210	1896	.36	1.72	1.71	5.38	9.75	8.70
370	1536	3490.3	6.28	3.19	4.27	87	47.9	2980	3483.3	9.59	10.2	602	493	63.2	64.7	522	41232	33.8	8.2	784	1887	.37	1.61	1.60	5.38	9.75	8.70
371	1542	3490.6	3.02	3.18	4.10	89	47.3	2980	3483.8	9.59	10.2	602	578	63.8	65.3	523	41767	34.1	8.3	1644	1884	.37	1.83	1.82	5.38	9.75	8.70
372	1545	3490.9	6.44	3.23	3.93	88	47.0	2990	3484.1	9.59	10.2	602	540	64.4	64.3	522	42023	34.4	8.3	906	1876	.37	1.60	1.59	5.38	9.76	8.70
373	1549	3491.2	3.55	3.22	3.70	89	47.4	2980	3484.3	9.59	10.2	603	543	64.6	64.7	521	42433	34.7	8.4	1413	1870	.38	1.78	1.77	5.38	9.76	8.70
374	1557	3491.5	2.56	3.16	4.23	89	47.1	2960	3484.9	9.59	10.2	601	554	65.1	65.5	523	43059	35.0	8.5	2899	1871	.38	1.87	1.86	5.38	9.75	8.70
375	1602	3491.8	3.56	3.24	4.24	88	47.0	2970	3485.3	9.60	10.2	601	559	65.4	65.5	521	43509	35.3	8.6	1431	1866	.39	1.77	1.76	5.38	9.75	8.70
376	1607	3492.1	3.65	3.25	3.83	88	47.3	2960	3485.6	9.60	10.1	600	546	65.6	65.9	524	43942	35.7	8.7	1527	1862	.39	1.77	1.76	5.39	9.75	8.70
377	1611	3492.4	4.25	3.17	3.88	88	46.0	2980	3485.8	9.61	10.1	602	526	65.8	65.6	522	44316	35.9	8.8	1405	1858	.39	1.71	1.70	5.39	9.75	8.70
378	1614	3492.7	5.98	3.15	4.12	89	46.5	2990	3486.0	9.61	10.1	603	515	66.0	65.4	524	44585	36.3	8.8	829	1847	.40	1.62	1.61	5.39	9.75	8.70
379	1618	3493.0	4.66	3.08	4.19	88	47.2	2980	3486.3	9.61	10.1	603	547	65.9	65.7	524	44933	36.6	8.9	914	1842	.40	1.70	1.68	5.39	9.75	8.70
380	1622	3493.3	4.40	3.15	4.25	88	47.7	2960	3486.5	9.60	10.2	602	565	65.7	65.9	521	45297	36.9	9.0	1021	1835	.40	1.72	1.71	5.39	9.75	8.70
381	1629	3493.6	2.70	3.02	4.18	98	47.8	2970	3486.6	9.59	10.2	601	538	66.5	65.8	525	45943	37.2	9.1	2192	1837	.41	1.86	1.85	5.39	9.75	8.70
382	1633	3493.9	4.94	3.06	3.41	87	46.6	2960	3486.6	9.60	10.2	601	563	66.5	66.1	523	46237	37.5	9.1	1037	1829	.41	1.67	1.66	5.39	9.75	8.70
383	1649	3494.2	4.00	3.14	3.75	91	48.9	3000	3486.7	9.59	10.1	603	555	66.2	65.3	525	46688	37.8	9.2	1234	1826	.41	1.77	1.76	5.39	9.76	8.70
384	1655	3494.5	3.32	3.31	4.79	90	49.4	2990	3487.0	9.60	10.2	601	554	65.7	65.3	518	47179	38.1	9.3	1437	1823	.42	1.83	1.81	5.39	9.75	8.70
385	1706	3494.8	1.67	3.16	4.63	90	49.4	3020	3487.8	9.59	10.3	603	546	66.0	66.0	514	48160	38.4	9.5	3527	1832	.43	2.03	2.02	5.39	9.75	8.70
386	1709	3495.1	4.93	3.09	4.12	90	49.3	3010	3488.2	9.60	10.2	604	575	65.9	66.5	512	48494	38.7	9.6	1041	1826	.43	1.71	1.70	5.40	9.75	8.70
387	1716	3495.4	2.72	3.67	7.51	89	49.2	2970	3488.8	9.57	10.2	601	558	66.3	66.2	515	49091	39.0	9.7	1914	1826	.44	1.88	1.87	5.40	9.75	8.70
388	1740	3495.8	1.06	4.46	7.88	85	43.7	2930	3490.5	9.59	10.2	596	534	66.5	65.4	518	50669	39.3	10.0	2350	1851	.45	2.07	2.06	5.40	9.74	8.70
389	1748	3496.1	2.28	4.17	6.08	89	45.4	2940	3491.0	9.58	10.2	596	559	66.4	66.5	521	51333	39.6	10.1	2037	1853	.46	1.88	1.87	5.40	9.74	8.70
390	1757	3496.4	2.04	3.47	5.17	89	49.5	2930	3491.5	9.59	10.2	596	613	66.3	65.4	516	52175	39.9	10.3	2531	1859	.46	1.97	1.96	5.40	9.74	8.70
391	1803	3496.7	3.09	3.27	4.19	90	51.4	2990	3491.8	9.57	10.2	602	592	65.9	66.0	515	52677	40.2	10.4	1647	1856	.47	1.88	1.86	5.40	9.74	8.70
392	1807	3497.0	4.42	3.25	4.01	90	50.9	2990	3492.1	9.54	10.2	602	561	65.9	66.3	511	53067	40.5	10.4	1121	1851	.47	1.76	1.75	5.40	9.74	8.70
393	1816	3497.3	2.03	3.22	3.62	91	49.4	2990	3492.9	9.58	10.2	603	611	66.0	65.9	514	53875	40.8	10.6	2545	1855	.48	1.98	1.96	5.40	9.73	8.70
394	1820	3497.6	4.10	3.22	3.81	90	48.8	2990	3493.1	9.59	10.2	603	548	66.0	66.4	512	54220	41.1	10.7	1127	1849	.48	1.76	1.75	5.40	9.73	8.70
395	1825	3497.9	3.53	3.33	4.56	91	49.4	2990	3493.4	9.60	10.2	603	548	66.1	66.6	513	54686	41.5	10.7	1239	1846	.49	1.82	1.80	5.40	9.73	8.70
396	1835	3498.2	1.80	3.24	4.09	91	50.0	2990	3493.7	9.59	10.2	604	604	66.4	66.3	513	55633	41.7	10.9	2442	1854	.49	2.02	2.01	5.41	9.73	8.70
397	1844	3498.5	2.02	3.30	4.70	90	51.5	2980	3494.1	9.58	10.2	603	605	66.3	66.8	512	56425	42.1	11.1	2427	1858	.50	2.01	1.99	5.41	9.73	8.70

AMOCO AUST. Tilana No.1 329254 Data Printed at time 08:15 Date Oct 28 '85
Data Recorded at time 18:51 Date Oct 20 '85 186

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	HX	HKB	ECD	EST FM PR
398	1851	3498.8	2.66	3.28	4.75	90	49.1	2990	3494.4	9.58	10.1	603	576	66.3	66.6	510	57054	42.3	11.2	1783	1859	.51	1.89	1.88	5.41	9.73	8.70
399	1855	3499.1	4.62	3.34	4.53	88	48.0	3010	3494.4	9.58	10.1	605	599	66.3	66.5	510	57401	42.7	11.2	1090	1853	.51	1.71	1.70	5.41	9.73	8.70
400	1903	3499.4	2.20	3.13	4.62	88	47.7	3000	3495.0	9.59	10.1	604	586	66.3	66.6	508	58125	43.0	11.4	2172	1857	.52	1.93	1.91	5.41	9.73	8.70
401	1916	3499.7	1.38	3.15	4.58	88	48.5	3000	3495.2	9.58	10.1	603	591	66.1	66.6	507	59274	43.3	11.6	3719	1869	.53	2.07	2.05	5.41	9.72	8.70
402	1926	3500.0	1.90	3.42	4.32	87	48.1	3000	3495.3	9.58	9.99	602	634	66.1	66.7	509	60111	43.6	11.8	2810	1874	.53	1.97	1.96	5.41	9.72	8.70
403	1949	3501.9	5.64	3.53	7.89	87	46.0	2990	3496.2	9.59	9.98	601	564	66.4	67.5	508	61798	45.4	12.1	545	1835	.55	1.63	1.61	5.42	9.73	8.70C
404	1952	3502.2	5.75	3.28	3.75	87	45.1	2990	3496.3	9.58	9.99	602	591	66.5	67.0	509	62047	45.7	12.1	828	1828	.55	1.61	1.60	5.42	9.73	8.70
405	1954	3502.5	7.43	3.27	4.02	88	44.0	3000	3496.5	9.58	9.99	602	601	66.5	67.0	510	62244	46.0	12.2	636	1819	.55	1.53	1.51	5.42	9.73	8.70
406	1955	3502.8	12.8	3.28	3.59	88	45.5	3000	3496.6	9.58	10.0	600	590	66.6	66.3	509	62369	46.3	12.2	463	1811	.55	1.39	1.37	5.42	9.73	8.70
407	2000	3503.1	4.43	3.42	4.56	88	46.3	2990	3496.8	9.57	10.1	600	615	66.6	67.0	509	62748	46.6	12.3	3910	1807	.56	1.70	1.69	5.42	9.73	8.70
408	2011	3503.4	6.23	3.24	4.30	89	45.6	2960	3497.0	9.58	10.0	592	569	66.7	66.9	522	63018	46.9	12.3	806	1799	.56	1.60	1.59	5.42	9.73	8.70
409	2012	3503.7	5.21	3.55	4.67	90	46.3	2980	3497.1	9.58	10.0	598	569	66.7	66.9	517	63136	47.2	12.3	1014	1790	.56	1.65	1.63	5.42	9.73	8.70
410	2013	3504.1	2.95	3.82	4.48	87	46.7	2970	3497.1	9.58	10.0	598	557	66.7	66.9	518	63208	47.6	12.4	1646	1777	.56	1.88	1.86	5.42	9.73	8.70
411	2019	3504.3	2.14	3.40	4.67	87	47.6	3000	3497.5	9.58	10.0	601	575	66.5	66.2	512	63733	47.9	12.5	2150	1779	.56	1.93	1.91	5.42	9.73	8.70
412	2023	3504.6	4.55	3.28	4.15	88	45.0	2990	3497.7	9.57	10.1	600	567	66.3	66.2	512	64086	48.2	12.5	1222	1775	.57	1.68	1.66	5.43	9.73	8.70
413	2026	3504.9	6.25	3.76	4.52	87	45.9	2990	3497.7	9.60	10.1	600	532	66.3	66.8	510	64342	48.5	12.6	799	1769	.57	1.60	1.58	5.43	9.73	8.70
414	2031	3505.2	3.34	3.48	6.26	88	46.9	2990	3497.9	9.59	10.1	600	538	66.3	67.1	511	64819	48.8	12.7	1913	1767	.57	1.79	1.77	5.43	9.73	8.70
415	2035	3505.5	6.10	4.02	7.86	78	45.8	2930	3498.1	9.59	10.2	594	566	66.5	66.7	510	65078	49.1	12.7	1012	1762	.58	1.57	1.56	5.43	9.73	8.70
416	2039	3505.8	3.66	3.69	7.61	87	47.2	3000	3498.2	9.59	10.2	601	597	66.6	67.1	509	65471	49.4	12.8	1215	1758	.58	1.76	1.75	5.43	9.73	8.70
417	2045	3506.1	3.24	3.25	4.36	87	45.1	2993	3498.5	9.59	10.2	602	592	66.7	67.3	508	65964	49.7	12.9	1358	1757	.58	1.77	1.76	5.43	9.73	8.70
418	2050	3506.4	3.84	3.31	4.49	87	45.4	3000	3498.8	9.60	10.2	601	608	66.8	66.7	508	66381	50.0	13.0	1387	1754	.59	1.73	1.71	5.43	9.73	8.70
419	2051	3506.7	13.3	3.44	4.35	87	44.8	3000	3498.9	9.60	10.2	601	546	66.9	66.1	507	66500	50.3	13.0	555	1747	.59	1.37	1.35	5.43	9.73	8.70
420	2057	3507.0	2.82	3.51	5.05	88	46.2	2990	3499.1	9.59	10.2	601	538	66.8	67.2	506	67061	50.6	13.1	1150	1746	.59	1.83	1.81	5.43	9.73	8.70
421	2101	3507.3	5.38	3.41	4.10	88	45.7	3000	3499.2	9.57	10.1	601	579	66.8	67.7	504	67359	50.9	13.1	926	1741	.60	1.64	1.62	5.43	9.73	8.70
422	2107	3507.7	3.17	3.36	3.97	88	46.5	2990	3499.4	9.55	10.1	600	595	66.8	67.3	502	67891	51.2	13.3	1722	1741	.60	1.80	1.78	5.43	9.74	8.70
423	2111	3508.0	4.35	3.35	3.72	88	47.8	2990	3499.5	9.54	10.1	600	559	66.8	67.6	502	68223	51.5	13.3	1052	1737	.60	1.72	1.71	5.44	9.74	8.70
424	2116	3508.3	3.67	3.22	3.55	88	47.5	2990	3499.6	9.56	10.0	601	567	67.0	67.8	501	68660	51.8	13.4	1605	1735	.61	1.77	1.75	5.44	9.74	8.70
425	2120	3508.6	3.78	3.36	4.30	88	46.0	2980	3499.8	9.57	10.0	599	577	67.1	66.2	501	69083	52.1	13.5	1230	1733	.61	1.74	1.73	5.44	9.74	8.70
426	2128	3508.9	3.61	4.00	7.88	86	38.6	2920	3500.5	9.57	10.0	597	561	67.1	67.3	500	69504	52.4	13.6	1339	1730	.61	1.66	1.64	5.44	9.74	8.70
427	2132	3509.2	4.59	3.49	6.77	86	46.1	2930	3500.7	9.56	9.95	594	563	67.1	67.7	500	69854	52.7	13.6	833	1726	.62	1.68	1.67	5.44	9.74	8.70
428	2137	3509.5	3.90	3.43	4.42	87	47.2	2930	3500.7	9.58	9.89	592	576	67.1	67.8	502	70245	53.0	13.7	1227	1724	.62	1.75	1.73	5.44	9.73	8.70
429	2142	3509.8	4.09	3.44	4.52	87	46.2	2930	3501.3	9.58	9.96	593	590	67.3	67.2	502	70639	53.3	13.8	1191	1721	.62	1.72	1.70	5.44	9.73	8.70
430	2146	3510.1	3.72	3.50	4.69	87	48.0	2990	3501.9	9.58	9.92	600	606	67.2	67.4	501	71053	53.6	13.9	1399	1719	.63	1.77	1.75	5.44	9.73	8.70
431	2152	3510.4	3.42	3.32	4.47	87	46.0	2980	3502.6	9.58	9.83	599	553	67.3	67.6	500	71525	53.9	13.9	1684	1718	.63	1.77	1.75	5.44	9.73	8.70
432	2156	3510.7	3.81	3.27	4.29	87	45.7	3000	3503.1	9.58	9.84	600	587	67.4	68.1	499	71933	54.3	14.0	1307	1715	.64	1.74	1.72	5.44	9.73	8.70
433	2200	3511.0	4.57	3.19	3.57	87	46.2	2980	3503.4	9.59	9.93	599	620	67.4	67.9	497	72279	54.6	14.1	1165	1711	.64	1.69	1.67	5.45	9.73	8.70
434	2207	3511.3	2.62	3.13	3.60	87	45.6	3000	3503.8	9.58	9.91	602	592	67.5	67.9	500	72888	54.9	14.2	1613	1713	.64	1.84	1.82	5.45	9.73	8.70
435	2211	3511.6	5.65	3.13	4.24	87	46.2	2990	3504.0	9.58	9.88	600	589	67.6	67.9	498	73168	55.2	14.3	990	1709	.65	1.63	1.61	5.45	9.73	8.70
436	2215	3511.9	3.76	3.27	4.54	87	47.1	3000	3504.3	9.57	9.87	600	598	67.7	68.2	499	73587	55.4	14.3	1250	1707	.65	1.76	1.74	5.45	9.73	8.70
437	2221	3512.2	3.45	3.14	4.24	87	47.6	3010	3504.7	9.58	9.79	602	594	67.7	68.3	500	74048	55.8	14.4	1436	1705	.65	1.79	1.77	5.45	9.73	8.70
438	2225	3512.5	3.96	3.15	4.41	87	46.0	3010	3505.0	9.60	9.83	602	599	67.8	68.3	499	74448	56.1	14.5	1389	1703	.66	1.73	1.71	5.45	9.73	8.70
439	2229	3512.8	4.92	3.24	4.38	87	46.5	3000	3505.3	9.60	9.83	602	628	67.8	68.3	501	74770	56.4	14.6	1043	1698	.66	1.67	1.65	5.45	9.73	8.70
440	2246	3513.2	4.94	3.29	4.53	87	46.9	2980	3506.0	9.60	9.90	579	590	67.6	67.0	520	75155	56.7	14.6	1303	1697	.66	1.68	1.66	5.45	9.72	8.70
441	2250	3513.4	5.03	3.45	4.36	88	46.4	2990	3506.3	9.60	9.90	598	616	67.6	67.0	507	75442	57.0	14.7	1647	1692	.67	1.67	1.65	5.45	9.73	8.70
442	2255	3513.7	3.54	3.34	4.33	87	45.1	3000	3506.5	9.55	10.0	600	607	66.9	67.0	499	75889	57.3	14.8	1329	1690	.67	1.75	1.73	5.45	9.73	8.70
443	2259	3514.0	4.88	3.40	4.32	87	46.2	3000	3506.7	9.55	10.0	600	620	66.9	67.5	497	76213	57.6	14.9	971	1687	.67	1.67	1.65	5.45	9.73	8.70
444	2303	3514.4	4.56	3.72	7.68	81	45.5	3010	3507.1	9.55	10.1	600	582	67.0	68.1	496	76578	57.9	14.9	933	1684	.68	1.66	1.65	5.46	9.73	8.70
445	2307	3514.6	3.71	3.36	6.67	86	46.4	3010	3507.4	9.54	9.99	600	635	67.2	68.1	496	76964	58.2	15.0	1123	1682	.68	1.75	1.73	5.46	9.73	8.70
446	2314	3515.0	2.89	3.54	7.67	86	47.0	3000	3507.8	9.57	9.98	599	605	67.4	67.8	494	77503	58.5	15.1	1472	1682	.68	1.83	1.81	5.46	9.73	8.70
447	2318	3515.3	4.16	3.76	4.77	86	47.1	3000	3508.1	9.57	9.92	599	612	67.5	68.3	493	77901	58.8	15.2	1286	1680	.69	1.73	1.71	5.46	9.73	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
448	2323	3515.6	3.83	3.30	3.87	87	48.2	3010	3508.3	9.59	9.85	599	600	67.1	68.5	493	78292	59.1	15.3	1234	1678	.69	1.77	1.75	5.46	9.73	8.7
449	2328	3515.9	3.64	3.24	4.00	87	46.8	3010	3508.5	9.58	10.0	599	568	67.7	68.4	494	78728	59.4	15.3	1473	1676	.69	1.76	1.74	5.46	9.72	8.7
450	2332	3516.2	4.94	3.12	3.79	87	46.2	3010	3508.8	9.60	10.0	598	578	67.8	68.2	494	79064	59.7	15.4	1130	1674	.70	1.67	1.65	5.46	9.72	8.7
451	2336	3516.5	4.25	3.32	4.18	87	44.9	3010	3509.0	9.60	9.91	598	601	67.8	68.4	498	79437	60.0	15.5	1183	1671	.70	1.70	1.68	5.46	9.72	8.7
452	2340	3516.8	4.66	3.54	4.35	87	45.4	3000	3509.3	9.60	9.93	596	591	67.9	68.2	490	79762	60.3	15.5	1024	1667	.70	1.68	1.66	5.46	9.72	8.7
453	2344	3517.1	4.12	3.36	4.22	87	46.6	3000	3509.6	9.59	9.97	596	586	67.7	68.1	488	80146	60.7	15.6	1129	1665	.71	1.72	1.70	5.46	9.73	8.7
454	2348	3517.4	4.45	3.37	4.38	87	46.0	3000	3509.8	9.58	9.92	596	596	67.5	68.4	488	80516	60.9	15.7	1250	1663	.71	1.70	1.67	5.47	9.73	8.7
455	2352	3517.7	5.59	3.40	4.48	87	47.7	3010	3510.0	9.57	9.97	596	587	67.4	68.4	490	80791	61.3	15.7	877	1659	.71	1.65	1.63	5.47	9.73	8.7
456	2356	3518.0	4.43	3.32	4.42	87	48.0	3010	3510.3	9.59	9.90	597	608	67.5	68.6	490	81148	61.6	15.8	1087	1656	.71	1.72	1.70	5.47	9.73	8.7
457	2359	3518.3	6.13	3.41	4.48	87	48.1	3010	3510.5	9.60	9.83	597	599	67.6	68.5	489	81405	61.9	15.9	844	1652	.72	1.63	1.60	5.47	9.73	8.7
	Date	Oct 21 '85																									
458	0002	3518.6	4.62	3.52	4.94	87	47.6	3000	3510.7	9.60	9.83	597	636	67.6	68.5	491	81739	62.2	15.9	937	1649	.72	1.70	1.68	5.47	9.73	8.7
459	0005	3518.9	6.12	3.22	4.27	87	48.2	3010	3510.9	9.61	9.70	632	618	67.9	68.1	488	81999	62.5	16.0	847	1645	.72	1.63	1.60	5.47	9.73	8.7
460	0012	3519.2	3.00	3.47	5.83	85	47.4	3010	3511.3	9.62	9.68	598	610	68.0	68.1	491	82526	62.8	16.1	2328	1645	.73	1.82	1.80	5.47	9.73	8.7
461	0015	3519.5	5.77	3.50	4.57	87	47.3	3010	3511.5	9.61	9.79	598	637	68.1	68.2	491	82830	63.1	16.1	912	1642	.73	1.63	1.61	5.47	9.73	8.7
462	0039	3521.4	4.62	3.36	4.61	87	48.6	3010	3512.8	9.63	9.76	599	619	68.7	69.0	490	84390	64.9	16.5	957	1626	.75	1.71	1.69	5.48	9.74	8.7
463	0043	3521.7	3.92	3.20	3.79	87	48.0	3010	3513.2	9.61	9.72	599	621	68.6	68.9	490	85295	65.2	16.6	1199	1624	.75	1.75	1.73	5.48	9.74	8.7
464	0047	3522.0	5.69	3.17	4.49	87	49.7	3010	3513.4	9.63	9.52	598	620	68.3	69.3	490	85595	65.5	16.7	927	1621	.75	1.67	1.64	5.48	9.74	8.7
465	0051	3522.3	4.12	3.28	4.47	87	48.3	3010	3513.7	9.62	9.76	599	603	68.7	69.2	490	85975	65.8	16.7	1194	1619	.76	1.74	1.72	5.48	9.74	8.7
466	0055	3522.6	4.89	3.32	4.35	86	48.0	3020	3514.0	9.62	9.76	599	588	68.7	69.2	489	86275	66.1	16.8	976	1616	.76	1.69	1.66	5.48	9.74	8.7
467	0111	3522.9	3.72	3.33	4.01	80	40.3	2990	3514.5	9.66	10.1	597	646	67.6	67.4	504	86434	66.4	16.8	1139	1612	.76	1.75	1.73	5.48	9.74	8.7
468	0116	3523.2	3.60	3.50	4.71	78	48.8	3030	3514.9	9.65	9.87	603	656	67.8	67.4	493	86771	66.8	16.9	2299	1609	.76	1.76	1.74	5.48	9.75	8.7
469	0120	3523.5	4.69	3.56	3.79	78	46.4	3020	3515.2	9.65	9.87	603	646	67.8	67.4	489	87093	67.1	17.0	1078	1607	.76	1.65	1.63	5.48	9.75	8.7
470	0125	3523.8	3.35	3.69	3.92	78	46.8	3020	3515.4	9.64	10.2	602	627	67.7	68.4	486	87494	67.4	17.1	1324	1606	.77	1.75	1.73	5.49	9.75	8.7
471	0128	3524.1	5.58	3.40	4.18	78	45.8	3020	3515.7	9.64	10.2	601	647	67.7	68.4	486	87750	67.7	17.1	901	1603	.77	1.59	1.57	5.49	9.75	8.7
472	0133	3524.4	3.95	3.46	4.40	78	49.7	3020	3515.9	9.65	10.0	601	649	67.9	68.6	484	88111	68.0	17.2	1431	1602	.77	1.74	1.72	5.49	9.75	8.7
473	0138	3524.7	4.01	3.63	4.21	78	47.9	2990	3516.4	9.65	10.1	599	630	68.1	68.8	485	88482	68.3	17.3	1236	1600	.78	1.71	1.69	5.49	9.76	8.7
474	0143	3525.0	3.86	3.34	4.17	82	47.1	2970	3516.7	9.68	9.86	598	628	68.3	68.7	486	88871	68.6	17.3	1337	1599	.78	1.73	1.70	5.49	9.76	8.7
475	0146	3525.3	5.04	3.37	3.98	86	45.5	2980	3516.9	9.68	9.86	597	643	68.3	68.7	486	89181	68.9	17.4	1032	1597	.78	1.64	1.62	5.49	9.76	8.
476	0149	3525.6	5.84	3.27	4.05	85	46.2	2990	3517.2	9.67	9.95	597	643	68.4	68.8	486	89439	69.2	17.4	807	1593	.78	1.61	1.58	5.49	9.76	8.
477	0153	3525.9	4.23	3.17	4.26	86	47.1	2990	3517.6	9.67	9.82	598	636	68.5	68.8	485	89838	69.5	17.5	1006	1591	.79	1.71	1.69	5.49	9.77	8.7
478	0153	3526.2	4.12	3.19	4.17	86	47.1	2970	3517.9	9.65	9.86	597	634	68.6	69.1	484	90186	69.8	17.6	1158	1589	.79	1.72	1.70	5.49	9.77	8.7
479	0202	3526.5	4.41	3.25	3.89	86	47.4	2980	3518.3	9.67	9.90	597	619	68.7	69.2	485	90547	70.1	17.7	1139	1588	.79	1.70	1.68	5.49	9.77	8.7
480	0206	3526.8	4.11	3.36	4.17	85	46.8	2980	3518.7	9.64	10.0	598	632	68.8	69.1	485	90918	70.4	17.7	1268	1586	.80	1.71	1.69	5.50	9.77	8.7
481	0209	3527.1	6.61	3.34	4.37	85	46.4	3000	3518.9	9.73	10.0	598	637	68.9	69.0	483	91155	70.7	17.8	751	1583	.80	1.57	1.55	5.50	9.78	8.7
482	0213	3527.5	4.79	3.32	3.60	85	49.0	2990	3519.1	9.77	9.92	597	627	68.9	69.0	483	91479	71.0	17.8	1164	1580	.80	1.70	1.67	5.50	9.78	8.7
483	0217	3527.8	4.99	3.24	4.48	85	48.1	2990	3519.4	9.73	9.65	597	635	68.9	69.0	481	91789	71.3	17.9	1061	1578	.80	1.67	1.65	5.50	9.78	8.7
484	0220	3528.1	6.22	3.35	3.49	85	50.1	2990	3519.6	9.73	9.65	599	606	68.9	69.0	480	92038	71.6	18.0	787	1574	.81	1.63	1.60	5.50	9.78	8.7
485	0223	3528.4	4.63	3.31	3.97	85	49.7	2990	3519.9	9.69	9.88	598	647	68.9	68.8	480	92376	71.9	18.0	998	1572	.81	1.71	1.69	5.50	9.79	8.7
486	0228	3528.7	3.97	3.21	4.55	86	50.4	2990	3520.2	9.66	9.86	597	627	68.9	69.1	478	92769	72.2	18.1	1211	1571	.81	1.77	1.74	5.50	9.79	8.7
487	0235	3529.0	3.31	3.74	7.83	85	38.9	2990	3520.8	9.66	10.3	598	617	68.9	69.2	476	93241	72.5	18.2	1708	1570	.82	1.67	1.65	5.50	9.79	8.7
488	0238	3529.3	5.45	3.46	4.31	87	45.8	3000	3521.0	9.63	10.3	599	608	68.9	69.1	477	93531	72.8	18.2	929	1567	.82	1.62	1.60	5.50	9.80	8.7
489	0242	3529.6	4.84	3.23	4.26	87	46.7	3020	3521.3	9.63	10.3	599	613	68.9	69.1	479	93857	73.2	18.3	982	1565	.82	1.67	1.64	5.50	9.80	8.7
490	0247	3529.9	4.06	3.33	4.15	87	45.5	3000	3521.6	9.65	10.2	599	620	68.9	69.0	478	94246	73.5	18.4	1187	1564	.82	1.70	1.68	5.50	9.81	8.7
491	0249	3530.2	8.01	3.25	3.72	87	46.4	3000	3521.9	9.66	10.0	598	597	68.9	68.8	477	94444	73.8	18.4	629	1560	.83	1.52	1.49	5.51	9.81	8.7
492	0253	3530.5	4.14	3.86	4.93	86	48.1	3000	3522.2	9.66	9.96	598	581	68.8	68.9	477	94821	74.1	18.5	1145	1558	.83	1.73	1.70	5.51	9.81	8.7
493	0301	3530.8	2.70	3.31	4.52	87	47.0	3000	3522.3	9.65	9.69	598	623	68.8	69.2	478	95444	74.4	18.6	2033	1560	.83	1.84	1.81	5.51	9.81	8.7
494	0307	3531.1	2.85	3.62	4.46	83	46.5	3000	3522.8	9.65	9.52	598	649	68.9	69.5	477	95941	74.7	18.7	1797	1560	.84	1.80	1.78	5.51	9.82	8.7
495	0313	3531.4	2.68	3.38	4.57	84	45.7	2990	3523.2	9.69	9.67	599	608	69.0	69.3	477	96510	75.0	18.8	1873	1561	.84	1.81	1.78	5.51	9.82	8.
496	0319	3531.7	3.32	3.48	3.90	93	46.1	3010	3523.6	9.63	9.67	600	579	69.1	68.8	476	97047	75.3	18.9	1552	1562	.85	1.78	1.75	5.51	9.82	8.7

EXLOG

AMOCO AUST. Tilana No.1

329256

Data Printed at time 03:23 Date Oct 28 '85
Data Recorded at time 03:22 Date Oct 21 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
497	0322 Date Oct 21 '81	3532.0	5.69	3.30	3.88	94	47.3	3010	3523.8	9.68	9.67	600	599	69.1	68.8	476	97330	75.6	19.0	968	1559	.85	1.65	1.62	5.51	9.82	8.70
498	0331	3532.5	3.75	2.30	2.64	87	48.2	2980	3523.0	9.78	9.84	592	602	68.9	68.8	484	97336	76.1	19.0	1811	1558	.85	1.74	1.72	5.51	9.74	8.70
499	0339	3533.0	3.14	2.96	3.38	86	46.8	2990	3523.0	9.78	9.84	592	600	68.9	68.8	485	97348	76.5	.0	1552	1558	.85	1.81	1.79	5.51	9.74	8.70
500	0339	3533.5	2.79	2.85	3.00	89	45.2	2980	3523.0	9.78	9.84	593	592	68.9	68.8	484	97369	77.0	19.2	1877	1558	.85	1.86	1.83	5.51	9.74	8.70
501	0340	3533.9	2.33	3.03	3.25	89	36.5	2980	3523.0	9.78	9.84	594	606	68.9	68.8	481	97407	77.5	.0	2140	295	.85	1.92	1.89	5.51	9.74	8.70
502	0407	3534.2	3.58	3.43	4.60	91	47.7	2990	3523.0	9.72	9.87	596	631	68.5	68.9	476	99921	77.8	19.5	818	1553	.87	1.79	1.76	5.51	9.77	8.70
503	0410	3534.5	5.24	3.52	5.05	92	45.0	3010	3523.0	9.72	9.76	596	607	68.6	68.9	476	100226	78.0	19.6	936	1551	.87	1.64	1.62	5.51	9.78	8.70
504	0416	3534.8	3.45	3.56	4.68	92	50.1	3010	3523.0	9.79	9.79	597	625	68.7	68.7	475	100711	78.3	19.7	2947	1550	.88	1.82	1.79	5.51	9.79	8.70
505	0426	3535.1	1.77	3.26	4.10	93	47.7	3000	3523.0	9.75	9.72	594	666	68.6	69.3	470	101659	78.6	19.9	2184	1555	.89	1.99	1.96	5.52	9.81	8.70
506	0431	3535.4	3.71	3.21	3.75	92	48.0	3000	3523.0	9.78	9.64	594	682	68.6	69.1	469	102095	78.9	19.9	1325	1554	.89	1.77	1.74	5.52	9.82	8.70
507	0436	3535.7	3.84	3.35	4.37	92	48.4	3000	3523.0	9.71	9.85	595	705	68.7	68.9	443	102547	79.2	20.0	1613	1554	.89	1.76	1.73	5.52	9.83	8.70
508	0438	3536.0	7.72	3.81	4.22	90	49.4	3000	3523.0	9.74	9.78	596	664	68.7	69.3	414	102760	79.5	20.1	644	1550	.90	1.57	1.54	5.52	9.83	8.70
509	0445	3536.3	2.69	3.93	7.75	83	48.4	3000	3525.5	9.68	9.62	593	669	68.3	68.6	362	103317	79.8	20.2	1800	1551	.90	1.84	1.81	5.52	9.83	8.70
510	0450	3536.6	3.62	3.60	4.24	83	47.9	3000	3525.5	9.63	9.71	594	668	66.8	69.4	365	103731	80.2	20.3	1416	1550	.90	1.74	1.72	5.52	9.84	8.70
511	0453	3536.9	5.44	3.64	4.50	83	47.6	3010	3525.5	9.56	9.62	594	643	63.6	69.5	369	104036	80.5	20.3	1040	1548	.91	1.62	1.59	5.52	9.85	8.70
512	0458	3537.2	3.60	3.59	4.96	83	50.1	3020	3525.5	9.49	9.60	593	612	62.2	69.6	380	104423	80.8	20.4	2121	1547	.91	1.77	1.74	5.52	9.85	8.70
513	0503	3537.5	3.64	3.94	4.77	83	49.0	3020	3525.5	9.48	9.58	594	622	61.5	69.4	392	104836	81.1	20.5	1549	1546	.91	1.75	1.72	5.52	9.86	8.70
514	0520	3537.8	3.20	3.67	7.84	87	41.0	3010	3525.5	9.50	9.68	593	598	60.0	68.2	429	105326	81.4	20.6	1603	1547	.92	1.71	1.68	5.52	9.85	8.70
515	0523	3538.1	3.33	4.05	4.71	88	48.9	3020	3525.5	9.46	9.67	593	604	59.8	68.2	435	105554	81.7	20.6	1647	1544	.92	1.74	1.72	5.53	9.85	8.70
516	0528	3538.4	3.13	3.79	4.85	88	49.5	3030	3526.9	9.46	9.69	594	595	59.7	68.2	445	106015	82.0	20.7	1719	1543	.92	1.82	1.79	5.53	9.84	8.70
517	0533	3538.7	3.98	3.73	4.57	88	48.3	3010	3528.5	9.52	9.74	595	593	59.5	67.9	454	106421	82.3	20.8	1205	1542	.93	1.74	1.71	5.53	9.84	8.70
518	0541	3539.1	3.05	4.20	7.95	94	45.0	3040	3528.8	9.51	9.78	597	614	59.4	67.3	473	107038	82.6	20.9	1586	1543	.93	1.80	1.77	5.53	9.83	8.70
519	0545	3539.3	3.67	3.50	5.13	99	47.1	3030	3528.9	9.51	9.78	598	604	59.4	67.3	483	107486	82.9	21.0	1310	1541	.94	1.78	1.75	5.53	9.83	8.70
520	0549	3539.6	4.27	3.55	4.96	99	48.2	3030	3529.0	9.55	9.78	598	619	59.1	67.1	491	107908	83.2	21.0	1216	1540	.94	1.76	1.72	5.53	9.81	8.70
521	0555	3540.0	3.57	3.72	4.76	93	48.3	3000	3529.2	9.57	9.71	593	579	58.9	67.1	493	108432	83.5	21.1	1491	1540	.94	1.80	1.76	5.53	9.80	8.70
522	0604	3540.3	1.84	3.67	6.25	86	48.4	2990	3530.1	9.51	9.64	596	619	59.9	66.9	491	109214	83.8	21.3	2949	1543	.95	1.97	1.94	5.53	9.78	8.70
523	0609	3540.6	3.41	4.12	7.91	93	47.1	2980	3530.3	9.57	9.70	598	632	61.9	66.3	493	109709	84.1	21.4	1578	1543	.95	1.80	1.77	5.53	9.77	8.70
524	0616	3540.9	2.99	3.65	4.61	89	48.3	2980	3530.4	9.57	9.67	595	604	62.8	66.4	493	110248	84.4	21.5	1841	1544	.96	1.84	1.81	5.53	9.76	8.70
525	0626	3541.2	1.80	3.54	4.34	88	48.1	2970	3530.9	9.59	9.75	597	617	64.7	66.7	494	111140	84.7	21.6	2296	1548	.97	1.99	1.95	5.53	9.74	8.70
526	0636	3541.5	1.70	3.13	4.59	91	48.1	2970	3531.4	9.60	9.66	599	620	65.5	67.0	494	112117	85.0	21.8	2872	1553	.98	2.02	1.98	5.54	9.73	8.70
529	0650	3541.8	3.30	3.03	3.22	90	48.0	2970	3532.1	9.74	9.65	600	613	66.4	66.3	500	112696	85.3	21.9	1241	1554	.98	1.82	1.79	5.54	9.71	8.70
530	0705	3542.1	1.20	3.18	4.54	90	47.7	2970	3532.7	9.69	9.55	599	579	66.8	68.4	493	114059	85.6	22.2	4309	1563	.99	2.11	2.08	5.54	9.71	8.70
531	0716	3542.4	1.80	4.02	7.66	89	48.3	2970	3533.0	9.79	9.61	600	612	67.2	67.8	426	114944	86.0	22.3	2764	1567	1.00	1.99	1.96	5.54	9.73	8.70
532	0723	3542.7	2.17	3.56	7.54	85	48.0	2980	3533.5	9.71	9.63	600	601	65.6	67.1	398	115590	86.3	22.5	2368	1569	1.00	1.92	1.89	5.54	9.74	8.70
533	0728	3543.0	3.77	3.16	3.72	88	48.4	2990	3533.8	9.72	9.65	599	551	64.1	67.4	402	116052	86.6	22.5	1351	1568	1.01	1.77	1.74	5.54	9.75	8.70
534	0736	3543.3	2.51	3.12	3.74	88	49.1	3000	3534.1	9.72	9.79	598	565	62.8	67.2	411	116688	86.9	22.7	2171	1570	1.01	1.90	1.86	5.54	9.77	8.70
535	0742	3543.6	2.71	3.23	3.83	86	47.7	3010	3534.5	9.75	9.90	598	518	62.2	66.7	419	117216	87.2	22.8	1952	1570	1.02	1.85	1.81	5.54	9.79	8.70
536	0747	3543.9	3.07	3.62	4.90	82	47.4	3000	3534.8	9.72	9.92	598	488	62.1	66.5	426	117663	87.5	22.9	1671	1570	1.02	1.79	1.76	5.54	9.79	8.70
537	0753	3544.2	3.34	4.14	4.81	81	47.0	2970	3535.1	9.70	9.83	597	540	62.0	66.7	433	118137	87.8	23.0	1714	1570	1.02	1.76	1.72	5.54	9.80	8.70
538	0800	3544.5	2.63	3.93	4.51	82	47.8	2990	3535.4	9.69	9.83	596	553	62.0	66.3	442	118702	88.1	23.1	2493	1571	1.03	1.84	1.81	5.55	9.81	8.70
539	0806	3544.8	2.89	3.89	4.37	82	48.0	2990	3535.7	9.65	9.84	594	531	61.9	66.8	449	119185	88.4	23.2	1645	1571	1.03	1.81	1.78	5.55	9.82	8.70
540	0824	3545.1	1.82	4.23	7.88	82	44.2	2890	3536.3	9.62	9.88	605	556	61.7	66.9	464	120117	88.7	23.3	$	1576	1.04	1.89	1.86	5.55	9.84	8.70
541	0827	3545.6	1.92	5.12	7.82	78	45.0	2976	3536.3	9.62	9.91	595	596	62.3	66.8	468	120244	89.0	23.4	7645	1572	1.04	1.88	1.85	5.55	9.81	8.70
542	0841	3546.0	2.51	3.97	7.82	85	46.9	3050	3536.6	9.63	9.75	603	585	64.2	66.3	461	121203	89.6	23.6	1244	1572	1.05	1.76	1.73	5.55	9.85	8.70
543	0843	3546.3	8.66	4.32	4.68	83	48.0	3050	3536.7	9.63	9.75	603	586	64.2	66.3	461	121379	89.9	23.6	586	1568	1.05	1.49	1.46	5.55	9.85	8.70
544	0846	3546.7	6.39	4.78	5.53	82	47.7	3050	3536.8	9.62	9.81	603	593	64.5	66.3	459	121612	90.2	23.6	734	1566	1.05	1.57	1.54	5.55	9.85	8.70
545	0853	3547.0	2.65	4.15	7.52	88	46.6	3030	3536.9	9.64	9.81	603	584	65.2	66.2	456	122232	90.5	23.8	2301	1567	1.06	1.83	1.80	5.55	9.85	8.70
546	0901	3547.3	2.47	4.36	5.38	87	46.9	3010	3537.1	9.67	9.73	604	622	65.5	66.5	456	122871	90.8	23.9	1868	1568	1.06	1.85	1.82	5.55	9.86	8.70
547	0907	3547.6	2.90	3.85	4.62	86	47.5	3000	3537.4	9.70	9.70	602	623	66.1	66.5	456	123399	91.1	24.0	1688	1569	1.07	1.81	1.78	5.56	9.85	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NX	NXB	ECD	EST FM P
548	0916	3547.9	1.97	3.81	4.63	86	47.1	3020	3537.7	9.83	9.74	605	610	66.4	67.1	455	124215	91.4	24.1	2162	1572	1.07	1.92	1.89	5.56	9.84	8.7
549	0923	3548.2	2.75	3.83	4.47	86	48.4	3000	3538.1	9.83	9.65	605	617	66.8	67.7	456	124787	91.7	24.2	1855	1573	1.08	1.84	1.81	5.56	9.84	8.7
550	0932	3548.5	1.93	3.07	4.78	87	47.7	3000	3538.5	9.94	9.44	604	595	67.4	68.2	457	125605	92.0	24.4	2366	1576	1.09	1.94	1.90	5.56	9.84	8.7
551	0944	3548.8	1.58	2.99	3.93	88	47.1	2990	3539.1	9.96	9.50	602	560	67.9	68.7	459	126606	92.4	24.6	3305	1581	1.09	1.99	1.95	5.56	9.86	8.7
552	0951	3549.1	2.35	3.98	4.51	86	47.3	3010	3539.5	9.94	9.65	601	505	68.2	68.6	458	127278	92.7	24.7	2192	1583	1.10	1.87	1.83	5.56	9.87	8.7
553	0958	3549.4	2.60	3.05	3.52	86	47.5	3000	3539.8	9.78	9.70	600	501	68.6	67.4	457	127882	92.9	24.8	2144	1584	1.10	1.84	1.80	5.56	9.89	8.7
554	1003	3549.7	1.86	3.71	4.58	85	48.7	3010	3540.1	9.75	9.75	601	501	68.7	67.3	457	128714	93.3	25.0	2591	1587	1.11	1.94	1.91	5.56	9.90	8.7
555	1018	3550.0	1.85	4.07	4.46	85	48.1	3030	3540.2	9.73	9.66	603	530	68.4	67.1	460	129547	93.6	25.2	2814	1591	1.12	1.93	1.90	5.56	9.92	8.7
556	1027	3550.3	1.86	3.89	4.31	80	47.9	3030	3540.8	9.68	9.69	603	497	68.0	67.6	460	130262	93.9	25.3	2751	1594	1.12	1.91	1.88	5.56	9.93	8.7
557	1036	3550.6	1.91	3.90	4.49	80	47.2	3030	3541.5	9.65	9.71	603	564	68.1	68.6	462	131036	94.2	25.5	2305	1597	1.13	1.89	1.86	5.56	9.94	8.7
558	1042	3550.9	3.03	3.81	4.77	90	47.4	3030	3541.9	9.64	9.78	603	589	68.3	68.7	461	131581	94.5	25.6	1785	1597	1.13	1.80	1.76	5.57	9.94	8.7
559	1047	3551.9	3.29	3.89	4.50	82	47.5	2860	3542.1	9.61	9.83	601	517	68.7	68.3	460	131761	95.5	25.6	1663	1597	1.14	1.75	1.71	5.57	9.94	8.7
560	1058	3552.1	3.96	3.11	4.57	86	48.0	2930	3542.5	9.63	9.76	596	537	68.7	68.4	462	132167	95.7	25.7	5112	1583	1.14	1.71	1.67	5.57	9.94	8.7
561	1100	3552.4	11.8	4.30	5.45	89	43.9	2960	3542.5	9.60	9.76	595	547	68.5	68.5	462	132307	96.0	25.7	811	1580	1.14	1.37	1.33	5.57	9.95	8.7
562	1100	3552.8	40.0	4.06	4.61	81	45.3	2950	3542.6	9.60	9.76	594	578	68.5	68.5	462	132343	96.3	25.7	121	1575	1.14	1.01	.98	5.57	9.95	8.7
563	1103	3553.1	12.1	3.89	7.80	90	34.4	2950	3542.8	9.56	9.78	595	581	68.5	68.6	459	132477	96.6	25.7	744	1572	1.14	1.27	1.23	5.57	9.95	8.7
564	1108	3553.4	43.2	3.26	3.56	94	43.5	2960	3542.8	9.56	9.78	595	572	68.5	68.6	458	132517	96.9	25.7	118	1567	1.14	1.02	.98	5.57	9.95	8.7
565	1113	3553.7	3.50	3.36	4.41	92	44.5	2950	3543.1	9.57	9.74	596	575	68.6	68.9	456	132932	97.2	25.8	676	1566	1.15	1.72	1.69	5.57	9.95	8.7
566	1115	3554.0	8.39	3.48	4.19	93	46.6	2940	3543.2	9.57	9.74	596	604	63.6	68.9	457	133184	97.5	25.9	594	1563	1.15	1.50	1.47	5.58	9.95	8.7
567	1120	3554.3	3.65	3.42	4.75	87	47.5	3020	3543.4	9.56	9.60	603	606	68.8	68.8	456	133611	97.8	25.9	962	1562	1.15	1.73	1.69	5.58	9.94	8.7
568	1124	3554.6	4.63	3.59	4.18	87	46.8	3010	3543.5	9.57	9.53	602	633	68.9	68.7	455	133954	98.1	26.0	1048	1561	1.15	1.66	1.62	5.58	9.93	8.7
569	1129	3554.9	3.56	3.77	4.83	87	48.6	3010	3543.7	9.58	9.59	603	649	69.0	68.5	453	134396	98.4	26.1	1632	1560	1.16	1.76	1.72	5.58	9.92	8.7
570	1132	3555.2	6.93	4.18	4.70	87	46.9	3010	3543.8	9.58	9.64	603	654	69.0	68.8	453	134625	98.8	26.1	836	1557	1.16	1.55	1.51	5.58	9.92	8.7
571	1136	3555.5	4.55	4.18	4.77	87	46.8	3030	3543.9	9.59	9.64	604	652	69.1	68.6	453	134997	99.1	26.2	1079	1556	1.16	1.67	1.63	5.58	9.90	8.7
572	1141	3555.8	3.22	4.06	4.48	87	48.6	3020	3544.1	9.61	9.60	603	624	69.1	68.7	451	135452	99.4	26.3	1890	1556	1.17	1.79	1.75	5.58	9.89	8.7
573	1148	3556.1	2.85	3.85	4.45	87	47.8	3010	3544.4	9.64	9.51	603	625	69.0	68.6	450	136037	99.7	26.4	1727	1556	1.17	1.82	1.78	5.58	9.88	8.7
574	1153	3556.4	3.33	3.31	4.21	87	47.2	3030	3544.6	9.59	9.49	604	618	68.9	69.1	449	136440	100	26.5	1459	1556	1.17	1.73	1.69	5.58	9.85	8.7
575	1158	3556.7	3.43	3.26	3.91	87	47.7	3020	3544.9	9.60	9.44	604	657	69.0	69.2	448	136874	100	26.6	1493	1555	1.18	1.77	1.73	5.58	9.84	8.7
576	1205	3557.0	2.68	3.06	3.40	88	47.4	3030	3545.1	9.60	9.36	605	618	69.1	69.7	448	137500	101	26.7	2042	1556	1.18	1.85	1.81	5.59	9.82	8.7
577	1210	3557.3	3.67	3.05	3.57	87	46.2	3030	3545.3	9.60	9.41	604	602	69.1	69.8	447	137933	101	26.8	1413	1556	1.19	1.74	1.70	5.59	9.81	8.7
578	1215	3557.6	3.23	3.22	3.50	87	48.2	3020	3545.5	9.60	9.40	604	586	68.9	69.9	447	138400	101	26.9	1694	1555	1.19	1.80	1.76	5.59	9.80	8.7
579	1221	3557.9	3.03	3.17	4.04	88	46.5	3040	3545.7	9.59	9.30	602	608	69.0	70.1	443	138952	101	27.0	1725	1556	1.19	1.80	1.76	5.59	9.79	8.7
580	1225	3558.2	5.05	3.07	3.35	88	45.6	3040	3545.8	9.59	9.30	603	540	69.0	70.1	444	139255	102	27.0	987	1554	1.20	1.65	1.61	5.59	9.79	8.7
581	1230	3558.5	3.58	3.06	3.34	87	46.3	3040	3546.0	9.62	9.35	602	555	69.4	70.2	447	139701	102	27.1	1249	1554	1.20	1.75	1.71	5.59	9.78	8.7
582	1235	3558.8	3.58	3.04	3.30	87	46.5	3040	3546.2	9.63	9.32	602	558	69.9	70.5	450	140146	102	27.2	1222	1553	1.20	1.76	1.72	5.59	9.78	8.7
583	1240	3559.1	3.74	3.11	3.29	87	46.3	3040	3546.4	9.62	9.29	601	550	70.2	70.7	453	140571	103	27.3	1227	1552	1.21	1.74	1.70	5.59	9.78	8.7
584	1246	3559.5	2.91	3.09	3.38	88	46.3	3040	3546.6	9.60	9.46	601	538	70.2	70.3	453	141133	103	27.4	1799	1553	1.21	1.82	1.78	5.59	9.77	8.7
585	1250	3559.8	4.74	3.09	3.35	88	46.8	3040	3551.6	9.59	9.38	602	507	70.3	70.7	450	141469	103	27.4	1100	1552	1.21	1.69	1.65	5.59	9.76	8.7
586	1255	3560.1	3.45	3.21	4.23	87	47.7	3040	3552.1	9.58	9.39	602	510	70.2	70.4	449	141929	104	27.5	1671	1551	1.22	1.79	1.75	5.60	9.75	8.7
587	1300	3560.4	4.20	3.30	4.28	87	46.2	3030	3552.2	9.57	9.45	601	522	70.2	70.2	448	142305	104	27.6	1424	1551	1.22	1.71	1.67	5.60	9.75	8.7
588	1304	3560.7	4.24	3.86	4.71	86	45.6	3030	3552.5	9.56	9.56	602	457	70.4	69.5	449	142672	104	27.7	1140	1549	1.22	1.70	1.66	5.60	9.75	8.7
589	1308	3561.0	5.19	4.14	4.70	87	48.0	3040	3552.7	9.56	9.58	602	511	70.5	70.3	448	142977	105	27.7	1008	1548	1.23	1.67	1.63	5.60	9.75	8.7
590	1312	3561.3	3.81	4.04	4.68	87	47.5	3000	3552.9	9.56	9.63	602	509	70.6	70.6	449	143391	105	27.8	1372	1547	1.23	1.75	1.71	5.60	9.75	8.7
591	1328	3561.6	3.20	3.21	3.84	88	40.2	3010	3553.3	9.64	9.63	584	525	70.8	69.9	467	143470	105	27.8	234	1543	1.23	1.81	1.06	5.60	9.75	8.7
592	1331	3561.9	5.59	3.47	3.96	89	43.8	3010	3553.5	9.64	9.63	596	553	70.8	69.9	457	143753	105	27.9	1272	1541	1.23	1.61	1.57	5.60	9.76	8.7
593	1335	3562.2	4.26	3.40	4.23	88	44.1	2990	3553.7	9.60	9.77	595	540	70.8	68.6	451	144131	106	27.9	1536	1540	1.24	1.68	1.64	5.60	9.76	8.7
594	1339	3562.5	5.44	3.79	4.73	88	44.2	2990	3553.8	9.56	9.77	596	553	70.8	69.3	449	144426	106	28.0	1076	1538	1.24	1.62	1.58	5.60	9.76	8.7
595	1343	3562.8	4.51	4.16	4.92	88	43.3	2980	3553.9	9.55	9.80	596	606	70.8	70.2	447	144782	106	28.1	1114	1537	1.24	1.66	1.62	5.60	9.76	8.7
596	1347	3563.1	4.05	4.30	4.74	89	44.5	2980	3554.1	9.55	9.80	595	581	70.8	70.3	446	145181	107	28.1	1167	1536	1.24	1.71	1.66	5.60	9.76	8.7
597	1352	3563.4	3.71	4.06	4.80	83	44.7	2980	3554.3	9.57	9.80	596	536	70.7	70.4	445	145616	107	28.2	1449	1535	1.25	1.73	1.69	5.61	9.76	8.7

EXLOG

AMOCO AUST. Tilana No.1

329258

Data Printed at time 08:31 Date Oct 28 '85
Data Recorded at time 13:57 Date Oct 21 '81

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST FM PR
598	1357	3563.7	3.77	3.98	4.38	88	44.4	2970	3554.4	9.58	9.89	596	612	70.5	70.1	443	146043	107	28.3	1406	1535	1.25	1.72	1.68	5.61	9.76	8.70
599	1403	3564.0	3.32	4.06	4.44	89	45.0	2960	3554.6	9.59	9.91	595	599	70.7	70.2	440	146529	108	28.4	1533	1535	1.26	1.77	1.73	5.61	9.76	8.70
600	1409	3564.4	3.20	4.02	4.41	88	43.5	2960	3554.8	9.59	10.1	596	657	70.7	70.0	441	147066	108	28.5	1646	1535	1.26	1.76	1.72	5.61	9.76	8.70
601	1416	3564.6	2.15	3.92	4.43	89	44.0	2960	3555.0	9.62	10.1	596	640	70.7	70.0	440	147694	108	28.6	2317	1536	1.26	1.88	1.84	5.61	9.75	8.70
602	1423	3564.9	2.52	4.05	4.46	89	44.0	2990	3558.1	9.64	10.1	599	651	70.6	70.1	439	148337	109	28.7	1883	1537	1.27	1.84	1.80	5.61	9.74	8.70
603	1429	3565.2	3.17	3.98	4.48	89	44.5	2990	3558.3	9.64	10.1	599	663	70.7	70.1	439	148848	109	28.8	1600	1537	1.27	1.78	1.74	5.61	9.74	8.70
604	1434	3565.6	3.62	4.11	4.50	89	43.9	2990	3558.4	9.66	10.1	600	634	70.7	70.1	438	149320	109	28.9	1367	1537	1.28	1.73	1.69	5.61	9.74	8.70
605	1438	3565.9	4.30	4.08	4.57	89	44.4	2990	3558.5	9.67	10.2	599	641	70.7	70.3	436	149695	109	29.0	1220	1536	1.28	1.69	1.65	5.61	9.74	8.70
606	1443	3566.2	3.73	4.18	4.68	89	44.4	2990	3558.6	9.68	10.2	600	634	70.7	70.5	436	150109	110	29.1	1274	1535	1.28	1.73	1.69	5.61	9.75	8.70
607	1447	3566.5	4.05	4.10	4.61	89	44.4	3000	3558.7	9.68	10.1	600	614	70.7	70.7	434	150510	110	29.1	1219	1535	1.29	1.71	1.66	5.62	9.75	8.70
608	1452	3566.8	3.85	4.05	4.67	89	44.6	2980	3558.9	9.70	10.2	599	639	70.7	70.7	435	150945	110	29.2	1491	1534	1.29	1.72	1.68	5.62	9.75	8.70
609	1457	3567.1	3.99	3.81	4.54	89	45.0	2990	3559.1	9.68	10.0	599	609	70.8	70.8	435	151349	111	29.3	1227	1533	1.29	1.72	1.67	5.62	9.75	8.70
610	1502	3567.4	3.64	3.68	4.40	89	45.2	2990	3559.4	9.67	9.92	599	662	70.8	71.0	433	151793	111	29.4	1476	1533	1.30	1.75	1.70	5.62	9.76	8.70
611	1506	3567.7	4.78	3.13	3.85	90	44.7	3000	3559.6	9.63	9.79	600	623	70.8	70.9	433	152134	111	29.4	1097	1531	1.30	1.66	1.62	5.62	9.76	8.70
612	1510	3568.0	4.34	3.13	4.43	89	45.7	3010	3559.8	9.68	9.52	600	583	70.8	71.1	433	152507	112	29.5	1291	1530	1.30	1.70	1.66	5.62	9.76	8.70
613	1514	3568.3	3.96	3.41	7.34	88	48.3	3020	3559.9	9.69	9.30	599	576	70.8	71.1	435	152901	112	29.6	1392	1529	1.31	1.75	1.71	5.62	9.76	8.70
614	1519	3568.6	4.25	3.13	6.79	88	45.1	3010	3560.0	9.71	9.15	600	611	70.8	71.4	438	153280	112	29.7	1272	1529	1.31	1.69	1.65	5.62	9.77	8.70
615	1526	3568.9	2.53	3.02	3.82	90	46.5	3000	3560.5	9.67	8.95	598	601	70.8	71.1	436	153924	112	29.8	2792	1530	1.32	1.87	1.82	5.62	9.78	8.70
616	1533	3569.2	2.38	2.92	3.88	90	44.7	2990	3560.9	9.69	8.89	599	616	70.9	71.2	433	154610	113	29.9	2087	1531	1.32	1.86	1.82	5.62	9.78	8.70
617	1536	3569.5	6.72	3.26	4.51	90	44.5	3000	3561.0	9.64	8.96	599	562	70.9	71.1	433	154855	113	30.0	944	1529	1.32	1.56	1.52	5.63	9.79	8.70
618	1539	3569.8	6.35	3.19	4.31	90	44.9	2990	3561.1	9.67	9.22	598	565	70.9	70.7	433	155111	113	30.0	773	1527	1.32	1.58	1.53	5.63	9.79	8.70
619	1543	3570.1	4.59	3.22	4.27	90	44.6	2970	3561.3	9.69	9.37	598	555	70.9	70.8	433	155465	114	30.1	1120	1526	1.33	1.67	1.62	5.63	9.79	8.70
620	1547	3570.4	4.11	3.33	4.24	89	43.9	2980	3561.5	9.70	9.47	598	540	70.9	71.2	433	155861	114	30.1	1199	1525	1.33	1.69	1.64	5.63	9.80	8.70
621	1551	3570.7	5.62	3.83	4.54	90	44.4	2980	3561.6	9.68	9.34	597	548	70.9	71.2	433	156150	114	30.2	988	1523	1.33	1.61	1.56	5.63	9.80	8.70
622	1600	3571.1	2.98	3.51	4.49	92	44.0	2970	3564.1	9.68	9.37	583	534	70.9	71.0	446	156340	115	30.2	2299	1522	1.33	1.81	1.77	5.63	9.79	8.70
623	1606	3571.4	2.89	3.65	4.63	92	44.8	2970	3564.3	9.60	9.75	593	609	70.7	69.8	435	156905	115	30.3	$	1521	1.34	1.81	1.76	5.63	9.80	8.70
624	1612	3571.6	3.21	3.93	4.34	90	43.7	2970	3564.4	9.58	9.72	594	615	70.4	70.1	430	157378	115	30.4	1748	1521	1.34	1.76	1.71	5.63	9.81	8.70
625	1618	3572.0	2.85	3.74	4.26	90	45.2	2990	3564.6	9.59	9.71	595	607	70.5	70.6	426	157956	116	30.5	1947	1522	1.35	1.81	1.76	5.63	9.82	8.70
626	1626	3572.3	2.33	3.97	4.49	90	46.3	2960	3564.9	9.54	9.60	594	606	70.6	70.9	426	158711	116	30.7	2925	1524	1.35	1.88	1.83	5.63	9.83	8.70
627	1629	3572.6	6.06	4.27	4.73	90	45.3	2960	3565.0	9.56	9.64	595	644	71.0	70.8	426	158982	116	30.7	1027	1522	1.36	1.59	1.55	5.64	9.83	8.70
628	1632	3572.9	6.08	4.15	4.61	90	44.7	2950	3565.2	9.54	9.67	595	648	70.9	70.9	426	159234	116	30.8	776	1520	1.36	1.59	1.54	5.64	9.83	8.70
629	1637	3573.2	4.29	3.73	4.41	90	45.1	2970	3565.4	9.54	9.76	595	651	71.1	70.7	426	159637	117	30.8	1338	1519	1.36	1.69	1.64	5.64	9.82	8.70
630	1640	3573.5	5.28	3.51	4.18	90	45.1	2960	3565.6	9.54	9.76	595	664	71.1	70.7	426	159948	117	30.9	972	1518	1.36	1.63	1.58	5.64	9.82	8.70
631	1643	3573.8	7.21	3.98	4.54	90	45.1	2970	3565.7	9.56	9.88	595	686	71.2	70.7	426	160175	117	30.9	784	1516	1.37	1.54	1.50	5.64	9.82	8.70
632	1646	3574.1	4.87	4.12	4.62	90	44.9	2960	3565.9	9.53	9.91	596	694	71.4	70.6	426	160495	118	31.0	1085	1514	1.37	1.65	1.61	5.64	9.82	8.70
633	1650	3574.4	4.86	3.74	4.26	90	44.4	2970	3566.1	9.62	9.98	596	706	71.4	70.4	426	160833	118	31.1	1031	1513	1.37	1.65	1.60	5.64	9.81	8.70
634	1654	3574.7	4.95	3.69	4.48	90	45.3	2970	3566.2	9.62	9.98	596	689	71.4	70.4	426	161163	118	31.1	1032	1512	1.37	1.65	1.61	5.64	9.82	8.70
635	1701	3575.0	2.41	2.89	3.98	92	44.7	2970	3566.6	9.62	10.0	596	748	71.4	70.4	426	161823	119	31.2	2814	1513	1.38	1.86	1.81	5.64	9.80	8.70
636	1704	3575.3	6.87	2.94	3.88	91	44.7	2980	3566.7	9.62	10.0	596	727	71.4	70.4	426	162079	119	31.3	794	1511	1.38	1.56	1.51	5.64	9.81	8.70
637	1705	3575.6	12.7	3.08	4.08	91	42.7	2980	3566.8	9.62	10.0	595	729	71.4	70.4	426	162206	119	31.3	382	1508	1.38	1.36	1.32	5.65	9.81	8.70
638	1708	3575.9	7.05	3.16	4.34	91	44.8	2980	3566.9	9.63	9.89	595	715	71.4	70.5	426	162443	119	31.3	1280	1506	1.38	1.55	1.51	5.65	9.80	8.70
639	1714	3576.2	2.69	3.41	4.44	91	44.8	2930	3567.3	9.57	9.90	594	732	71.4	70.9	426	163054	120	31.5	2211	1507	1.39	1.83	1.78	5.65	9.80	8.70
640	1722	3576.5	2.48	3.72	7.68	87	45.7	2930	3567.6	9.60	9.87	596	716	71.4	70.8	426	163708	120	31.6	2086	1508	1.39	1.85	1.80	5.65	9.79	8.70
641	1813	3576.8	2.42	3.82	7.89	88	45.8	2970	3571.5	9.87	9.13	598	661	71.4	71.7	426	164359	120	31.7	2087	1509	1.40	1.86	1.82	5.65	9.78	8.70
642	1822	3577.1	2.08	3.01	4.29	91	45.2	2970	3571.9	9.74	9.39	601	640	70.7	70.9	426	165151	121	31.9	3156	1512	1.41	1.91	1.86	5.65	9.78	8.70
643	1833	3577.4	1.70	3.44	5.48	88	46.0	2950	3573.5	9.74	9.70	598	639	70.2	71.4	426	166095	121	32.0	3089	1515	1.41	1.96	1.92	5.65	9.80	8.70
644	1840	3577.7	2.59	3.09	4.35	90	46.7	2950	3573.9	9.68	9.72	601	639	70.4	71.5	426	166731	121	32.1	2064	1516	1.42	1.86	1.81	5.65	9.80	8.70
645	1845	3578.0	3.37	3.53	4.51	90	44.5	2940	3574.2	9.59	9.71	600	640	70.6	72.1	426	167217	122	32.2	1488	1516	1.42	1.75	1.70	5.65	9.81	8.70
646	1851	3578.4	3.15	3.89	4.18	89	44.9	2940	3574.5	9.52	9.73	599	603	70.8	71.4	426	167732	122	32.3	1774	1516	1.43	1.77	1.72	5.65	9.83	8.70
647	1907	3578.7	1.65	3.37	4.29	88	45.0	2990	3575.3	9.52	9.73	600	624	70.5	71.6	426	168716	122	32.5	2030	1520	1.43	1.95	1.90	5.66	9.84	8.70

AMOCO AUST. Tilana No.1

329259

Data Printed at time 08:35 Date Oct 28 '85
Data Recorded at time 19:20 Date Oct 21

191

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NK	NKB	ECD	EST FM P
648	1920	3579.0	1.33	3.75	4.34	89	45.7	3000	3575.6	9.58	9.80	602	650	70.7	72.3	426	169927	123	32.7	3621	1525	1.44	2.02	1.97	5.66	9.83	8.70
649	1936	3579.3	1.19	3.88	4.35	89	46.7	2990	3575.7	9.57	9.81	603	667	71.3	71.5	426	171295	123	33.0	4078	1532	1.45	2.07	2.02	5.66	9.82	8.70
650	1946	3579.6	1.77	3.93	4.34	89	45.5	2990	3576.5	9.56	9.75	603	625	71.4	72.3	426	172210	123	33.2	3172	1535	1.46	1.96	1.92	5.66	9.71	8.70
651	1959	3579.9	1.44	3.85	4.41	89	45.7	2960	3576.7	9.46	9.72	601	574	71.8	71.3	426	173325	123	33.4	3651	1540	1.47	2.02	1.98	5.66	9.71	8.70
652	2019	3580.2	1.60	3.66	4.22	88	46.2	2960	3577.1	9.51	9.82	596	582	72.0	71.2	474	174407	124	33.6	3195	1544	1.48	2.00	1.95	5.66	9.70	8.70
653	2034	3580.5	1.25	3.61	4.21	87	44.8	2940	3577.5	9.40	9.78	600	595	70.7	70.8	464	175687	124	33.8	3833	1551	1.49	2.05	2.01	5.66	9.69	8.70
654	2045	3580.8	1.71	3.78	4.20	87	45.3	2940	3577.7	9.48	9.73	599	569	70.7	71.1	464	176618	124	34.0	2307	1554	1.50	1.97	1.92	5.66	9.67	8.70
655	2055	3581.1	1.73	3.76	4.21	87	45.3	2940	3578.0	9.43	9.76	600	519	70.8	70.8	462	177541	125	34.2	2759	1557	1.50	1.97	1.92	5.66	9.66	8.70
656	2106	3581.4	1.70	3.83	4.95	88	45.3	2980	3578.2	9.43	9.78	602	538	70.8	70.8	465	178481	125	34.4	2904	1560	1.51	1.98	1.93	5.66	9.65	8.70
657	2112	3581.7	3.17	3.79	4.19	87	43.4	2940	3578.3	9.44	9.74	598	587	70.8	71.1	467	178935	125	34.5	1571	1560	1.52	1.78	1.73	5.66	9.63	8.70
658	2115	3582.0	5.71	3.67	4.22	87	43.2	2920	3578.4	9.44	9.74	597	557	70.8	71.1	466	179264	126	34.5	892	1559	1.52	1.61	1.56	5.67	9.64	8.70
659	2118	3582.3	5.65	3.64	4.20	87	45.4	2930	3578.5	9.33	9.76	597	601	70.9	70.7	467	179564	126	34.6	1122	1557	1.52	1.64	1.59	5.67	9.63	8.70
660	2122	3582.6	4.77	3.78	4.41	88	43.4	2940	3578.5	9.32	9.79	597	586	70.9	70.4	468	179877	126	34.6	980	1556	1.52	1.66	1.61	5.67	9.63	8.70
661	2126	3582.9	4.25	3.72	7.60	84	44.2	2940	3578.6	9.37	9.80	599	536	70.9	70.3	467	180266	126	34.7	1159	1555	1.53	1.70	1.65	5.67	9.62	8.70
662	2131	3583.2	3.69	3.99	5.05	88	44.8	2920	3579.6	9.37	9.80	598	518	70.8	70.3	467	180693	127	34.8	1498	1555	1.53	1.76	1.71	5.67	9.62	8.70
663	2135	3583.5	4.37	3.94	4.30	88	44.4	2930	3579.7	9.39	9.78	598	578	70.7	70.9	467	181046	127	34.8	1161	1553	1.53	1.71	1.66	5.67	9.61	8.70
664	2143	3583.8	2.40	3.92	4.32	88	44.7	2940	3579.9	9.42	9.81	599	499	70.7	70.2	470	181715	127	35.0	2435	1555	1.54	1.83	1.83	5.67	9.59	8.70
665	2150	3584.2	2.60	3.73	4.34	88	44.3	2930	3580.1	9.45	9.80	599	518	70.7	70.1	472	182362	128	35.1	2079	1556	1.54	1.86	1.81	5.67	9.59	8.70
666	2159	3584.4	1.91	3.81	4.53	89	44.5	2970	3580.3	9.36	9.81	603	527	69.9	69.8	471	183174	128	35.2	3396	1558	1.55	1.96	1.90	5.67	9.58	8.70
667	2205	3584.8	3.21	3.52	4.14	88	44.5	2960	3580.3	9.37	9.73	601	443	69.9	70.1	471	183693	128	35.3	1579	1553	1.55	1.80	1.75	5.67	9.57	8.70
668	2211	3585.1	3.15	3.47	4.32	88	43.8	2950	3580.4	9.30	9.74	601	548	69.9	70.3	476	184200	129	35.4	1731	1558	1.56	1.80	1.75	5.68	9.57	8.70
669	2217	3585.4	2.73	3.78	4.47	87	44.4	2960	3580.4	9.28	9.75	601	500	70.5	69.8	481	184766	129	35.5	1839	1558	1.56	1.85	1.80	5.68	9.56	8.70
670	2221	3585.7	4.80	4.30	4.67	89	43.9	2970	3580.5	9.12	9.71	602	516	70.3	70.2	476	185111	129	35.6	1091	1557	1.56	1.68	1.63	5.68	9.56	8.70
671	2226	3586.0	3.49	4.27	4.95	88	44.3	2980	3580.6	9.02	9.71	603	547	70.0	70.2	473	185566	130	35.7	1411	1557	1.57	1.78	1.73	5.68	9.55	8.70
672	2230	3586.3	5.42	4.54	4.98	87	44.4	2990	3580.6	9.06	9.72	605	562	69.9	69.4	474	185858	130	35.8	969	1556	1.57	1.65	1.60	5.68	9.54	8.70
673	2234	3586.6	4.19	4.35	4.89	88	44.7	2960	3580.7	9.24	9.68	603	519	69.8	69.6	481	186233	130	35.8	1052	1555	1.57	1.73	1.68	5.68	9.54	8.70
674	2239	3586.9	3.55	4.31	4.66	88	44.5	2940	3580.9	9.31	9.72	601	521	69.9	69.4	436	186636	130	35.9	1525	1554	1.58	1.78	1.73	5.68	9.53	8.70
675	2250	3587.2	3.17	4.14	4.78	87	44.5	2990	3581.1	9.38	9.65	605	481	69.9	69.2	501	187199	131	36.0	2115	1555	1.58	1.81	1.75	5.68	9.57	8.70
676	2253	3587.5	5.71	4.84	5.45	92	44.7	2980	3581.2	9.27	9.67	641	521	69.8	69.1	497	187492	131	36.1	915	1553	1.58	1.66	1.61	5.68	9.50	8.70
677	2257	3587.8	4.06	4.69	5.11	89	44.4	2990	3581.3	9.25	9.69	606	499	69.7	68.2	493	187895	131	36.1	1047	1552	1.58	1.75	1.70	5.68	9.49	8.70
678	2301	3588.1	4.75	4.60	5.04	88	45.2	2980	3581.5	9.25	9.71	605	527	69.5	67.6	489	188231	132	36.2	1105	1551	1.59	1.71	1.66	5.69	9.49	8.70
679	2307	3588.4	3.23	4.55	5.14	87	45.6	2980	3581.9	9.22	9.70	604	543	69.4	67.7	486	188720	132	36.3	1543	1551	1.59	1.83	1.77	5.69	9.48	8.70
680	2314	3588.7	2.50	4.51	5.08	87	45.4	2980	3582.3	9.13	9.70	604	490	69.0	67.5	485	189353	132	36.4	1923	1552	1.60	1.90	1.85	5.69	9.47	8.70
681	2320	3589.0	3.31	4.59	5.06	87	44.8	2990	3582.6	9.15	9.69	604	476	68.7	67.7	487	189835	133	36.5	1609	1552	1.60	1.82	1.76	5.69	9.46	8.70
682	2328	3589.3	2.13	4.33	4.87	87	44.9	3000	3583.2	9.14	9.68	604	430	68.7	67.6	488	190583	133	36.6	2546	1553	1.61	1.95	1.90	5.69	9.44	8.70
683	2343	3589.7	2.85	3.39	4.80	87	46.8	2860	3583.7	9.23	9.67	575	455	68.6	67.5	511	191199	133	36.8	1901	1555	1.61	1.88	1.83	5.69	9.41	8.70
684	2344	3590.0	2.97	3.02	3.29	87	46.1	2850	3583.7	9.23	9.67	580	464	68.6	67.5	510	191221	133	36.8	1715	1551	1.61	1.86	1.81	5.69	9.41	8.70
685	2349	3590.2	3.06	3.73	4.79	88	46.8	3040	3583.9	9.37	9.69	608	473	68.4	67.5	498	191678	134	36.9	3432	1551	1.61	1.88	1.82	5.69	9.41	8.70
	Date	Oct 22 '81																									
686	0000	3590.6	1.82	3.90	4.25	81	44.9	3040	3584.3	9.36	9.65	610	616	68.1	67.6	506	192533	134	37.0	5268	1554	1.62	1.99	1.93	5.69	9.39	8.70
687	0009	3590.8	1.81	3.89	4.17	79	44.7	3040	3584.8	9.45	9.67	612	620	68.0	68.0	506	193280	134	37.2	2800	1556	1.63	1.98	1.93	5.69	9.38	8.70
688	0017	3591.2	2.41	3.93	4.22	79	46.5	3050	3585.3	9.42	9.67	612	566	68.0	68.3	508	193878	135	37.3	2226	1557	1.63	1.92	1.87	5.70	9.38	8.70
689	0026	3591.5	2.01	4.00	4.27	79	46.1	3040	3586.0	9.40	9.64	612	648	68.4	68.6	507	194596	135	37.5	2590	1559	1.64	1.97	1.91	5.70	9.38	8.70
690	0034	3591.8	2.30	3.85	4.24	77	44.5	3040	3586.5	9.38	9.68	613	604	68.7	68.7	508	195209	135	37.6	2125	1561	1.64	1.89	1.84	5.70	9.40	8.70
691	0042	3592.1	2.21	3.83	4.13	76	45.4	3040	3586.7	9.32	9.70	613	557	68.6	69.2	504	195860	136	37.7	2387	1563	1.64	1.91	1.86	5.70	9.43	8.70
692	0051	3592.4	2.00	3.83	4.07	76	45.1	3040	3587.2	9.29	9.68	612	556	69.6	69.6	503	196526	136	37.9	2459	1564	1.65	1.93	1.88	5.70	9.43	8.70
693	0058	3592.7	2.70	3.60	4.01	76	44.8	3040	3587.8	9.26	9.65	613	548	69.7	69.7	503	197056	136	38.0	1900	1565	1.65	1.84	1.79	5.70	9.43	8.70
694	0106	3593.0	2.23	3.72	4.05	76	45.5	3010	3588.1	9.24	9.61	611	545	69.9	69.9	503	197657	137	38.1	2435	1566	1.66	1.91	1.86	5.70	9.43	8.70
695	0113	3593.3	3.82	3.27	4.04	76	46.2	2930	3588.5	9.39	9.62	612	473	70.1	69.8	514	198026	137	38.2	1324	1566	1.66	1.76	1.70	5.70	9.42	8.70
696	0124	3593.6	1.75	2.98	4.76	78	45.1	2960	3588.9	9.40	9.61	595	536	69.9	69.2	511	198325	137	38.4	1753	1569	1.67	1.98	1.93	5.70	9.43	8.70

EXLOG

AMOCO AUST. Tilana No.1

329260

Data Printed at time 03:39 Date Oct 28 '85
Data Recorded at time 01:31 Date Oct 22 '81

192

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST FM PR
697	0131	3593.9	2.52	3.95	4.37	79	44.9	2950	3589.0	9.44	9.64	595	592	69.7	69.2	518	199406	137	38.5	1963	1570	1.67	1.87	1.82	5.70	9.45	8.70
698	0139	3594.2	2.35	4.02	4.36	79	45.5	2960	3589.5	9.47	9.68	595	593	68.2	68.6	530	200019	138	38.6	2128	1571	1.67	1.90	1.84	5.71	9.47	8.70
699	0147	3594.5	2.30	3.98	4.31	79	45.9	2980	3590.0	9.50	9.69	595	588	66.9	68.2	547	200546	138	38.8	2173	1572	1.68	1.91	1.85	5.71	9.49	8.70
700	0152	3594.8	3.59	3.93	4.22	80	45.4	2970	3590.1	9.52	9.67	595	463	66.4	68.0	554	201049	138	38.8	1464	1572	1.68	1.77	1.71	5.71	9.50	8.70
701	0157	3595.1	3.23	3.89	4.24	80	45.7	2980	3590.2	9.48	9.71	604	467	65.6	67.4	557	201496	139	38.9	1785	1572	1.69	1.80	1.75	5.71	9.51	8.70
702	0205	3595.4	2.34	3.86	4.21	79	46.9	2990	3590.5	9.49	9.74	605	512	65.0	67.2	566	202115	139	39.1	2411	1573	1.69	1.91	1.85	5.71	9.53	8.70
703	0213	3595.7	2.44	3.96	4.33	79	44.9	2990	3590.8	9.49	9.74	605	487	65.0	67.2	566	202709	139	39.2	1944	1574	1.69	1.87	1.81	5.71	9.53	8.70
704	0219	3596.0	2.98	3.89	4.23	80	45.6	2980	3591.0	9.45	9.74	605	541	65.4	66.9	565	203195	140	39.3	1646	1574	1.70	1.82	1.76	5.71	9.53	8.70
705	0226	3596.4	2.93	3.68	3.92	79	45.5	2980	3591.2	9.46	9.78	606	605	66.0	66.5	565	203731	140	39.4	1929	1575	1.70	1.82	1.76	5.71	9.54	8.70
706	0233	3596.6	2.13	3.72	3.95	80	47.1	2960	3591.5	9.45	9.77	605	607	66.2	66.8	563	204354	140	39.5	2613	1576	1.71	1.93	1.88	5.71	9.54	8.70
707	0243	3596.9	1.90	3.73	4.04	80	44.6	2970	3591.8	9.40	9.75	607	577	66.5	67.0	562	205120	141	39.7	2552	1578	1.71	1.93	1.88	5.71	9.55	8.70
708	0245	3597.3	10.2	3.73	3.98	80	44.6	2980	3591.9	9.40	9.75	605	522	66.5	67.0	557	205263	141	39.7	612	1576	1.71	1.45	1.39	5.72	9.55	8.70
709	0252	3597.6	2.44	3.72	4.06	80	45.4	2980	3592.3	9.32	9.80	606	530	66.8	67.3	556	205853	141	39.9	1184	1577	1.72	1.87	1.81	5.72	9.56	8.70
710	0259	3597.9	2.65	3.68	4.12	80	46.9	2960	3592.5	9.29	9.86	606	515	67.1	68.1	553	206402	141	40.0	1351	1577	1.72	1.86	1.80	5.72	9.57	8.70
711	0304	3598.2	3.80	3.95	4.28	80	45.2	2960	3592.7	9.31	9.86	606	553	67.3	68.2	554	206784	142	40.0	1380	1577	1.72	1.73	1.68	5.72	9.57	8.70
712	0309	3598.5	3.49	4.06	4.40	80	45.6	2980	3592.9	9.33	9.88	606	512	67.4	68.5	553	207200	142	40.1	1476	1576	1.73	1.76	1.71	5.72	9.57	8.70
713	0315	3598.8	3.45	4.01	4.29	80	45.7	2970	3593.0	9.33	9.89	606	494	67.6	68.3	552	207643	142	40.2	1708	1576	1.73	1.77	1.71	5.72	9.58	8.70
714	0326	3599.1	3.40	3.25	4.27	82	38.1	2960	3593.4	9.32	9.89	601	526	68.0	68.4	553	207908	143	40.3	1853	1575	1.73	1.79	1.74	5.72	9.58	8.70
715	0328	3599.4	3.30	2.86	3.05	83	44.2	2940	3593.4	9.33	9.90	601	487	68.1	67.9	553	208076	143	40.3	2400	1573	1.73	1.80	1.74	5.72	9.57	8.70
716	0333	3599.7	3.49	3.19	4.16	83	46.5	2960	3593.7	9.27	9.90	605	528	68.1	68.2	548	208510	143	40.4	1962	1572	1.74	1.79	1.73	5.72	9.57	8.70
717	0339	3600.0	3.53	3.93	4.45	80	45.3	2960	3593.9	9.25	9.90	606	480	68.1	68.4	543	208923	144	40.5	1374	1572	1.74	1.76	1.70	5.72	9.57	8.70
718	0343	3600.3	4.03	4.11	4.41	79	45.1	2950	3594.1	9.24	9.89	606	549	68.2	68.6	545	209283	144	40.6	1283	1571	1.74	1.72	1.66	5.73	9.57	8.70
719	0347	3600.6	5.35	4.09	4.43	80	47.0	2960	3594.2	9.45	9.89	606	469	68.3	68.4	545	209575	144	40.6	1038	1570	1.75	1.66	1.60	5.73	9.56	8.70
720	0352	3600.9	3.46	4.19	4.42	80	46.6	2950	3594.5	9.57	9.87	605	490	68.5	68.3	544	209963	144	40.7	1309	1570	1.75	1.78	1.72	5.73	9.56	8.70
721	0358	3601.2	3.14	4.08	4.53	80	45.6	2940	3594.8	9.57	9.76	607	530	68.6	68.3	546	210457	145	40.8	2018	1570	1.75	1.80	1.74	5.73	9.54	8.70
722	0402	3601.5	4.03	3.99	4.29	79	46.1	2960	3595.0	9.64	9.70	606	536	68.7	68.0	549	210794	145	40.9	1380	1569	1.75	1.73	1.67	5.73	9.54	8.70
723	0406	3601.8	5.16	3.94	4.39	80	45.2	2960	3595.1	9.66	9.71	606	545	68.7	68.4	550	211076	145	40.9	983	1568	1.76	1.65	1.59	5.73	9.54	8.70
724	0411	3602.1	3.68	3.98	4.30	80	45.3	2990	3595.3	9.65	9.71	606	481	68.7	67.9	551	211472	146	41.0	1184	1567	1.76	1.75	1.69	5.73	9.55	8.70
725	0415	3602.4	4.46	3.89	4.25	80	44.9	2990	3595.5	9.63	9.69	606	518	68.7	68.1	548	211816	146	41.1	1225	1567	1.76	1.69	1.63	5.73	9.55	8.70
726	0420	3602.8	3.65	3.94	4.23	80	47.2	3000	3595.8	9.63	9.78	606	511	68.8	68.2	548	212215	146	41.2	1771	1566	1.76	1.78	1.72	5.73	9.56	8.70
727	0425	3603.1	3.77	3.89	4.20	80	44.5	3010	3596.0	9.62	9.81	607	515	68.8	68.0	548	212600	147	41.2	1520	1566	1.77	1.73	1.67	5.73	9.56	8.70
728	0428	3603.3	4.70	3.85	4.12	80	44.7	3030	3596.2	9.61	9.81	607	498	68.7	68.1	550	212897	147	41.3	1107	1564	1.77	1.67	1.61	5.74	9.56	8.70
729	0432	3603.6	5.61	3.91	4.28	80	47.5	3030	3596.3	9.61	9.81	607	500	68.7	68.1	550	213158	147	41.4	979	1563	1.77	1.65	1.59	5.74	9.58	8.70
730	0436	3604.0	3.94	3.88	4.25	80	45.7	3010	3596.4	9.61	9.81	607	542	68.6	67.9	548	213528	148	41.4	1110	1562	1.77	1.73	1.67	5.74	9.59	8.70
731	0442	3604.3	3.51	3.99	4.43	80	45.9	3020	3596.8	9.63	9.81	607	529	68.7	67.7	550	213956	148	41.5	1320	1562	1.78	1.76	1.70	5.74	9.60	8.70
732	0445	3604.6	4.80	4.32	4.53	80	45.7	3030	3597.0	9.65	9.81	608	535	68.6	67.6	551	214251	148	41.6	971	1561	1.78	1.67	1.61	5.74	9.60	8.70
733	0450	3604.9	3.67	3.86	4.46	80	45.5	3040	3597.2	9.65	9.82	606	561	68.5	67.3	552	214649	148	41.7	1348	1561	1.78	1.74	1.68	5.74	9.60	8.70
734	0455	3605.2	4.05	4.14	4.65	80	45.3	3040	3597.4	9.66	9.82	607	534	68.5	67.7	553	215010	149	41.7	1082	1560	1.78	1.71	1.65	5.74	9.61	8.70
735	0459	3605.5	4.02	4.17	4.62	80	46.0	3040	3597.6	9.66	9.85	607	559	68.4	67.3	553	215373	149	41.8	1150	1559	1.79	1.72	1.66	5.74	9.62	8.70
736	0504	3605.8	3.69	4.00	4.48	81	45.8	3020	3597.9	9.64	9.87	604	506	68.2	67.3	546	215774	149	41.9	1407	1559	1.79	1.74	1.68	5.74	9.63	8.70
737	0515	3606.1	4.11	3.42	3.89	80	46.6	3030	3598.4	9.58	9.88	601	493	68.3	67.4	553	216143	150	42.0	1773	1558	1.79	1.72	1.66	5.74	9.65	8.70
738	0519	3606.4	3.94	3.45	4.32	86	45.8	3040	3598.4	9.61	9.88	605	658	68.0	67.7	495	216543	150	42.1	1296	1558	1.80	1.74	1.68	5.75	9.67	8.70
739	0522	3606.7	5.98	3.43	3.99	87	45.7	3020	3598.7	9.54	9.88	603	633	68.0	67.4	453	216807	150	42.1	845	1556	1.80	1.61	1.55	5.75	9.68	8.70
740	0527	3607.0	3.85	3.50	4.39	87	46.0	3020	3599.1	9.30	9.91	603	543	68.0	67.4	426	217215	151	42.2	1571	1556	1.80	1.74	1.68	5.75	9.69	8.70
741	0532	3607.3	3.76	3.84	4.35	85	46.3	3010	3599.4	9.18	9.89	602	550	67.7	67.6	422	217622	151	42.3	1286	1555	1.80	1.75	1.69	5.75	9.70	8.70
742	0536	3607.6	4.79	3.80	4.18	79	45.4	3010	3599.7	9.23	9.86	603	531	67.5	67.6	418	217922	151	42.3	1048	1554	1.81	1.64	1.58	5.75	9.71	8.70
743	0541	3607.9	3.36	3.93	4.30	79	44.7	3010	3600.0	9.31	9.87	602	509	67.3	67.8	421	218350	151	42.4	1589	1554	1.81	1.73	1.68	5.75	9.72	8.70
744	0545	3608.2	4.38	4.06	4.43	79	45.5	3000	3600.4	9.48	9.91	603	556	67.3	68.0	420	218679	152	42.5	1198	1553	1.81	1.67	1.61	5.75	9.72	8.70
745	0556	3608.5	4.39	3.75	4.35	79	45.0	3020	3600.8	9.51	9.91	598	547	67.4	68.3	431	218928	152	42.5	1333	1553	1.81	167	1.61	5.75	9.73	8.70
746	0558	3608.8	4.61	3.41	4.40	79	46.9	3010	3600.8	9.68	9.92	600	537	67.4	67.5	429	219032	152	42.6	829	1549	1.81	1.60	1.58	5.75	9.72	8.70

AMOCO AUST. Tilana No.1 329261

Data Printed at time 08:43 Date Oct 28 '85
Data Recorded at time 06:02 Date Oct 22

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NK	NKB	ECD	EST FM PR
747	0602	3609.1	4.51	3.90	4.23	79	44.6	3000	3601.1	9.61	9.92	600	524	67.3	67.9	423	219346	153	42.6	733	1548	1.82	1.65	1.59	5.75	9.72	8.70
748	0606	3609.4	3.98	3.97	4.23	78	44.1	3000	3601.4	9.56	9.92	601	536	67.2	68.3	421	219713	153	42.7	1363	1548	1.82	1.68	1.62	5.76	9.72	8.70
749	0611	3609.7	3.93	3.95	4.25	79	44.5	2980	3601.8	9.59	9.92	599	508	67.2	68.4	420	220072	153	42.8	1175	1547	1.82	1.69	1.63	5.76	9.71	8.70
750	0615	3610.1	4.58	3.95	4.20	79	45.4	2970	3602.1	9.59	9.91	599	503	67.3	68.6	420	220339	154	42.8	994	1546	1.82	1.65	1.59	5.76	9.72	8.70
751	0620	3610.4	3.26	4.09	4.43	79	45.3	2970	3602.4	9.58	9.91	599	537	67.4	68.5	420	220824	154	42.9	1315	1546	1.83	1.75	1.69	5.76	9.72	8.70
752	0625	3610.7	4.03	4.06	4.48	79	44.6	2950	3602.7	9.62	9.94	597	551	67.6	68.3	420	221181	154	43.0	1309	1546	1.83	1.68	1.62	5.76	9.71	8.70
753	0632	3611.0	2.51	3.98	4.27	79	45.7	2970	3603.3	9.62	9.94	598	529	67.7	68.1	420	221751	155	43.1	2136	1547	1.83	1.83	1.77	5.76	9.71	8.70
754	0642	3611.3	1.89	3.70	4.07	79	44.8	2960	3603.9	9.61	9.96	597	556	67.7	67.7	420	222512	155	43.3	2890	1549	1.84	1.90	1.84	5.76	9.70	8.70
755	0654	3611.6	1.47	3.58	3.88	79	44.9	2970	3604.7	9.63	9.98	598	553	67.4	68.0	418	223491	155	43.5	3546	1552	1.85	1.98	1.92	5.76	9.71	8.70
756	0714	3612.0	1.33	3.46	4.94	79	45.0	3040	3610.0	9.67	9.91	598	542	67.5	68.6	413	230190	156	43.9	2840	1579	1.89	1.99	1.93	5.77	9.77	8.70
757	0733	3612.5	1.10	3.46	4.87	82	45.6	3050	3610.6	9.81	9.94	601	562	67.8	69.0	417	231476	156	44.2	5656	1584	1.90	2.06	2.00	5.77	9.78	8.70
758	0801	3613.0	1.39	3.46	4.02	82	45.6	3050	3610.6	9.81	9.94	601	524	67.8	69.0	417	231514	157	44.7	5869	1584	1.90	2.00	1.94	5.77	9.78	8.70
759	0821	3613.5	1.32	3.40	4.11	81	44.3	3030	3611.0	9.78	9.93	598	499	68.8	69.5	417	232631	157	45.1	830	1588	1.91	1.99	1.93	5.77	9.79	8.70
760	0851	3614.1	.90	3.46	3.82	79	43.8	3030	3611.1	9.78	9.93	598	550	68.8	69.5	418	232917	158	45.4	2553	1589	1.91	2.38	2.02	5.77	9.80	8.70
761	0903	3614.3	1.26	3.50	3.88	78	44.1	3030	3611.4	9.77	9.83	598	554	68.8	69.2	416	233872	158	45.6	3951	1593	1.92	1.98	1.92	5.77	9.81	8.70
762	0920	3614.6	1.10	3.51	4.92	83	45.3	3010	3611.7	9.76	9.60	600	520	67.2	69.5	416	235259	158	45.9	4346	1599	1.93	2.05	1.99	5.77	9.84	8.70
763	0930	3614.9	1.77	3.38	3.76	78	43.6	3010	3612.0	9.76	9.53	600	512	67.7	69.6	416	236069	158	46.1	2639	1601	1.94	1.88	1.81	5.77	9.85	8.70
764	0948	3615.2	1.10	3.39	3.82	79	44.4	3030	3612.4	9.74	9.71	602	486	68.5	69.7	415	237433	159	46.4	5399	1607	1.95	2.02	1.96	5.77	9.87	8.70
765	1000	3615.5	1.46	3.51	3.93	79	43.6	3020	3612.6	9.77	9.73	600	554	68.2	69.8	416	238408	159	46.6	3768	1611	1.95	1.92	1.86	5.78	9.88	8.70
766	1019	3615.9	.97	3.48	3.86	79	44.3	3050	3613.1	9.85	9.77	602	530	69.4	70.0	406	239890	159	46.9	5298	1618	1.96	2.05	1.99	5.78	9.89	8.70
767	1032	3616.1	1.36	3.53	3.89	79	43.4	3040	3613.3	9.96	9.79	600	578	69.3	70.1	413	240920	160	47.1	3652	1621	1.97	1.94	1.88	5.78	9.90	8.70
768	1038	3616.5	3.08	3.72	4.11	79	43.2	3050	3613.4	9.62	9.79	600	545	68.6	70.0	412	241389	160	47.2	1729	1621	1.98	1.71	1.65	5.78	9.90	8.70
769	1045	3616.8	2.58	3.67	4.11	80	44.4	3040	3613.6	9.66	9.77	599	600	69.6	70.2	415	241966	160	47.3	2182	1622	1.98	1.77	1.71	5.78	9.91	8.70
770	1052	3617.1	2.80	3.62	4.01	80	44.4	3040	3613.7	9.66	9.79	599	533	69.5	70.4	414	242481	161	47.4	1839	1622	1.98	1.75	1.69	5.78	9.92	8.70
771	1058	3617.4	2.71	3.67	4.07	80	44.3	3040	3613.8	9.65	9.75	600	556	69.7	70.6	416	243004	161	47.6	1817	1622	1.99	1.75	1.69	5.78	9.93	8.70
772	1104	3617.7	3.05	3.71	4.07	79	42.7	3050	3613.9	9.64	9.77	600	544	69.7	70.7	417	243486	161	47.7	1764	1623	1.99	1.70	1.64	5.78	9.93	8.70
773	1129	3618.0	3.91	3.76	4.18	84	43.9	3000	3614.4	9.58	9.82	596	553	69.4	69.9	417	244400	162	47.8	1368	1625	2.00	1.67	1.60	5.78	9.91	8.70
774	1135	3618.3	3.33	3.88	4.33	85	42.4	3010	3614.5	9.58	9.79	597	561	69.5	70.7	416	244858	162	47.9	1453	1624	2.00	1.70	1.63	5.78	9.90	8.70
775	1141	3618.6	3.07	4.00	4.41	86	43.3	3000	3614.6	9.59	9.80	596	566	69.4	70.6	417	245370	162	48.0	1584	1625	2.00	1.73	1.67	5.79	9.90	8.70
776	1145	3618.9	3.99	4.00	4.44	86	43.5	2990	3614.7	9.63	9.79	596	555	69.7	70.6	415	245762	162	48.1	1384	1624	2.01	1.67	1.60	5.79	9.89	8.70
777	1150	3619.2	3.45	4.06	4.39	86	44.3	2990	3614.8	9.62	9.77	596	555	69.9	70.5	415	246218	163	48.2	1553	1624	2.01	1.72	1.65	5.79	9.89	8.70
778	1155	3619.5	4.66	4.04	4.40	86	42.9	2990	3614.9	9.64	9.78	597	566	70.0	70.5	414	246586	163	48.2	1215	1623	2.01	1.62	1.55	5.79	9.88	8.70
779	1159	3619.8	3.60	3.96	4.32	86	43.7	2990	3615.0	9.64	9.79	598	552	70.0	70.3	416	246982	163	48.3	1544	1622	2.02	1.70	1.63	5.79	9.88	8.70
780	1203	3620.1	4.50	4.07	4.71	86	43.6	2990	3615.1	9.63	9.78	597	550	70.1	70.3	415	247331	164	48.4	1100	1621	2.02	1.64	1.57	5.79	9.87	8.70
781	1208	3620.4	3.58	3.84	4.45	86	43.6	2970	3615.2	9.66	9.77	597	544	70.1	70.5	414	247769	164	48.5	1250	1620	2.02	1.70	1.63	5.79	9.87	8.70
782	1215	3620.7	2.68	3.66	4.17	86	44.4	2990	3615.3	9.67	9.79	597	570	70.2	70.2	416	248354	164	48.6	2201	1621	2.03	1.79	1.73	5.79	9.86	8.70
783	1220	3621.0	4.08	3.65	4.16	86	43.2	3000	3615.4	9.66	9.79	598	556	70.1	70.0	415	248740	165	48.7	1381	1620	2.03	1.66	1.60	5.79	9.86	8.70
784	1224	3621.3	4.34	3.58	4.03	86	43.2	2980	3615.4	9.61	9.79	598	599	70.0	70.1	412	249102	165	48.7	1137	1619	2.03	1.65	1.58	5.80	9.85	8.70
785	1229	3621.6	3.77	3.63	4.28	86	44.2	2990	3615.5	9.55	9.81	597	595	70.0	70.5	410	249519	165	48.8	1418	1619	2.03	1.70	1.63	5.80	9.85	8.70
786	1234	3621.9	3.67	3.77	4.35	86	43.5	2970	3615.8	9.55	9.82	597	548	70.0	70.5	409	249947	166	48.9	1385	1618	2.04	1.70	1.63	5.80	9.85	8.70
787	1237	3622.3	5.16	3.72	4.06	86	43.8	2950	3616.0	9.55	9.81	596	574	70.0	70.4	408	250269	166	49.0	1045	1617	2.04	1.60	1.54	5.80	9.85	8.70
788	1242	3622.5	3.93	3.70	4.17	86	43.1	2960	3616.2	9.58	9.81	595	578	69.9	70.6	408	250645	166	49.0	1158	1616	2.04	1.67	1.61	5.80	9.84	8.70
789	1246	3622.9	4.57	3.54	4.05	86	44.1	2950	3616.3	9.60	9.82	596	568	70.1	70.2	409	250988	166	49.1	1097	1615	2.05	1.65	1.58	5.80	9.83	8.70
790	1250	3623.2	4.05	3.77	4.08	86	43.9	2950	3616.5	9.64	9.79	594	578	70.3	70.1	409	251376	167	49.2	1316	1615	2.05	1.68	1.61	5.80	9.82	8.70
791	1255	3623.5	4.24	3.74	4.25	86	43.6	2950	3616.7	9.68	9.81	594	612	70.2	70.1	408	251746	167	49.2	1211	1614	2.05	1.67	1.60	5.80	9.80	8.70
792	1258	3623.8	5.76	3.88	4.19	86	43.9	2940	3616.9	9.68	9.81	594	649	70.2	70.1	407	252019	167	49.3	868	1613	2.05	1.58	1.51	5.80	9.80	8.70
793	1302	3624.1	4.02	3.81	4.53	86	44.4	2930	3617.0	9.88	9.80	592	637	70.5	70.2	407	252419	168	49.4	1000	1612	2.06	1.69	1.62	5.80	9.79	8.70
794	1306	3624.4	4.57	3.97	4.57	86	43.9	2940	3617.2	9.91	9.79	592	666	70.4	70.2	407	252760	168	49.4	1036	1611	2.06	1.65	1.58	5.81	9.78	8.70
795	1309	3624.7	6.72	4.02	4.45	96	44.0	2920	3617.2	9.92	9.80	592	657	70.1	70.1	407	252993	168	49.5	758	1609	2.06	1.54	1.48	5.81	9.78	8.70
796	1314	3625.0	3.57	3.90	4.20	86	44.7	2920	3617.2	9.88	9.81	591	642	70.1	70.0	410	253429	169	49.6	1839	1609	2.06	1.73	1.66	5.81	9.78	8.70

AMOCO AUST. Tilana No.1 329262 Data Printed at time 03:47 Date Oct 28 '85
Data Recorded at time 13:17 Date Oct 22 '85 194

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR
797	1317	3625.3	5.70	3.70	4.12	86	43.9	2940	3617.2	9.85	9.81	592	645	70.0	70.2	409	253702	169	49.6	910	1608	2.07	1.59	1.52	5.81	9.78	8.70
798	1322	3625.6	4.08	3.77	4.16	86	43.8	2960	3617.3	9.91	9.83	592	632	70.0	70.1	412	254083	169	49.7	1166	1607	2.07	1.68	1.61	5.81	9.79	8.70
799	1327	3625.9	3.77	3.78	4.13	86	43.7	2960	3617.6	9.83	9.80	592	621	70.0	70.1	414	254497	169	49.8	1253	1606	2.07	1.70	1.63	5.81	9.80	8.70
800	1331	3626.2	3.92	3.64	4.06	86	43.8	2940	3617.9	9.82	9.79	593	651	69.9	70.0	415	254896	170	49.8	1316	1606	2.07	1.69	1.62	5.81	9.81	8.70
801	1335	3626.5	4.97	3.70	4.15	86	43.8	2940	3618.1	9.82	9.84	591	645	70.1	69.8	414	255208	170	49.9	1117	1605	2.08	1.62	1.55	5.81	9.82	8.70
802	1338	3626.8	5.67	3.25	7.66	85	44.1	2910	3618.8	9.79	9.83	587	669	69.3	70.2	414	255479	170	50.0	840	1603	2.08	1.58	1.51	5.81	9.82	8.70
803	1342	3627.1	5.03	3.13	4.15	85	45.4	2930	3619.0	9.79	9.83	587	612	69.8	70.2	414	255739	171	50.0	1058	1602	2.08	1.63	1.56	5.81	9.82	8.70
804	1351	3627.4	4.30	3.32	4.14	86	44.0	2860	3619.4	9.80	9.81	565	534	70.0	70.2	428	255967	171	50.1	492	1601	2.08	1.58	1.32	5.82	9.83	8.70
805	1355	3627.7	4.75	3.13	4.13	87	43.2	2940	3619.6	9.85	9.82	589	576	69.3	69.1	418	256298	171	50.1	1193	1600	2.08	1.62	1.56	5.82	9.85	8.70
806	1358	3628.0	5.93	3.79	4.34	87	41.9	2950	3619.8	9.85	9.82	589	577	69.8	69.1	413	256554	172	50.2	810	1598	2.09	1.55	1.48	5.82	9.85	8.70
807	1401	3628.3	5.91	4.07	4.39	87	41.6	2940	3620.0	9.78	9.80	589	606	69.4	69.7	410	256822	172	50.2	834	1597	2.09	1.54	1.47	5.82	9.86	8.70
808	1404	3628.7	5.71	4.09	4.48	87	42.0	2930	3620.2	9.79	9.81	590	609	69.3	70.0	411	257105	172	50.3	838	1596	2.09	1.56	1.49	5.82	9.87	8.70
809	1407	3629.0	5.60	3.98	4.36	87	42.0	2940	3620.4	9.85	9.81	590	617	69.2	69.8	408	257386	173	50.3	873	1594	2.09	1.56	1.49	5.82	9.87	8.70
810	1410	3629.3	5.94	4.04	4.50	87	41.8	2920	3620.5	9.85	9.81	590	609	69.2	69.8	407	257650	173	50.4	793	1593	2.09	1.54	1.47	5.82	9.87	8.70
811	1413	3629.6	6.21	4.13	4.46	87	43.0	2910	3620.7	9.88	9.79	589	573	69.3	69.7	405	257899	173	50.4	827	1591	2.10	1.54	1.47	5.82	9.88	8.70
812	1417	3629.9	7.52	3.51	7.85	87	40.0	2900	3620.9	9.90	9.81	586	563	69.2	69.8	406	258110	173	50.5	636	1590	2.10	1.45	1.39	5.82	9.88	8.70
813	1420	3630.2	5.45	3.94	4.38	87	41.9	2940	3621.1	9.89	9.77	593	574	69.5	70.4	405	258393	174	50.5	867	1589	2.10	1.56	1.49	5.82	9.89	8.70
814	1423	3630.5	5.97	4.10	4.52	87	42.8	2950	3621.3	9.89	9.77	593	562	69.5	70.4	406	258661	174	50.6	806	1587	2.10	1.55	1.48	5.83	9.90	8.70
815	1426	3630.8	6.21	4.09	4.43	87	42.4	2950	3621.5	9.92	9.78	594	609	69.4	70.2	407	258916	174	50.6	800	1586	2.10	1.53	1.46	5.83	9.90	8.70
816	1430	3631.1	4.82	4.11	4.46	88	42.1	2950	3621.7	9.93	9.81	594	593	69.2	69.9	404	259246	175	50.7	2177	1585	2.11	1.60	1.53	5.83	9.91	8.70
817	1434	3631.4	5.38	4.03	4.56	87	42.5	2940	3621.9	9.92	9.82	594	643	69.0	69.8	404	259540	175	50.7	906	1584	2.11	1.57	1.50	5.83	9.92	8.70
818	1437	3631.7	5.52	3.85	4.25	87	43.3	2960	3622.2	9.94	9.82	595	608	69.4	70.0	403	259823	175	50.8	943	1583	2.11	1.57	1.50	5.83	9.92	8.70
819	1441	3632.0	4.00	3.85	4.14	87	43.1	2960	3622.5	9.95	9.81	594	608	69.7	69.9	403	260224	176	50.9	1127	1582	2.11	1.66	1.59	5.83	9.93	8.70
820	1444	3632.3	7.57	3.99	4.27	87	43.0	2960	3622.7	9.95	9.81	594	618	69.7	69.9	401	260450	176	50.9	717	1581	2.12	1.48	1.41	5.83	9.94	8.70
821	1448	3632.6	3.72	3.92	4.54	87	42.7	2950	3623.0	9.93	9.80	595	629	69.7	70.0	400	260840	176	51.0	1035	1580	2.12	1.67	1.60	5.83	9.95	8.70
822	1455	3632.9	5.46	3.48	7.86	89	41.9	2970	3623.4	9.95	9.82	594	657	70.0	70.0	400	261132	176	51.0	993	1579	2.12	1.55	1.48	5.83	9.98	8.70
823	1459	3633.2	4.74	3.05	6.90	87	43.9	2970	3623.7	9.91	9.82	595	644	70.1	69.7	401	261465	177	51.1	1052	1578	2.12	1.61	1.54	5.83	9.99	8.70
824	1502	3633.5	5.72	4.04	4.39	88	43.9	2950	3623.9	9.91	9.82	594	630	70.1	69.7	398	261746	177	51.2	809	1577	2.12	1.56	1.49	5.84	9.99	8.70
825	1507	3633.8	4.05	3.95	4.78	88	43.4	2940	3624.4	9.91	9.83	595	665	70.0	69.6	398	262143	177	51.2	1494	1577	2.13	1.65	1.58	5.84	10.01	8.70
826	1511	3634.1	4.03	3.95	4.43	89	42.1	2950	3624.6	9.89	9.83	594	679	70.0	69.4	399	262518	178	51.3	1104	1575	2.13	1.63	1.56	5.84	10.02	8.70
827	1514	3634.4	5.13	4.05	4.37	88	42.8	2950	3624.9	9.93	9.83	594	679	69.9	69.5	398	262832	178	51.4	961	1574	2.13	1.57	1.50	5.84	10.03	8.70
828	1518	3634.8	4.88	4.01	4.33	88	42.5	2950	3625.1	9.98	9.82	595	673	69.8	69.5	397	263177	178	51.4	1006	1574	2.14	1.53	1.51	5.84	10.04	8.70
829	1522	3635.0	5.32	4.12	4.43	88	43.0	2940	3625.4	9.99	9.83	595	653	69.6	69.6	397	263464	179	51.5	925	1572	2.14	1.56	1.49	5.84	10.05	8.70
830	1525	3635.4	4.85	4.04	4.40	88	41.8	2950	3625.6	9.99	9.84	595	665	69.4	69.4	396	263810	179	51.5	1024	1571	2.14	1.57	1.50	5.84	10.05	8.70
831	1528	3635.7	6.56	4.20	4.58	88	43.2	2940	3625.8	9.99	9.84	595	659	69.4	69.4	396	264045	179	51.6	738	1570	2.14	1.51	1.44	5.84	10.05	8.70
832	1532	3636.0	4.41	4.25	4.52	88	43.7	2940	3626.2	10.0	9.82	594	647	69.5	69.6	396	264419	180	51.7	1172	1569	2.14	1.62	1.55	5.84	10.05	8.70
833	1535	3636.3	6.82	4.07	4.50	88	42.6	2940	3626.4	9.98	9.82	595	668	69.6	69.7	395	264647	180	51.7	730	1568	2.15	1.49	1.42	5.84	10.05	8.70
834	1539	3636.6	5.00	4.12	4.54	88	44.0	2950	3626.7	10.0	9.83	595	681	69.4	69.2	395	264968	180	51.8	979	1567	2.15	1.59	1.52	5.85	10.05	8.70
835	1547	3636.9	4.30	3.32	4.62	89	43.9	2980	3627.0	9.99	9.83	590	608	69.4	69.1	407	265173	180	51.8	515	1565	2.15	1.61	1.35	5.85	10.05	8.70
836	1550	3637.2	6.16	3.91	4.48	90	42.4	2990	3627.3	10.1	9.86	595	634	69.4	68.9	400	265465	181	51.9	862	1564	2.15	1.52	1.45	5.85	10.06	8.70
837	1553	3637.5	5.41	3.90	4.33	89	43.1	2980	3627.6	10.1	9.86	595	690	69.4	68.9	395	265710	181	51.9	722	1563	2.15	1.56	1.49	5.85	10.06	8.70
838	1558	3637.8	4.04	4.11	4.44	89	42.6	2980	3628.0	9.95	9.87	594	716	69.1	69.7	392	266112	181	52.0	1078	1562	2.16	1.63	1.56	5.85	10.06	8.70
839	1602	3638.1	4.46	4.02	4.42	89	42.7	2960	3628.4	9.92	9.86	592	685	68.9	69.7	391	266478	182	52.0	1140	1561	2.16	1.61	1.54	5.85	10.07	8.70
840	1605	3638.4	6.35	4.14	4.56	90	43.2	2970	3628.6	9.92	9.86	594	636	69.0	69.4	391	266735	182	52.1	793	1560	2.16	1.52	1.44	5.85	10.08	8.70
841	1609	3638.7	4.42	4.33	4.94	89	44.5	2960	3629.0	9.92	9.86	594	631	69.0	69.4	390	267130	182	52.2	1249	1560	2.16	1.63	1.56	5.85	10.08	8.70
842	1612	3639.0	5.22	4.09	4.41	89	43.1	2960	3629.3	9.94	9.87	593	690	69.1	69.4	389	267421	183	52.2	910	1558	2.17	1.57	1.49	5.85	10.09	8.70
843	1616	3639.3	4.20	3.93	4.38	90	43.7	2950	3629.8	9.94	9.87	593	675	69.1	69.4	389	267807	183	52.3	1036	1558	2.17	1.63	1.56	5.86	10.09	8.70
844	1621	3639.6	4.20	4.03	4.50	89	43.9	2970	3630.3	9.97	9.89	593	690	69.0	69.7	389	268194	183	52.4	1219	1557	2.17	1.63	1.56	5.86	10.10	8.70
845	1624	3639.9	5.75	3.95	4.38	89	43.3	2950	3630.6	9.94	9.89	592	690	69.1	69.5	388	268493	183	52.4	1052	1556	2.17	1.54	1.47	5.86	10.10	8.70
846	1628	3640.2	4.88	3.97	4.45	89	43.9	2980	3630.8	9.95	9.91	592	697	69.1	69.0	388	263807	184	52.5	1013	1555	2.18	1.59	1.52	5.86	10.11	8.70

AMOCO AUST. Tilana No.1 329263

Data Printed at time 08:51 Date Oct 28 '85
Data Recorded at time 16:31 Date Oct 22

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	MX	MXB	ECD	EST FM PR
847	1631	3640.5	5.04	4.00	4.37	90	42.8	2970	3631.1	9.95	9.91	591	677	69.1	69.0	387	269130	184	52.5	971	1554	2.18	1.57	1.50	5.86	10.11	8.70
848	1635	3640.8	4.59	4.08	4.42	89	42.3	2970	3631.4	9.95	9.89	593	690	69.1	69.3	387	269501	184	52.6	1197	1554	2.18	1.59	1.52	5.86	10.11	8.70
849	1639	3641.2	5.92	3.98	4.33	89	43.7	2980	3631.7	9.96	9.90	593	724	69.1	69.6	387	269775	185	52.7	942	1552	2.18	1.53	1.46	5.86	10.11	8.70
850	1642	3641.4	4.86	3.84	4.24	89	43.0	2950	3632.0	9.89	9.90	591	710	69.1	69.5	388	270095	185	52.7	996	1551	2.19	1.58	1.51	5.86	10.11	8.70
851	1646	3641.8	4.85	3.92	4.44	89	43.3	2970	3632.2	9.90	9.92	594	696	69.1	69.1	391	270443	185	52.8	1043	1551	2.19	1.58	1.51	5.86	10.12	8.70
852	1649	3642.1	5.03	3.87	4.28	89	44.0	2970	3632.3	9.92	9.90	593	689	69.0	69.3	388	270755	186	52.8	981	1550	2.19	1.58	1.51	5.86	10.12	8.70
853	1654	3642.4	3.93	3.82	4.34	89	43.4	2930	3633.1	9.92	9.88	593	697	69.0	69.4	389	271168	186	52.9	1078	1549	2.19	1.64	1.57	5.87	10.12	8.70
854	1658	3642.7	4.69	3.90	4.39	89	42.9	3040	3633.5	9.92	9.91	600	691	69.1	69.3	387	271521	186	53.0	1140	1548	2.20	1.59	1.51	5.87	10.12	8.70
855	1701	3643.0	6.11	3.76	4.45	89	44.5	3010	3633.7	9.92	9.91	599	699	69.1	69.3	387	271780	187	53.0	855	1547	2.20	1.53	1.46	5.87	10.12	8.70
856	1705	3643.3	4.62	3.76	4.35	89	44.4	3020	3633.9	9.91	9.90	597	717	69.1	69.5	384	272131	187	53.1	943	1546	2.20	1.61	1.54	5.87	10.12	8.70
857	1708	3643.6	6.13	3.84	4.15	89	43.5	3020	3634.1	9.89	9.90	597	668	69.1	69.4	383	272397	187	53.1	845	1545	2.20	1.52	1.45	5.87	10.12	8.70
858	1712	3643.9	4.12	3.92	4.35	89	43.9	3020	3634.5	9.90	9.89	598	689	68.9	69.5	386	272792	187	53.2	1609	1545	2.21	1.64	1.56	5.87	10.11	8.70
859	1717	3644.2	3.83	3.98	4.31	89	44.3	3020	3634.9	9.91	9.89	598	666	68.9	69.5	387	273215	188	53.3	1244	1544	2.21	1.66	1.59	5.87	10.11	8.70
860	1720	3644.5	6.22	3.90	4.30	90	43.0	3030	3635.2	9.90	9.89	599	664	69.2	69.4	387	273478	188	53.3	937	1543	2.21	1.51	1.44	5.87	10.11	8.70
861	1724	3644.8	5.16	3.96	4.35	90	43.5	3020	3635.5	9.90	9.89	599	682	69.2	69.4	388	273793	188	53.4	996	1542	2.21	1.57	1.50	5.87	10.11	8.70
862	1728	3645.1	4.25	3.99	4.37	89	43.7	3030	3635.8	9.90	9.88	598	686	69.3	69.7	387	274175	189	53.5	1111	1542	2.22	1.62	1.55	5.87	10.11	8.70
863	1732	3645.4	4.57	3.84	4.24	89	43.9	3020	3636.2	9.91	9.88	598	671	69.5	69.7	389	274530	189	53.5	1112	1541	2.22	1.61	1.53	5.88	10.11	8.70
864	1736	3645.7	4.03	3.69	4.26	89	44.0	3020	3636.4	9.91	9.89	599	677	69.4	69.8	387	274933	189	53.6	1213	1540	2.22	1.64	1.57	5.88	10.11	8.70
865	1740	3646.0	5.25	3.65	4.17	89	44.1	3020	3636.7	9.90	9.88	598	683	69.5	68.9	387	275243	190	53.7	983	1539	2.22	1.57	1.50	5.88	10.11	8.70
866	1755	3646.3	4.10	3.32	4.20	90	33.3	3030	3637.5	9.91	9.86	593	652	69.6	70.2	395	275410	190	53.7	532	1538	2.23	1.58	1.18	5.88	10.10	8.70
867	1755	3646.6	4.30	3.24	3.82	90	38.3	3040	3637.5	9.91	9.86	594	667	69.6	70.2	394	275435	190	53.7	77	1536	2.23	1.60	.82	5.88	10.10	8.70
868	1757	3646.9	4.10	3.94	4.40	91	43.2	3040	3637.7	9.88	9.88	597	706	69.5	68.8	389	275630	190	53.7	934	1534	2.23	1.58	1.38	5.88	10.10	8.70
869	1802	3647.2	3.90	3.73	4.21	91	43.9	3020	3638.1	9.80	9.86	597	691	69.3	69.5	385	276053	191	53.8	1093	1533	2.23	1.66	1.59	5.88	10.09	8.70
870	1807	3647.6	3.66	3.90	4.30	91	43.5	3040	3638.5	9.79	9.86	598	678	69.2	69.2	383	276525	191	53.9	1504	1533	2.23	1.67	1.60	5.88	10.09	8.70
871	1812	3647.9	3.57	3.75	4.24	88	43.4	3040	3639.5	9.81	9.87	598	658	69.1	69.4	383	276973	191	54.0	1478	1533	2.24	1.67	1.60	5.88	10.08	8.70
872	1816	3648.2	4.97	3.84	4.25	88	42.1	3020	3639.7	9.80	9.88	598	662	69.2	70.0	382	277293	192	54.1	1088	1532	2.24	1.56	1.49	5.88	10.08	8.70
873	1820	3648.5	4.34	3.93	4.19	87	43.8	3010	3640.0	9.81	9.86	597	710	69.2	70.3	382	277658	192	54.1	1361	1532	2.24	1.62	1.55	5.89	10.08	8.70
874	1825	3648.8	3.32	3.89	4.24	87	43.8	3000	3640.4	9.81	9.90	596	665	69.4	69.0	382	278125	192	54.2	1429	1531	2.25	1.69	1.62	5.89	10.07	8.70
875	1829	3649.1	5.32	3.72	4.04	88	43.3	3000	3640.7	9.81	9.87	595	690	69.5	69.6	381	278432	193	54.3	1053	1531	2.25	1.56	1.49	5.89	10.07	8.70
876	1835	3649.4	3.19	3.77	4.26	88	44.1	2980	3641.1	9.81	9.87	594	652	69.5	69.6	380	278922	193	54.4	1267	1530	2.25	1.71	1.64	5.89	10.07	8.70
877	1842	3649.7	2.64	3.77	4.27	88	43.8	3000	3641.7	9.84	9.86	596	672	69.6	70.1	384	279537	193	54.5	1849	1531	2.26	1.76	1.69	5.89	10.05	8.70
878	1845	3650.0	5.80	3.70	4.11	88	44.4	3000	3641.9	9.84	9.89	595	676	69.7	69.7	383	279812	194	54.5	944	1530	2.26	1.55	1.48	5.89	10.05	8.70
879	1850	3650.3	3.33	3.77	4.18	88	43.8	3020	3642.3	9.83	9.90	598	699	69.7	69.5	384	280288	194	54.6	1653	1530	2.26	1.70	1.62	5.89	10.04	8.70
880	1855	3650.6	3.78	3.78	4.30	87	43.2	3020	3642.7	9.83	9.89	597	691	69.8	69.9	383	280708	194	54.7	1334	1530	2.26	1.66	1.58	5.89	10.04	8.70
881	1900	3650.9	3.67	3.72	4.17	87	44.3	3010	3643.0	9.82	9.90	597	706	69.7	69.8	382	281141	194	54.8	1474	1529	2.27	1.68	1.61	5.89	10.03	8.70
882	1904	3651.2	4.00	3.76	4.20	88	43.8	3010	3643.4	9.81	9.90	596	709	69.6	69.9	381	281540	195	54.9	1251	1529	2.27	1.65	1.58	5.90	10.03	8.70
883	1908	3651.5	5.66	3.82	4.42	87	43.6	3020	3643.6	9.81	9.91	596	686	69.6	69.8	380	281822	195	54.9	957	1528	2.27	1.55	1.48	5.90	10.03	8.70
884	1913	3651.8	3.53	3.78	4.34	88	43.7	3010	3644.0	9.80	9.90	595	634	69.6	69.7	390	282272	195	55.0	1633	1528	2.28	1.69	1.61	5.90	10.02	8.70
885	1917	3652.1	4.35	3.79	4.25	88	43.9	3020	3644.4	9.81	9.89	595	672	69.3	69.4	394	282639	196	55.1	1263	1527	2.28	1.63	1.56	5.90	10.02	8.70
886	1922	3652.4	3.90	3.68	4.16	88	43.7	3020	3644.7	9.83	9.89	595	625	68.5	69.4	399	283048	196	55.1	1265	1527	2.28	1.66	1.58	5.90	10.02	8.70
887	1926	3652.7	4.12	3.72	4.13	88	43.6	3020	3645.0	9.83	9.90	595	614	68.0	68.8	402	283434	196	55.2	1132	1526	2.28	1.64	1.57	5.90	10.01	8.70
888	1931	3653.0	3.39	3.68	4.26	88	44.9	3020	3645.4	9.84	9.88	594	624	67.5	69.3	408	283905	197	55.3	1812	1526	2.29	1.71	1.64	5.90	10.01	8.70
889	1936	3653.4	4.23	3.69	4.17	87	44.0	3030	3645.7	9.85	9.89	595	604	67.3	68.9	412	284307	197	55.4	1195	1526	2.29	1.64	1.56	5.90	10.00	8.70
890	1942	3653.6	3.03	3.70	4.31	88	43.5	3020	3645.9	9.84	9.88	594	599	67.0	69.0	413	284797	197	55.5	1522	1526	2.29	1.73	1.65	5.90	10.00	8.70
891	1946	3653.9	4.16	3.74	4.20	87	44.2	3020	3646.1	9.85	9.86	594	591	67.2	69.0	413	285180	198	55.6	1104	1525	2.30	1.65	1.57	5.90	9.99	8.70
892	1953	3654.2	2.77	3.85	4.30	87	43.8	3010	3646.8	9.70	9.70	595	670	67.4	68.9	418	285756	198	55.7	2163	1526	2.30	1.76	1.68	5.91	9.99	8.70
893	1957	3654.6	3.84	3.76	4.25	87	44.2	3020	3647.1	9.70	9.70	596	690	67.5	68.6	415	286172	198	55.7	1394	1525	2.30	1.67	1.60	5.91	9.99	8.70
894	2002	3654.9	3.90	3.68	4.04	88	43.6	3010	3647.4	9.70	9.70	595	670	67.6	68.8	415	286580	198	55.8	1203	1525	2.31	1.66	1.59	5.91	9.99	8.70
895	2008	3655.2	3.17	3.71	4.10	88	44.2	3020	3647.7	9.70	9.70	596	671	67.8	68.2	418	287083	199	55.9	1498	1525	2.31	1.73	1.65	5.91	9.99	8.70
896	2013	3655.5	3.67	3.66	4.17	88	43.8	3010	3648.1	9.70	9.70	595	661	67.7	68.6	419	287537	199	56.0	1241	1525	2.31	1.68	1.61	5.91	9.99	8.70

AMOCO AUST. Tilana No.1 329264 Data Printed at time 08:55 Date Oct 28 '85
Data Recorded at time 21:30 Date Oct 22 '85 196

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	MX	MXB	ECD	EST FM PR
897	2130	3655.8	3.23	3.65	4.04	87	43.1	3020	3653.2	9.70	9.70	595	647	68.6	68.4	433	286357	199	55.8	1379	1516	2.31	1.73	1.65	5.91	9.90	8.70
898	2130	3656.3	3.60	3.65	3.32	87	43.1	3010	3653.2	9.70	9.70	595	646	68.6	68.4	433	286372	200	55.8	1902	1513	2.31	1.68	1.64	5.91	9.90	8.70
899	2131	3656.5	3.50	3.65	3.34	87	43.1	3010	3652.5	9.70	9.70	595	643	68.6	68.4	432	286386	196	55.8	2642	1542	2.31	1.70	1.65	5.90	9.90	8.70
900	2131	3656.9	3.75	3.65	3.87	87	43.1	3000	3652.5	9.70	9.70	595	642	68.6	68.4	433	286398	200	55.8	2994	1542	2.31	1.68	1.65	5.91	9.90	8.70
901	2131	3657.3	3.71	3.65	3.93	87	43.1	3000	3652.5	9.70	9.70	595	654	68.6	68.4	432	286427	201	55.8	5338	1539	2.31	1.66	1.66	5.92	9.90	8.70
902	2131	3657.5	3.50	3.65	3.97	87	43.1	3000	3652.5	9.70	9.70	595	654	68.6	68.4	432	286439	201	55.8	8981	1504	2.31	1.70	1.65	5.92	9.90	8.70
903	2131	3657.9	3.55	3.65	3.56	87	43.1	3000	3652.5	9.70	9.70	595	659	68.6	68.4	432	286452	201	55.8	3256	1501	2.31	1.75	1.65	5.92	9.90	8.70
904	2131	3658.3	3.41	3.65	3.72	87	43.1	3000	3652.5	9.70	9.70	595	659	68.6	68.4	432	286469	202	55.8	3201	1493	2.31	1.81	1.66	5.92	9.90	8.70
905	2132	3658.5	3.65	3.65	3.76	87	43.1	3010	3652.5	9.70	9.70	595	657	68.6	68.4	431	286486	202	55.8	2684	1497	2.31	1.72	1.65	5.92	9.90	8.70
906	2132	3659.0	3.52	3.65	3.93	87	43.1	3010	3652.5	9.70	9.70	595	654	68.6	68.4	432	286504	203	55.8	2654	1494	2.31	1.65	1.65	5.92	9.90	8.70
907	2141	3659.4	2.99	3.72	4.40	88	43.7	3020	3653.0	9.70	9.70	595	642	68.6	68.1	433	287325	203	56.0	4418	1494	2.31	1.76	1.68	5.92	9.90	8.70
908	2146	3659.7	3.94	4.08	4.61	87	44.0	3020	3653.2	9.70	9.70	595	651	68.9	68.2	433	287729	203	56.0	1300	1494	2.32	1.69	1.61	5.92	9.90	8.70
909	2152	3660.1	2.92	4.11	4.57	87	44.0	3010	3653.6	9.70	9.70	595	646	69.0	68.2	437	288299	204	56.1	1634	1494	2.32	1.77	1.69	5.93	9.90	8.70
910	2159	3660.3	2.81	4.20	4.74	87	43.8	3020	3653.9	9.70	9.70	595	672	68.9	67.8	436	288839	204	56.2	1788	1494	2.32	1.78	1.70	5.93	9.90	8.70
911	2204	3660.7	3.65	4.25	4.65	87	43.3	3020	3654.1	9.70	9.70	595	648	68.9	67.6	439	289293	204	56.3	1458	1494	2.33	1.70	1.62	5.93	9.90	8.70
912	2210	3661.0	2.82	4.23	4.70	87	43.9	3030	3654.5	9.70	9.70	594	645	68.8	68.0	438	289831	205	56.4	1863	1495	2.33	1.78	1.70	5.93	9.90	8.70
913	2215	3661.3	3.58	4.26	4.77	87	43.5	3020	3654.7	9.70	9.70	594	659	68.8	67.8	438	290277	205	56.5	1242	1495	2.33	1.71	1.63	5.93	9.90	8.70
914	2222	3661.6	2.80	4.54	4.95	87	43.5	3030	3655.0	9.70	9.70	594	651	68.7	67.7	438	290861	205	56.6	1819	1495	2.34	1.78	1.70	5.93	9.90	8.70
915	2226	3661.9	4.58	4.35	4.76	87	43.8	3030	3655.2	9.70	9.70	594	639	68.7	67.7	437	291199	205	56.7	1051	1494	2.34	1.64	1.57	5.93	9.90	8.70
916	2231	3662.2	3.53	4.27	4.72	87	44.3	3030	3655.5	9.70	9.70	594	596	68.9	67.4	436	291649	206	56.8	1278	1494	2.34	1.73	1.65	5.93	9.90	8.70
917	2237	3662.5	2.83	4.29	4.66	87	44.1	3020	3655.8	9.70	9.70	594	596	68.8	67.6	435	292221	206	56.9	1818	1495	2.35	1.79	1.71	5.93	9.90	8.70
918	2242	3662.8	4.27	4.18	4.58	87	43.9	3030	3656.0	9.70	9.70	594	617	68.6	67.5	436	292537	206	57.0	1120	1494	2.35	1.67	1.59	5.93	9.90	8.70
919	2248	3663.1	2.84	4.25	4.68	87	44.0	3020	3656.4	9.70	9.70	594	580	68.6	67.4	436	293152	207	57.1	1813	1495	2.35	1.79	1.71	5.94	9.90	8.70
920	2253	3663.4	3.61	4.22	4.64	87	43.8	3010	3657.6	9.70	9.70	594	610	68.4	67.7	436	293589	207	57.2	1447	1494	2.36	1.72	1.64	5.94	9.90	8.70
921	2258	3663.7	4.03	4.22	4.53	87	44.2	3030	3657.8	9.70	9.70	594	598	68.4	67.7	435	293934	207	57.2	1271	1494	2.36	1.69	1.61	5.94	9.90	8.70
922	2304	3664.0	2.72	4.23	4.81	88	44.3	3030	3658.0	9.69	9.68	594	625	68.6	67.6	432	294571	208	57.3	1897	1495	2.36	1.81	1.73	5.94	9.79	8.70
923	2310	3664.3	3.14	3.98	4.64	88	44.3	3020	3658.3	9.74	9.69	594	600	68.0	67.8	432	295031	208	57.4	1592	1495	2.37	1.77	1.69	5.94	9.79	8.70
924	2316	3664.6	2.93	3.85	4.31	88	43.5	3020	3658.6	9.80	9.70	594	581	53.4	68.0	431	295627	208	57.5	1641	1495	2.37	1.78	1.70	5.94	9.79	8.70
925	2320	3664.9	4.61	3.58	4.04	88	43.6	2980	3658.7	9.80	9.72	592	580	58.7	68.2	432	295974	208	57.6	1155	1494	2.37	1.65	1.57	5.94	9.79	8.70
+ Tight on connection at 3665m. Pump high vis. pill.																											
	Date	Oct 23 '85																									
927	0027	3665.2	1.81	3.59	7.86	90	24.4	3060	3661.6	9.57	9.75	592	665	67.1	68.3	440	297080	209	57.8	2638	1497	2.38	1.62	1.55	5.94	9.81	8.70
928	0030	3665.5	7.47	4.22	7.42	95	38.1	3030	3661.7	9.55	9.76	593	665	67.3	68.1	441	297312	209	57.9	685	1496	2.38	1.47	1.39	5.94	9.82	8.70
929	0035	3665.8	3.26	3.10	6.62	101	38.4	3050	3661.9	9.48	9.76	594	661	67.6	68.1	444	297825	209	57.9	1330	1496	2.39	1.71	1.63	5.94	9.83	8.70
930	0040	3666.1	4.07	3.10	3.57	91	39.0	3040	3662.1	9.43	9.75	592	632	67.4	68.1	444	298231	210	58.0	1234	1495	2.39	1.63	1.55	5.95	9.83	8.70
931	0045	3666.4	3.63	3.19	3.70	90	38.0	3050	3662.4	9.43	9.75	593	631	67.6	68.0	442	298685	210	58.1	1400	1495	2.39	1.65	1.57	5.95	9.83	8.70
932	0049	3666.7	3.78	3.21	6.37	89	37.2	3050	3662.6	9.51	9.75	595	658	68.0	68.2	441	299117	210	58.2	1311	1495	2.40	1.62	1.54	5.95	9.82	8.70
933	0053	3667.0	4.86	3.17	3.69	90	37.6	3050	3662.9	9.51	9.75	596	662	68.1	67.9	441	299454	211	58.2	1011	1494	2.40	1.56	1.49	5.95	9.82	8.70
934	0058	3667.4	3.86	3.26	4.28	89	37.9	3050	3663.1	9.53	9.74	597	622	67.9	68.0	442	299901	211	58.3	1151	1494	2.40	1.63	1.55	5.95	9.81	8.70
935	0102	3667.7	4.04	4.05	7.38	88	38.1	3050	3663.3	9.58	9.73	596	640	67.9	68.3	442	300272	211	58.4	1212	1494	2.41	1.61	1.54	5.95	9.80	8.70
936	0107	3668.0	3.57	3.51	6.36	88	39.7	3050	3663.6	9.58	9.75	596	611	67.7	67.8	442	300697	212	58.5	1512	1493	2.41	1.67	1.59	5.95	9.79	8.70
937	0112	3668.3	4.25	3.30	3.86	86	38.2	3060	3663.8	9.58	9.74	596	615	67.3	67.9	443	301082	212	58.5	1187	1493	2.41	1.60	1.52	5.95	9.79	8.70
938	0116	3668.6	4.00	3.24	3.70	86	38.7	2980	3664.1	9.56	9.75	590	648	67.3	67.7	443	301474	212	58.6	1394	1493	2.41	1.62	1.55	5.95	9.78	8.70
939	0119	3668.9	5.83	3.38	3.74	87	39.3	2970	3664.2	9.56	9.76	588	607	67.3	67.7	442	301735	212	58.7	807	1492	2.42	1.53	1.45	5.96	9.78	8.70
940	0125	3669.2	3.51	3.54	3.83	87	39.8	2980	3664.3	9.60	9.74	588	625	67.2	67.6	443	302198	213	58.8	1556	1492	2.42	1.68	1.60	5.96	9.77	8.70
941	0129	3669.5	4.08	3.44	3.70	87	38.9	2990	3664.3	9.64	9.74	588	632	67.2	67.6	443	302573	213	58.8	1240	1491	2.42	1.62	1.55	5.96	9.77	8.70
942	0133	3669.8	4.17	3.43	4.23	87	39.5	2970	3664.3	9.64	9.74	589	617	66.9	67.5	443	302951	213	58.9	1235	1491	2.42	1.63	1.55	5.96	9.76	8.70
943	0138	3670.1	3.47	3.30	4.09	87	40.4	3010	3664.3	9.69	9.76	592	573	66.6	67.2	446	303407	214	59.0	1521	1491	2.43	1.69	1.61	5.96	9.75	8.70
944	0142	3670.4	5.48	3.12	3.84	87	39.2	3020	3664.4	9.69	9.76	592	566	66.5	67.1	444	303700	214	59.0	1058	1490	2.43	1.55	1.47	5.96	9.74	8.70
945	0146	3670.7	4.60	3.50	4.86	86	39.3	3020	3664.4	9.68	9.76	592	597	66.5	67.1	443	304040	214	59.1	1223	1489	2.43	1.60	1.52	5.96	9.74	8.70

AMOCO AUST. Tilana No.1 329265 Data Printed at time 03:59 Date Oct 28 Data Recorded at time 01:50 Date Oct 23 197

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TV	DXC	NX	NKB	ECD	EST FM P
946	0150	3671.0	4.03	4.23	4.77	85	39.4	3020	3664.4	9.68	9.76	592	568	66.5	67.1	444	304426	215	59.2	1203	1489	2.44	1.63	1.56	5.96	9.74	8.70
947	0154	3671.3	4.45	4.22	4.65	86	40.0	3020	3664.4	9.68	9.77	592	579	66.4	67.1	444	304775	215	59.3	1140	1488	2.44	1.62	1.54	5.96	9.75	8.70
948	0200	3671.6	3.44	4.29	4.71	87	40.2	3030	3664.4	9.69	9.77	592	599	62.1	66.8	443	305234	215	59.3	1223	1488	2.44	1.69	1.61	5.96	9.75	8.70
949	0205	3671.9	3.74	4.33	4.82	87	40.1	3040	3664.4	9.68	9.77	592	575	62.1	66.8	444	305655	215	59.4	1375	1488	2.44	1.67	1.59	5.97	9.75	8.70
950	0208	3672.2	4.65	4.35	4.85	87	39.9	3030	3664.4	9.68	9.77	591	557	66.4	66.6	443	305995	216	59.5	1120	1488	2.45	1.61	1.52	5.97	9.75	8.70
951	0213	3672.5	3.90	4.46	5.04	87	42.3	3040	3664.4	9.68	9.76	591	590	66.4	66.7	443	306399	216	59.6	1265	1487	2.45	1.68	1.60	5.97	9.75	8.70
952	0218	3672.8	3.43	4.33	4.73	87	41.1	3030	3664.4	9.71	9.76	589	589	66.3	66.7	444	306860	216	59.7	1553	1487	2.45	1.71	1.62	5.97	9.75	8.70
953	0222	3673.1	5.49	4.53	4.92	87	39.9	3030	3664.7	9.74	9.74	589	593	66.3	67.2	454	307148	217	59.7	1072	1487	2.45	1.56	1.48	5.97	9.75	8.70
954	0226	3673.4	4.70	4.42	5.31	87	41.6	3030	3665.0	9.73	9.74	588	621	65.9	67.7	464	307484	217	59.8	1100	1486	2.46	1.62	1.54	5.97	9.75	8.70
955	0230	3673.8	4.03	4.45	5.05	87	40.3	3030	3665.3	9.65	9.75	587	600	64.8	67.4	472	307876	217	59.9	1249	1485	2.46	1.65	1.57	5.97	9.74	8.70
956	0233	3674.1	6.52	4.39	7.76	83	39.9	3040	3665.5	9.64	9.76	587	629	64.1	67.4	480	308125	218	59.9	809	1484	2.46	1.50	1.42	5.97	9.75	8.70
957	0237	3674.4	4.48	4.32	7.67	98	40.5	3040	3665.7	9.68	9.77	588	627	63.4	67.5	439	308521	218	60.0	972	1484	2.46	1.66	1.57	5.97	9.76	8.70
958	0250	3674.7	4.46	3.62	5.61	89	41.9	2970	3666.3	9.76	9.76	570	545	62.5	67.4	537	308749	218	60.0	993	1483	2.47	1.69	1.60	5.97	9.77	8.70
959	0250	3675.0	3.87	3.48	4.73	93	43.7	2980	3666.4	9.76	9.76	576	562	62.5	67.4	537	308803	219	60.0	1204	1481	2.47	1.70	1.63	5.98	9.77	8.70
960	0255	3675.3	3.86	4.79	5.19	97	41.3	3010	3666.7	9.80	9.80	583	594	62.1	66.9	533	309240	219	60.1	1275	1481	2.47	1.70	1.62	5.98	9.78	8.70
961	0258	3675.6	5.63	4.50	4.95	87	40.3	3010	3666.9	9.78	9.81	583	603	61.5	66.4	536	309523	219	60.1	923	1480	2.47	1.55	1.47	5.98	9.79	8.70
962	0301	3675.9	7.02	4.35	4.83	87	41.5	3010	3667.1	9.68	9.82	583	551	61.3	66.0	539	309760	219	60.2	862	1479	2.47	1.50	1.42	5.98	9.80	8.70
963	0304	3676.2	6.39	4.29	4.65	87	41.8	3030	3667.3	9.66	9.78	583	533	61.2	66.4	542	309994	220	60.2	834	1478	2.48	1.53	1.45	5.98	9.80	8.70
964	0308	3676.5	4.25	4.21	4.69	87	41.8	3020	3667.5	9.68	9.77	584	645	60.9	66.5	549	310383	220	60.3	1367	1477	2.48	1.64	1.56	5.98	9.81	8.70
965	0312	3676.8	4.74	4.10	4.58	87	39.9	3020	3667.8	9.68	9.77	583	615	60.9	66.5	549	310702	220	60.4	1033	1477	2.48	1.59	1.51	5.98	9.82	8.70
966	0316	3677.1	4.12	4.09	4.43	87	40.2	3030	3668.2	9.64	9.78	584	611	14.7	65.4	550	311101	221	60.4	1214	1476	2.48	1.63	1.55	5.98	9.83	8.70
967	0320	3677.4	5.53	4.21	4.69	87	40.4	3030	3668.4	9.64	9.78	585	611	14.7	65.4	550	311378	221	60.5	884	1476	2.49	1.55	1.47	5.98	9.83	8.70
968	0324	3677.7	4.24	4.11	4.66	87	41.3	3030	3668.7	9.64	9.77	587	599	60.7	65.5	550	311760	221	60.6	1340	1475	2.49	1.63	1.55	5.99	9.83	8.70
969	0327	3678.0	5.62	4.10	4.54	87	40.5	3030	3668.9	9.64	9.78	586	612	42.5	65.5	550	312034	222	60.6	847	1474	2.49	1.55	1.46	5.99	9.84	8.70
970	0330	3678.3	5.62	4.19	4.63	87	40.7	2740	3669.1	9.67	9.79	586	616	60.8	65.5	550	312321	222	60.7	894	1474	2.49	1.55	1.47	5.99	9.84	8.70
971	0336	3678.6	5.18	4.01	4.62	87	37.4	2970	3669.4	9.70	9.80	491	427	60.7	65.2	553	312626	222	60.7	1035	1473	2.49	1.53	1.45	5.99	9.82	8.70
972	0339	3678.9	6.12	4.32	5.00	88	47.6	2990	3669.6	9.72	9.83	581	613	60.0	65.1	549	312889	223	60.8	887	1472	2.50	1.61	1.52	5.99	9.85	8.70
973	0342	3679.2	5.94	4.39	4.78	87	45.9	2990	3669.8	9.72	9.83	581	648	60.0	65.1	547	313156	223	60.8	848	1471	2.50	1.59	1.51	5.99	9.85	8.70
974	0348	3679.5	4.00	4.60	7.85	94	43.2	2990	3670.3	9.66	9.89	581	613	62.9	64.8	548	313584	223	60.9	1604	1471	2.50	1.69	1.61	5.99	9.85	8.70
975	0351	3679.9	7.16	4.52	5.11	94	46.4	3000	3670.5	9.65	9.90	581	623	62.1	65.5	547	313817	223	61.0	700	1470	2.50	1.57	1.48	5.99	9.85	8.70
976	0354	3680.2	6.75	4.62	5.12	87	45.6	2990	3670.6	9.65	9.90	581	631	62.1	65.5	547	314051	224	61.0	857	1469	2.50	1.55	1.47	5.99	9.85	8.70
977	0357	3680.5	5.73	4.47	4.92	87	46.8	2990	3670.8	9.62	9.98	581	631	58.4	65.4	546	314326	224	61.1	979	1468	2.51	1.61	1.52	5.99	9.85	8.70
978	0401	3680.8	4.68	4.52	5.00	87	45.1	2990	3671.0	9.62	10.0	581	630	62.0	65.8	544	314663	224	61.1	1064	1467	2.51	1.65	1.56	6.00	9.85	8.70
979	0403	3681.1	7.20	4.46	4.96	86	47.1	3000	3671.2	9.62	10.0	582	670	62.0	65.8	544	314882	225	61.2	691	1466	2.51	1.55	1.46	6.00	9.85	8.70
980	0407	3681.4	4.41	4.42	4.98	87	46.0	2990	3671.5	9.62	9.99	582	656	62.3	65.5	546	315240	225	61.2	959	1466	2.51	1.68	1.59	6.00	9.85	8.70
981	0412	3681.7	6.92	4.19	5.77	89	45.3	2940	3671.7	9.62	9.99	559	542	62.3	65.5	553	315490	225	61.3	776	1465	2.51	1.56	1.47	6.00	9.84	8.70
982	0416	3682.0	4.81	4.50	5.09	94	46.4	2990	3672.0	9.64	9.98	584	637	63.2	65.3	548	315836	226	61.3	1183	1464	2.52	1.68	1.59	6.00	9.85	8.70
983	0420	3682.3	4.97	4.35	5.05	89	45.6	2980	3672.2	9.66	9.93	582	633	63.6	65.4	547	316163	226	61.4	1046	1464	2.52	1.65	1.56	6.00	9.84	8.70
984	0425	3682.6	3.93	4.40	5.10	89	45.4	2930	3672.6	9.64	9.94	583	646	63.6	65.1	546	316576	226	61.5	1250	1463	2.52	1.71	1.62	6.00	9.84	8.70
985	0429	3682.9	4.35	4.16	4.75	89	46.1	2940	3672.9	9.64	9.93	583	633	63.6	65.3	546	316948	226	61.5	1213	1463	2.52	1.69	1.60	6.00	9.84	8.70
986	0434	3683.2	3.46	4.08	4.70	89	46.0	3000	3673.3	9.62	9.92	587	633	63.7	65.2	544	317416	227	61.6	1279	1463	2.53	1.76	1.67	6.00	9.84	8.70
987	0439	3683.5	3.59	4.04	4.54	89	45.8	3020	3673.7	9.62	9.92	588	621	63.3	65.3	546	317892	227	61.7	1414	1463	2.53	1.74	1.66	6.01	9.84	8.70
988	0445	3683.8	2.89	4.20	4.72	89	45.4	2990	3673.9	9.77	9.96	588	634	63.6	65.2	544	318424	227	61.8	1789	1463	2.54	1.80	1.71	6.01	9.83	8.70
989	0459	3684.1	6.67	3.48	7.58	97	41.8	3040	3674.8	9.79	9.88	589	591	63.6	65.2	561	318754	228	61.9	653	1462	2.54	1.55	1.46	6.01	9.83	8.70
990	0502	3684.4	4.72	3.57	4.36	94	47.3	2990	3675.2	9.86	9.76	584	589	63.3	65.2	560	319036	228	61.9	2127	1462	2.54	1.70	1.61	6.01	9.83	8.70
991	0507	3684.7	3.46	4.03	4.55	90	46.0	2960	3675.7	9.82	9.72	586	601	63.2	65.1	558	319510	228	62.0	1662	1462	2.54	1.76	1.67	6.01	9.83	8.70
992	0510	3685.0	5.79	4.02	4.61	84	45.2	2920	3675.9	9.79	9.74	584	591	60.1	64.9	552	319775	229	62.1	907	1461	2.54	1.58	1.50	6.01	9.83	8.70
993	0515	3685.3	3.50	4.13	4.56	84	46.5	2970	3676.3	9.78	9.79	582	579	59.4	64.8	553	320211	229	62.2	1096	1461	2.55	1.74	1.66	6.01	9.83	8.70
994	0522	3685.6	2.54	4.17	4.72	81	46.5	3030	3676.8	9.80	9.78	588	593	61.9	64.8	553	320791	229	62.3	1870	1461	2.55	1.82	1.74	6.01	9.84	8.70
995	0530	3685.9	2.35	4.00	4.49	80	46.5	3030	3677.5	9.80	9.78	588	563	62.9	64.8	552	321409	230	62.4	2076	1462	2.56	1.84	1.76	6.01	9.84	8.70

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MK	MKB	ECD	EST FM PR
996	0538	3686.3	2.37	4.36	5.17	79	45.8	3040	3678.2	9.82	9.77	538	615	58.2	64.6	552	322021	230	62.5	2136	1463	2.56	1.83	1.74	6.01	9.85	8.70
997	0549	3686.6	2.67	4.04	5.58	82	42.5	2910	3678.8	9.83	9.74	575	570	62.7	64.4	563	322521	230	62.7	2033	1464	2.56	1.75	1.67	6.02	9.86	8.70
998	0554	3686.9	3.37	4.61	7.47	88	45.3	2940	3679.4	9.79	9.76	690	590	35.8	64.2	557	323089	230	62.7	1357	1464	2.57	1.74	1.66	6.02	9.88	8.70
999	0602	3687.2	3.63	4.54	7.71	82	42.7	3050	3680.0	9.81	9.79	590	633	63.3	63.9	561	323524	231	62.8	1372	1464	2.57	1.67	1.59	6.02	9.88	8.70
1000	0606	3687.5	4.44	4.51	5.24	81	45.5	3050	3680.4	9.75	9.81	589	602	63.2	63.9	557	323838	231	62.9	1070	1463	2.57	1.64	1.56	6.02	9.88	8.70
1001	0611	3687.8	5.53	4.57	7.78	82	44.1	3050	3680.7	9.73	9.80	591	629	63.2	64.1	558	324107	231	62.9	952	1463	2.57	1.57	1.48	6.02	9.89	8.70
1002	0614	3688.1	4.87	4.45	5.17	86	43.9	3050	3681.0	9.76	9.79	591	614	63.1	64.5	555	324440	232	63.0	995	1462	2.58	1.62	1.53	6.02	9.89	8.70
1003	0618	3688.4	4.39	4.35	4.85	81	45.9	3040	3681.4	9.77	9.77	591	572	63.0	64.5	555	324761	232	63.1	1244	1462	2.58	1.65	1.56	6.02	9.90	8.70
1004	0622	3688.7	5.58	4.18	4.75	80	44.8	3050	3681.6	9.77	9.77	590	536	63.0	64.5	556	325034	232	63.1	1041	1461	2.58	1.57	1.48	6.02	9.90	8.70
1005	0626	3689.0	4.15	4.32	4.83	81	47.8	3040	3681.9	9.83	9.74	591	584	63.1	64.7	559	325338	233	63.2	1267	1461	2.58	1.69	1.60	6.02	9.90	8.70
1006	0630	3689.3	4.87	4.32	4.88	81	47.2	3050	3682.1	9.83	9.74	592	582	63.1	64.7	559	325681	233	63.3	1003	1460	2.59	1.63	1.55	6.03	9.91	8.70
1007	0634	3689.6	4.54	4.42	4.83	80	48.7	3040	3682.4	9.80	9.74	591	606	63.1	64.7	558	326014	233	63.3	1036	1459	2.59	1.67	1.58	6.03	9.91	8.70
1008	0638	3689.9	3.94	4.63	5.61	81	49.1	3050	3682.7	9.77	9.75	592	581	63.0	65.1	559	326377	233	63.4	1247	1459	2.59	1.71	1.63	6.03	9.91	8.70
1009	0642	3690.2	4.54	4.18	5.07	81	47.2	3050	3682.9	9.76	9.75	591	555	63.2	65.5	560	326703	234	63.5	1095	1459	2.59	1.65	1.56	6.03	9.92	8.70
1010	0647	3690.5	4.23	4.30	7.69	90	46.7	2990	3683.1	9.76	9.76	591	554	63.3	65.4	561	327036	234	63.5	1117	1458	2.59	1.69	1.60	6.03	9.92	8.70
1011	0651	3690.8	4.16	4.29	4.70	84	47.3	3010	3683.2	9.76	9.75	534	530	63.3	65.4	560	327450	234	63.6	1043	1458	2.60	1.69	1.60	6.03	9.93	8.70
1012	0656	3691.1	3.51	3.99	4.57	84	47.3	3010	3683.3	9.77	9.73	586	576	63.1	65.6	561	327891	235	63.7	1870	1458	2.60	1.73	1.65	6.03	9.93	8.70
1013	0703	3691.4	2.65	3.82	4.29	84	47.6	3000	3683.9	9.76	9.76	586	593	63.2	65.6	561	328468	235	63.8	2445	1458	2.60	1.82	1.73	6.03	9.94	8.70
1014	0711	3691.7	2.37	3.94	4.45	84	47.3	3010	3684.5	9.77	9.77	586	646	61.8	66.0	563	329117	235	63.9	2395	1459	2.61	1.85	1.76	6.03	9.94	8.70
1015	0716	3692.0	3.46	3.84	4.48	84	48.1	2310	3684.7	9.76	9.79	554	627	62.6	65.6	563	329563	236	64.0	1443	1459	2.61	1.75	1.66	6.03	9.93	8.70
1016	0722	3692.3	2.89	3.89	4.50	83	47.7	3010	3685.0	9.79	9.78	586	636	62.5	65.8	561	330039	236	64.1	2262	1460	2.62	1.79	1.70	6.04	9.93	8.70
1017	0727	3692.7	3.59	4.44	5.55	89	46.9	3040	3685.3	9.78	9.79	591	634	62.9	65.9	562	330542	236	64.2	1352	1459	2.62	1.74	1.65	6.04	9.93	8.70
1018	0731	3693.0	4.55	4.64	5.81	81	46.9	3030	3685.4	9.76	9.79	589	664	62.9	65.7	560	330867	237	64.3	986	1459	2.62	1.64	1.56	6.04	9.93	8.70
1019	0751	3694.2	2.50	4.60	7.80	90	46.9	3040	3686.2	9.46	9.77	592	637	60.3	67.0	461	331079	238	64.3	1473	1452	2.62	1.74	1.66	6.04	9.93	8.70
↓ NB#19 SMITH F2 12.25" with 3x14 jets. Start depth 3694.3m.																											
4	2336	3694.5	1.64	3.80	4.20	83	27.7	2900	3694.3	10.0	10.2	556	740	36.1	39.0	385	53	.24	.0	1971	1E+05	.00	1.63	1.64	6.05	9.93	8.70
5	2344	3694.8	1.95	3.70	4.67	82	29.5	3020	3694.3	10.0	9.95	568	760	35.0	49.7	388	668	.55	.1	$	50073	.01	1.61	1.61	6.05	10.15	8.70
6	2351	3695.1	3.61	3.78	4.28	80	30.7	3020	3694.3	9.93	9.75	570	745	37.4	50.1	386	1068	.85	.2	1375	29032	.02	1.47	1.47	6.05	10.16	8.70
7	2353	3695.4	9.40	3.75	4.00	79	39.7	3020	3694.3	9.93	9.75	571	765	37.4	50.1	385	1213	1.16	.2	693	21513	.02	1.33	1.33	6.05	10.16	8.70
8	2357	3695.7	4.48	3.82	4.65	82	37.0	3030	3694.3	9.83	9.77	574	752	38.8	50.4	382	1535	1.47	.3	903	17213	.02	1.50	1.50	6.05	10.16	8.70
	Date	Oct 24 '85																									
9	0002	3696.0	3.69	3.73	4.36	86	37.7	3020	3694.3	9.81	9.80	573	792	40.1	51.1	386	1962	1.77	.4	1223	14487	.03	1.57	1.58	6.05	10.16	8.70
10	0007	3696.3	3.32	3.99	7.58	83	38.9	3050	3694.3	9.81	9.88	577	827	41.5	52.7	387	2419	2.08	.5	1431	12574	.04	1.61	1.61	6.05	10.15	8.70
11	0012	3696.6	4.15	3.88	4.66	74	41.4	3040	3694.3	9.83	9.87	580	736	43.8	54.8	385	2758	2.37	.6	1184	11187	.04	1.55	1.55	6.05	10.14	8.70
12	0018	3696.9	3.11	3.99	4.73	72	42.0	3050	3694.3	9.84	9.84	579	636	44.9	54.4	383	3200	2.67	.7	3410	10098	.05	1.63	1.63	6.06	10.14	8.70
13	0023	3697.2	3.16	3.56	4.75	81	41.0	3050	3694.3	9.81	9.81	579	705	46.0	54.2	380	3648	2.99	.8	1663	9174	.05	1.64	1.65	6.05	10.13	8.70
14	0028	3697.5	3.66	3.87	4.63	81	43.0	3040	3694.3	9.83	9.88	579	694	47.7	54.8	379	4069	3.28	.8	1684	3597	.06	1.59	1.60	6.06	10.12	8.70
15	0034	3697.8	3.42	3.71	4.73	81	39.9	3010	3694.3	9.79	9.88	579	704	48.4	55.2	374	4499	3.59	.9	1524	7888	.07	1.61	1.61	6.06	10.11	8.70
16	0039	3698.1	3.22	3.58	4.66	81	43.8	2940	3694.3	9.82	9.91	581	782	49.0	55.7	372	4958	3.89	1.0	1436	7404	.07	1.64	1.64	6.06	10.11	8.70
19	0107	3699.1	1.54	3.91	4.70	87	40.5	3040	3694.3	9.84	9.69	577	546	52.7	57.5	373	7307	4.82	1.5	2902	6447	.11	1.86	1.86	6.06	10.06	8.70
20	0115	3699.4	2.37	3.96	4.80	86	41.7	3020	3694.3	9.82	9.47	577	623	53.4	58.4	369	7956	5.10	1.6	2435	6218	.12	1.76	1.76	6.06	10.05	8.70
21	0125	3699.7	1.77	3.80	4.72	79	41.4	3020	3694.3	9.83	9.38	578	926	54.0	58.2	382	8762	5.43	1.8	3401	5999	.13	1.81	1.82	6.06	10.03	8.70
22	0137	3700.0	1.50	3.63	4.66	79	39.8	3060	3694.5	9.92	9.20	580	780	55.0	58.4	378	9731	5.71	2.0	3802	5883	.14	1.84	1.84	6.07	10.01	8.70
23	0145	3700.3	2.34	3.73	4.60	78	39.6	3040	3694.8	9.83	9.51	581	618	55.6	58.1	379	10342	6.01	2.1	2204	5723	.15	1.72	1.72	6.06	10.00	8.70
24	0156	3700.6	1.61	3.78	4.73	78	39.0	3040	3695.7	9.80	9.53	585	599	55.5	58.6	377	11224	6.35	2.3	2351	5545	.17	1.81	1.81	6.07	9.99	8.70
25	0235	3700.9	3.40	3.42	4.62	87	38.4	2730	3697.4	9.90	9.85	581	514	56.1	58.7	380	12904	6.65	2.6	2646	5568	.19	1.63	1.63	6.07	9.98	8.70
26	0251	3701.2	1.61	3.65	4.83	82	38.9	2750	3696.5	9.92	9.78	596	576	56.8	57.5	378	13832	6.95	2.8	3154	5436	.20	1.82	1.82	6.07	9.99	8.70
27	0308	3701.5	1.97	3.57	5.04	84	40.7	3050	3697.2	9.83	9.91	598	634	57.0	59.8	378	15361	7.24	3.1	2774	5423	.23	1.80	1.79	6.07	10.01	8.70
28	0315	3701.8	2.57	3.65	4.36	88	39.8	3060	3697.6	9.82	9.90	598	614	57.1	60.2	376	15908	7.57	3.2	1898	5259	.24	1.72	1.72	6.07	10.01	8.70
29	0323	3702.1	2.33	3.59	4.58	88	40.3	3070	3697.8	9.85	9.90	599	638	59.2	60.9	379	16605	7.87	3.4	1957	5140	.25	1.76	1.75	6.07	10.01	8.70

AMOCO AUST. Tilana No.1 329267 Data Printed at time 09:09 Date Oct 28 [illegible]5
Data Recorded at time 03:26 Date Oct 24 [illegible]5 49

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
30	0326	3702.4	5.00	3.82	4.64	88	38.5	3040	3697.9	9.84	9.88	598	656	59.5	61.1	380	16921	8.17	3.4	1082	4985	.25	1.53	1.53	6.08	10.01	8.70
31	0336	3702.7	2.02	3.48	4.60	88	39.2	3070	3698.2	9.87	9.90	598	618	60.0	61.8	379	17795	8.45	3.6	1785	4936	.26	1.78	1.78	6.07	10.01	8.70
32	0343	3703.0	2.18	3.64	4.64	88	41.8	3070	3698.5	9.82	9.90	600	593	60.2	62.0	379	18379	8.78	3.7	1943	4797	.27	1.79	1.79	6.08	10.01	8.70
33	0350	3703.3	2.49	3.67	4.72	87	41.7	3030	3698.8	9.83	9.98	601	594	60.4	62.1	379	19021	9.09	3.8	2012	4703	.28	1.76	1.75	6.08	10.01	8.70
34	0357	3703.6	2.68	3.59	4.54	88	41.4	3000	3699.1	9.84	9.94	599	587	60.2	61.9	377	19620	9.39	3.9	2061	4611	.29	1.73	1.73	6.08	10.01	8.70
35	0403	3703.9	3.04	3.47	4.53	87	41.2	3010	3699.3	9.84	9.88	602	566	60.5	62.2	380	20146	9.70	4.0	1659	4518	.30	1.70	1.69	6.08	10.01	8.70
36	0408	3704.2	4.00	3.59	4.44	88	41.1	3010	3699.6	9.83	9.90	601	580	60.4	62.0	378	20546	10.0	4.1	1387	4418	.31	1.62	1.61	6.08	10.01	8.70
37	0416	3704.5	2.21	3.61	4.38	87	42.9	3020	3699.6	9.85	9.90	601	557	60.3	62.1	380	21265	10.3	4.2	3572	4355	.32	1.80	1.80	6.08	10.01	8.70
38	0422	3704.8	3.17	3.54	4.33	88	41.1	3030	3699.8	9.83	9.86	602	579	60.5	62.2	383	21772	10.6	4.3	1698	4275	.32	1.68	1.68	6.08	10.01	8.70
39	0427	3705.1	3.37	3.44	3.80	88	40.4	3010	3700.1	9.85	9.75	602	537	60.1	61.7	384	22248	10.9	4.4	1324	4197	.33	1.66	1.65	6.08	10.01	8.70
40	0435	3705.5	2.49	3.51	4.20	88	41.2	3020	3700.4	9.86	9.73	602	611	60.0	61.8	387	22936	11.2	4.6	1744	4155	.34	1.75	1.74	6.09	10.01	8.70
41	0442	3705.8	2.38	3.71	7.26	87	41.9	3010	3700.6	9.87	9.71	602	572	61.3	61.5	387	23555	11.5	4.7	1890	4083	.35	1.77	1.76	6.08	10.00	8.70
42	0447	3706.1	3.85	3.56	7.46	87	41.1	3010	3700.7	9.87	9.75	602	573	61.2	61.3	388	23994	11.8	4.8	1329	4014	.36	1.63	1.62	6.09	10.00	8.70
43	0450	3706.4	5.51	3.77	4.99	88	41.7	3000	3700.8	9.87	9.75	602	576	61.2	61.3	389	24265	12.1	4.8	844	3935	.36	1.54	1.53	6.09	10.00	8.70
44	0455	3706.7	4.28	3.87	5.12	87	41.0	3010	3700.9	9.82	9.72	602	583	61.2	61.4	389	24656	12.4	4.9	1495	3869	.37	1.60	1.59	6.09	10.00	8.70
45	0459	3707.0	3.96	3.52	4.45	87	42.4	3010	3701.1	9.84	9.69	602	580	61.1	61.0	389	25056	12.7	5.0	1445	3809	.37	1.64	1.63	6.09	10.00	8.70
46	0504	3707.3	3.55	3.56	4.48	87	41.8	3010	3701.3	9.83	9.66	602	553	61.0	60.9	388	25503	13.0	5.0	1589	3752	.38	1.66	1.65	6.09	10.00	8.70
47	0509	3707.6	4.11	3.32	4.65	87	41.2	3000	3701.5	9.85	9.64	603	509	60.9	61.1	389	25889	13.3	5.1	1489	3694	.39	1.61	1.60	6.09	10.00	8.70
48	0513	3707.9	4.71	3.92	5.23	86	41.3	3000	3701.6	9.83	9.67	601	541	60.8	60.8	389	26223	13.7	5.2	1073	3636	.39	1.58	1.57	6.09	10.00	8.70
49	0518	3708.2	2.97	3.40	4.37	87	41.2	3000	3702.0	9.83	9.67	602	522	60.7	60.9	393	26707	14.0	5.3	1766	3587	.40	1.70	1.69	6.09	10.00	8.70
50	0521	3708.5	6.34	3.50	4.33	87	41.2	3010	3702.1	9.83	9.69	602	836	60.6	60.3	393	26951	14.3	5.3	762	3527	.40	1.50	1.49	6.10	10.00	8.70
51	0527	3708.8	2.93	3.61	4.40	88	41.2	3000	3702.3	9.82	9.74	602	527	60.5	58.9	400	27495	14.6	5.4	1796	3488	.41	1.71	1.70	6.09	10.00	8.70
52	0540	3709.1	5.84	3.60	4.41	88	39.4	2830	3702.7	9.86	9.68	586	583	60.0	60.3	397	27822	14.9	5.5	1085	3449	.41	1.50	1.49	6.10	10.00	8.70
53	0542	3709.4	4.21	3.31	4.26	87	37.6	2850	3702.8	9.86	9.68	587	527	60.0	60.3	396	27940	15.2	5.5	668	3377	.42	1.60	1.60	6.10	10.00	8.70
54	0546	3709.7	4.21	3.62	4.32	87	40.5	2840	3703.0	9.79	9.71	586	529	60.0	60.6	395	28309	15.5	5.6	666	3333	.42	1.60	1.59	6.10	10.00	8.70
55	0551	3710.0	3.58	3.60	4.11	87	41.7	3040	3703.2	9.77	9.73	603	555	59.8	60.7	396	28759	15.8	5.7	1659	3306	.43	1.66	1.65	6.10	10.00	8.70
56	0556	3710.3	3.66	3.74	4.50	87	41.1	3020	3703.4	9.78	9.74	603	564	59.7	60.9	397	29184	16.1	5.7	1286	3258	.43	1.65	1.63	6.10	10.00	8.70
57	0559	3710.6	6.31	3.68	4.42	87	39.7	3010	3703.6	9.77	9.75	603	583	59.6	60.8	394	29437	16.4	5.8	789	3215	.44	1.48	1.47	6.10	10.00	8.70
58	0602	3710.9	4.92	3.77	4.40	87	41.3	3010	3703.8	9.72	9.76	602	617	59.7	61.4	396	29757	16.7	5.9	1085	3182	.44	1.57	1.56	6.10	10.00	8.70
59	0607	3711.2	3.51	3.70	4.44	87	41.4	2990	3704.1	9.72	9.78	604	590	59.8	61.3	398	30163	17.0	5.9	1357	3144	.45	1.66	1.65	6.10	10.00	8.70
60	0611	3711.5	4.32	3.77	4.24	87	41.1	3000	3704.2	9.80	9.78	603	607	59.9	61.3	400	30527	17.3	6.0	1103	3104	.45	1.60	1.59	6.11	9.99	8.70
61	0616	3711.9	3.85	3.86	4.41	87	41.9	2960	3704.3	9.76	9.77	603	597	59.9	61.3	400	30940	17.6	6.1	1218	3072	.46	1.64	1.63	6.11	9.99	8.70
62	0619	3712.2	6.65	3.71	4.23	87	41.9	2990	3704.5	9.77	9.75	602	582	60.0	61.2	398	31178	17.9	6.1	863	3036	.46	1.49	1.48	6.11	9.99	8.70
63	0625	3712.5	2.93	3.64	4.56	87	41.7	3000	3704.8	9.74	9.74	602	588	60.1	61.5	401	31716	18.2	6.2	1325	3011	.47	1.72	1.70	6.11	9.99	8.70
64	0628	3712.8	6.90	3.80	4.45	87	42.1	3030	3704.9	9.74	9.74	603	571	60.1	61.5	399	31966	18.5	6.3	784	2975	.47	1.49	1.48	6.11	9.99	8.70
65	0634	3713.1	2.83	3.73	4.46	87	41.2	3030	3705.2	9.73	9.73	602	660	60.4	62.0	401	32522	18.8	6.4	1835	2955	.48	1.72	1.71	6.11	9.98	8.70
66	0638	3713.4	4.71	3.84	4.38	87	41.3	3030	3705.3	9.78	9.73	602	654	60.6	62.1	400	32831	19.1	6.4	1094	2924	.49	1.58	1.57	6.11	9.97	8.70
67	0642	3713.7	4.32	3.79	4.45	87	42.1	3020	3705.6	9.74	9.73	603	620	60.7	62.0	399	33198	19.5	6.5	1077	2896	.49	1.62	1.60	6.11	9.97	8.70
68	0649	3714.0	2.60	3.89	4.55	87	42.1	3000	3706.3	9.72	9.72	602	587	60.8	62.1	404	33806	19.8	6.6	1787	2880	.50	1.76	1.74	6.12	9.97	8.70
69	0653	3714.3	5.32	3.74	4.46	87	41.5	3010	3706.5	9.74	9.70	602	623	60.8	62.5	409	34123	20.1	6.7	1194	2853	.51	1.55	1.54	6.11	9.96	8.70
70	0658	3714.6	3.41	3.77	4.40	87	42.3	2970	3706.7	9.73	9.68	603	678	59.7	62.2	362	34558	20.4	6.8	1209	2830	.51	1.69	1.67	6.12	9.95	8.70
71	0706	3714.9	3.31	3.59	4.49	89	38.7	2990	3707.2	9.63	9.68	604	678	58.3	62.3	304	35068	20.7	6.9	1614	2813	.52	1.66	1.65	6.12	9.92	8.70
72	0707	3715.2	3.62	3.19	4.33	92	43.3	2920	3707.3	9.63	9.68	582	536	58.3	62.3	299	35166	21.0	6.9	1417	2775	.52	1.65	1.65	6.12	9.94	8.70
73	0712	3715.5	3.91	3.79	4.56	91	41.3	2920	3707.6	9.48	9.68	577	601	54.4	60.9	306	35610	21.3	7.0	1138	2759	.53	1.65	1.64	6.12	9.94	8.70
74	0715	3715.8	4.97	3.93	4.68	89	42.0	2970	3707.8	9.48	9.68	580	585	54.4	60.9	312	35901	21.6	7.0	911	2729	.53	1.59	1.57	6.12	9.94	8.70
75	0721	3716.1	3.38	3.94	4.53	88	42.5	2970	3708.2	9.32	9.64	581	587	53.6	60.7	322	36357	21.9	7.1	1472	2710	.54	1.70	1.68	6.12	9.93	8.70
76	0724	3716.4	5.95	3.90	4.56	88	42.2	2980	3708.4	9.32	9.64	582	601	53.6	60.7	324	36627	22.2	7.2	882	2685	.54	1.54	1.52	6.12	9.93	8.70
77	0729	3716.7	3.61	3.77	4.49	87	42.2	2930	3708.7	9.45	9.67	580	570	53.7	59.9	341	37082	22.5	7.3	1119	2669	.55	1.68	1.66	6.12	9.92	8.70
78	0732	3717.0	5.28	3.58	4.07	87	41.7	2920	3708.7	9.53	9.65	579	573	53.6	59.6	346	37380	22.8	7.3	1009	2648	.55	1.57	1.55	6.13	9.90	8.70
79	0735	3717.3	5.73	3.65	4.51	87	41.9	2960	3708.9	9.64	9.65	583	601	53.6	59.1	355	37655	23.1	7.4	1039	2626	.56	1.55	1.53	6.12	9.89	8.70

AMOCO AUST. Tilana No.1 329268

Data Printed at time 09:13 Date Oct 28 '85
Data Recorded at time 07:43 Date Oct 24 '85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	MK	MXB	ECD	EST FM PR
80	0743	3717.7	4.35	3.65	4.43	86	39.4	3000	3709.3	9.65	9.66	307	612	53.5	59.0	374	38048	23.4	7.4	1566	2604	.56	1.62	1.61	6.13	9.83	8.70
81	0746	3718.0	5.95	3.88	4.56	88	44.1	3000	3709.4	9.74	9.65	589	595	53.4	58.4	379	38318	23.7	7.5	973	2582	.57	1.57	1.56	6.13	9.86	8.70
82	0750	3718.3	4.45	3.87	4.44	88	45.5	3010	3709.7	9.80	9.66	589	605	53.1	58.0	387	38676	24.0	7.6	1111	2562	.57	1.67	1.66	6.13	9.85	8.70
83	0809	3718.6	6.62	3.45	4.44	91	40.4	2980	3710.9	10.0	9.64	596	625	52.2	58.6	425	38938	24.3	7.6	994	2548	.58	1.51	1.50	6.13	9.83	8.70
84	0814	3719.0	1.91	3.62	4.39	90	43.1	2950	3711.2	9.97	9.63	596	594	52.0	59.0	435	39375	24.5	7.7	1772	2541	.58	1.35	1.33	6.13	9.83	8.70
85	0818	3719.5	6.73	3.80	4.53	90	42.7	2940	3711.5	10.1	9.65	598	587	51.9	58.1	440	39766	25.2	7.8	728	2478	.59	1.53	1.51	6.13	9.84	8.70
86	0823	3719.8	4.07	3.76	4.56	90	44.0	2960	3711.9	9.96	9.66	600	566	51.9	57.6	447	40165	25.5	7.8	950	2464	.59	1.69	1.67	6.13	9.85	8.70
87	0830	3720.1	4.41	4.06	4.93	88	44.6	3010	3712.2	9.98	9.66	593	600	51.9	57.6	462	40531	25.8	7.9	1077	2448	.60	1.66	1.65	6.13	9.86	8.70
88	0835	3720.4	4.57	4.02	4.79	91	44.1	2120	3712.5	9.85	9.68	593	610	52.0	57.0	470	40925	26.1	8.0	1266	2434	.61	1.65	1.64	6.14	9.86	8.70
89	0841	3720.7	3.55	3.52	4.79	91	44.6	2970	3712.8	9.96	9.66	589	596	51.7	56.3	469	41303	26.5	8.0	1836	2418	.61	1.57	1.55	6.14	9.88	8.70
90	0845	3721.0	3.92	4.37	5.03	91	45.2	2930	3713.1	9.94	9.68	585	570	52.1	55.9	469	41713	26.8	8.1	1266	2404	.62	1.70	1.68	6.14	9.92	8.70
91	0850	3721.3	3.62	3.98	4.94	92	44.6	3010	3713.4	9.94	9.68	582	602	52.1	55.9	471	41974	27.0	8.2	1324	2388	.62	1.72	1.70	6.14	9.89	8.70
92	0855	3721.6	3.32	3.98	4.52	91	44.3	3000	3713.8	9.95	9.68	601	601	52.9	56.2	468	42421	27.4	8.2	1395	2377	.63	1.74	1.72	6.14	9.90	8.70
93	0900	3721.9	3.51	4.07	4.60	91	45.1	2980	3714.0	10.0	9.74	600	558	53.8	55.9	467	42387	27.7	8.3	1320	2364	.63	1.73	1.71	6.14	9.91	8.70
94	0904	3722.2	4.97	4.11	4.59	91	44.8	2930	3714.3	9.84	9.77	600	610	54.3	56.5	465	43220	28.0	8.4	1042	2349	.64	1.63	1.61	6.14	9.92	8.70
95	0910	3722.5	2.92	3.90	4.59	90	45.1	2950	3714.6	10.0	9.77	599	609	55.1	56.9	464	43785	28.3	8.5	1824	2344	.65	1.78	1.76	6.14	9.93	8.70
96	0915	3722.9	4.29	4.36	5.30	91	44.6	2960	3715.1	9.95	9.79	599	622	55.4	56.8	461	44210	28.6	8.6	1408	2333	.65	1.67	1.65	6.14	9.94	8.70
97	0920	3723.2	3.54	4.39	5.13	90	44.4	2940	3715.5	9.99	9.75	599	598	55.7	57.3	461	44632	28.9	8.7	1878	2327	.66	1.72	1.70	6.14	9.94	8.70
98	0926	3723.4	2.63	4.52	5.28	91	46.6	2960	3715.9	9.96	9.75	601	594	56.2	56.7	460	45206	29.2	8.8	1878	2314	.67	1.83	1.81	6.15	9.96	8.70
99	0936	3723.7	1.84	4.33	5.11	91	44.8	2980	3716.7	9.93	9.69	602	546	55.7	56.4	459	46108	29.5	8.9	2703	2318	.68	1.89	1.87	6.15	9.99	8.70
100	0940	3724.1	4.35	4.63	5.12	91	44.1	2990	3717.1	9.95	9.65	601	543	56.8	55.7	461	46521	29.8	9.0	1043	2307	.69	1.65	1.62	6.15	10.01	8.70
101	0947	3724.4	2.44	4.59	5.37	91	45.3	3010	3717.6	9.94	9.70	604	487	57.0	55.4	459	47147	30.1	9.1	2313	2303	.70	1.81	1.79	6.15	10.05	8.70
102	0952	3724.7	3.98	4.56	5.48	91	45.3	3020	3717.9	9.95	9.68	604	503	57.0	55.2	457	47563	30.4	9.2	1421	2292	.70	1.67	1.65	6.15	10.07	8.70
103	0957	3725.0	4.07	4.67	5.41	91	44.0	3030	3717.9	9.91	9.67	604	499	57.0	54.8	458	47997	30.7	9.3	1443	2285	.71	1.65	1.63	6.15	10.08	8.70
104	1003	3725.3	2.55	4.50	5.39	91	44.8	3030	3717.9	9.83	9.67	604	553	57.0	55.1	459	48539	31.0	9.4	1609	2276	.72	1.79	1.76	6.15	10.09	8.70
105	1006	3725.6	4.78	4.43	5.28	91	45.3	3040	3718.4	9.83	9.67	603	550	56.9	55.1	459	48838	31.3	9.4	1202	2264	.72	1.62	1.60	6.15	10.09	8.70
106	1013	3725.9	2.58	4.18	5.04	91	45.0	3040	3719.1	9.82	9.62	602	505	56.8	54.7	457	49530	31.6	9.6	1893	2261	.73	1.78	1.76	6.15	10.10	8.70
107	1021	3726.2	2.55	4.06	4.81	92	44.7	3050	3719.6	9.80	9.59	602	478	56.6	54.8	458	50220	31.9	9.7	2035	2260	.74	1.79	1.77	6.16	10.09	8.70
108	1026	3726.5	3.34	4.08	4.76	92	43.8	3040	3720.0	9.76	9.57	601	489	56.5	54.7	458	50694	32.3	9.8	1768	2251	.75	1.70	1.68	6.16	10.09	8.70
109	1035	3726.8	2.06	4.29	4.89	91	43.5	3040	3720.6	9.92	9.92	600	507	56.3	54.4	458	51539	32.5	9.9	2130	2255	.76	1.83	1.81	6.16	10.07	8.70
110	1043	3727.1	2.47	4.28	5.01	91	44.9	3050	3721.0	9.76	9.93	600	573	56.1	54.5	456	52210	32.8	10.0	2187	2253	.77	1.80	1.78	6.16	10.06	8.70
111	1051	3727.4	2.24	4.27	5.03	91	44.4	3040	3721.5	9.84	9.93	600	519	55.9	54.2	458	52921	33.2	10.2	2235	2251	.78	1.82	1.80	6.16	10.05	8.70
112	1056	3727.7	3.20	4.25	5.26	91	43.5	3040	3721.9	9.85	9.97	600	517	55.8	54.0	457	53441	33.5	10.3	1630	2245	.79	1.72	1.69	6.16	10.05	8.70
113	1108	3728.1	1.89	3.93	5.04	93	43.6	3030	3722.3	9.90	9.99	596	511	55.7	54.0	458	53676	33.8	10.3	2213	2232	.79	1.87	1.84	6.16	10.04	8.70
114	1114	3728.3	2.66	4.25	5.38	94	44.5	3020	3722.7	9.76	10.0	596	536	55.4	54.1	451	54244	34.1	10.4	1067	2229	.80	1.79	1.76	6.16	10.03	8.70
115	1131	3728.7	2.56	4.19	5.11	89	45.2	3010	3723.4	9.80	10.1	596	605	55.0	55.3	449	55770	34.4	10.7	2020	2248	.82	1.80	1.77	6.16	10.02	8.70
116	1137	3728.9	2.40	4.32	4.86	89	45.9	2980	3723.7	9.89	10.1	594	577	55.0	55.6	449	56307	34.7	10.8	1852	2243	.83	1.83	1.80	6.17	10.01	8.70
117	1143	3729.2	2.98	4.42	5.17	88	44.4	2980	3724.0	9.85	10.2	594	568	55.0	55.4	448	56795	35.0	10.9	1710	2237	.84	1.75	1.72	6.17	10.00	8.70
118	1147	3729.5	3.79	4.63	5.18	89	44.4	2970	3724.2	9.81	10.2	594	577	55.1	55.6	449	57214	35.3	11.0	1307	2228	.84	1.68	1.66	6.17	9.99	8.70
119	1154	3729.8	2.92	4.28	5.13	88	44.6	2960	3724.5	9.77	10.2	594	606	55.3	56.4	447	57766	35.6	11.1	2651	2224	.85	1.76	1.73	6.17	9.98	8.70
120	1200	3730.1	2.91	4.40	5.15	89	44.8	2960	3724.9	9.92	10.2	594	570	55.4	56.5	445	58324	35.9	11.2	1800	2221	.86	1.76	1.74	6.17	9.98	8.70
121	1206	3730.4	2.99	4.30	5.10	89	44.7	2950	3725.2	9.92	10.2	595	588	55.8	56.8	442	58861	36.2	11.3	1640	2215	.86	1.75	1.73	6.17	9.97	8.70
122	1213	3730.8	2.80	4.39	5.25	89	43.4	2960	3725.4	9.91	10.2	595	546	55.9	56.5	443	59438	36.5	11.4	2108	2215	.87	1.76	1.73	6.17	9.97	8.70
123	1218	3731.1	3.35	4.36	5.19	89	44.3	2940	3725.7	9.83	10.2	595	588	56.1	56.6	442	59923	36.8	11.5	1393	2206	.88	1.72	1.69	6.17	9.97	8.70
124	1225	3731.4	2.72	4.49	5.37	89	43.3	2940	3726.0	9.93	10.2	595	622	56.4	56.8	443	60516	37.1	11.6	2095	2203	.89	1.77	1.74	6.17	9.97	8.70
125	1229	3731.7	4.17	4.45	5.29	89	44.5	2940	3726.1	9.92	10.2	595	575	56.6	56.6	444	60905	37.4	11.7	1354	2195	.89	1.66	1.63	6.18	9.97	8.70
126	1232	3732.0	6.52	4.16	4.61	88	42.2	2940	3726.2	9.91	10.2	595	597	56.7	56.6	442	61173	37.7	11.7	843	2187	.90	1.51	1.48	6.18	9.98	8.70
127	1239	3732.3	2.59	4.21	4.56	89	43.3	2960	3726.5	9.86	10.1	594	609	56.8	56.4	442	61795	38.0	11.8	1237	2181	.91	1.78	1.75	6.18	9.98	8.70
128	1245	3732.6	2.79	4.32	4.69	88	43.0	2950	3726.7	9.93	10.1	596	554	56.9	55.7	443	62318	38.3	11.9	1767	2177	.91	1.75	1.72	6.18	9.99	8.70
129	1248	3732.9	5.65	4.37	4.98	89	43.3	2950	3726.8	9.98	10.1	596	558	56.9	55.7	440	62604	38.7	12.0	1103	2167	.92	1.56	1.53	6.18	9.99	8.70

AMOCO AUST. Tilana No.1

329269

Data Printed at time 09:17 Date Oct 28 '85
Data Recorded at time 12:56 Date Oct 24 '85

20/

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
130	1256	3733.2	3.49	4.12	7.90	92	33.4	2970	3727.1	9.90	10.1	596	651	57.0	56.0	440	63027	38.9	12.1	1664	2163	.92	1.57	1.54	6.18	9.99	8.70
131	1300	3733.5	3.85	4.31	5.02	88	40.6	2940	3727.2	10.0	10.1	594	569	56.9	56.0	437	63447	39.3	12.1	1344	2155	.93	1.63	1.60	6.18	10.00	8.70
132	1304	3733.8	5.09	4.47	5.07	89	41.0	2950	3727.4	9.94	10.1	594	581	56.9	55.6	438	63746	39.6	12.2	910	2144	.93	1.56	1.53	6.18	10.01	8.70
133	1309	3734.1	3.42	4.50	5.20	89	40.0	2950	3727.7	9.90	10.1	594	568	56.9	55.5	438	64219	39.9	12.3	1289	2139	.94	1.65	1.63	6.18	10.01	8.70
134	1313	3734.4	4.72	4.22	5.01	89	40.6	2960	3727.9	9.88	10.1	593	605	56.9	55.6	438	64580	40.2	12.4	1180	2131	.94	1.57	1.55	6.18	10.02	8.70
135	1317	3734.7	3.91	4.33	5.21	89	41.4	2950	3728.1	9.88	10.1	594	599	56.9	55.3	438	64974	40.5	12.4	1441	2124	.95	1.63	1.61	6.19	10.02	8.70
136	1321	3735.0	4.57	4.41	5.06	89	40.9	2960	3728.2	9.94	10.1	594	551	56.8	55.3	437	65328	40.8	12.5	951	2116	.96	1.58	1.55	6.19	10.02	8.70
137	1328	3735.3	2.66	4.18	5.02	90	41.2	2990	3728.6	9.86	10.0	596	574	56.7	55.3	436	65962	41.1	12.6	2171	2116	.96	1.73	1.70	6.19	10.03	8.70
138	1333	3735.6	3.95	4.34	4.94	90	39.9	2980	3728.8	9.89	9.96	596	528	56.6	55.2	437	66359	41.4	12.7	1327	2109	.97	1.61	1.58	6.19	10.04	8.70
139	1338	3735.9	3.86	4.25	5.07	89	39.6	2970	3729.0	9.87	9.97	595	542	56.6	55.4	437	66730	41.7	12.8	1225	2103	.98	1.61	1.58	6.19	10.04	8.70
140	1343	3736.2	3.56	4.36	5.11	89	40.8	2980	3729.4	9.84	9.99	594	563	56.5	55.2	436	67247	42.0	12.9	1459	2099	.98	1.65	1.62	6.19	10.04	8.70
141	1347	3736.5	4.00	4.45	5.24	89	41.0	2980	3729.6	9.84	10.0	593	559	56.5	55.1	437	67650	42.3	12.9	1296	2093	.99	1.62	1.59	6.19	10.05	8.70
142	1408	3736.8	4.10	4.06	5.19	88	40.2	3000	3730.1	9.81	10.0	522	392	56.3	54.1	446	67939	42.6	13.0	935	2086	.99	1.62	1.49	6.19	10.03	8.70
143	1410	3737.2	8.25	4.35	5.15	87	39.2	3020	3730.2	9.81	10.0	595	563	56.3	54.1	438	68132	42.9	13.0	2777	2073	.99	1.40	1.37	6.19	10.05	8.70
144	1416	3737.5	2.89	4.47	5.06	88	41.4	3010	3730.5	9.78	10.1	595	538	56.1	51.8	435	68632	43.2	13.1	1794	2071	1.00	1.71	1.68	6.20	10.05	8.70
145	1420	3737.8	4.62	4.48	4.98	88	41.5	3010	3730.8	9.70	10.1	596	657	56.0	53.6	430	68978	43.5	13.2	1069	2062	1.01	1.58	1.55	6.20	10.05	8.70
146	1424	3738.1	4.02	4.56	5.16	87	39.2	3020	3730.9	9.82	10.1	597	566	55.9	55.0	432	69375	43.8	13.3	1176	2058	1.01	1.59	1.56	6.20	10.05	8.70
147	1429	3738.4	4.51	4.64	6.60	87	39.9	3020	3731.1	9.76	10.1	597	554	55.7	55.2	432	69758	44.1	13.3	1101	2051	1.02	1.57	1.54	6.20	10.05	8.70
148	1432	3738.7	4.73	4.68	5.43	88	40.3	3020	3731.4	9.72	10.1	598	537	55.6	55.4	431	70094	44.4	13.4	1271	2045	1.02	1.56	1.53	6.20	10.05	8.70
149	1437	3739.0	3.70	4.60	5.32	87	40.9	3020	3731.8	9.81	10.1	597	575	55.5	55.6	429	70492	44.8	13.5	1167	2039	1.03	1.63	1.60	6.20	10.05	8.70
150	1440	3739.3	5.86	4.60	5.10	88	40.7	3010	3731.9	9.71	10.1	595	585	55.5	55.8	430	70765	45.1	13.5	846	2031	1.03	1.51	1.48	6.20	10.04	8.70
151	1445	3739.6	4.08	4.47	5.18	88	40.5	2930	3732.1	9.73	10.1	594	629	55.6	55.8	427	71183	45.4	13.6	1056	2026	1.04	1.61	1.57	6.20	10.04	8.70
152	1452	3739.9	2.68	4.36	5.09	88	39.6	2990	3732.6	9.71	10.1	594	633	55.7	56.3	429	71777	45.7	13.7	1939	2026	1.04	1.71	1.68	6.20	10.02	8.70
153	1457	3740.2	3.32	4.48	5.25	87	40.5	2980	3732.8	9.77	10.2	594	552	55.9	56.6	429	72229	46.0	13.8	1421	2021	1.05	1.66	1.63	6.21	10.02	8.70
154	1501	3740.5	4.31	4.52	5.27	87	40.6	2970	3733.0	9.75	10.2	594	613	56.0	56.6	428	72620	46.3	13.9	1281	2015	1.06	1.59	1.56	6.21	10.01	8.70
155	1504	3740.8	4.99	4.53	5.20	87	40.0	2970	3733.2	9.73	10.2	594	609	56.1	56.8	428	72908	46.6	13.9	935	2008	1.06	1.55	1.52	6.21	10.01	8.70
156	1508	3741.2	4.86	4.61	5.21	87	41.2	2960	3733.5	9.77	10.2	594	604	56.3	56.9	427	73237	46.9	14.0	967	2002	1.06	1.57	1.54	6.21	10.00	8.70
157	1511	3741.4	5.43	4.66	5.40	87	40.6	2970	3733.8	9.77	10.2	595	594	56.3	56.9	427	73487	47.2	14.0	850	1994	1.07	1.53	1.50	6.21	10.00	8.70
158	1513	3741.7	7.67	4.56	5.44	89	39.5	2980	3734.0	9.74	10.2	594	612	56.4	56.7	427	73696	47.5	14.1	591	1996	1.07	1.43	1.40	6.21	9.98	8.70
159	1517	3742.0	5.12	4.38	5.32	89	40.5	2980	3734.2	9.76	10.2	595	592	56.6	56.9	428	74018	47.8	14.2	1959	1980	1.08	1.55	1.52	6.21	9.98	8.70
160	1520	3742.3	6.95	4.84	5.42	88	40.3	2970	3734.4	9.76	10.2	596	620	56.6	56.9	425	74239	48.1	14.2	717	1971	1.08	1.47	1.43	6.21	9.98	8.70
161	1522	3742.6	8.15	4.73	5.17	88	41.3	2970	3734.5	9.75	10.2	595	634	56.7	57.0	426	74442	48.4	14.2	620	1963	1.08	1.44	1.40	6.21	9.98	8.70
162	1524	3743.0	8.75	4.38	4.93	88	40.3	2960	3734.5	9.75	10.2	594	684	56.7	57.0	424	74623	48.7	14.3	650	1956	1.08	1.41	1.38	6.22	9.98	8.70
163	1527	3743.2	6.58	4.84	5.45	88	41.2	2970	3734.7	9.77	10.2	595	583	56.9	57.3	426	74859	49.0	14.3	700	1946	1.09	1.49	1.46	6.22	9.97	8.70
164	1529	3743.6	8.76	4.62	5.14	88	41.2	2960	3734.9	9.77	10.2	595	588	56.9	57.3	424	75044	49.3	14.3	541	1940	1.09	1.42	1.38	6.22	9.97	8.70
165	1531	3743.9	7.48	4.56	5.15	88	42.3	2940	3735.1	9.76	10.2	595	646	57.0	57.3	425	75257	49.6	14.4	575	1931	1.09	1.47	1.44	6.22	9.96	8.70
+ Flow check at 3744.1m. No flow.																											
167	1541	3744.2	8.92	3.64	5.20	87	30.1	2960	3735.4	9.70	10.2	592	636	57.3	57.3	429	75452	49.9	14.4	672	1922	1.10	1.29	1.26	6.22	9.95	8.70
168	1543	3744.5	7.41	4.40	5.10	87	40.3	2980	3735.6	9.70	10.2	595	622	57.3	57.3	426	75622	50.2	14.5	650	1914	1.10	1.45	1.42	6.22	9.95	8.70
169	1545	3744.8	8.42	4.72	5.27	87	39.8	2990	3735.7	9.75	10.2	596	594	57.3	57.9	427	75809	50.5	14.5	734	1908	1.10	1.41	1.38	6.22	9.95	8.70
170	1548	3745.1	5.86	4.55	5.28	87	40.1	3010	3735.9	9.75	10.2	595	552	57.3	57.9	426	76076	50.8	14.5	892	1900	1.10	1.51	1.48	6.22	9.95	8.70
171	1549	3745.4	12.2	5.18	5.81	87	40.5	3010	3735.9	9.72	10.2	595	589	57.4	57.3	424	76194	51.2	14.6	391	1890	1.11	1.32	1.29	6.22	9.95	8.70
172	1551	3745.7	11.6	4.97	5.42	87	40.0	3000	3736.0	9.72	10.2	595	575	57.4	57.3	424	76329	51.5	14.6	446	1883	1.11	1.33	1.29	6.22	9.94	8.70
173	1553	3746.0	7.65	4.65	5.51	86	41.3	2970	3736.2	9.72	10.2	593	603	57.4	57.3	423	76551	51.8	14.6	715	1875	1.11	1.45	1.42	6.23	9.94	8.70
+ Circulate returns at 3746.6m.																											
POOH at 3746.6m to cut a core.																											
+ RRCB#1 D.B. CD 502 8.5". TFA = 1". Start depth 3746.6m.																											
Date Oct 25 '85																											
180	0823	3746.9	.62	3.43	5.81	66	12.3	510	3746.6	9.83	9.59	214	6	32.6	40.6	378	1885	.31	.4	$ 83495		.03	1.67	1.72	6.23	9.70	8.70
181	0845	3747.2	1.18	2.67	4.42	74	12.3	580	3746.6	9.69	9.60	234	44	33.0	42.1	373	3020	.59	.7	4346	46674	.04	1.56	1.59	6.23	9.71	8.70

AMOCO AUST. Tilana No.1 329270 Data Printed at time 09:21 Date Oct 28 '85
Data Recorded at time 08:57 Date Oct 25 '85 202

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NXB	ECD	EST FM PR
182	0857	3747.5	1.50	2.93	4.19	74	17.5	610	3746.6	9.77	9.86	234	22	33.6	42.6	374	3915	.89	.9	3915	31916	.36	1.65	1.68	6.23	9.72	8.70
183	0920	3747.8	.78	2.70	3.30	85	20.5	520	3746.6	9.80	9.87	205	1	35.1	42.7	367	5891	1.19	1.3	6625	25423	.39	1.92	1.94	6.24	9.72	8.70
184	0953	3748.1	.60	2.53	4.36	91	21.2	740	3746.6	9.90	9.92	267	115	37.7	42.4	364	8551	1.50	1.8	7157	21972	.13	2.02	2.03	6.23	9.75	8.70
185	1019	3748.4	.72	2.62	3.04	112	29.0	810	3746.6	9.94	9.98	279	109	39.0	44.6	365	11427	1.80	2.2	6653	19437	.18	2.21	2.19	6.24	9.79	8.70
186	1029	3748.7	1.73	2.90	4.15	113	29.0	630	3746.6	9.91	9.96	229	81	39.5	44.3	366	12623	2.11	2.4	3377	17049	.20	1.97	1.95	6.24	9.79	8.70
187	1049	3749.1	1.02	2.78	4.39	114	29.5	610	3746.6	9.90	9.98	229	79	40.4	43.2	363	14865	2.44	2.7	6320	15386	.24	2.13	2.10	6.24	9.81	8.70
188	1102	3749.3	1.23	2.81	3.21	114	30.3	780	3746.6	9.91	9.99	270	165	40.6	43.4	360	16401	2.74	3.0	3579	14087	.27	2.09	2.06	6.24	9.83	8.70
189	1119	3749.6	1.09	3.29	4.18	114	30.4	840	3746.6	9.96	10.1	278	229	40.9	44.9	365	18299	3.05	3.2	4328	13140	.30	2.12	2.09	6.24	9.85	8.70
190	1130	3750.0	1.84	3.26	4.13	114	30.3	830	3746.6	9.91	10.1	274	173	41.1	45.6	364	19522	3.32	3.4	2747	12335	.32	1.97	1.94	6.24	9.86	8.70
191	1157	3750.3	.61	3.16	4.11	113	30.6	720	3746.6	9.61	9.99	272	236	42.1	46.1	361	22545	3.65	3.9	9118	11816	.37	2.27	2.24	6.25	9.39	8.70
192	1226	3750.6	.62	2.83	4.13	114	30.0	810	3746.6	9.47	9.98	272	241	43.6	47.5	362	25913	3.96	4.3	8224	11532	.43	2.26	2.23	6.24	9.91	8.70
193	1236	3750.9	1.73	3.06	4.12	114	30.5	630	3746.6	9.44	9.98	224	106	43.9	47.0	362	27022	4.27	4.5	3121	10838	.45	1.93	1.95	6.25	9.93	8.70
194	1255	3751.2	1.05	2.95	4.25	113	30.6	670	3746.8	9.42	9.94	224	147	44.2	46.1	365	29133	4.56	4.8	3897	10516	.48	2.12	2.09	6.25	9.93	8.70
+ POOH at 3751.4m due to low ROP.																											
+ NB#20 SMITH F2 12.25" with 3x14 jets																											
	Date	Oct 26 '85																									
203	0537	3752.7	3.06	3.11	3.72	95	30.0	3040	3750.0	10.1	10.0	573	753	43.2	50.4	347	507	.70	.1	3624	4010	.01	1.95	1.96	6.25	9.47	8.70
204	0545	3753.0	3.15	3.25	4.01	95	36.1	3030	3750.0	10.0	10.1	577	736	44.7	52.0	350	1235	1.00	.2	2730	3939	.02	2.03	2.04	6.26	10.10	8.70
205	0550	3753.3	3.36	3.40	4.10	95	36.9	3030	3750.0	9.97	10.1	579	845	45.4	53.0	350	1752	1.31	.3	1492	3809	.03	1.94	1.94	6.25	10.10	8.70
206	0553	3753.6	3.51	3.26	4.31	94	38.5	2900	3750.0	9.97	10.1	583	879	45.4	53.0	344	1955	1.61	.3	3934	3654	.03	1.67	1.68	6.26	10.10	8.70
207	0602	3753.9	3.10	3.34	4.38	94	39.2	3040	3750.0	10.2	10.1	576	871	47.5	54.7	346	2303	1.94	.5	5897	3604	.05	2.12	2.13	6.26	10.10	8.70
208	0606	3754.2	4.21	3.35	4.16	91	41.0	3040	3750.0	10.1	10.0	577	764	48.3	55.4	347	3194	2.25	.6	1743	3522	.05	1.91	1.92	6.26	10.10	8.70
209	0612	3754.6	3.22	3.44	4.10	91	41.3	3040	3750.0	10.0	9.97	579	763	49.0	56.7	351	3790	2.55	.7	3962	3470	.06	2.03	2.05	6.26	10.10	8.70
210	0613	3754.8	3.09	3.43	3.75	90	46.2	3040	3750.0	10.0	9.97	578	758	49.0	56.7	351	3838	2.84	.7	4715	3343	.06	1.95	1.94	6.26	10.10	8.70
211	0618	3755.1	2.96	3.39	3.33	91	42.6	3050	3750.0	9.99	9.91	581	755	49.7	57.4	349	4307	3.14	.8	1250	3252	.07	2.03	2.04	6.26	10.10	8.70
212	0625	3755.5	2.91	3.22	3.75	92	37.0	3050	3750.0	9.95	9.76	580	750	51.0	58.5	351	4923	3.46	.9	2012	3205	.08	1.93	1.94	6.27	10.10	8.70
213	0626	3755.8	3.20	3.27	4.37	91	44.6	3040	3750.0	9.95	9.76	580	753	51.0	58.5	353	5077	3.76	.9	4557	3114	.08	1.93	1.92	6.26	10.10	8.70
214	0637	3756.1	3.30	3.46	3.90	92	49.3	2970	3750.0	10.1	9.51	572	928	52.5	58.9	359	5191	4.08	.9	5335	3033	.08	1.94	1.93	6.27	10.10	8.70
215	0637	3756.4	3.21	3.25	3.78	91	42.8	2970	3750.0	10.1	9.51	572	965	52.5	58.9	360	5213	4.36	.9	4371	2940	.08	1.95	1.94	6.27	10.10	8.70
216	0642	3756.7	3.46	3.31	4.12	93	40.7	3040	3750.0	9.92	9.80	576	998	53.3	57.5	358	5665	4.66	1.0	4152	2887	.09	1.93	1.94	6.27	10.10	8.70
217	0645	3757.0	6.28	3.43	3.90	91	46.3	3050	3750.0	9.95	9.71	585	938	53.7	57.9	359	5933	4.99	1.1	4731	2829	.10	1.82	1.83	6.27	10.10	8.70
218	0648	3757.3	4.16	3.43	4.10	93	45.7	3040	3750.0	9.90	9.60	585	884	54.0	58.3	353	6265	5.27	1.1	1596	2768	.10	1.94	1.95	6.27	10.10	8.70
219	0656	3757.6	3.38	3.27	4.04	91	37.8	3050	3750.0	9.99	9.69	585	768	54.9	57.8	362	7019	5.63	1.3	2335	2770	.11	1.97	1.98	6.27	10.10	8.70
220	0657	3757.9	3.02	3.30	4.57	92	40.4	3050	3750.0	9.99	9.69	584	770	54.9	57.8	361	7069	5.88	1.3	4122	2694	.11	1.93	1.92	6.27	10.10	8.70
221	0658	3758.2	3.15	3.56	4.15	91	47.5	2950	3750.0	9.99	9.69	584	729	54.9	57.8	359	7185	6.20	1.3	4852	2624	.12	1.92	1.91	6.27	10.10	8.70
222	0704	3758.5	2.91	3.57	4.30	93	50.4	3040	3750.0	10.0	9.61	583	681	55.0	58.0	361	7764	6.54	1.4	1695	2607	.13	2.11	2.12	6.23	10.10	8.70
223	0705	3758.8	3.05	3.48	3.83	91	48.0	3040	3750.0	10.0	9.61	583	652	55.0	58.0	363	7811	6.80	1.4	4905	2539	.13	1.94	1.93	6.27	10.10	8.70
224	0708	3759.1	5.42	3.45	4.16	92	46.2	3030	3750.0	10.0	9.63	584	677	55.2	58.4	364	8125	7.12	1.5	4693	2500	.13	1.84	1.85	6.28	10.10	8.70
225	0711	3759.4	7.39	3.43	4.21	92	44.7	3030	3750.0	10.0	9.63	583	658	55.2	58.4	361	8351	7.42	1.5	4566	2457	.14	1.72	1.73	6.28	10.10	8.70
226	0713	3759.7	7.51	3.60	4.29	92	48.4	3040	3750.0	10.0	9.63	583	647	55.5	58.5	364	8552	7.72	1.5	4939	2413	.14	1.76	1.77	6.28	10.10	8.70
227	0714	3760.0	11.4	3.69	4.19	92	51.9	3040	3750.0	10.0	9.68	583	641	55.5	58.5	364	8691	8.01	1.5	442	3480	.13	1.46	1.46	6.28	10.10	8.70
228	0719	3760.3	4.04	3.52	4.71	92	42.1	3030	3750.0	10.0	9.75	585	655	55.9	58.9	364	9118	8.31	1.6	1020	3402	.14	1.65	1.64	6.28	10.10	8.70
229	0721	3760.7	8.74	3.30	3.57	93	42.5	3030	3750.0	10.0	9.79	586	652	56.2	58.6	363	9330	8.60	1.6	4337	3319	.14	1.44	1.44	6.28	10.10	8.70
230	0722	3760.9	6.16	3.51	3.71	91	51.5	3030	3750.0	10.0	9.79	585	644	56.2	58.6	363	9344	8.91	1.6	2254	3194	.14	1.58	1.57	6.29	10.10	8.70
231	0726	3761.2	3.78	3.66	4.40	92	50.6	3040	3750.0	10.0	9.81	587	663	56.5	58.7	367	9736	9.23	1.7	5164	3123	.15	1.76	1.75	6.28	10.10	8.70
232	0728	3761.5	6.94	3.64	4.24	92	49.7	3030	3750.0	10.0	10.1	586	668	56.8	58.8	365	9983	9.52	1.7	769	3053	.15	1.57	1.57	6.29	10.10	8.70
233	0733	3761.8	3.98	3.56	4.45	92	48.4	3020	3750.1	10.0	10.1	588	666	57.0	58.9	365	10392	9.84	1.8	1556	2991	.16	1.71	1.71	6.29	10.10	8.70
234	0737	3762.2	5.03	3.41	3.78	92	44.8	3000	3750.7	10.0	10.1	586	669	57.0	58.9	365	10734	10.1	1.9	1063	2936	.17	1.60	1.60	6.29	10.10	8.70
235	0740	3762.5	5.67	3.57	4.25	92	48.2	3010	3751.0	10.1	10.1	585	632	57.2	58.7	364	11028	10.4	1.9	914	2877	.17	1.60	1.60	6.29	10.10	8.70
236	0744	3762.8	4.62	3.39	3.72	93	46.6	3000	3751.2	10.0	10.1	585	633	57.3	58.7	366	11391	10.7	2.0	1218	2822	.18	1.64	1.64	6.29	10.10	8.70

AMOCO AUST. Tilana No.1 329271 Data Printed at time 09:25 Date Oct 28 '81
Data Recorded at time 07:47 Date Oct 26 203

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NX	NXB	ECD	EST FM PR
237	0747	3763.1	6.56	3.41	3.63	93	47.1	2990	3751.4	10.0	10.1	584	630	57.5	59.0	366	11648	11.0	2.0	910	2775	.18	1.54	1.54	6.29	10.10	8.70
238	0751	3763.4	4.06	3.55	4.19	93	49.1	2970	3751.7	10.0	10.1	582	646	57.5	59.0	365	12058	11.4	2.1	1323	2722	.19	1.70	1.70	6.29	10.10	8.70
239	0756	3763.7	3.68	3.52	3.92	93	49.2	2980	3752.0	10.0	10.1	583	672	57.7	59.4	366	12516	11.7	2.2	1447	2686	.19	1.73	1.73	6.29	10.10	8.70
240	0759	3764.0	5.16	3.47	3.97	93	47.7	2990	3752.1	10.1	10.1	584	655	57.9	59.5	366	12843	12.0	2.2	1162	2642	.20	1.62	1.61	6.30	10.10	8.70
241	0803	3764.3	4.92	3.53	4.51	92	48.7	2980	3752.3	10.0	10.1	583	651	58.1	59.5	366	13184	12.3	2.3	1058	2602	.20	1.64	1.64	6.29	10.10	8.70
242	0808	3764.6	4.14	3.56	4.36	93	49.3	3000	3752.6	10.1	10.1	584	662	58.2	59.7	367	13590	12.6	2.4	1196	2568	.21	1.70	1.69	6.30	10.10	8.70
243	0812	3764.9	4.84	3.69	4.55	92	49.9	2970	3752.9	10.1	10.1	583	641	58.4	60.1	365	13964	12.9	2.4	1002	2534	.22	1.66	1.65	6.30	10.10	8.70
244	0816	3765.2	3.74	3.65	4.54	92	48.9	2970	3753.4	10.1	10.1	581	639	58.5	60.2	366	14375	13.2	2.5	1325	2504	.22	1.72	1.71	6.30	10.10	8.70
246	0833	3765.5	4.39	3.69	4.49	90	46.1	3020	3754.2	9.99	10.2	586	643	58.6	60.7	368	15182	13.5	2.7	2630	2503	.24	1.64	1.63	6.30	10.10	8.70
247	0837	3765.8	4.96	3.67	4.31	90	47.1	3010	3754.5	10.1	10.2	586	651	58.5	60.4	368	15512	13.8	2.7	1051	2470	.24	1.61	1.61	6.30	10.10	8.70
248	0840	3766.1	5.88	3.66	4.80	88	46.5	3010	3754.8	10.1	10.2	586	595	58.6	61.0	366	15788	14.1	2.8	869	2439	.25	1.55	1.55	6.30	10.10	8.70
249	0847	3766.4	2.75	4.09	7.82	92	46.5	3040	3755.4	9.99	10.2	589	645	58.7	60.9	370	16431	14.4	2.9	2941	2426	.25	1.77	1.77	6.31	10.10	8.70
250	0851	3766.7	4.36	3.59	4.89	98	47.0	3000	3755.5	10.1	10.2	587	654	58.9	61.0	370	16841	14.7	3.0	1267	2402	.26	1.67	1.66	6.30	10.10	8.70
251	0856	3767.0	3.55	3.99	7.50	90	47.5	3010	3755.7	10.1	10.2	585	641	59.2	61.4	372	17265	15.0	3.0	1771	2376	.27	1.71	1.70	6.31	10.10	8.70
252	0859	3767.3	5.46	3.67	6.02	91	46.7	2980	3756.4	10.1	10.2	586	678	59.2	61.4	374	17569	15.3	3.1	931	2347	.27	1.58	1.58	6.31	10.10	8.70
253	0905	3767.6	3.02	4.37	7.64	92	47.3	3000	3756.7	10.1	10.1	586	675	59.1	62.1	382	18101	15.6	3.2	2290	2333	.28	1.76	1.75	6.31	10.10	8.70
254	0911	3768.0	3.82	3.73	7.60	102	45.9	3000	3757.4	10.1	10.2	587	630	58.8	62.4	384	18613	15.9	3.3	1256	2316	.29	1.70	1.69	6.31	10.10	8.70
255	0915	3768.3	4.08	3.87	4.56	92	44.7	3000	3757.9	10.1	10.1	587	652	58.7	62.1	389	19019	16.2	3.4	1096	2295	.29	1.64	1.63	6.31	10.10	8.70
256	0919	3768.6	3.89	3.43	3.96	91	46.1	3010	3758.3	10.1	10.1	587	653	58.7	62.2	392	19401	16.5	3.4	1222	2275	.30	1.67	1.66	6.31	10.10	8.70
257	0923	3768.9	5.39	3.52	4.05	90	46.6	3010	3758.6	10.1	10.1	586	652	58.8	62.7	392	19705	16.8	3.5	921	2249	.31	1.58	1.57	6.31	10.10	8.70
258	0927	3769.2	4.23	3.59	4.49	91	48.0	3010	3759.3	10.1	10.1	588	636	59.0	62.3	396	20078	17.2	3.6	1259	2229	.31	1.66	1.66	6.31	10.10	8.70
259	0932	3769.5	3.36	3.28	4.44	91	47.1	3000	3759.7	10.1	10.2	587	640	59.1	62.1	399	20571	17.5	3.6	1403	2216	.32	1.72	1.71	6.32	10.10	8.70
260	0937	3769.8	3.47	3.40	4.39	91	46.8	3000	3760.2	10.1	10.2	586	647	59.3	62.1	400	21061	17.7	3.7	1583	2203	.33	1.70	1.70	6.31	10.10	8.70
	Date	Oct 26 '81																									
263	0953	3770.7	4.27	3.57	4.44	90	45.4	3000	3761.5	10.1	10.2	587	661	59.6	62.1	410	22392	18.7	3.9	1065	2146	3.82	1.64	1.52	6.32	10.10	8.70
264	0957	3771.0	4.09	3.61	4.30	91	45.8	3020	3761.8	10.1	10.2	587	653	59.7	62.0	412	22802	19.0	4.0	1153	2133	3.82	1.66	1.54	6.32	10.10	8.70
265	1003	3771.3	7.46	3.51	3.85	92	44.2	3020	3762.0	10.1	10.2	588	649	59.7	62.1	413	23023	19.3	4.0	823	2114	3.82	1.48	1.36	6.32	10.10	8.70
266	1004	3771.6	3.93	3.44	3.83	91	44.9	3010	3762.3	10.1	10.2	588	624	59.8	62.1	416	23440	19.6	4.1	1150	2095	3.83	1.66	1.54	6.32	10.10	8.70
267	1008	3771.9	4.97	3.44	4.57	90	45.9	2990	3762.5	10.1	10.2	589	674	59.8	62.6	419	23773	19.9	4.2	1025	2078	3.83	1.60	1.49	6.33	10.10	8.70
268	1013	3772.2	3.57	3.82	4.78	90	45.5	3010	3762.9	10.1	10.2	588	647	59.9	62.4	419	24235	20.2	4.3	1305	2068	3.84	1.69	1.57	6.32	10.10	8.70
269	1017	3772.5	5.08	3.90	4.66	90	46.0	3010	3763.1	10.1	10.2	589	614	60.0	62.3	424	24558	20.5	4.3	981	2052	3.84	1.59	1.48	6.33	10.10	8.70
270	1021	3772.8	4.97	3.68	4.71	90	45.7	3000	3763.3	10.1	10.2	589	633	59.8	62.4	430	24939	20.8	4.4	942	2036	3.84	1.60	1.48	6.33	10.10	8.70
271	1025	3773.1	3.71	3.64	4.66	90	45.8	3000	3763.6	10.1	10.2	589	651	59.4	62.1	437	25334	21.1	4.5	1460	2026	3.85	1.68	1.56	6.33	10.10	8.70
272	1030	3773.4	3.77	3.52	4.33	91	46.1	3020	3763.9	10.1	10.2	590	661	59.0	62.2	446	25772	21.4	4.5	1446	2016	3.85	1.68	1.56	6.33	10.10	8.70
273	1036	3773.7	3.35	3.37	4.41	91	45.6	3030	3764.3	10.0	10.3	590	679	58.6	62.4	442	26266	21.7	4.6	1507	2009	3.86	1.71	1.59	6.33	10.10	8.70
274	1052	3774.1	3.72	3.16	4.37	92	36.6	3020	3765.0	10.1	10.1	583	615	59.1	61.8	451	26477	22.0	4.7	1472	2003	3.86	1.70	1.62	6.33	10.10	8.70
275	1052	3774.3	4.23	3.35	3.59	91	40.0	3020	3765.0	10.1	10.1	584	617	59.1	61.8	451	26503	22.3	4.7	1038	1966	3.86	1.68	1.59	6.34	10.10	8.70
276	1058	3774.6	3.12	3.52	4.30	91	43.3	3030	3765.3	9.95	10.1	589	620	59.5	61.8	446	27032	22.6	4.8	2413	1961	3.87	1.70	1.58	6.33	10.10	8.70
277	1102	3775.0	5.07	3.29	4.51	91	43.8	3030	3765.6	9.99	10.1	589	610	59.7	61.2	446	27325	22.9	4.8	897	1947	3.87	1.57	1.45	6.34	10.10	8.70
278	1106	3775.3	4.16	3.93	4.72	90	44.2	3000	3765.8	9.99	10.1	590	590	59.9	61.8	445	27718	23.2	4.9	1345	1938	3.87	1.62	1.51	6.34	10.10	8.70
279	1110	3775.6	4.15	3.83	4.78	90	43.9	2970	3766.1	10.0	10.1	587	567	60.1	62.2	446	28108	23.6	5.0	1264	1926	3.88	1.62	1.51	6.34	10.10	8.70
280	1116	3775.9	3.10	3.92	4.65	90	44.5	2970	3766.5	9.91	10.1	585	557	60.8	61.7	446	28640	23.8	5.1	2087	1926	3.88	1.71	1.59	6.34	10.10	8.70
281	1120	3776.2	5.12	3.73	4.80	90	45.6	2960	3766.7	9.91	10.1	586	545	60.8	61.7	443	28961	24.1	5.1	967	1912	3.89	1.58	1.47	6.34	10.10	8.70
282	1127	3776.5	2.52	3.62	4.67	90	43.8	3030	3767.2	9.98	10.1	587	629	60.9	61.8	443	29612	24.5	5.3	1096	1911	3.89	1.76	1.64	6.34	10.10	8.70
283	1132	3776.8	3.81	3.50	4.41	91	44.8	3010	3767.5	9.99	10.1	587	647	61.0	62.3	440	30047	24.8	5.3	1331	1903	3.90	1.66	1.54	6.34	10.10	8.70
284	1135	3777.1	6.38	3.41	4.47	90	43.7	3000	3767.7	9.99	10.1	587	648	61.1	62.5	438	30307	25.1	5.4	803	1891	3.90	1.50	1.39	6.34	10.10	8.70
285	1140	3777.4	3.93	3.54	4.40	91	43.1	2990	3768.0	9.99	10.1	588	635	61.3	61.9	442	30760	25.4	5.5	1300	1885	3.91	1.63	1.52	6.35	10.10	8.70
286	1144	3777.7	3.52	3.50	4.01	90	43.7	2990	3768.3	10.0	10.1	587	636	61.6	62.0	442	31185	25.7	5.5	1321	1877	3.91	1.67	1.55	6.34	10.10	8.70
287	1150	3778.0	3.12	3.49	4.49	88	44.0	2990	3768.7	10.0	10.1	587	621	61.9	62.1	443	31696	26.0	5.6	1584	1873	3.92	1.69	1.58	6.35	10.10	8.70
288	1155	3778.3	3.62	3.43	4.25	87	43.2	3020	3768.9	9.87	10.1	590	640	61.9	62.6	412	32103	26.3	5.7	1422	1866	3.92	1.64	1.53	6.35	10.10	8.70

AMOCO AUST. Tilana No.1 329272 Data Printed at time 09:29 Date Oct 28 '85
Data Recorded at time 11:59 Date Oct 26 '81 204

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	WK	WKB	ECD	EST FM PR	
289	1159	3778.6	4.39	3.60	4.56	88	44.0	3030	3769.3	9.93	10.1	591	614	61.9	62.3	413	32465	26.6	5.8	1039	1858	3.92	1.60	1.49	6.35	10.10	8.70	D
290	1204	3778.9	3.69	3.44	4.46	87	43.9	3000	3769.6	9.96	10.1	590	624	62.0	62.5	415	32896	26.9	5.9	1495	1852	3.93	1.65	1.53	6.35	10.10	8.70	D
291	1209	3779.2	3.93	3.43	4.40	88	43.7	3000	3770.0	9.96	10.1	588	630	62.0	62.5	415	33329	27.2	6.0	1501	1847	3.93	1.63	1.51	6.35	10.10	8.70	D
292	1214	3779.5	3.77	3.58	4.53	88	44.3	3000	3770.4	10.0	10.1	587	642	62.2	62.5	417	33750	27.5	6.0	1299	1841	3.94	1.65	1.53	6.35	10.10	8.70	D
293	1219	3779.8	3.60	3.36	4.30	87	44.5	2330	3770.8	9.98	10.0	587	616	62.2	62.7	419	34189	27.8	6.1	1579	1836	3.94	1.66	1.55	6.36	10.10	8.70	D
294	1223	3780.1	3.92	3.42	4.45	87	43.9	2790	3771.2	9.95	10.0	591	613	62.0	63.2	421	34593	28.1	6.2	1343	1830	3.95	1.63	1.52	6.35	10.10	8.70	D
295	1228	3780.4	4.02	3.55	4.42	87	43.8	2830	3771.5	9.95	10.0	590	615	62.0	63.0	422	34987	28.4	6.3	1253	1824	3.95	1.63	1.51	6.36	10.10	8.70	D
296	1232	3780.8	4.11	3.67	4.39	87	43.9	2760	3771.7	10.0	10.0	589	629	62.0	63.1	424	35372	28.7	6.3	1226	1817	3.95	1.62	1.51	6.36	10.10	8.70	D
297	1235	3781.0	5.02	3.48	3.84	87	43.8	2840	3772.0	10.0	10.0	590	619	62.0	63.1	425	35644	29.0	6.4	909	1807	3.96	1.57	1.45	6.36	10.10	8.70	D
298	1240	3781.4	3.72	3.70	4.59	87	44.5	2830	3772.3	10.0	10.0	589	607	61.9	62.8	423	36088	29.3	6.5	1355	1804	3.96	1.66	1.54	6.36	10.10	8.70	D
299	1243	3781.7	6.19	3.67	4.46	87	43.8	2840	3772.3	10.0	10.0	589	620	61.9	62.8	429	36343	29.6	6.5	869	1793	3.96	1.51	1.39	6.36	10.10	8.70	D
300	1245	3782.0	9.67	3.71	4.40	87	44.2	2830	3774.3	10.1	10.0	588	593	61.8	63.0	431	36501	30.0	6.6	543	1780	3.97	1.39	1.28	6.36	10.10	8.70	D
301	1246	3782.3	14.8	3.71	4.07	87	43.5	2840	3774.3	10.1	10.0	588	613	61.8	63.0	430	36606	30.3	6.6	346	1765	3.97	1.27	1.15	6.36	10.10	8.70	D
302	1248	3782.6	10.2	3.70	4.16	87	43.0	2830	3774.3	10.1	10.0	590	594	61.8	63.0	431	36762	30.6	6.6	547	1753	3.97	1.37	1.25	6.36	10.10	8.70	D
303	1250	3782.9	11.6	3.68	4.63	87	41.0	2820	3774.4	10.1	10.0	588	600	61.2	62.9	432	36885	30.9	6.6	470	1741	3.97	1.31	1.23	6.37	10.10	8.70	D
304	1253	3783.2	20.4	3.91	4.97	87	40.8	2840	3774.5	10.1	10.0	589	605	61.2	62.9	433	36962	31.2	6.6	269	1727	3.97	1.16	1.05	6.36	10.10	8.70	D
305	1251	3783.5	21.1	4.14	4.86	87	54.5	2800	3774.6	10.1	10.0	589	631	61.2	62.9	431	36993	31.4	6.7	251	1716	3.97	1.12	1.02	6.37	10.10	8.70	D
306	1315	3783.8	17.0	4.27	5.71	87	53.0	2970	3775.5	9.92	10.0	585	573	58.4	60.4	450	37155	31.8	6.7	499	1699	3.97	1.32	1.19	6.37	10.10	8.70	D
307	1317	3784.1	6.93	3.99	5.22	87	42.1	3050	3775.6	9.92	10.0	586	579	58.4	60.4	432	37361	32.1	6.7	629	1687	3.97	1.46	1.35	6.37	10.10	8.70	D
308	1321	3784.4	5.46	4.10	5.08	88	41.7	3030	3775.7	9.79	10.0	586	591	58.2	61.0	426	37655	32.4	6.8	965	1680	3.98	1.52	1.41	6.37	10.10	8.70	D
309	1323	3784.7	6.79	4.31	5.09	89	41.6	3020	3775.8	9.79	10.0	585	592	58.2	61.0	425	37894	32.7	6.8	728	1671	3.98	1.47	1.35	6.37	10.10	8.70	D
310	1331	3785.0	2.52	3.75	4.91	89	41.3	3020	3776.1	9.81	10.0	586	609	57.8	61.5	423	38535	33.0	6.9	2467	1674	3.99	1.73	1.61	6.37	10.10	8.70	D
311	1336	3785.3	3.92	3.83	4.95	89	42.3	3020	3776.4	9.84	10.0	587	632	57.8	61.6	427	38985	33.3	7.0	1408	1673	3.99	1.62	1.50	6.38	10.10	8.70	D
312	1342	3785.6	2.52	3.64	4.35	87	42.5	3010	3776.8	9.94	10.1	587	635	58.2	61.9	426	39556	33.6	7.1	1695	1672	4.00	1.74	1.62	6.37	10.10	8.70	D
313	1348	3785.9	3.10	3.46	4.36	88	41.7	3020	3777.1	9.96	10.1	587	660	58.5	62.4	423	40029	33.9	7.2	1459	1670	4.00	1.63	1.56	6.38	10.10	8.70	D
314	1352	3786.2	4.50	3.54	4.36	88	40.8	3010	3777.3	9.92	10.1	587	641	58.9	63.0	423	40412	34.2	7.3	1107	1666	4.01	1.57	1.45	6.38	10.10	8.70	D
315	1357	3786.5	3.52	3.62	4.44	87	41.7	3000	3777.5	9.99	10.1	587	654	59.2	62.6	423	40830	34.5	7.4	1339	1663	4.01	1.64	1.53	6.38	10.10	8.70	D
316	1402	3786.9	3.91	3.71	4.50	87	41.7	2990	3777.7	9.91	10.1	587	670	59.8	62.8	424	41265	34.8	7.5	1375	1661	4.01	1.61	1.50	6.38	10.10	8.70	D
317	1408	3787.2	2.92	3.53	4.53	86	41.9	2980	3778.1	9.89	10.1	588	660	60.1	63.1	425	41806	35.1	7.6	1935	1661	4.02	1.69	1.58	6.38	10.10	8.70	D
318	1412	3787.5	4.60	3.59	4.58	86	41.9	2980	3778.3	9.84	10.1	587	668	60.4	63.5	428	42147	35.4	7.6	1315	1658	4.02	1.57	1.45	6.38	10.10	8.70	D
319	1415	3787.8	5.21	4.09	4.62	85	41.1	2990	3778.5	9.83	10.1	588	663	60.6	64.0	421	42430	35.7	7.7	899	1653	4.03	1.53	1.41	6.38	10.10	8.70	D
320	1419	3788.1	4.22	3.89	4.54	86	42.5	2990	3778.7	9.88	10.1	587	646	61.0	63.9	422	42800	36.1	7.8	1113	1646	4.03	1.60	1.48	6.38	10.10	8.70	D
321	1426	3788.4	3.07	3.49	4.52	87	41.8	2960	3779.0	9.89	10.1	588	663	61.4	64.2	424	43341	36.3	7.9	1724	1646	4.04	1.68	1.56	6.39	10.10	8.70	D
322	1431	3788.7	3.62	3.60	4.55	88	41.8	2980	3779.2	9.89	10.1	588	641	61.8	63.4	426	43781	36.6	7.9	1513	1646	4.04	1.64	1.52	6.38	10.10	8.70	D
323	1435	3789.0	3.74	3.66	4.34	88	41.1	2990	3783.3	9.89	10.1	588	651	61.8	63.4	426	44190	37.0	8.0	1273	1641	4.04	1.62	1.51	6.39	10.10	8.70	D
324	1441	3789.3	3.68	3.53	4.67	87	41.7	2960	3783.5	9.85	10.1	587	642	62.5	64.2	427	44637	37.3	8.1	1419	1640	4.05	1.63	1.52	6.39	10.10	8.70	D
325	1444	3789.6	5.73	3.85	4.56	87	40.8	2950	3783.7	9.85	10.1	588	644	62.5	64.2	426	44914	37.6	8.2	885	1633	4.05	1.51	1.39	6.39	10.10	8.70	D
326	1445	3789.9	10.3	3.72	4.20	88	41.4	2970	3783.8	9.85	10.1	588	653	62.6	64.5	424	45070	37.9	8.2	511	1624	4.05	1.36	1.24	6.39	10.10	8.70	D
327	1448	3790.2	7.26	3.71	4.38	88	41.0	2970	3783.9	9.85	10.1	587	658	62.6	64.5	424	45289	38.2	8.2	800	1617	4.06	1.45	1.33	6.39	10.10	8.70	D
328	1450	3790.5	7.51	3.87	5.21	88	40.4	2960	3781.0	9.92	10.1	587	645	62.8	63.8	424	45480	38.5	8.3	647	1609	4.06	1.43	1.31	6.39	10.10	8.70	D
329	1452	3790.8	10.4	3.88	7.63	84	42.0	2930	3781.0	9.92	10.1	587	651	62.8	63.8	424	45611	38.8	8.3	472	1600	4.06	1.35	1.23	6.40	10.10	8.70	D
330	1455	3791.1	4.96	3.90	7.52	84	42.6	2900	3781.5	9.92	10.1	582	647	63.0	64.1	420	45918	39.1	8.4	853	1595	4.06	1.55	1.44	6.39	10.10	8.70	D
331	1458	3791.4	6.22	3.75	4.51	85	43.0	2900	3782.1	9.88	10.0	581	640	63.1	63.9	422	46166	39.4	8.4	819	1588	4.07	1.50	1.38	6.40	10.10	8.70	D
332	1500	3791.7	8.76	3.59	4.10	85	42.9	2890	3782.4	9.88	10.0	581	637	63.1	63.9	419	46342	39.7	8.4	704	1582	4.07	1.41	1.29	6.40	10.10	8.70	D
333	1504	3792.0	4.49	3.54	4.64	85	43.0	2970	3782.6	9.89	10.0	586	655	63.1	64.1	422	46686	40.0	8.5	904	1577	4.07	1.59	1.48	6.40	10.10	8.70	D
334	1508	3792.3	5.64	3.41	4.34	86	41.7	2950	3782.6	9.88	10.0	586	634	63.2	63.8	420	46965	40.3	8.6	824	1572	4.07	1.52	1.40	6.40	10.10	8.70	D
335	1513	3792.6	3.67	3.52	4.45	86	41.9	2940	3782.8	9.89	9.96	586	639	63.2	64.0	422	47390	40.6	8.6	1515	1570	4.08	1.64	1.52	6.40	10.10	8.70	D
336	1530	3793.0	5.30	3.60	3.93	86	39.0	2980	3783.7	9.87	9.89	579	570	62.9	63.0	422	47539	40.9	8.7	1326	1567	4.08	1.51	1.39	6.40	10.10	8.70	D
337	1532	3793.3	4.60	3.84	4.94	87	44.6	3000	3783.8	9.87	9.89	599	627	62.9	63.0	422	47685	41.2	8.7	2664	1553	4.08	1.53	1.29	6.40	10.10	8.70	D
338	1534	3793.5	7.81	4.57	4.89	87	42.6	2900	3783.8	9.78	9.93	598	630	62.4	62.3	419	47868	41.5	8.7	826	1546	4.08	1.45	1.33	6.40	10.10	8.70	D

AMOCO AUST. Tilana No.1 329273 Data Printed at time 09:37 Date Oct 28
Data Recorded at time 15:37 Date Oct 26 205

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TVD	DXC	NX	NXB	ECD	EST FM PR
339	1537	3793.8	7.33	4.40	5.27	84	42.7	2870	3783.9	9.78	9.93	584	625	62.4	62.3	420	48077	41.8	8.8	808	1541	4.08	1.46	1.34	6.41	10.10	8.70
340	1539	3794.2	9.82	4.60	5.10	86	41.7	2930	3784.0	9.79	9.92	596	637	62.1	62.6	421	48236	42.1	8.8	501	1533	4.09	1.37	1.25	6.40	10.10	8.70
341	1540	3794.5	13.3	4.38	4.95	90	41.5	2980	3784.1	9.79	9.92	598	636	62.1	62.6	420	48350	42.5	8.8	353	1525	4.09	1.30	1.18	6.41	10.10	8.70
342	1542	3794.8	9.13	4.06	4.91	89	41.5	1800	3784.2	9.83	9.93	596	615	61.9	62.9	420	48538	42.8	8.9	856	1521	4.09	1.40	1.28	6.41	10.10	8.70
343	1545	3795.1	6.30	4.55	5.05	89	41.3	2970	3784.3	9.83	9.93	595	622	61.9	62.9	421	48780	43.1	8.9	880	1512	4.09	1.50	1.38	6.41	10.10	8.70
344	1546	3795.4	12.1	4.74	5.34	92	43.6	3010	3784.4	9.79	9.91	596	645	61.8	63.0	419	48929	43.4	8.9	462	1505	4.09	1.35	1.23	6.41	10.10	8.70
345	1548	3795.7	10.2	4.45	6.64	91	42.2	3000	3784.5	9.79	9.91	597	632	61.8	63.0	419	49038	43.7	9.0	582	1499	4.09	1.38	1.26	6.41	10.10	8.70
346	1550	3796.0	7.73	4.39	5.25	94	41.5	2970	3784.6	9.78	9.93	600	633	61.9	63.3	420	49307	44.0	9.0	689	1493	4.10	1.46	1.34	6.41	10.10	8.70
347	1553	3796.3	7.39	4.18	6.04	90	42.8	2900	3784.7	9.78	9.93	601	619	61.9	63.3	422	49516	44.3	9.0	578	1486	4.10	1.47	1.35	6.42	10.10	8.70
348	1555	3796.6	7.42	3.67	6.63	89	41.7	2810	3784.9	9.77	9.93	600	621	61.9	62.7	422	49743	44.6	9.1	661	1481	4.10	1.46	1.34	6.41	10.10	8.70
349	1559	3796.9	4.17	3.78	4.87	89	41.0	2560	3785.2	9.71	9.92	596	619	61.8	62.5	421	50114	44.9	9.2	1116	1478	4.11	1.61	1.49	6.42	10.10	8.70
350	1602	3797.2	7.51	4.26	4.75	88	42.8	2550	3785.3	9.71	9.92	594	607	61.8	62.5	423	50337	45.2	9.2	673	1474	4.11	1.47	1.34	6.42	10.10	8.70
351	1604	3797.5	7.09	3.75	4.60	87	40.8	2350	3785.5	9.80	9.93	592	606	61.3	62.3	423	50561	45.5	9.2	717	1468	4.11	1.46	1.34	6.42	10.10	8.70
352	1605	3797.8	3.50	3.87	4.28	87	42.0	1200	3785.5	9.80	9.93	594	440	61.3	62.3	426	50615	45.8	9.3	1102	1459	4.11	1.71	1.59	6.42	10.10	8.70
353	1611	3798.1	3.11	3.96	5.70	90	43.2	2930	3785.8	9.85	9.93	588	640	61.2	61.9	422	51096	46.1	9.3	781	1460	4.12	1.72	1.59	6.42	10.10	8.70
354	1616	3798.4	3.60	3.70	5.04	90	43.0	3010	3786.1	9.75	9.96	585	659	60.9	62.0	415	51556	46.4	9.4	1138	1459	4.12	1.68	1.56	6.42	10.10	8.70
355	1620	3798.7	4.32	3.57	4.54	89	41.1	3020	3786.4	9.86	9.98	587	634	60.7	62.2	418	51933	46.7	9.5	1024	1457	4.12	1.60	1.48	6.42	10.10	8.70
356	1625	3799.0	4.12	3.84	4.60	89	41.5	3010	3786.7	9.79	9.88	584	650	60.6	62.1	425	52326	47.0	9.6	1154	1456	4.13	1.62	1.50	6.42	10.10	8.70
357	1629	3799.3	4.12	4.43	5.01	90	41.7	3020	3786.9	9.76	9.82	584	639	60.2	62.3	431	52727	47.3	9.7	994	1455	4.13	1.63	1.50	6.43	10.10	8.70
358	1634	3799.6	3.34	3.91	4.78	90	42.8	2980	3787.1	9.65	9.81	578	632	59.4	62.2	443	53207	47.6	9.7	1758	1455	4.14	1.70	1.57	6.42	10.10	8.70
359	1637	3799.9	6.64	3.59	4.45	88	43.1	2980	3787.3	9.65	9.81	578	626	59.4	62.2	427	53448	47.9	9.8	831	1451	4.14	1.51	1.39	6.43	10.10	8.70
360	1641	3800.2	5.05	3.31	4.15	88	41.1	2980	3787.5	9.62	9.80	577	620	58.6	62.2	400	53764	48.2	9.8	810	1447	4.14	1.56	1.44	6.43	10.10	8.70
361	1645	3800.6	4.42	3.58	4.54	88	41.0	2980	3787.7	9.62	9.80	577	633	57.6	62.2	364	54129	48.5	9.9	1051	1446	4.15	1.59	1.47	6.43	10.10	8.70
362	1649	3800.9	4.48	4.44	4.84	91	42.0	2980	3788.1	9.58	9.80	576	636	55.9	62.4	337	54497	48.9	10.0	1119	1444	4.15	1.61	1.49	6.43	10.10	8.70
363	1652	3801.2	6.75	4.42	4.80	90	42.1	2970	3788.4	9.54	9.81	576	635	53.8	62.0	343	54740	49.2	10.0	730	1439	4.15	1.50	1.38	6.43	10.10	8.70
364	1656	3801.5	4.60	4.33	4.77	91	42.1	2970	3788.9	9.54	9.81	575	648	53.8	62.0	353	55098	49.5	10.1	1402	1437	4.16	1.61	1.48	6.43	10.10	8.70
365	1659	3801.8	5.16	4.08	4.63	90	42.2	2970	3789.4	9.54	9.81	574	639	53.8	62.0	356	55440	49.8	10.2	1021	1435	4.16	1.57	1.45	6.44	10.10	8.70
366	1704	3802.1	4.09	3.95	4.73	90	42.2	2970	3789.8	9.54	9.83	576	637	51.9	61.9	357	55806	50.1	10.2	1337	1433	4.16	1.64	1.52	6.43	10.10	8.70
367	1707	3802.4	5.75	4.17	4.78	90	42.7	2970	3790.1	9.58	10.0	577	637	52.4	61.5	354	56112	50.4	10.3	916	1430	4.17	1.56	1.43	6.44	10.10	8.70
	Date	Oct 26 '85																									
368	1712	3803.5	3.61	3.61	3.92	90	42.9	2960	3789.0	9.64	10.0	576	570	53.1	61.1	373	56173	51.5	10.3	1384	1400	4.17	1.71	1.52	6.43	10.10	8.70
369	1730	3804.4	4.84	4.20	4.85	90	42.2	2990	3789.0	9.59	10.0	589	671	56.8	61.1	371	57436	52.4	10.5	835	1400	4.18	1.57	1.45	6.44	10.10	8.70
370	1737	3804.8	4.02	4.36	5.04	91	43.3	2990	3789.0	9.54	10.0	589	639	56.9	61.4	379	58053	52.8	10.7	1256	1398	4.19	1.63	1.51	6.44	10.10	8.70
371	1742	3805.1	3.42	4.42	5.13	92	42.8	2980	3789.0	9.57	10.0	589	665	57.0	61.2	383	58548	53.1	10.7	1614	1399	4.19	1.68	1.55	6.44	10.10	8.70
372	1747	3805.5	3.65	4.42	4.97	91	43.9	2990	3789.0	9.56	10.0	590	676	57.3	61.6	389	59035	53.4	10.8	1465	1399	4.20	1.67	1.55	6.44	10.10	8.70
373	1751	3805.7	4.98	4.49	4.94	89	43.5	2990	3789.0	9.52	10.0	591	679	57.4	61.6	392	59336	53.7	10.9	982	1397	4.20	1.58	1.46	6.44	10.10	8.70
374	1755	3806.1	4.36	4.56	5.03	93	42.8	2990	3789.0	9.54	9.99	591	680	57.4	61.3	396	59746	54.0	11.0	806	1396	4.21	1.62	1.50	6.44	10.10	8.70
375	1800	3806.4	3.38	4.73	5.20	93	41.9	2980	3789.0	9.53	9.97	591	651	57.3	61.4	404	60242	54.3	11.1	1376	1397	4.21	1.68	1.56	6.44	10.10	8.70
376	1806	3806.7	3.17	4.55	5.19	93	41.8	2980	3789.0	9.48	9.97	593	632	57.3	61.0	414	60775	54.6	11.1	1404	1397	4.22	1.70	1.58	6.44	10.10	8.70
377	1811	3807.0	3.27	4.57	5.18	91	41.8	2980	3789.0	9.48	9.96	593	649	57.3	61.2	419	61250	55.0	11.2	1457	1397	4.22	1.69	1.57	6.45	10.10	8.70
378	1814	3807.3	6.13	4.52	4.83	89	41.2	2980	3789.0	9.37	10.0	593	651	57.3	61.0	419	61516	55.3	11.3	782	1394	4.23	1.51	1.39	6.45	10.10	8.70
379	1820	3807.6	3.39	4.61	5.07	90	42.1	2980	3789.0	9.40	9.97	592	646	57.3	61.4	427	62021	55.6	11.4	1105	1395	4.23	1.69	1.56	6.45	10.10	8.70
380	1825	3807.9	3.33	4.39	4.98	90	42.3	2980	3789.0	9.41	9.88	594	616	57.2	60.4	434	62485	55.9	11.5	1479	1395	4.24	1.70	1.58	6.45	10.10	8.70
381	1830	3808.2	3.64	4.67	5.32	89	41.9	2980	3789.0	9.38	9.87	594	662	57.3	60.4	441	62954	56.2	11.6	1212	1395	4.24	1.67	1.55	6.45	10.10	8.70
382	1833	3808.5	5.53	4.93	5.53	90	42.3	2970	3796.3	9.38	9.87	594	647	57.3	60.4	440	63219	56.5	11.6	837	1392	4.24	1.57	1.44	6.45	10.10	8.70
383	1838	3808.8	3.66	5.09	5.68	90	41.9	2980	3796.7	9.38	9.87	596	646	57.1	59.6	446	63665	56.8	11.7	1205	1393	4.25	1.74	1.61	6.45	10.10	8.70
384	1844	3809.1	3.19	4.97	5.62	90	41.8	2970	3797.3	9.38	9.91	596	624	57.1	59.6	456	64175	57.1	11.8	1510	1393	4.25	1.78	1.65	6.45	10.10	8.70
385	1848	3809.4	4.70	5.03	5.60	90	42.3	2970	3797.6	9.36	9.93	595	634	57.0	59.7	457	64524	57.4	11.8	1130	1392	4.26	1.68	1.54	6.45	10.10	8.70
386	1852	3809.7	4.88	5.04	5.39	90	41.3	2970	3798.0	9.34	9.93	595	628	56.9	59.1	463	64857	57.7	11.9	1055	1390	4.26	1.65	1.52	6.46	10.10	8.70
387	1857	3810.0	3.70	5.03	5.48	90	41.0	2970	3798.4	9.36	9.94	596	631	56.8	58.4	467	65299	58.0	12.0	1463	1390	4.26	1.73	1.60	6.46	10.10	8.7

AMOCO AUST. Tilana No.1 329274 Data Printed at time 09:41 Date Oct 28 '85 206
Data Recorded at time 19:00 Date Oct 26 '85

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW l/MIN IN	FLOW l/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR	
383	1900	3810.3	6.01	5.13	5.64	90	41.6	2980	3831.7	9.34	9.91	596	612	56.7	57.8	469	65572	58.3	12.0	950	1387	4.27	1.60	1.47	6.46	10.10	8.70	D
389	1903	3810.6	5.51	5.16	5.42	88	41.5	2970	3831.9	9.30	9.87	595	587	56.5	57.5	471	65858	58.6	12.1	823	1384	4.27	1.62	1.48	6.46	10.10	8.70	D
390	1909	3810.9	3.12	5.00	5.45	88	42.0	2970	3832.3	9.38	9.85	595	638	56.3	57.2	434	66373	58.9	12.2	1244	1386	4.27	1.78	1.65	6.46	10.10	8.70	D
391	1911	3811.2	7.32	4.99	5.20	87	42.7	2970	3832.5	9.22	9.84	595	611	56.0	56.5	435	66590	59.2	12.2	706	1382	4.28	1.55	1.41	6.46	10.10	8.70	D
392	1914	3811.5	5.10	4.79	5.31	89	42.0	2970	3832.7	9.22	9.84	594	602	56.0	56.5	370	66875	59.5	12.3	1043	1379	4.28	1.65	1.51	6.46	10.10	8.70	D
393	1918	3811.8	5.58	5.20	5.57	87	42.9	2980	3833.0	9.15	9.76	594	609	55.4	55.8	336	67160	59.8	12.3	824	1377	4.28	1.63	1.50	6.46	10.10	8.70	D
394	1920	3812.1	6.92	4.77	5.33	88	42.7	2980	3833.2	9.13	9.71	593	583	54.7	55.1	303	67392	60.1	12.4	690	1373	4.29	1.56	1.43	6.46	10.10	8.70	D
395	1926	3812.4	3.35	4.52	5.03	88	43.6	2980	3833.5	9.18	9.75	593	594	53.8	54.2	303	67869	60.4	12.5	1477	1374	4.29	1.79	1.65	6.47	10.10	8.70	D
396	1944	3812.8	5.22	4.15	5.08	87	39.2	2980	3835.5	9.78	9.81	588	556	52.7	54.6	311	67927	60.7	12.5	1006	1370	4.29	1.65	1.51	6.47	10.10	8.70	D
397	1945	3813.0	6.31	3.70	4.39	87	42.5	2980	3835.5	9.78	9.81	591	575	52.7	54.6	311	68006	61.0	12.5	1180	1363	4.29	1.62	1.48	6.47	10.10	8.70	D
398	1951	3813.4	2.91	4.51	5.24	87	42.8	2970	3835.9	9.78	9.80	592	573	53.1	54.8	309	68544	61.4	12.6	1804	1364	4.30	1.82	1.69	6.47	10.10	8.70	D
399	1957	3813.7	2.89	4.74	5.10	87	42.2	2870	3836.3	9.78	9.84	594	597	53.8	55.1	337	69093	61.7	12.7	1763	1366	4.30	1.81	1.68	6.47	10.10	8.70	D
400	2004	3814.0	2.94	4.72	5.14	87	42.4	2900	3836.3	9.78	9.88	594	573	54.0	54.9	330	69575	62.0	12.8	1379	1363	4.31	1.81	1.67	6.47	10.10	8.70	D
401	2008	3814.3	4.26	4.75	5.24	87	42.3	2880	3837.0	9.78	9.87	594	597	54.2	55.2	305	70046	62.3	12.9	1265	1367	4.31	1.69	1.56	6.47	10.10	8.70	D
402	2020	3814.6	1.58	4.02	5.18	87	42.6	2940	3837.8	9.78	9.90	594	595	54.8	55.1	306	71046	62.6	13.1	2646	1376	4.32	1.97	1.84	6.47	10.10	8.70	D
403	2025	3814.9	3.27	4.94	5.35	87	42.8	2930	3838.1	9.78	9.91	593	607	54.9	55.1	305	71529	62.9	13.2	1536	1377	4.33	1.76	1.63	6.47	10.10	8.70	D
404	2032	3815.2	2.43	4.69	5.24	87	41.9	2880	3838.6	9.78	9.91	591	592	55.1	55.2	305	72113	63.2	13.3	2104	1379	4.33	1.83	1.70	6.48	10.10	8.70	D
405	2039	3815.5	2.57	4.81	5.32	87	42.7	2900	3838.8	9.78	9.91	593	593	55.2	55.2	302	72726	63.5	13.4	1972	1382	4.34	1.82	1.68	6.48	10.10	8.70	D
406	2048	3815.8	2.02	4.71	5.32	87	43.1	2920	3839.2	9.78	9.93	593	571	55.2	55.4	306	73467	63.8	13.6	2281	1386	4.35	1.83	1.75	6.48	10.10	8.70	D
407	2054	3816.1	2.89	4.86	5.35	87	42.1	2910	3839.6	9.78	9.93	593	594	55.2	55.4	303	74043	64.1	13.7	1897	1388	4.35	1.77	1.64	6.48	10.10	8.70	D
408	2101	3816.4	2.54	4.94	5.42	87	42.2	2920	3839.9	9.78	9.93	594	598	55.2	55.2	305	74602	64.4	13.8	1837	1390	4.36	1.80	1.67	6.48	10.10	8.70	D
409	2107	3816.7	2.72	4.88	5.16	87	41.9	2910	3840.3	9.78	9.92	594	584	55.3	55.6	313	75158	64.7	13.9	1768	1392	4.36	1.77	1.64	6.48	10.10	8.70	D
410	2114	3817.0	2.69	4.84	5.25	87	42.2	2920	3840.9	9.78	9.91	594	586	54.4	55.3	325	75771	65.0	14.0	2158	1395	4.37	1.78	1.65	6.48	10.10	8.70	D
411	2123	3817.3	2.00	4.82	5.26	87	43.0	2970	3841.6	9.78	9.91	595	594	52.5	55.6	353	76534	65.3	14.1	2601	1399	4.38	1.86	1.73	6.48	10.10	8.70	D
412	2130	3817.6	2.73	4.97	5.34	87	42.6	2980	3842.0	9.78	9.90	594	583	51.0	55.0	362	77121	65.6	14.3	1910	1402	4.38	1.75	1.62	6.49	10.10	8.70	D
413	2135	3817.9	3.37	4.82	5.36	87	43.3	2980	3842.0	9.82	9.89	594	567	51.0	54.6	362	77591	65.9	14.3	1390	1402	4.39	1.70	1.57	6.49	10.10	8.70	D
414	2142	3818.2	2.45	4.58	5.25	87	43.3	2960	3842.1	9.82	9.87	593	563	52.4	54.0	365	78219	66.2	14.5	1958	1404	4.39	1.78	1.65	6.49	10.10	8.70	D
415	2147	3818.5	3.80	4.89	5.26	87	42.6	2950	3842.8	9.81	9.87	594	548	53.0	53.4	362	78643	66.5	14.6	1388	1404	4.40	1.65	1.52	6.49	10.10	8.70	D
416	2153	3818.8	3.22	4.78	5.37	87	41.6	2940	3843.0	9.89	9.83	594	566	53.4	53.3	361	79132	66.8	14.6	1617	1405	4.40	1.68	1.55	6.49	10.10	8.70	D
417	2158	3819.1	3.70	5.00	5.43	87	40.9	2950	3843.2	9.94	9.84	594	513	53.7	53.2	364	79558	67.1	14.7	1236	1405	4.41	1.63	1.50	6.49	10.10	8.70	D
418	2202	3819.5	4.03	4.98	5.59	87	43.1	2950	3843.4	9.87	9.80	595	439	53.8	53.2	364	79947	67.4	14.8	1315	1404	4.41	1.63	1.50	6.49	10.10	8.70	D
419	2207	3819.8	3.93	5.16	5.59	86	41.9	2940	3843.8	9.81	9.74	594	540	54.0	52.9	365	80348	67.7	14.9	1219	1404	4.42	1.63	1.50	6.49	10.10	8.70	D
420	2209	3820.1	7.16	5.08	5.51	87	42.0	2950	3843.8	9.81	9.74	595	439	54.0	52.9	362	80569	68.1	14.9	759	1401	4.42	1.47	1.34	6.49	10.10	8.70	D
421	2215	3820.4	3.45	4.64	5.45	86	42.0	2940	3844.0	9.77	9.73	595	531	54.0	52.8	362	81067	68.4	15.0	1422	1402	4.42	1.66	1.53	6.50	10.10	8.70	D
422	2220	3820.7	3.26	4.33	4.73	87	41.1	2940	3844.2	9.70	9.85	597	610	53.9	53.0	361	81507	68.7	15.1	1329	1401	4.43	1.67	1.54	6.50	10.10	8.70	D
423	2226	3821.0	3.31	4.42	5.13	87	41.3	2940	3844.5	9.74	10.1	596	597	53.8	54.9	360	82026	69.0	15.2	1525	1402	4.43	1.67	1.54	6.50	10.10	8.70	D
424	2233	3821.3	2.87	4.76	5.56	87	41.6	2930	3844.7	9.84	9.86	596	558	53.8	53.6	363	82575	69.3	15.3	3101	1404	4.44	1.71	1.58	6.50	10.10	8.70	D
425	2238	3821.6	3.67	5.00	5.23	86	41.9	2920	3844.9	9.84	9.81	595	524	53.7	53.6	368	83004	69.6	15.4	1486	1403	4.44	1.65	1.52	6.50	10.10	8.70	D
426	2242	3821.9	3.94	4.95	5.58	86	42.1	2880	3845.1	9.85	9.82	593	524	53.1	53.6	377	83402	69.9	15.5	1417	1402	4.45	1.63	1.50	6.50	10.10	8.70	D
427	2253	3822.2	13.7	4.32	5.15	91	42.3	3000	3846.6	9.86	9.83	597	579	52.5	53.6	394	83533	70.2	15.5	914	1398	4.45	1.31	1.18	6.50	10.10	8.70	D
428	2257	3822.5	4.09	5.06	5.66	95	43.9	3000	3846.7	9.65	9.87	598	600	51.1	54.4	398	83949	70.5	15.6	2218	1397	4.45	1.67	1.53	6.50	10.10	8.70	D
429	2301	3822.9	5.46	5.02	5.47	92	44.5	3000	3846.8	9.65	9.87	598	632	50.8	53.9	403	84311	70.8	15.6	1105	1396	4.45	1.59	1.45	6.50	10.10	8.70	D
430	2306	3823.1	3.19	4.93	5.81	88	44.0	3000	3847.1	9.62	9.91	597	592	50.7	54.1	407	84760	71.1	15.7	1911	1396	4.46	1.72	1.58	6.51	10.10	8.70	D
431	2314	3823.4	2.32	4.75	5.32	87	44.4	2990	3847.3	9.62	9.91	598	615	50.7	54.1	415	85395	71.4	15.8	1977	1398	4.47	1.81	1.67	6.51	10.10	8.70	D
432	2324	3823.7	1.97	4.78	5.20	88	44.4	2990	3847.7	9.58	9.95	599	610	50.8	54.2	427	86269	71.7	16.0	3256	1404	4.47	1.86	1.73	6.51	10.10	8.70	D
433	2330	3824.0	2.89	4.77	5.25	89	43.6	2980	3847.9	9.57	9.96	599	628	50.8	54.4	432	86823	72.0	16.1	2016	1406	4.48	1.75	1.62	6.51	10.10	8.70	D
434	2338	3824.3	2.13	5.08	5.51	88	45.1	2980	3848.2	9.56	9.96	598	624	51.0	54.2	442	87527	72.3	16.2	2209	1409	4.49	1.86	1.72	6.51	10.10	8.70	D
435	2341	3824.6	6.57	5.41	5.68	88	45.4	2970	3848.3	9.67	9.96	599	617	51.1	54.1	443	87772	72.6	16.3	759	1406	4.49	1.55	1.41	6.51	10.10	8.70	D
436	2347	3824.9	3.02	5.20	5.59	88	44.2	2990	3848.5	9.70	9.92	600	597	51.2	53.6	454	88300	72.9	16.4	1082	1407	4.49	1.75	1.62	6.51	10.10	8.70	D
437	2349	3825.3	6.95	5.34	6.08	88	44.5	2980	3848.7	9.66	9.90	600	607	51.2	53.5	455	88544	73.2	16.4	839	1405	4.50	1.53	1.39	6.51	10.10	8.70	D

EXCO

AMOCO AUST. Tilana No.1 329275

Data Printed at time 09:45 Date Oct 28
Data Recorded at time 23:55 Date Oct 26 85

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NX	NXB	ECD	EST FM PR
438	2355	3325.5	3.20	5.67	6.83	88	44.3	2970	3318.9	9.65	9.87	598	619	51.2	53.3	459	89021	73.5	16.5	2103	1405	4.50	1.74	1.61	6.51	10.10	8.70
	Date	Oct 27 '85																									
439	0001	3325.8	3.01	5.20	5.62	88	44.1	2970	3319.2	9.69	9.82	599	597	51.3	52.5	461	89556	73.8	16.6	1592	1406	4.51	1.76	1.62	6.52	10.10	8.70
440	0005	3326.2	4.89	5.27	5.62	88	44.0	2970	3319.5	9.69	9.82	599	595	51.3	52.5	461	89898	74.1	16.7	1181	1405	4.51	1.62	1.49	6.52	9.88	8.70
441	0010	3326.5	3.46	5.03	5.52	89	44.9	2980	3319.8	9.69	9.82	600	600	51.8	52.8	463	90345	74.5	16.8	1553	1404	4.52	1.74	1.60	6.52	9.87	8.70
442	0014	3326.8	4.11	5.17	5.56	89	43.7	2970	3320.1	9.54	9.85	600	589	52.1	52.6	462	90738	74.8	16.9	1260	1404	4.52	1.67	1.54	6.52	9.86	8.70
443	0018	3327.1	4.66	5.20	5.52	89	45.2	2960	3320.3	9.57	9.87	599	598	52.3	52.4	465	91085	75.1	16.9	892	1402	4.52	1.66	1.52	6.52	9.85	8.70
444	0023	3327.4	4.01	5.16	5.44	88	44.8	2960	3320.6	9.57	9.87	600	597	52.5	53.0	461	91495	75.4	17.0	1443	1402	4.53	1.69	1.56	6.52	9.85	8.70
445	0027	3327.7	4.38	5.19	5.61	88	44.5	2940	3320.7	9.67	9.86	598	581	52.6	53.3	464	91852	75.7	17.1	1110	1401	4.53	1.67	1.53	6.52	9.84	8.70
446	0032	3328.0	3.93	5.22	5.51	88	43.9	2950	3320.9	9.74	9.91	600	586	52.7	53.3	465	92266	76.0	17.1	1191	1401	4.53	1.69	1.55	6.52	9.83	8.70
447	0036	3328.3	3.98	5.21	5.60	88	44.2	2950	3321.1	9.77	9.91	599	596	52.7	53.3	465	92662	76.3	17.2	1277	1400	4.54	1.69	1.55	6.52	9.83	8.70
448	0039	3328.6	5.52	5.33	5.73	88	44.7	2970	3321.3	9.79	9.90	599	598	52.7	53.3	465	92957	76.6	17.3	1016	1398	4.54	1.61	1.47	6.53	9.82	8.70
449	0043	3328.9	3.54	5.14	5.63	89	44.1	3000	3321.5	9.77	9.88	605	606	52.8	53.3	471	93411	76.9	17.4	1374	1398	4.55	1.73	1.59	6.53	9.82	8.70
450	0053	3329.2	4.29	5.42	5.79	92	43.1	3000	3321.8	9.73	9.87	606	595	52.8	52.9	466	93803	77.2	17.4	1180	1397	4.55	1.67	1.53	6.53	9.82	8.70
451	0057	3329.5	4.14	5.38	5.65	92	42.7	3000	3322.2	9.72	9.87	606	570	52.8	52.7	467	94208	77.5	17.5	1103	1396	4.55	1.68	1.54	6.53	9.82	8.70
452	0100	3329.8	5.74	5.33	5.65	92	43.4	3100	3322.4	9.75	9.86	606	589	52.8	52.6	466	94500	77.8	17.6	1075	1395	4.56	1.59	1.45	6.53	9.81	8.70
453	0105	3330.1	5.46	5.01	5.68	88	43.2	3000	3322.7	9.72	9.85	603	588	52.9	52.6	465	94823	78.1	17.6	1028	1392	4.56	1.60	1.46	6.53	9.81	8.70
454	0109	3330.4	3.99	5.11	5.49	88	42.1	3050	3322.8	9.80	9.86	607	598	52.8	52.7	469	95191	78.4	17.7	1302	1391	4.56	1.67	1.53	6.53	9.81	8.70
455	0112	3330.7	6.03	4.98	5.45	89	44.8	3050	3323.0	9.82	9.86	609	607	52.3	52.6	458	95458	78.7	17.7	835	1390	4.57	1.59	1.45	6.53	9.81	8.70
456	0116	3331.0	4.15	4.96	5.51	88	44.2	2960	3323.1	9.84	9.86	601	605	52.0	52.4	452	95844	79.0	17.8	1845	1388	4.57	1.68	1.54	6.54	9.81	8.70
457	0120	3331.3	5.76	4.92	5.37	87	43.9	2970	3323.2	9.83	9.83	600	610	52.2	52.6	450	96120	79.3	17.9	1017	1386	4.57	1.58	1.44	6.54	9.82	8.70
458	0137	3331.7	5.61	4.24	5.15	88	43.9	2860	3323.4	9.94	9.83	686	557	52.3	52.4	467	96292	79.6	17.9	1072	1385	4.57	1.56	1.42	6.54	9.82	8.70
459	0140	3331.9	4.10	4.71	5.41	90	45.7	2940	3323.6	9.94	9.83	745	585	52.3	52.4	457	96584	79.9	17.9	1454	1381	4.58	1.71	1.56	6.54	9.84	8.70
460	0145	3332.3	4.46	4.85	5.36	87	43.8	2960	3323.8	9.90	9.85	899	590	52.2	49.8	455	96965	80.2	18.0	1148	1381	4.58	1.65	1.51	6.54	9.87	8.70
461	0148	3332.6	4.73	4.98	5.34	89	44.1	3060	3324.3	9.94	9.80	867	594	52.1	51.3	455	97303	80.5	18.1	885	1379	4.58	1.63	1.49	6.54	9.90	8.70
462	0157	3332.9	4.96	4.78	5.34	90	44.6	3050	3324.6	9.85	9.80	632	554	52.0	51.7	456	97623	80.9	18.1	966	1378	4.59	1.63	1.49	6.54	9.87	8.70
463	0202	3333.2	4.09	4.71	5.07	90	45.7	2960	3324.9	9.82	9.81	594	570	51.8	51.4	447	98022	81.2	18.2	1017	1377	4.59	1.70	1.56	6.54	9.88	8.70
464	0209	3333.5	2.73	4.68	5.25	90	44.1	3040	3325.4	9.94	9.81	601	598	51.7	51.5	447	98651	81.5	18.3	1858	1380	4.60	1.79	1.65	6.54	9.89	8.70
465	0214	3333.8	3.38	4.84	5.33	90	44.4	3040	3325.7	9.96	9.82	603	593	51.7	51.8	444	99135	81.8	18.4	1565	1380	4.60	1.73	1.59	6.55	9.90	8.70
466	0217	3334.1	6.03	4.96	5.30	90	44.2	3050	3325.9	9.94	9.83	603	593	51.7	52.0	442	99394	82.1	18.5	864	1377	4.61	1.57	1.43	6.55	9.91	8.70
467	0221	3334.4	5.01	5.00	5.49	90	43.5	2940	3326.2	9.92	9.82	602	593	51.7	51.9	442	99721	82.4	18.5	909	1376	4.61	1.61	1.47	6.55	9.91	8.70
468	0225	3334.7	4.23	5.01	5.51	90	43.8	3000	3326.4	9.95	9.82	603	599	51.8	52.2	443	100103	82.7	18.6	1106	1375	4.61	1.66	1.52	6.55	9.91	8.70
469	0230	3335.0	3.93	5.08	5.49	90	43.8	3050	3326.9	9.97	9.85	603	604	51.9	52.1	444	100539	83.0	18.7	1415	1375	4.62	1.63	1.54	6.55	9.93	8.70
470	0233	3335.3	5.04	4.91	5.31	91	45.7	2810	3327.1	9.95	9.84	603	603	52.0	52.2	443	100863	83.3	18.7	1083	1374	4.62	1.63	1.49	6.55	9.93	8.70
+ Change to Eastern Summer Time.																											
472	0340	3335.6	2.76	4.88	5.34	90	44.4	3050	3327.5	9.93	9.84	602	589	52.0	52.2	444	101456	83.6	18.8	1654	1376	4.63	1.78	1.64	6.55	9.95	8.70
473	0344	3335.9	3.80	4.82	5.35	90	44.4	2970	3327.9	9.91	9.88	605	545	52.1	52.1	445	101878	83.9	18.9	1264	1375	4.63	1.69	1.55	6.55	9.97	8.70
474	0348	3336.2	5.06	5.00	5.49	90	44.2	3040	3328.1	9.86	9.87	603	548	52.2	52.5	446	102206	84.2	19.0	1071	1374	4.63	1.60	1.46	6.55	9.98	8.70
475	0352	3336.5	4.39	4.73	5.13	90	43.0	2760	3328.3	9.92	9.89	605	549	52.3	52.4	444	102577	84.5	19.1	1331	1373	4.64	1.63	1.49	6.56	10.00	8.70
476	0357	3336.8	3.79	4.84	5.24	90	42.5	2960	3328.6	9.87	9.94	603	552	52.3	52.7	445	103009	84.8	19.1	1261	1373	4.64	1.66	1.52	6.56	10.01	8.70
477	0401	3337.1	4.73	4.97	5.36	90	42.7	2790	3328.9	9.83	9.93	603	541	52.4	53.0	444	103354	85.1	19.2	1144	1372	4.65	1.60	1.46	6.56	10.01	8.70
478	0405	3337.4	3.80	5.09	5.60	90	42.6	3020	3329.2	9.87	9.93	601	545	52.4	52.8	444	103743	85.4	19.3	1390	1371	4.65	1.66	1.52	6.56	10.02	8.70
479	0409	3337.7	5.09	5.11	5.64	90	43.3	2960	3329.5	9.88	9.93	600	544	52.5	52.8	442	104067	85.7	19.3	947	1369	4.65	1.59	1.45	6.56	10.02	8.70
480	0416	3338.0	2.42	4.93	5.53	91	43.8	2900	3330.1	9.88	9.95	597	560	52.7	53.0	446	104748	86.0	19.4	1416	1371	4.66	1.80	1.66	6.56	10.03	8.70
481	0424	3338.3	2.36	4.94	5.26	91	43.5	2830	3330.8	9.87	9.96	595	562	52.8	53.0	446	105451	86.3	19.6	2156	1374	4.67	1.80	1.66	6.56	10.03	8.70
482	0428	3338.7	4.10	5.10	5.71	90	42.9	2980	3331.1	9.88	9.92	595	554	52.9	53.0	446	105853	86.6	19.7	1469	1373	4.67	1.64	1.50	6.56	10.04	8.70
483	0431	3339.0	7.75	5.49	5.93	91	42.9	2930	3331.2	9.90	9.92	595	558	52.9	53.2	446	106067	87.0	19.7	665	1371	4.67	1.47	1.33	6.56	10.04	8.70
484	0434	3339.3	6.19	5.52	5.88	91	43.1	2950	3331.4	9.87	9.95	593	548	53.0	53.3	443	106333	87.3	19.7	835	1369	4.67	1.53	1.39	6.57	10.04	8.70
485	0437	3339.6	6.62	5.24	5.73	91	43.9	2680	3331.6	9.87	9.95	597	557	53.0	53.3	441	106583	87.6	19.8	723	1367	4.68	1.52	1.38	6.57	10.04	8.70
486	0441	3339.9	4.14	5.15	5.65	91	45.0	2980	3331.7	9.86	9.95	596	528	53.0	53.6	438	106982	87.9	19.9	1154	1366	4.68	1.66	1.52	6.57	10.05	8.70

AMOCO AUST. Tilana No.1 329276 Data Printed at time 09:49 Date Oct 28 '85
Data Recorded at time 04:44 Date Oct 27 '85 208

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	NK	NKB	ECD	EST FM PR	
437	0444	3840.2	5.66	5.12	5.51	91	43.3	2830	3831.9	9.38	9.95	595	556	53.1	53.5	423	107274	88.2	19.9	837	1364	4.68	1.56	1.42	6.57	10.05	8.70	D
438	0443	3840.5	4.63	5.19	5.52	91	43.3	2930	3832.2	9.34	9.95	595	540	53.1	53.2	431	107654	88.5	20.0	979	1364	4.69	1.61	1.47	6.57	10.05	8.70	D
439	0453	3840.8	3.52	5.12	5.45	91	44.0	2980	3832.6	9.87	9.95	596	510	53.2	53.0	433	108122	88.8	20.1	2066	1364	4.69	1.70	1.56	6.57	10.01	8.70	D
490	0511	3841.1	4.46	4.11	5.24	92	45.6	3030	3832.9	9.32	9.96	595	527	53.2	53.1	446	108256	89.1	20.1	1032	1362	4.69	1.63	1.48	6.57	10.00	8.70	D
491	0513	3841.4	4.10	4.12	5.25	92	46.9	3020	3833.0	9.73	9.86	593	538	52.7	52.0	440	108462	89.4	20.1	1187	1358	4.70	1.66	1.52	6.57	10.00	8.70	D
492	0520	3841.7	2.50	4.77	5.24	91	44.3	2910	3833.4	9.73	9.83	598	567	52.5	53.3	437	109120	89.7	20.2	1093	1360	4.70	1.80	1.66	6.58	10.00	8.70	D
493	0527	3842.0	2.60	4.90	5.24	91	44.0	2930	3833.8	9.74	9.95	594	563	52.3	53.6	439	109699	90.0	20.4	1483	1362	4.71	1.79	1.65	6.58	10.00	8.70	D
494	0535	3842.3	2.11	5.12	5.45	92	44.9	3000	3834.6	9.75	9.95	599	571	52.3	53.3	444	110438	90.3	20.5	1911	1365	4.72	1.86	1.72	6.58	9.99	8.70	D
495	0540	3842.6	3.87	5.12	5.43	91	44.3	2990	3834.7	9.74	9.96	597	568	52.3	53.2	444	110911	90.6	20.6	1313	1364	4.72	1.68	1.54	6.58	9.98	8.70	D
496	0549	3842.9	2.09	4.76	5.18	92	43.9	2780	3835.3	9.72	9.97	598	566	52.4	53.0	442	111719	90.9	20.7	2219	1368	4.73	1.86	1.71	6.58	9.97	8.70	D
497	0557	3843.2	2.17	4.76	5.20	92	44.5	3000	3835.9	9.75	9.96	598	569	52.6	53.1	446	112438	91.2	20.9	2514	1371	4.74	1.86	1.71	6.58	9.95	8.70	D
498	0603	3843.5	3.02	4.90	5.25	91	44.1	2770	3836.3	9.75	9.96	598	559	52.6	53.1	446	113042	91.5	21.0	1527	1372	4.74	1.76	1.61	6.58	9.94	8.70	D
499	0608	3843.8	3.44	5.00	5.23	92	43.4	2950	3836.7	9.74	9.92	598	577	52.6	52.8	443	113527	91.8	21.0	1416	1373	4.75	1.72	1.57	6.58	9.94	8.70	D
500	0617	3844.1	2.11	4.81	5.20	91	44.7	3030	3837.3	9.72	9.73	598	531	52.6	53.1	451	114316	92.1	21.2	2176	1375	4.75	1.87	1.72	6.58	9.93	8.70	D
501	0626	3844.4	2.04	4.86	5.17	91	44.0	3003	3837.7	9.70	9.73	598	578	52.5	52.9	456	115137	92.4	21.3	2432	1379	4.76	1.87	1.72	6.59	9.92	8.70	D
502	0630	3844.7	4.30	4.81	5.19	91	45.4	2993	3837.9	9.70	9.77	598	538	52.5	53.1	453	115526	92.7	21.4	1275	1378	4.77	1.68	1.53	6.59	9.91	8.70	D
503	0640	3845.1	1.89	4.80	5.14	92	44.0	3003	3838.6	9.67	9.78	598	634	52.5	53.1	456	116439	93.1	21.6	2021	1382	4.78	1.90	1.75	6.59	9.90	8.70	D
504	0645	3845.4	3.21	4.83	5.21	92	46.2	3003	3839.1	9.66	9.79	597	590	52.4	53.1	457	116933	93.4	21.7	1676	1383	4.78	1.78	1.63	6.59	9.89	8.70	D
505	0655	3845.7	1.84	4.87	5.46	93	45.5	3030	3839.9	9.70	9.79	539	584	52.4	53.5	463	117775	93.7	21.8	2222	1386	4.79	1.93	1.79	6.59	9.87	8.70	D
506	0659	3846.0	4.71	4.99	5.35	92	44.4	2810	3840.2	9.72	9.82	593	634	52.4	53.4	462	118161	94.0	21.9	986	1385	4.79	1.65	1.51	6.59	9.86	8.70	D
507	0701	3846.3	6.76	5.15	5.46	92	43.2	2990	3840.3	9.72	9.82	597	600	52.4	53.4	461	118408	94.3	21.9	766	1384	4.80	1.54	1.39	6.59	9.86	8.70	D
508	0705	3846.6	5.13	5.25	5.80	92	43.7	2990	3840.4	9.71	9.82	597	619	52.5	53.4	464	118733	94.6	22.0	1212	1383	4.80	1.62	1.48	6.59	9.86	8.70	D
509	0707	3846.9	10.1	5.13	5.53	93	43.9	2990	3840.5	9.68	9.81	598	616	52.5	53.6	465	118389	94.9	22.0	475	1379	4.80	1.44	1.29	6.59	9.86	8.70	D
510	0708	3847.2	11.4	5.39	5.80	92	43.7	3003	3840.7	9.68	9.81	598	614	52.5	53.6	465	119044	95.2	22.0	391	1376	4.80	1.40	1.25	6.60	9.85	8.70	D
511	0710	3847.5	10.1	5.34	5.69	92	44.1	2990	3840.9	9.68	9.81	598	621	52.5	53.6	466	119237	95.5	22.1	607	1374	4.80	1.44	1.29	6.60	9.85	8.70	D
512	0712	3847.8	8.73	5.27	5.61	92	43.5	2980	3841.0	9.68	9.82	597	635	52.6	54.0	466	119397	95.8	22.1	903	1371	4.80	1.47	1.33	6.60	9.85	8.70	D
513	0715	3848.1	6.78	5.14	5.43	91	42.2	3000	3841.0	9.68	9.82	597	625	52.6	54.0	465	119640	96.1	22.1	845	1369	4.81	1.53	1.38	6.60	9.85	8.70	D
514	0720	3848.4	3.75	4.99	5.42	92	44.4	3000	3841.3	9.65	9.83	597	626	52.7	53.7	465	120084	96.4	22.2	2137	1369	4.81	1.72	1.57	6.60	9.84	8.70	D
515	0726	3848.7	2.70	4.84	5.18	91	45.1	2930	3841.6	9.65	9.83	598	614	52.7	53.7	467	120675	96.7	22.3	2419	1370	4.82	1.82	1.67	6.60	9.84	8.70	D
516	0734	3849.0	2.41	4.87	5.28	92	44.6	2360	3841.9	9.65	9.84	598	649	53.0	53.4	469	121397	97.0	22.5	1827	1372	4.82	1.85	1.70	6.60	9.83	8.70	D
517	0739	3849.3	3.33	4.88	5.24	91	44.5	3000	3842.2	9.64	9.79	599	602	53.1	53.5	471	121898	97.3	22.6	1668	1373	4.83	1.76	1.61	6.60	9.83	8.70	D
518	0746	3849.6	2.61	4.80	5.24	92	44.2	2960	3842.5	9.61	9.81	598	587	53.2	53.2	476	122519	97.6	22.7	1838	1374	4.84	1.82	1.67	6.61	9.82	8.70	D
519	0752	3849.9	3.18	4.68	5.20	91	44.2	2990	3842.7	9.53	9.82	597	583	53.2	53.2	478	123043	97.9	22.8	1676	1375	4.84	1.77	1.62	6.61	9.82	8.70	D
520	0806	3850.2	3.80	3.99	5.09	91	41.9	2360	3843.1	9.52	9.81	592	537	53.2	53.8	486	123397	98.2	22.8	1163	1374	4.84	1.69	1.55	6.61	9.81	8.70	D
521	0815	3850.8	1.98	4.43	5.28	90	42.7	2930	3843.6	9.39	9.81	597	550	52.8	54.1	482	124180	98.8	23.0	1321	1373	4.85	1.83	1.73	6.61	9.80	8.70	D
522	0821	3851.1	3.08	4.67	5.12	90	42.3	2910	3843.8	9.68	9.83	596	548	52.8	53.6	483	124705	99.1	23.1	1530	1373	4.86	1.75	1.61	6.61	9.79	8.70	D
523	0829	3851.5	2.35	4.70	5.09	90	42.4	2930	3844.0	9.68	9.85	598	531	52.9	53.8	483	125407	99.4	23.2	2000	1376	4.86	1.83	1.68	6.61	9.78	8.70	D
524	0835	3851.8	2.69	4.73	5.05	89	42.2	3000	3844.4	9.69	9.85	597	552	53.0	53.7	483	125953	99.7	23.3	1787	1377	4.87	1.79	1.64	6.61	9.75	8.70	D
525	0845	3852.1	1.69	4.66	5.12	90	42.3	3000	3844.7	9.67	9.84	597	578	53.1	53.6	489	126918	100	23.5	2938	1381	4.88	1.93	1.78	6.61	9.75	8.70	D
526	0851	3852.4	3.57	4.84	5.15	90	42.0	2950	3845.0	9.74	9.81	597	565	53.2	53.9	436	127377	100	23.6	1452	1381	4.88	1.71	1.56	6.62	9.75	8.70	D
527	0858	3852.7	2.57	4.79	5.12	90	42.1	3010	3845.3	9.70	9.82	598	535	53.2	53.6	491	128012	101	23.7	1949	1383	4.89	1.81	1.66	6.62	9.75	8.70	D
528	0904	3853.0	3.07	4.78	5.16	90	41.9	2970	3845.8	9.70	9.81	597	533	53.3	53.6	466	128547	101	23.8	1689	1384	4.89	1.76	1.61	6.62	9.75	8.70	D
529	0909	3853.3	3.66	4.73	5.14	90	42.8	2670	3846.4	9.65	9.82	598	530	53.3	53.5	461	128995	101	23.9	1329	1384	4.90	1.72	1.57	6.62	9.75	8.70	D
530	0915	3853.6	2.87	4.78	5.06	90	43.5	2990	3847.4	9.77	9.82	599	518	53.1	53.3	462	129564	102	24.0	1661	1385	4.90	1.79	1.64	6.62	9.75	8.70	D
531	0921	3853.9	2.77	4.84	5.26	90	41.6	2780	3847.9	9.90	9.83	599	488	53.2	53.5	466	130154	102	24.1	1543	1386	4.91	1.78	1.63	6.62	9.75	8.70	D
532	0926	3854.2	3.65	4.90	5.36	89	40.4	2930	3848.2	9.91	9.83	599	505	53.4	53.2	466	130602	102	24.2	1389	1386	4.91	1.69	1.54	6.62	9.75	8.70	D
533	0928	3854.5	11.9	5.29	5.53	89	41.6	2830	3848.2	9.92	9.81	599	449	53.5	53.4	465	130740	102	24.2	497	1383	4.92	1.37	1.22	6.62	9.75	8.70	D
534	0931	3854.8	6.63	5.13	5.36	90	41.0	2950	3848.3	9.92	9.81	600	490	53.5	53.4	469	130998	103	24.2	585	1381	4.92	1.53	1.38	6.62	9.73	8.70	D
535	0934	3855.1	6.97	5.28	5.83	89	41.8	3020	3848.4	9.80	9.84	599	477	53.6	53.5	468	131231	103	24.3	732	1379	4.92	1.53	1.38	6.63	9.73	8.70	D
536	0935	3855.4	10.5	5.87	6.42	89	40.5	3010	3848.5	9.80	9.84	599	496	53.6	53.5	467	131384	103	24.3	634	1377	4.92	1.40	1.25	6.63	9.73	8.70	D

AMOCO AUST. Tilana No.1 329277

Data Printed at time 09:53 Date Oct 28
Data Recorded at time 09:36 Date Oct 27

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F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR
537	0936	3855.7	18.8	5.27	5.65	89	40.7	3000	3848.6	9.77	9.83	599	500	53.6	53.8	456	131466	104	24.3	250	1374	4.92	1.24	1.09	6.63	9.73	8.70
538	0937	3856.0	17.8	5.33	5.71	89	41.1	3010	3848.6	9.77	9.83	599	488	53.6	53.8	463	131557	104	24.3	273	1370	4.92	1.26	1.11	6.63	9.73	8.70
539	0939	3856.3	9.16	5.11	5.48	89	38.9	3000	3848.7	9.77	9.83	599	508	53.6	53.8	466	131729	104	24.4	801	1368	4.93	1.42	1.27	6.63	9.73	8.70
540	0945	3856.6	2.79	4.82	5.11	89	39.3	3000	3849.1	9.81	9.82	597	542	53.8	54.0	467	132290	105	24.5	1654	1369	4.93	1.74	1.60	6.63	9.75	8.70
541	0951	3856.9	3.00	4.65	5.05	90	42.1	3000	3849.4	9.81	9.82	598	531	53.8	54.0	464	132837	105	24.6	1810	1369	4.94	1.76	1.61	6.63	9.75	8.70
542	0957	3857.2	3.55	4.77	5.19	90	41.8	3000	3849.5	9.79	9.83	597	545	53.9	53.8	468	133299	105	24.7	1318	1370	4.94	1.71	1.56	6.63	9.77	8.70
543	1004	3857.6	2.62	4.76	5.12	90	42.0	2980	3850.0	9.83	9.80	595	556	54.1	53.9	470	133939	106	24.8	2350	1371	4.95	1.80	1.64	6.64	9.78	8.70
544	1009	3857.9	3.44	4.79	5.31	90	42.0	2940	3850.3	9.81	9.78	596	571	54.1	54.3	465	134414	106	24.9	1497	1372	4.95	1.72	1.57	6.64	9.79	8.70
545	1011	3858.2	8.52	5.07	5.43	90	42.1	2940	3850.3	9.82	9.80	595	558	54.2	54.5	457	134603	106	24.9	577	1369	4.95	1.47	1.32	6.64	9.79	8.70
546	1021	3858.5	1.82	4.68	5.30	90	42.7	2970	3850.8	9.85	9.75	594	607	54.2	54.1	454	135510	106	25.1	5921	1373	4.96	1.90	1.75	6.64	9.81	8.70
547	1024	3858.8	5.42	4.57	5.08	90	42.5	2700	3850.9	9.83	9.79	594	600	54.3	54.3	451	135809	107	25.1	788	1372	4.97	1.59	1.44	6.64	9.82	8.70
548	1028	3859.1	4.90	4.87	5.20	90	43.1	2670	3851.1	9.83	9.79	594	603	54.3	54.3	444	136143	107	25.2	803	1371	4.97	1.63	1.48	6.64	9.82	8.70
549	1037	3859.4	2.05	4.73	5.27	90	41.2	2950	3851.5	9.85	9.78	596	544	54.4	54.5	450	136940	107	25.3	1732	1374	4.98	1.34	1.69	6.64	9.85	8.70
550	1051	3859.7	2.57	4.69	4.97	90	41.3	2980	3852.0	9.72	9.81	594	526	54.5	54.9	477	137464	108	25.4	1957	1375	4.98	1.78	1.63	6.64	9.87	8.70
551	1053	3860.0	4.65	4.03	4.29	91	38.9	3000	3852.0	9.72	9.81	596	539	54.5	54.9	477	137489	108	25.4	920	1371	4.98	1.66	1.51	6.64	9.87	8.70
552	1055	3860.3	6.07	4.19	5.02	93	42.0	3000	3852.1	9.60	9.84	598	554	54.7	54.9	469	137720	108	25.5	1250	1369	4.98	1.56	1.41	6.65	9.88	8.70
553	1058	3860.6	6.44	4.51	5.20	94	41.2	3000	3852.2	9.60	9.84	599	543	54.7	54.9	466	138002	109	25.5	839	1367	4.99	1.53	1.38	6.65	9.88	8.70
554	1101	3860.9	5.50	4.67	5.27	93	42.5	2990	3852.4	9.55	9.81	598	545	54.7	55.4	462	138261	109	25.6	762	1366	4.99	1.59	1.44	6.65	9.88	8.70
555	1110	3861.2	2.26	4.79	5.14	94	42.3	3000	3852.8	9.64	9.82	598	582	54.7	54.6	476	139057	109	25.7	2600	1368	5.00	1.83	1.68	6.65	9.89	8.70
556	1116	3861.5	2.75	4.76	5.12	94	43.5	3010	3853.1	9.56	9.83	597	603	54.8	54.6	472	139676	109	25.8	2011	1369	5.00	1.79	1.64	6.65	9.89	8.70
557	1130	3861.8	2.05	4.67	5.14	90	43.0	2950	3853.8	9.59	9.81	517	500	54.6	54.9	490	140435	110	26.0	2147	1372	5.01	1.86	1.71	6.65	9.86	8.70
558	1136	3862.1	3.14	3.98	5.04	87	41.4	3000	3854.5	9.58	9.83	600	551	54.6	54.7	490	140942	110	26.1	1918	1373	5.02	1.71	1.56	6.65	9.87	8.70
559	1140	3862.4	4.94	4.71	5.13	87	39.1	3010	3855.1	9.58	9.81	602	532	54.6	55.1	484	141250	110	26.1	1090	1371	5.02	1.56	1.41	6.65	9.87	8.70
560	1147	3862.7	2.39	4.57	4.94	88	39.8	3010	3856.1	9.57	9.83	602	499	54.7	55.1	474	141947	111	26.3	2067	1374	5.03	1.77	1.62	6.66	9.84	8.70
561	1152	3863.0	4.43	4.60	4.90	87	39.8	2980	3856.3	9.57	9.86	601	506	54.8	55.1	471	142306	111	26.3	1199	1373	5.03	1.60	1.46	6.66	9.83	8.70
562	1205	3863.3	1.23	4.67	5.17	88	40.5	2960	3857.0	9.57	9.83	598	464	55.1	55.1	473	143476	111	26.5	3672	1379	5.04	1.97	1.82	6.66	9.80	8.70
563	1209	3863.7	4.43	4.63	5.11	89	40.8	2940	3857.2	9.60	9.84	597	443	55.2	55.2	470	143838	112	26.6	1205	1379	5.04	1.63	1.48	6.66	9.79	8.70
564	1219	3864.0	1.74	4.70	5.11	88	40.6	2930	3857.8	9.60	9.82	595	468	55.3	55.4	469	144761	112	26.8	5660	1383	5.05	1.88	1.73	6.66	9.78	8.70
565	1223	3864.3	4.81	4.92	5.32	88	40.4	2920	3858.0	9.61	9.84	595	511	55.4	55.4	471	145095	112	26.8	1122	1382	5.06	1.60	1.45	6.66	9.77	8.70
566	1225	3864.6	12.9	5.00	5.29	88	39.0	2920	3858.0	9.61	9.84	595	522	55.4	55.4	469	145217	113	26.9	364	1379	5.06	1.31	1.16	6.66	9.77	8.70
567	1228	3864.9	4.81	4.84	5.35	88	40.6	2910	3858.3	9.61	9.87	596	498	55.6	56.0	465	145552	113	26.9	1836	1378	5.06	1.61	1.46	6.66	9.76	8.70
568	1234	3865.2	3.13	4.87	5.22	88	42.0	2910	3858.7	9.61	9.84	596	502	55.7	55.8	464	146058	113	27.0	2057	1378	5.06	1.74	1.59	6.66	9.75	8.70
569	1243	3865.5	2.05	4.68	4.98	88	41.4	2910	3859.1	9.63	9.83	596	491	55.8	55.6	473	146343	113	27.2	2467	1381	5.07	1.86	1.70	6.67	9.74	8.70
570	1252	3865.8	2.01	4.64	4.94	88	40.8	2920	3859.3	9.66	9.80	597	545	55.7	56.0	476	147639	114	27.3	2469	1384	5.08	1.86	1.70	6.67	9.72	8.70
571	1304	3866.1	1.54	4.62	5.03	88	41.0	2930	3860.6	9.65	9.79	597	544	55.7	56.3	474	148683	114	27.5	2809	1389	5.09	1.94	1.79	6.67	9.69	8.70
572	1312	3866.4	2.33	4.65	4.98	88	40.3	2920	3860.9	9.58	9.79	596	521	55.7	56.5	475	149377	114	27.7	2318	1391	5.10	1.82	1.66	6.67	9.69	8.70
573	1320	3866.7	2.17	4.73	5.16	89	40.4	2930	3861.2	9.60	9.77	597	541	55.8	56.9	468	150120	115	27.8	1945	1393	5.10	1.84	1.69	6.67	9.69	8.70
574	1327	3867.0	2.80	4.86	5.28	88	40.2	2910	3861.4	9.59	9.80	597	523	55.9	56.4	462	150697	115	27.9	1798	1394	5.11	1.76	1.61	6.67	9.69	8.70
575	1335	3867.3	2.22	4.83	5.24	88	39.9	2880	3861.8	9.58	9.82	596	535	55.7	56.7	460	151425	115	28.0	2382	1397	5.12	1.83	1.67	6.67	9.69	8.70
576	1340	3867.6	3.37	4.85	5.33	88	40.7	2870	3862.1	9.67	9.82	595	531	55.9	56.7	458	151904	116	28.1	1498	1397	5.12	1.72	1.56	6.67	9.69	8.70
577	1351	3867.9	1.83	4.69	5.12	88	40.9	2870	3862.7	9.73	9.81	596	530	56.5	56.8	456	152847	116	28.3	1830	1401	5.13	1.89	1.74	6.67	9.69	8.70
578	1403	3868.2	1.49	4.62	4.97	88	40.8	2950	3863.0	9.71	9.79	597	512	56.8	56.4	459	153926	116	28.5	3060	1406	5.14	1.95	1.79	6.68	9.69	8.70
579	1413	3868.5	1.72	4.53	4.83	88	41.6	2990	3863.5	9.73	9.77	593	506	56.9	56.9	468	154791	117	28.7	2918	1409	5.15	1.91	1.76	6.68	9.71	8.70
580	1422	3868.8	2.19	4.49	4.95	88	40.9	3000	3863.9	9.66	9.78	598	526	56.8	56.6	475	155569	117	28.8	2176	1412	5.16	1.84	1.68	6.68	9.71	8.70
581	1428	3869.1	2.80	4.48	4.82	89	40.3	2970	3864.5	9.66	9.77	598	508	56.6	56.4	477	156109	117	28.9	1746	1413	5.16	1.76	1.61	6.68	9.72	8.70
582	1454	3869.4	2.49	4.52	4.98	88	41.0	2960	3865.1	9.61	9.77	594	532	56.4	56.8	488	157136	117	29.1	1874	1417	5.17	1.80	1.64	6.68	9.73	8.70
583	1504	3869.7	1.84	4.53	4.87	87	40.2	2970	3865.4	9.48	9.84	594	560	55.7	56.4	492	157977	118	29.3	2597	1420	5.18	1.87	1.71	6.68	9.74	8.70
584	1515	3870.1	1.73	4.57	4.84	88	44.7	2970	3865.7	9.51	9.83	594	520	55.7	57.6	495	158926	118	29.4	3148	1425	5.19	1.95	1.79	6.68	9.74	8.70
585	1522	3870.4	2.47	4.59	4.99	88	44.9	2960	3866.0	9.52	9.83	595	534	55.8	57.2	499	159571	118	29.6	2122	1426	5.19	1.85	1.69	6.69	9.74	8.70
586	1532	3870.7	1.88	4.58	4.90	88	45.3	2950	3866.4	9.54	9.84	594	543	56.1	57.3	504	160419	119	29.7	2982	1429	5.20	1.94	1.78	6.69	9.72	8.70

AMOCO AUST. Tilana No.1 329278 Data Printed at time 09:57 Date Oct 28 '85
Data Recorded at time 15:40 Date Oct 27 '85 210

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TM	DXC	MX	MXB	ECD	EST FM PR	
537	1540	3371.0	2.33	4.55	5.02	88	45.8	2960	3366.7	9.55	9.84	595	545	56.2	57.1	510	161103	119	29.9	2467	1431	5.21	1.88	1.72	6.69	9.71	8.70	D
538	1551	3371.3	1.64	4.55	4.87	87	46.2	2950	3367.2	9.57	9.83	595	545	56.1	57.8	523	162072	119	30.0	2754	1435	5.22	1.99	1.83	6.69	9.70	8.70	D
539	1559	3371.6	2.24	4.54	4.90	88	45.2	2940	3367.4	9.56	9.84	594	531	55.9	57.6	514	162781	120	30.2	2375	1437	5.22	1.89	1.73	6.69	9.70	8.70	D
590	1608	3371.9	2.02	4.57	5.02	87	44.8	2920	3367.7	9.45	9.84	593	521	55.7	57.5	514	163574	120	30.3	2455	1439	5.23	1.91	1.75	6.69	9.70	8.70	D
591	1615	3372.2	2.63	4.61	4.87	87	44.6	2900	3367.9	9.59	9.83	594	498	56.4	57.2	514	164181	120	30.4	2057	1440	5.24	1.84	1.67	6.69	9.70	8.70	D
592	1623	3372.5	2.31	4.55	5.06	87	45.5	2870	3368.1	9.61	9.82	594	571	56.9	58.3	460	164873	120	30.6	2422	1442	5.24	1.89	1.72	6.69	9.68	8.70	D
593	1631	3372.8	2.31	4.52	4.87	87	45.5	2880	3368.4	9.74	9.82	595	581	57.0	58.5	399	165624	121	30.7	2247	1445	5.25	1.89	1.73	6.69	9.66	8.70	D
594	1639	3373.1	2.31	4.66	4.93	87	45.9	2870	3368.7	9.78	9.82	595	556	57.1	58.2	397	166313	121	30.8	2308	1446	5.26	1.90	1.73	6.69	9.66	8.70	D
595	1642	3373.4	6.00	4.75	5.22	87	44.5	2870	3368.8	9.86	9.83	595	546	57.3	57.7	397	166557	121	30.9	764	1445	5.26	1.61	1.44	6.70	9.65	8.70	D
596	1644	3373.7	9.29	4.80	5.24	87	45.7	2850	3368.9	9.86	9.83	596	558	57.3	57.7	396	166727	122	30.9	552	1442	5.26	1.49	1.33	6.70	9.65	8.70	D
597	1649	3374.0	3.47	4.66	5.05	87	45.8	2860	3369.0	9.91	9.82	596	555	57.7	58.6	396	167185	122	31.0	1951	1442	5.26	1.78	1.62	6.70	9.64	8.70	D
598	1655	3374.3	3.04	4.62	5.05	87	45.6	2870	3369.1	9.92	9.83	597	565	57.9	57.9	395	167745	122	31.1	1759	1443	5.27	1.82	1.65	6.70	9.65	8.70	D
599	1658	3374.6	6.73	4.83	5.19	87	45.0	2890	3369.2	9.90	9.82	597	559	58.1	57.4	396	167981	123	31.2	707	1441	5.27	1.58	1.41	6.70	9.65	8.70	D
600	1705	3374.9	2.35	4.54	4.92	88	45.1	2880	3369.4	9.97	9.79	596	545	58.2	58.2	393	168617	123	31.3	3132	1443	5.28	1.88	1.72	6.70	9.66	8.70	D
601	1715	3375.2	1.99	4.42	4.88	88	45.6	2890	3369.7	9.95	9.74	597	537	58.4	58.5	390	169468	123	31.4	2702	1446	5.29	1.93	1.77	6.70	9.68	8.70	D
602	1725	3375.5	1.69	4.48	4.91	88	46.0	2890	3370.1	10.0	9.75	597	574	58.7	57.5	391	170360	124	31.6	2807	1449	5.29	1.98	1.81	6.70	9.72	8.70	D
603	1734	3375.8	2.22	4.55	4.95	88	45.7	2910	3370.4	10.0	9.74	593	570	58.7	57.9	393	171083	124	31.8	2220	1451	5.30	1.90	1.73	6.71	9.73	8.70	D
604	1745	3376.2	1.68	4.53	4.91	88	45.9	2920	3370.7	10.1	9.74	597	534	58.5	58.3	394	172031	124	31.9	3397	1455	5.31	1.97	1.80	6.71	9.78	8.70	D
605	1751	3376.4	2.71	4.62	5.05	88	46.1	2920	3371.0	10.1	9.73	593	544	58.5	58.0	396	172646	124	32.0	1759	1456	5.32	1.83	1.66	6.71	9.80	8.70	D
606	1759	3376.8	2.59	4.54	4.90	88	46.1	2910	3371.2	10.0	9.73	597	534	58.6	58.2	398	173288	125	32.2	1967	1457	5.32	1.83	1.67	6.71	9.84	8.70	D
607	1806	3377.1	2.31	4.51	4.86	87	45.1	2890	3371.5	10.0	9.73	597	545	58.6	58.3	402	173957	125	32.3	2001	1458	5.33	1.85	1.69	6.71	9.86	8.70	D
608	1816	3377.4	1.90	4.44	4.78	87	45.6	2870	3371.9	9.95	9.76	598	544	58.6	58.5	405	174824	125	32.5	2258	1462	5.34	1.90	1.74	6.71	9.91	8.70	D
609	1826	3377.7	1.76	4.55	5.03	87	45.4	2890	3372.3	9.97	9.75	599	561	58.5	58.3	409	175728	126	32.6	2935	1465	5.34	1.91	1.75	6.71	9.96	8.70	D
610	1834	3378.0	2.40	4.66	4.99	87	44.8	2870	3372.6	9.94	9.75	598	578	58.5	58.1	411	176390	126	32.8	2153	1466	5.35	1.81	1.65	6.71	9.99	8.70	D
611	1837	3378.3	6.74	4.50	4.38	87	45.3	2870	3372.7	9.94	9.75	598	489	58.5	58.1	411	176622	126	32.8	750	1464	5.35	1.53	1.36	6.71	10.00	8.70	D
612	1841	3378.6	3.92	4.64	4.97	88	45.3	2870	3373.2	9.92	9.74	599	497	58.5	58.5	410	177033	127	32.9	1029	1464	5.36	1.68	1.51	6.72	10.01	8.70	D
613	1852	3378.9	6.42	4.02	4.98	89	45.1	2930	3373.6	9.88	9.75	602	553	58.6	58.7	413	177239	127	32.9	706	1462	5.36	1.54	1.38	6.72	10.04	8.70	D
614	1900	3379.2	2.56	4.05	4.72	90	44.3	2930	3374.2	9.83	9.75	603	553	58.5	59.9	409	177954	127	33.1	1844	1464	5.37	1.79	1.62	6.72	10.05	8.70	D
615	1907	3379.5	2.24	4.00	4.83	89	44.7	2920	3374.5	9.92	9.77	604	568	58.6	59.5	408	178659	127	33.2	2096	1465	5.37	1.82	1.66	6.72	10.06	8.70	D
616	1914	3379.8	2.80	4.49	5.04	90	44.0	2920	3374.8	9.90	9.82	604	603	58.8	58.8	405	179253	128	33.3	2162	1467	5.38	1.75	1.59	6.72	10.07	8.70	D
617	1922	3380.1	2.40	4.69	5.13	89	44.6	2930	3375.0	9.95	9.82	604	548	58.9	58.9	408	179915	128	33.4	2150	1467	5.38	1.80	1.64	6.72	10.07	8.70	D
618	1927	3380.4	3.21	4.58	4.93	89	43.8	2920	3375.1	9.91	9.79	604	543	59.0	60.0	405	180429	128	33.5	1774	1468	5.39	1.71	1.55	6.72	10.06	8.70	D
619	1932	3380.7	4.29	4.77	5.11	89	43.5	2940	3375.3	9.91	9.79	605	543	59.0	60.0	406	180806	129	33.6	1267	1467	5.39	1.63	1.47	6.72	10.06	8.70	D
620	1935	3381.0	5.41	4.82	5.08	89	44.5	2930	3375.4	9.95	9.81	604	543	59.2	59.7	409	181102	129	33.6	967	1466	5.39	1.57	1.41	6.73	10.06	8.70	D
621	1938	3381.3	5.55	4.58	5.06	89	43.7	2930	3375.5	9.87	9.80	603	568	59.3	60.6	406	181394	129	33.7	857	1464	5.40	1.56	1.40	6.73	10.06	8.70	D
622	1946	3381.6	2.32	4.52	4.88	89	43.6	2910	3375.7	9.88	9.81	603	575	59.4	60.8	406	182092	130	33.8	1640	1466	5.40	1.80	1.64	6.73	10.06	8.70	D
623	1954	3381.9	2.29	4.53	4.88	89	43.9	2920	3376.1	9.89	9.82	603	575	59.8	60.9	404	182802	130	34.0	2184	1463	5.41	1.81	1.64	6.73	10.05	8.70	D
624	2001	3382.2	2.54	4.52	4.93	90	44.1	2920	3376.4	9.88	9.79	603	582	60.0	60.3	403	183443	130	34.1	1968	1469	5.42	1.78	1.62	6.73	10.05	8.70	D
625	2006	3382.5	3.64	4.76	5.15	89	44.4	2920	3376.5	9.88	9.78	604	605	60.0	60.5	402	183891	131	34.2	1305	1469	5.42	1.69	1.52	6.73	10.04	8.70	D
626	2015	3382.8	2.04	4.67	5.13	89	45.1	2930	3376.9	9.92	9.77	603	594	60.1	60.1	400	184692	131	34.3	2342	1471	5.43	1.86	1.70	6.73	10.03	8.70	D
627	2022	3383.2	2.86	4.58	5.09	89	44.4	2940	3377.0	9.97	9.73	603	576	60.1	60.4	400	185261	131	34.4	1845	1471	5.43	1.76	1.59	6.73	10.01	8.70	D
628	2027	3383.5	3.30	4.61	4.99	89	44.9	2940	3377.2	9.98	9.71	603	525	60.1	60.8	398	185754	131	34.5	1375	1472	5.44	1.73	1.56	6.73	10.01	8.70	D
629	2035	3383.8	2.27	4.70	5.08	89	44.4	2940	3377.5	9.96	9.72	604	540	60.3	59.6	398	186467	132	34.6	1992	1473	5.44	1.82	1.66	6.74	10.00	8.70	D
630	2039	3384.1	4.38	4.74	5.18	89	44.4	2920	3377.9	9.96	9.72	603	555	60.3	59.6	396	186839	132	34.7	1250	1472	5.45	1.64	1.48	6.74	10.00	8.70	D
631	2043	3384.4	4.87	4.92	5.10	90	43.5	2950	3378.2	9.97	9.71	605	541	60.3	59.8	398	187195	132	34.8	791	1472	5.45	1.60	1.44	6.74	9.99	8.70	D
632	2049	3384.7	3.09	4.87	5.18	89	44.3	2940	3378.3	9.97	9.67	605	542	60.3	60.2	397	187688	133	34.9	1605	1472	5.46	1.74	1.57	6.74	9.99	8.70	D
633	2054	3385.0	3.44	4.95	5.24	89	43.8	2930	3378.7	10.0	9.68	605	567	60.2	59.8	397	188162	133	35.0	1437	1472	5.46	1.70	1.54	6.74	9.99	8.70	D
634	2102	3385.3	2.41	4.88	5.23	89	44.0	2930	3379.0	9.99	9.67	605	562	60.2	60.0	396	188836	133	35.1	1924	1473	5.47	1.80	1.64	6.74	10.00	8.70	D
635	2110	3385.6	2.39	4.79	5.18	89	44.6	2930	3379.3	10.0	9.67	606	569	60.2	59.7	395	189551	134	35.2	2176	1475	5.47	1.81	1.65	6.74	10.00	8.70	D
636	2117	3385.9	2.32	4.64	5.00	89	44.2	2940	3379.7	10.0	9.65	605	576	60.2	59.7	396	190252	134	35.3	2213	1476	5.48	1.82	1.65	6.74	10.01	8.70	D

AMOCO AUST. Tilana No.1 329279 Data Printed at time 10:01 Date Oct 28
Data Recorded at time 21:22 Date Oct 27 211

F#	TIME	DEPTH m	ROP m/hr	TORQUE AVG	TORQUE MAX	RPM AVG	WOB AVG	PUMP PRES	RTRNS DEPTH	MW lb/gal IN	MW lb/gal OUT	FLOW/MIN IN	FLOW/MIN OUT	TEMP (C) IN	TEMP (C) OUT	PVT	THIS BIT REVS	THIS BIT m	THIS BIT hrs	COST INST	COST RUN	EST TW	DXC	NX	NKB	ECD	EST FM PR
637	2122	3336.2	3.97	4.70	5.01	89	44.5	2940	3379.9	9.99	9.63	605	565	60.1	60.2	395	190661	134	35.4	1294	1476	5.48	1.67	1.50	6.75	10.01	8.70
638	2127	3336.5	3.29	4.70	5.15	90	44.0	2930	3380.1	9.96	9.63	326	570	60.1	60.1	394	191137	135	35.5	1458	1476	5.49	1.72	1.55	6.75	9.99	8.70
639	2132	3336.8	3.92	4.80	5.19	90	44.5	2930	3380.3	9.96	9.63	297	548	60.1	60.1	394	191554	135	35.6	1292	1475	5.49	1.68	1.51	6.75	9.99	8.70
640	2138	3337.1	3.17	4.70	5.08	89	44.5	2940	3380.5	9.98	9.66	297	541	60.1	59.8	393	192056	135	35.7	1397	1475	5.50	1.73	1.57	6.75	10.00	8.70
641	2145	3337.4	2.63	4.65	5.19	89	45.5	3020	3380.8	10.0	9.67	297	550	60.1	60.1	393	192699	135	35.8	1764	1476	5.50	1.80	1.63	6.75	10.00	8.70
642	2150	3337.7	3.48	4.58	4.92	89	44.2	3020	3380.9	10.0	9.67	548	570	60.1	60.1	389	193154	136	35.9	1466	1476	5.51	1.70	1.53	6.75	10.02	8.70
643	2203	3338.0	4.26	4.17	5.13	88	43.7	3010	3381.4	10.1	9.70	599	554	59.8	60.4	386	193550	136	36.0	1677	1476	5.51	1.63	1.47	6.75	10.03	8.70
644	2206	3338.3	3.50	3.64	4.67	87	44.5	3020	3381.5	9.94	9.79	602	573	59.7	60.8	385	193759	136	36.0	646	1474	5.51	1.71	1.35	6.75	10.04	8.70
645	2210	3338.6	3.94	3.93	4.51	87	44.4	3010	3381.7	10.1	9.83	603	602	59.5	61.7	383	194159	137	36.1	1361	1473	5.52	1.66	1.49	6.75	10.04	8.70
646	2216	3338.9	3.19	3.97	4.60	87	45.4	3000	3381.9	10.0	9.79	598	592	59.5	60.3	382	194661	137	36.2	1457	1474	5.52	1.73	1.56	6.76	10.04	8.70
647	2223	3339.2	3.94	3.77	4.42	87	45.3	2970	3382.1	10.0	9.76	598	593	59.5	61.4	381	195060	137	36.2	1265	1473	5.52	1.67	1.50	6.76	10.05	8.70
648	2225	3339.6	3.76	3.84	4.47	87	43.9	2900	3382.3	9.99	9.77	602	601	59.6	61.2	381	195481	138	36.3	1239	1473	5.53	1.66	1.50	6.76	10.06	8.70
649	2231	3339.9	3.36	3.96	4.96	87	43.3	2970	3382.5	9.99	9.77	603	580	59.6	61.2	378	195955	138	36.4	1436	1473	5.53	1.69	1.52	6.76	10.06	8.70
650	2235	3340.2	4.55	4.57	4.88	87	43.6	2970	3382.7	10.0	9.76	602	586	59.7	61.3	380	196303	138	36.5	1063	1472	5.54	1.61	1.44	6.76	10.06	8.70
651	2240	3340.5	3.33	4.34	4.70	87	44.5	2940	3383.0	10.0	9.77	603	595	59.9	61.2	379	196779	138	36.6	1484	1472	5.54	1.70	1.53	6.76	10.07	8.70
652	2247	3340.8	2.62	4.42	4.68	87	44.6	2930	3383.3	10.0	9.78	602	605	60.0	61.6	379	197381	139	36.7	1826	1473	5.55	1.77	1.60	6.76	10.08	8.70
653	2253	3341.1	3.07	4.42	4.73	87	45.3	2910	3383.6	10.1	9.78	603	603	60.1	61.3	380	197898	139	36.8	1655	1473	5.55	1.73	1.56	6.76	10.09	8.70
654	2259	3341.4	3.40	4.44	4.69	87	44.3	2900	3384.1	9.98	9.79	603	606	60.2	61.6	379	198366	139	36.9	1348	1473	5.55	1.69	1.52	6.77	10.09	8.70
655	2306	3341.7	2.80	4.47	4.74	87	44.9	2930	3384.4	10.0	9.79	603	603	60.4	61.2	380	198973	140	37.0	2736	1474	5.56	1.75	1.58	6.77	10.10	8.70
656	2311	3342.0	3.37	4.51	4.86	87	44.7	2910	3384.6	10.1	9.78	603	584	60.5	61.5	380	199439	140	37.1	1629	1474	5.56	1.70	1.53	6.77	10.10	8.70
657	2317	3342.3	2.70	4.49	4.85	87	43.9	2920	3384.9	10.0	9.76	603	588	60.6	61.5	380	199997	140	37.2	1643	1475	5.57	1.75	1.58	6.77	10.10	8.70
658	2323	3342.6	3.25	4.54	4.83	87	45.3	2910	3385.1	10.0	9.74	603	592	60.7	61.2	379	200485	141	37.3	1651	1475	5.57	1.71	1.54	6.77	10.10	8.70
659	2329	3342.9	2.96	4.45	4.76	87	44.9	2930	3385.3	10.0	9.73	603	595	60.8	61.0	378	201051	141	37.4	1638	1476	5.58	1.73	1.56	6.77	10.11	8.70
660	2336	3343.2	2.81	4.50	4.75	86	45.6	2920	3385.7	10.0	9.73	604	642	60.7	61.7	378	201611	141	37.5	2065	1476	5.58	1.75	1.58	6.77	10.11	8.70
661	2339	3343.5	5.86	4.38	4.80	87	44.7	2910	3385.9	10.0	9.71	604	560	60.8	61.1	375	201868	142	37.5	956	1475	5.59	1.54	1.37	6.77	10.11	8.70
662	2345	3343.8	3.14	4.50	4.84	87	44.8	2910	3386.6	10.0	9.73	603	563	60.8	61.4	374	202394	142	37.6	2498	1475	5.59	1.71	1.55	6.77	10.11	8.70
663	2351	3344.1	2.89	4.47	4.85	87	44.0	2910	3387.1	9.67	9.83	602	560	60.8	60.9	375	202942	142	37.7	2242	1476	5.60	1.73	1.56	6.78	10.11	8.70
664	2357	3344.4	3.19	4.52	4.83	87	45.2	2870	3387.5	9.71	9.82	602	567	60.8	60.7	373	203436	142	37.8	1818	1476	5.60	1.71	1.54	6.78	10.11	8.70
	Date	Oct 28 '85																									
665	0002	3344.7	3.37	4.53	4.85	87	44.9	2900	3387.8	9.67	9.81	602	548	60.7	61.0	374	203890	143	37.9	1418	1476	5.60	1.69	1.53	6.78	10.11	8.70
666	0009	3345.0	2.87	4.37	4.70	87	45.2	2980	3388.2	9.71	9.79	609	536	60.2	61.0	404	204456	143	38.0	1643	1476	5.61	1.74	1.57	6.78	10.12	8.70
667	0014	3345.3	3.04	4.42	4.80	86	45.6	3010	3388.6	9.63	9.82	611	550	58.9	61.3	382	204959	143	38.1	1738	1476	5.61	1.73	1.56	6.78	10.11	8.70
668	0020	3345.6	3.08	4.43	4.78	86	45.4	2990	3388.9	9.69	9.86	610	558	58.6	60.9	382	205472	144	38.2	1689	1477	5.62	1.73	1.56	6.78	10.10	8.70
669	0025	3346.0	3.25	4.52	4.88	88	45.0	3000	3389.3	9.70	9.89	610	560	58.8	60.7	379	205973	144	38.3	1662	1477	5.62	1.72	1.55	6.78	10.08	8.70
670	0032	3346.3	2.84	4.52	4.89	88	44.7	3020	3389.7	9.71	9.89	610	556	59.5	60.1	379	206525	144	38.4	1621	1477	5.63	1.75	1.58	6.78	10.05	8.70
671	0038	3346.6	3.33	4.38	4.91	88	45.1	3010	3390.0	9.72	9.90	608	585	59.7	60.6	378	207013	145	38.5	1654	1478	5.63	1.72	1.55	6.79	10.04	8.70
672	0046	3346.9	2.39	4.46	4.81	88	45.3	3050	3390.4	9.72	9.92	608	548	59.8	60.6	385	207682	145	38.7	2192	1479	5.64	1.82	1.65	6.79	10.01	8.70
673	0051	3347.2	2.88	4.51	4.87	88	44.9	3050	3390.7	9.71	9.92	608	536	59.6	60.6	385	208183	145	38.7	1699	1479	5.64	1.76	1.59	6.79	10.00	8.70
674	0056	3347.5	3.59	4.39	4.94	88	43.7	3050	3391.0	9.71	9.92	608	535	59.6	60.6	383	208629	145	38.8	1658	1479	5.65	1.68	1.51	6.79	10.00	8.70
675	0109	3347.8	2.46	3.94	7.37	89	47.7	3020	3391.4	9.68	9.91	599	544	59.6	61.6	387	208742	146	38.9	2325	1476	5.65	1.82	1.65	6.79	9.96	8.70
676	0117	3348.1	2.33	4.46	5.53	89	45.4	3000	3391.8	9.66	9.91	600	585	59.8	61.2	387	209509	146	39.0	3215	1478	5.66	1.84	1.67	6.79	9.94	8.70
677	0123	3348.4	2.79	4.60	4.90	90	47.1	3000	3392.1	9.67	9.90	601	536	60.0	60.7	387	210040	146	39.1	1933	1479	5.66	1.82	1.64	6.79	9.93	8.70
678	0127	3348.7	4.62	4.52	5.02	89	45.5	2560	3392.3	9.60	9.90	582	555	60.1	61.9	389	210392	147	39.2	1034	1478	5.66	1.65	1.48	6.79	9.91	8.70
679	0135	3349.0	2.40	4.53	5.06	90	45.8	2950	3392.7	9.60	9.90	599	593	60.4	61.1	385	211129	147	39.3	1602	1479	5.67	1.95	1.67	6.79	9.89	8.70
680	0145	3349.3	1.78	4.63	7.57	90	47.0	2970	3393.3	9.62	9.91	601	610	60.4	61.5	384	211970	147	39.4	3058	1481	5.68	1.96	1.78	6.80	9.86	8.70
681	0150	3349.6	3.28	4.56	7.35	94	46.8	2960	3393.6	9.61	9.88	603	613	60.6	61.5	384	212493	148	39.5	1620	1482	5.68	1.79	1.62	6.80	9.85	8.70
682	0157	3349.9	3.11	4.70	4.97	94	47.1	2910	3393.9	9.59	9.88	602	621	60.6	61.0	383	213081	148	39.6	1361	1482	5.69	1.82	1.63	6.80	9.83	8.70
683	0203	3350.2	2.89	4.71	5.12	94	46.2	2960	3894.2	9.68	9.88	602	617	60.4	61.5	384	213667	148	39.7	1502	1483	5.69	1.83	1.65	6.80	9.80	8.70

Total depth for Tilana No.1 - 3930.3m, (12796ft).

329280

ii. Drilling Data Plots

329281

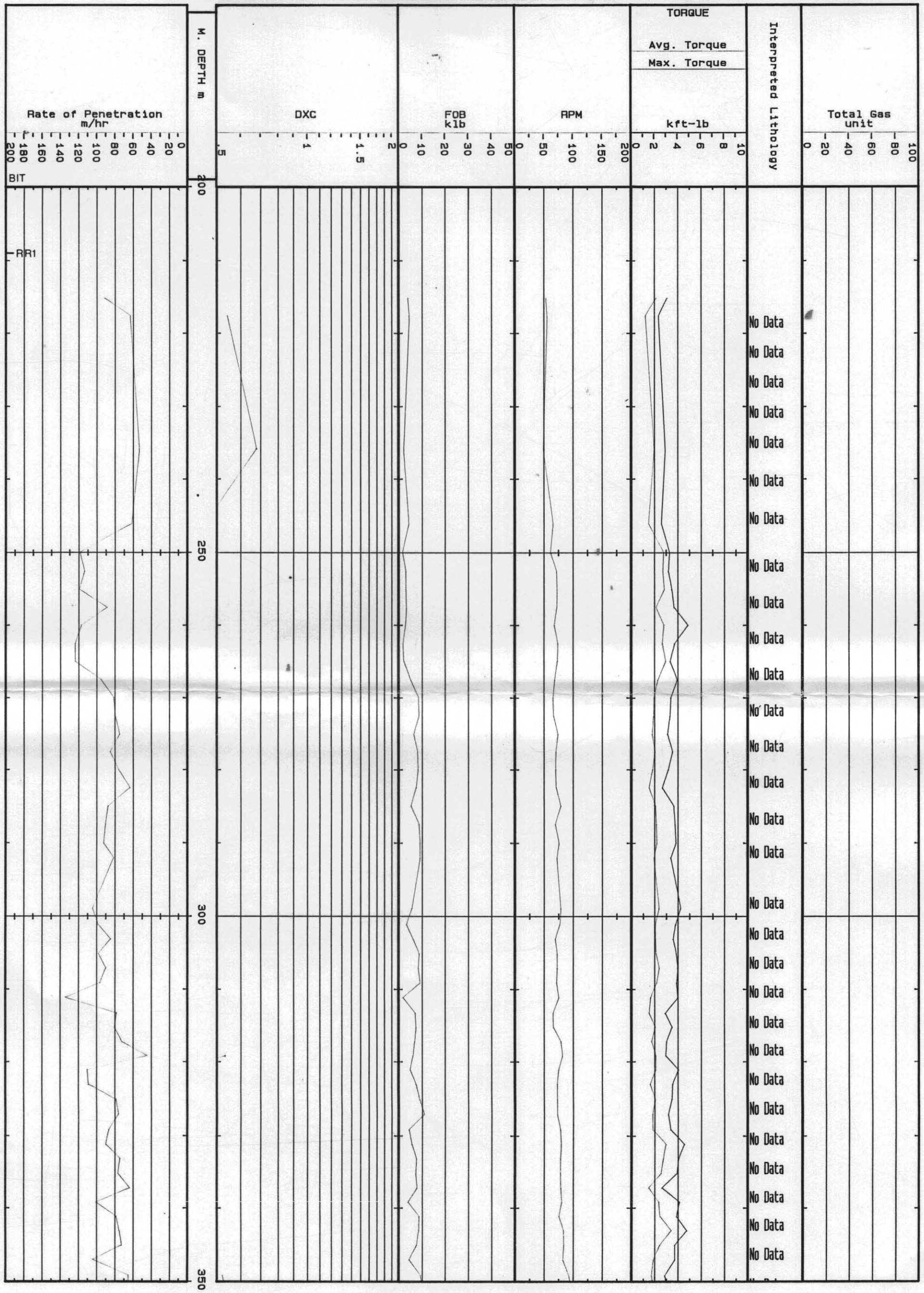
EXLOG

AMOCO AUST. Tilana No.1

DRILLING DATA PLOT

Date Plotted : Oct 10th 1985

Scale 1 m : 500 m



5 cm

329282

5 cm

350

400

450

500

No Data
No Data
No Data

329283

page # 3, Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT

5 cm

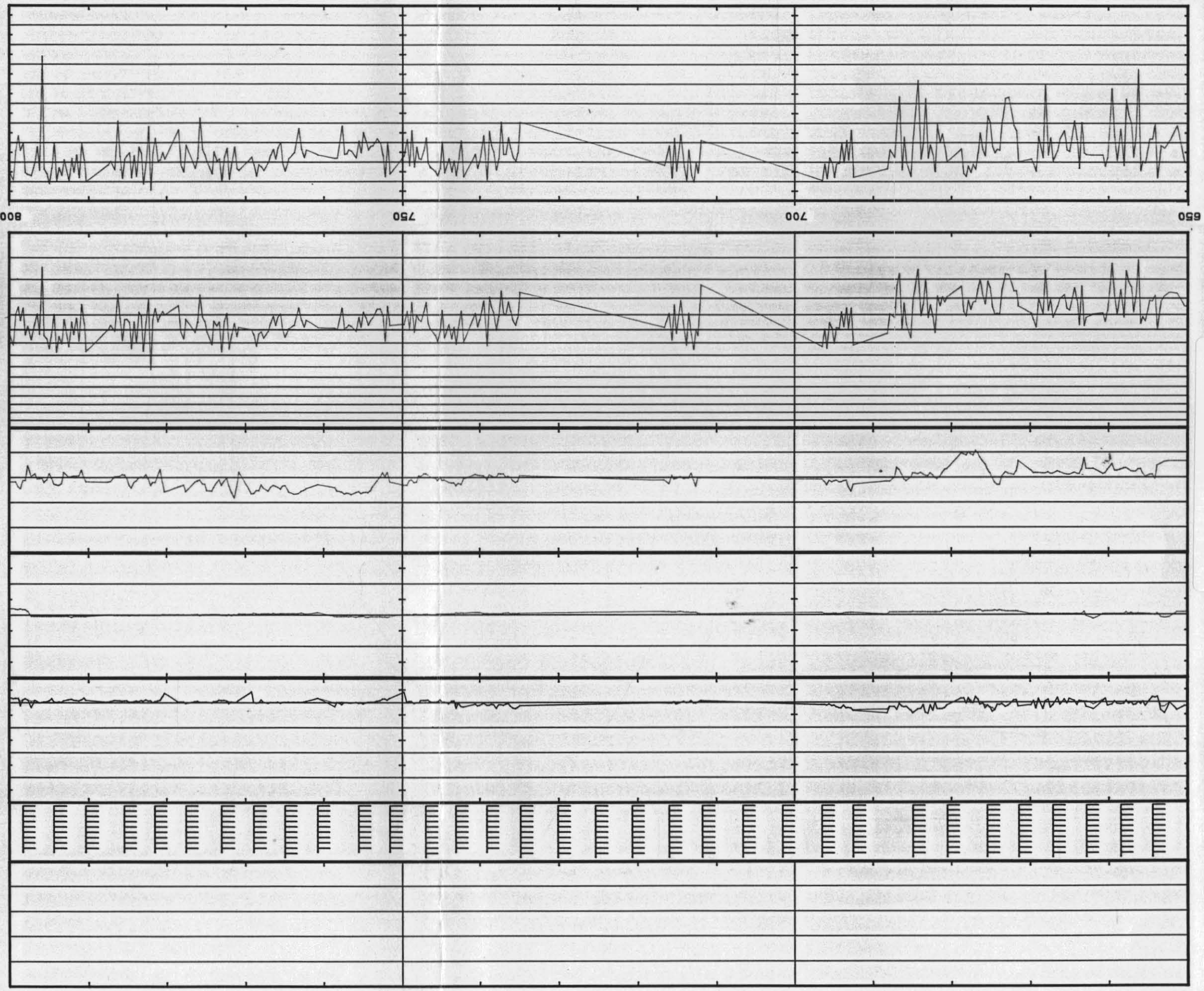
500

550

600

650

page # 4. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT



32984

page # 5. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT

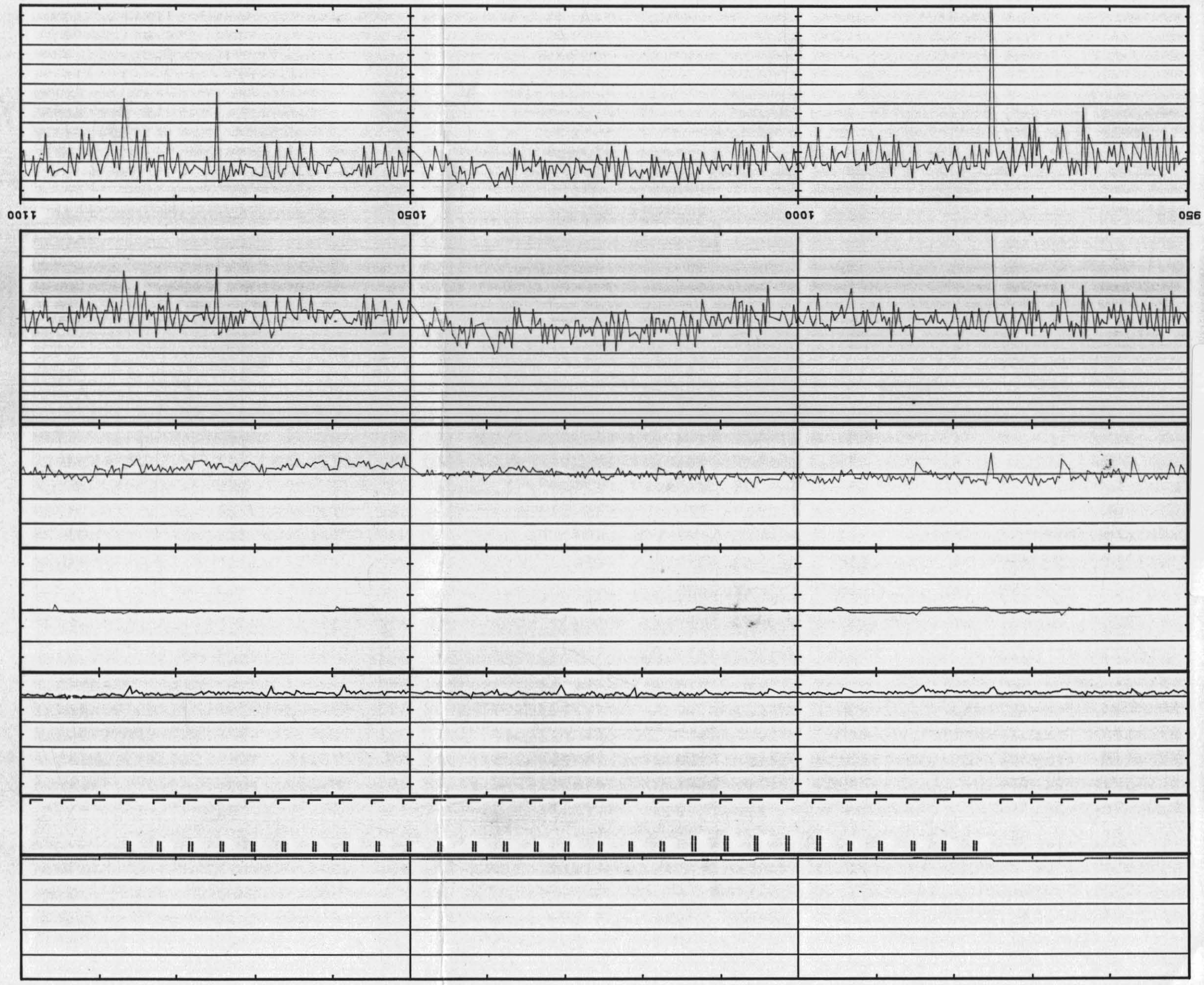
5 cm

800

850

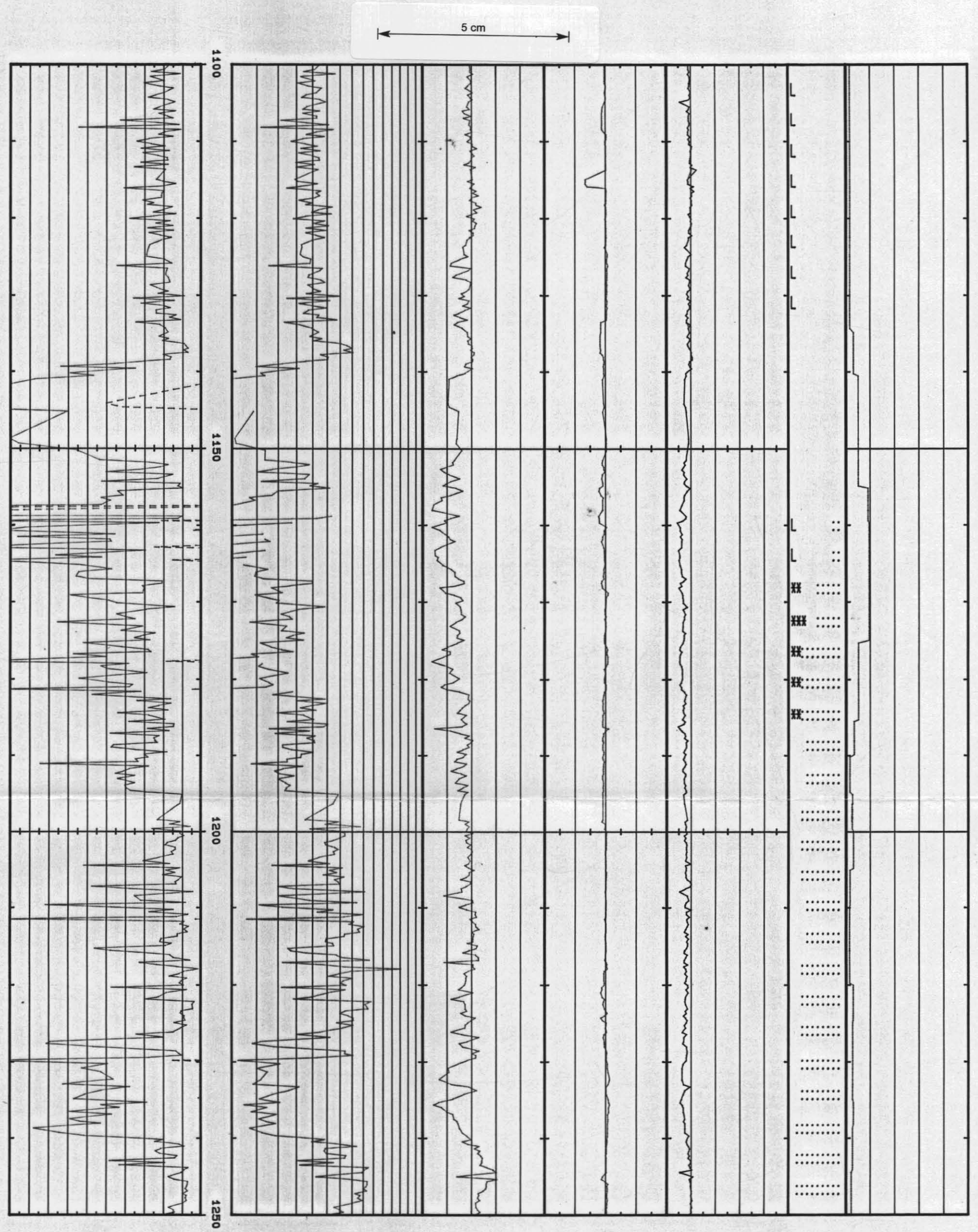
900

950

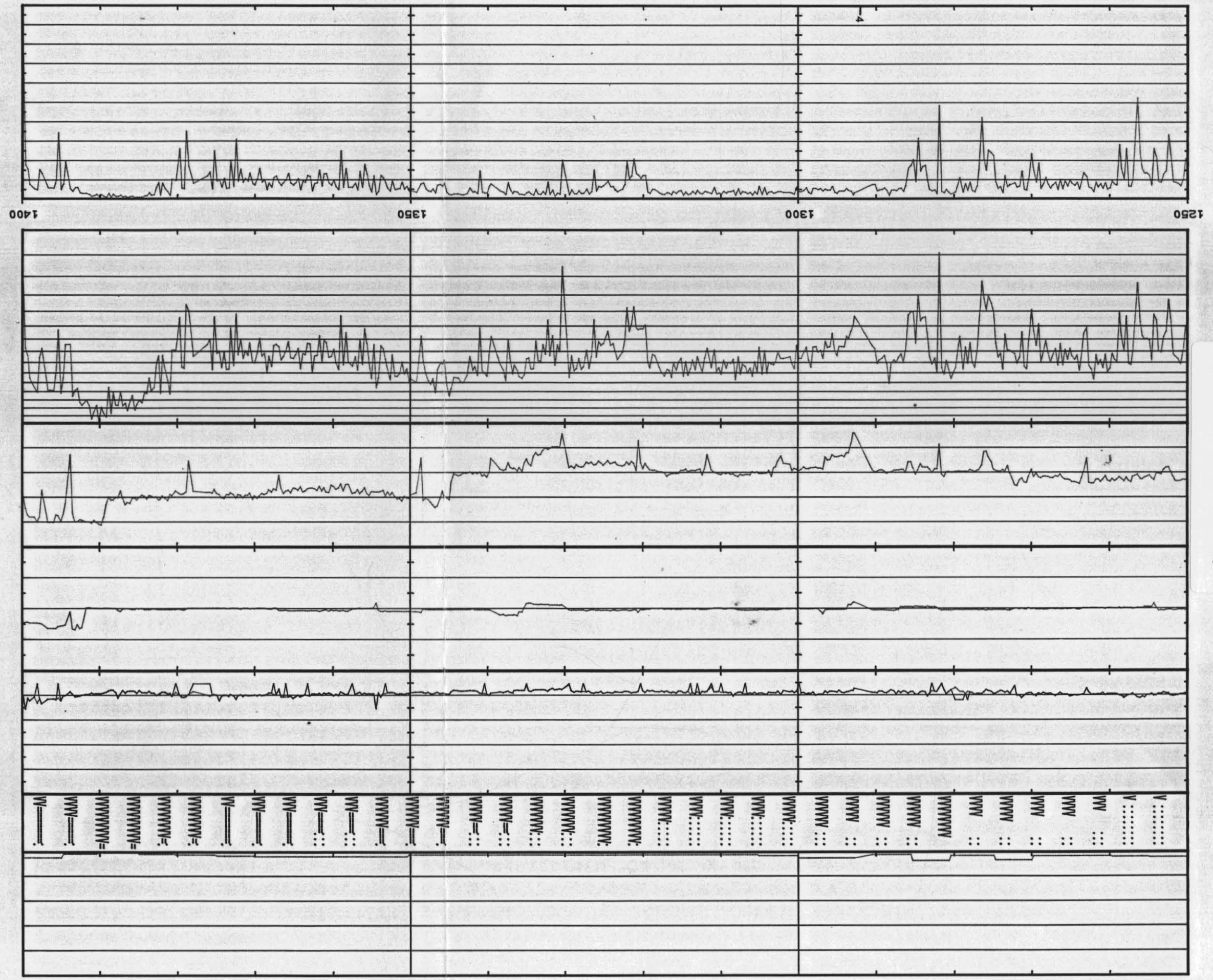


329886

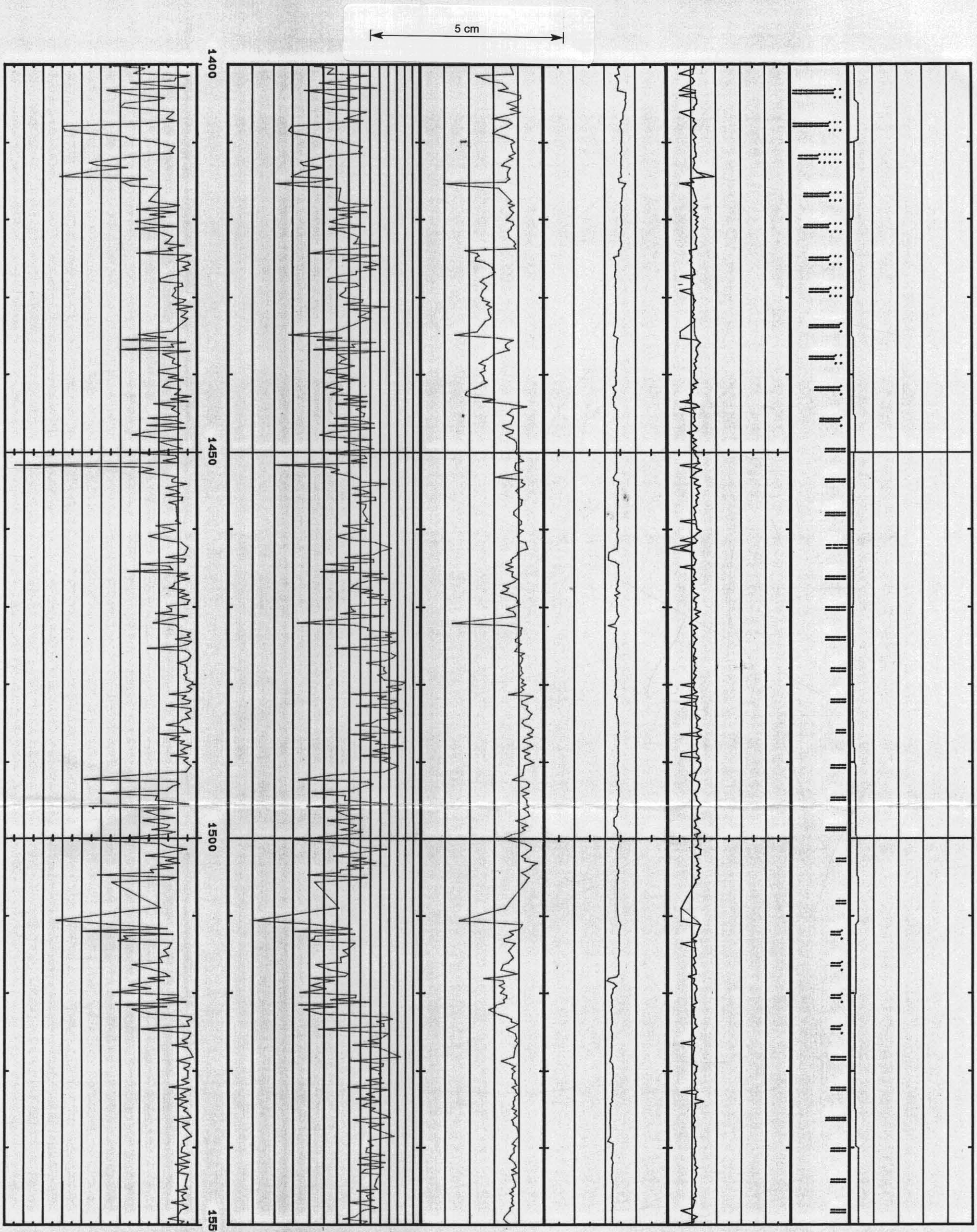
page # 7. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT



32988



329289



329290

EXLOG

AMOCO AUST. Tilana No.1

DRILLING DATA PLOT

Date Plotted : Oct 10th 1985

Scale 1 m : 500 m



5 cm

329291

page # 2. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT

5 cm

1600

1650

RR7

8

CORE 1

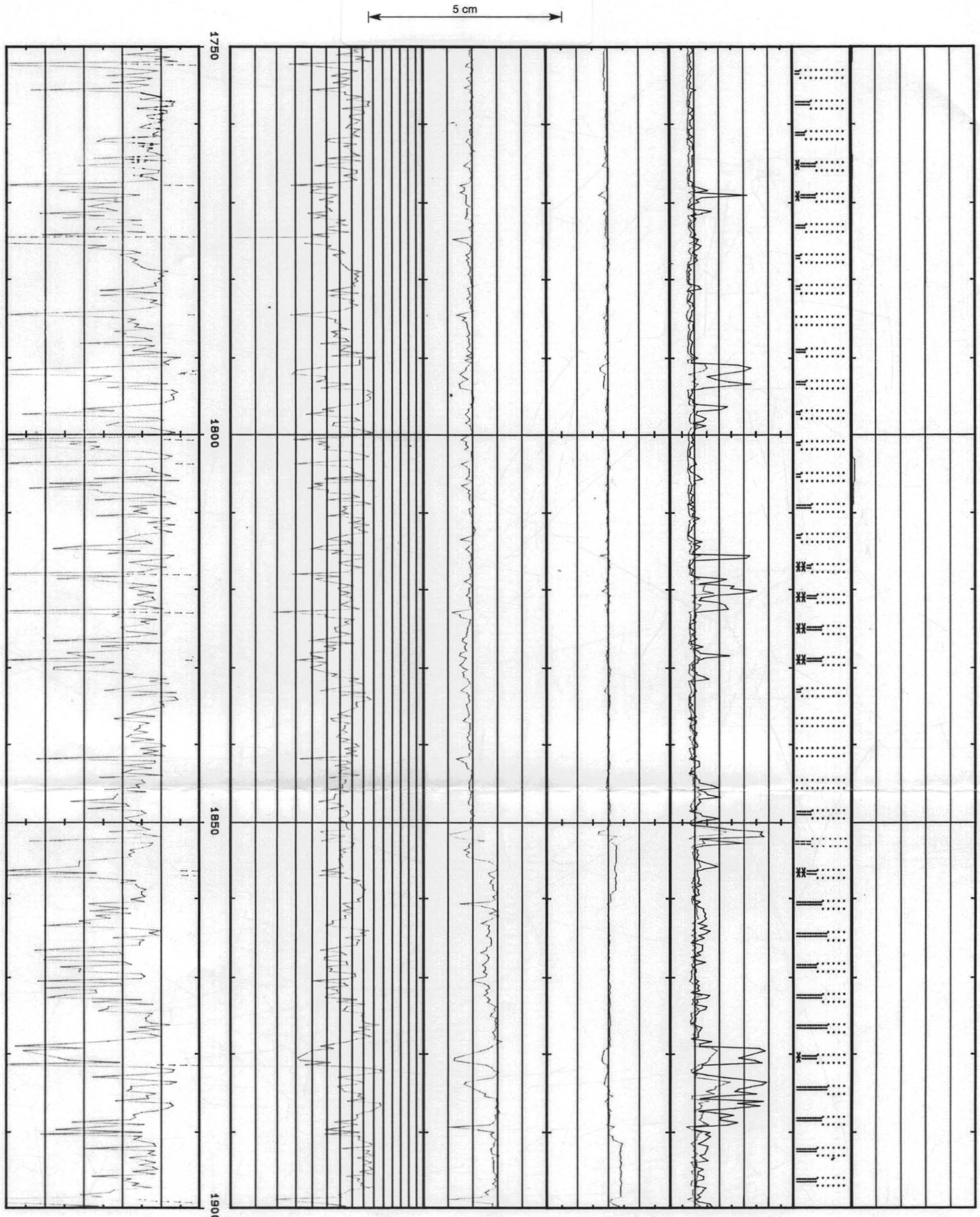
9

1700

1750

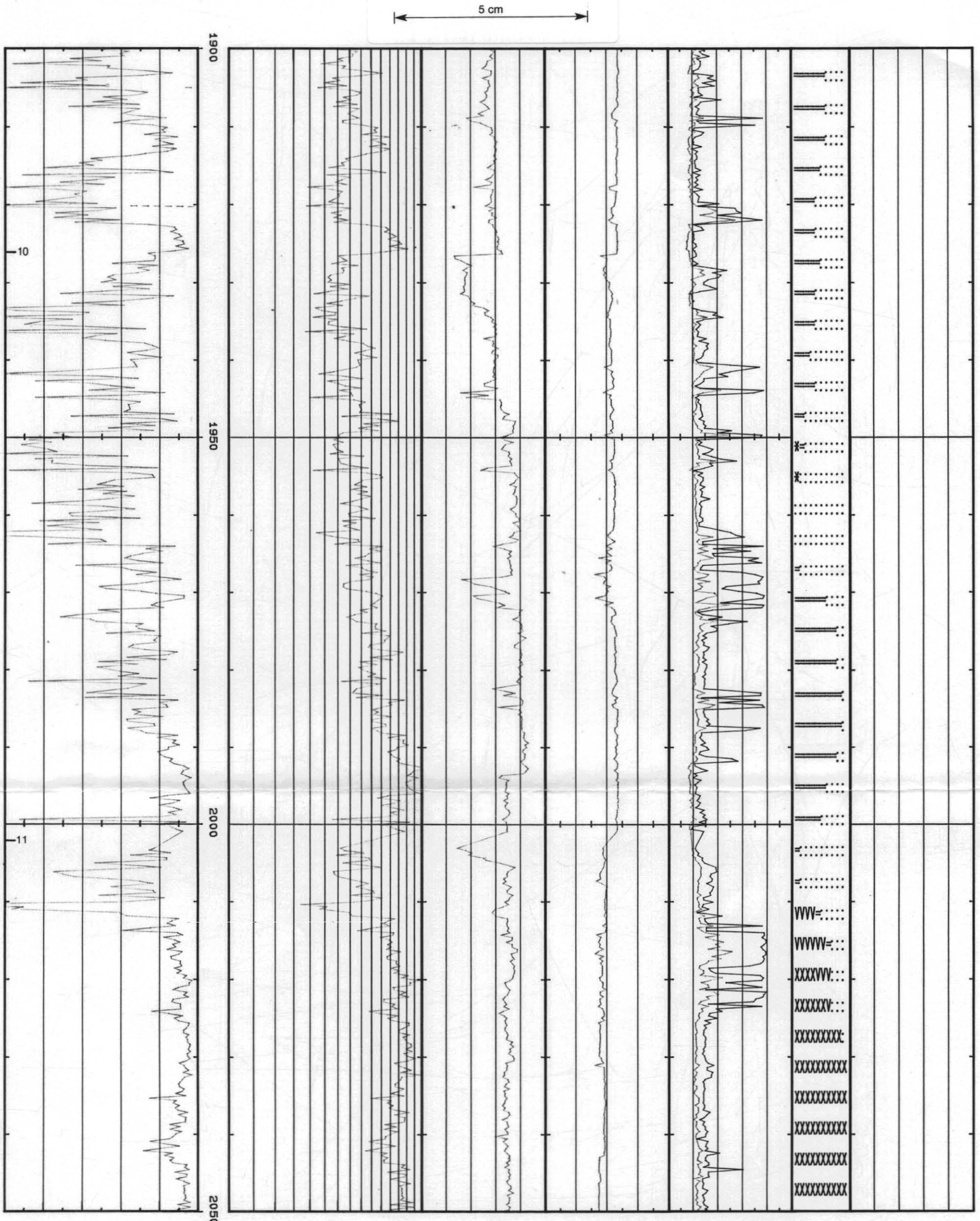
329292

page # 3. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT

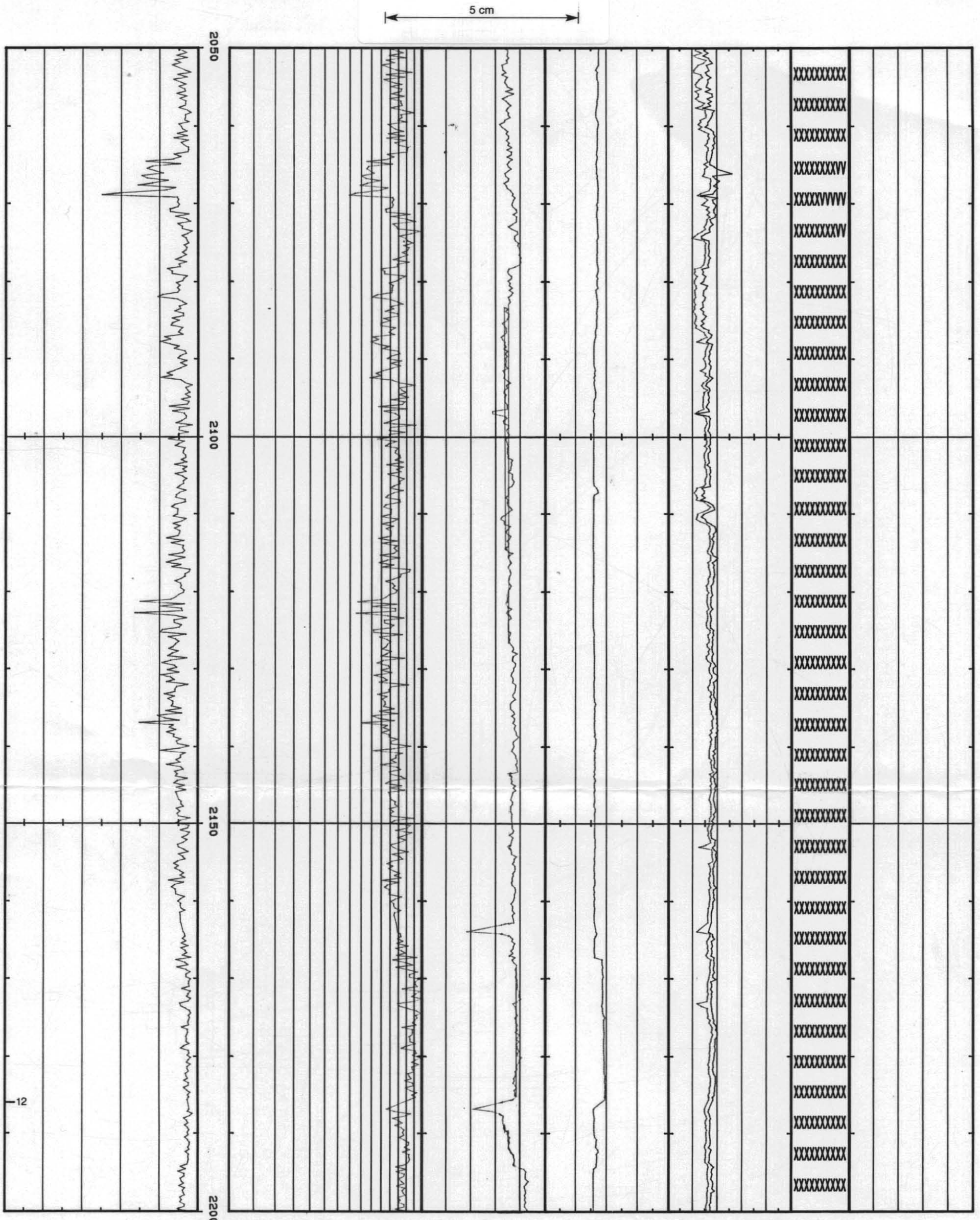


329293

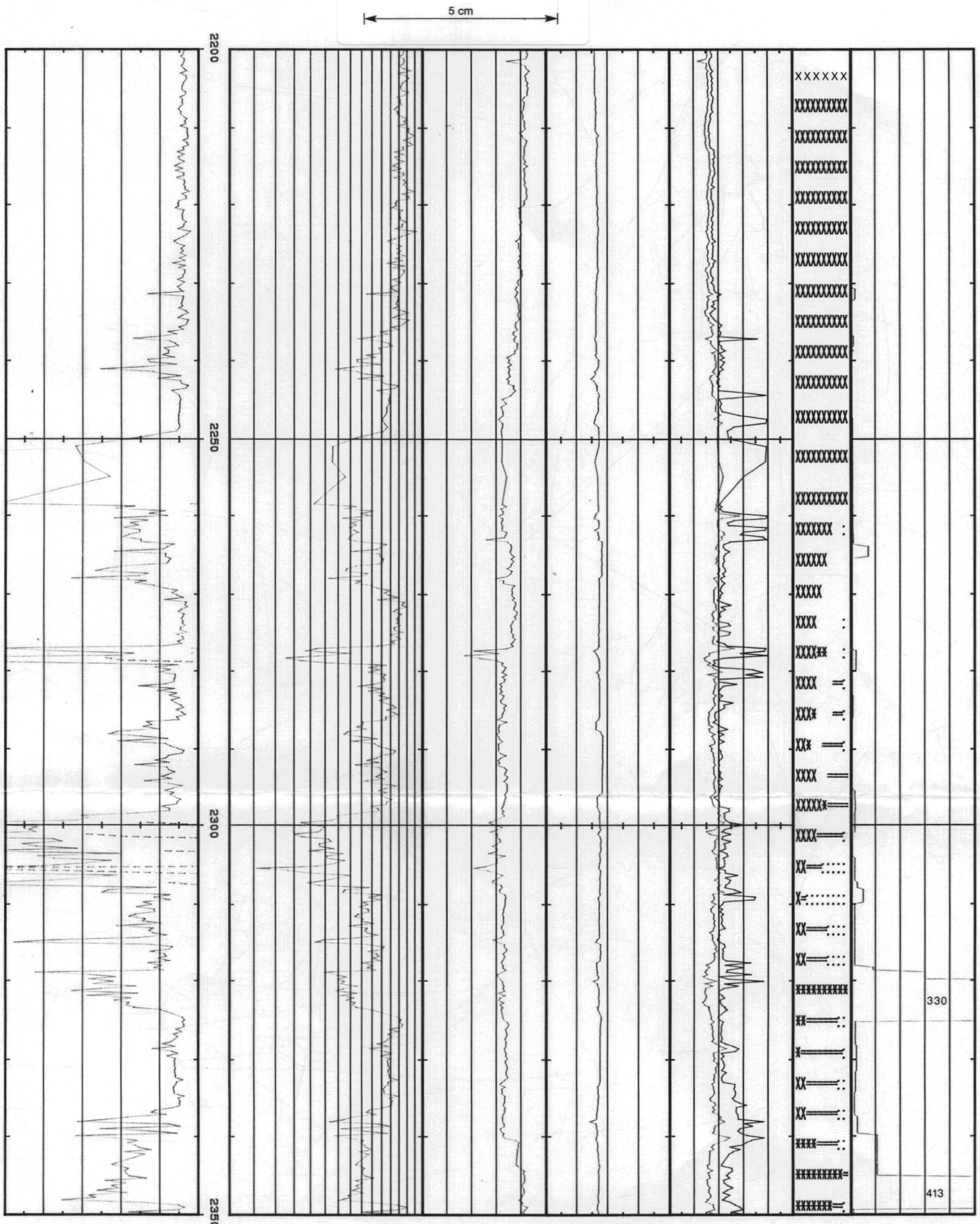
page # 4. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT



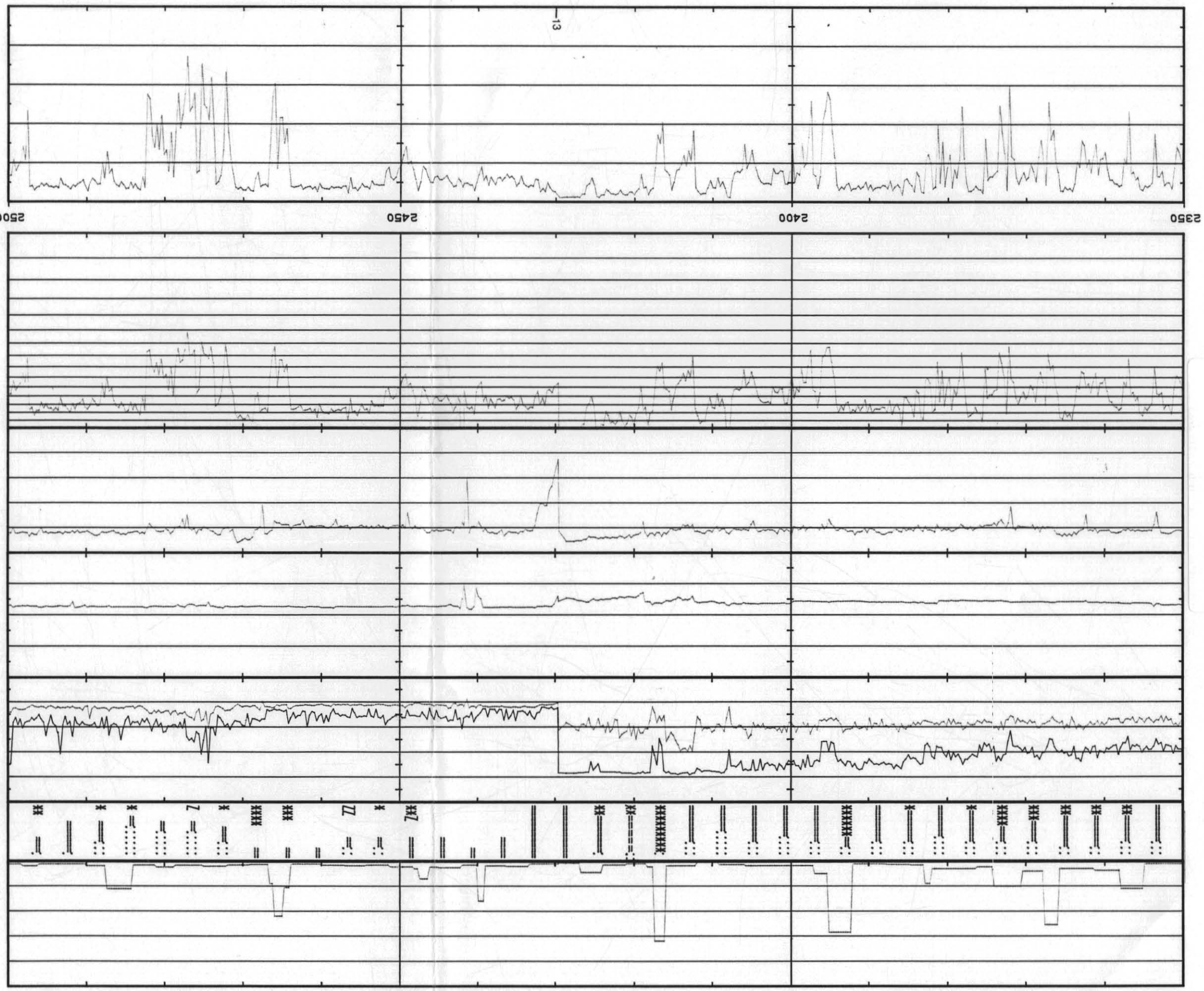
page # 5. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT



page # 6. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT



page # 7. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT

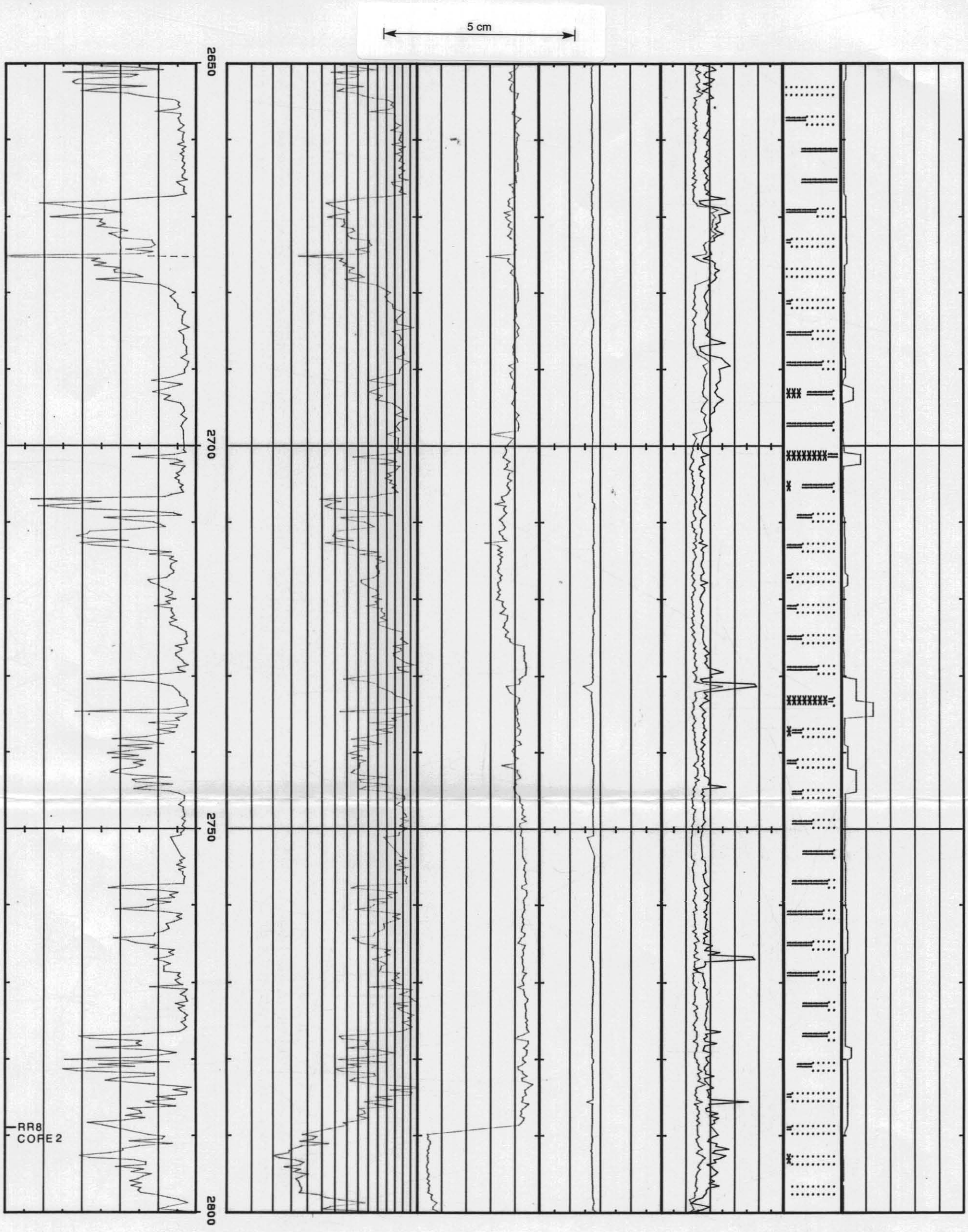


32926

page # 8. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT



page # 9. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT



page #10, Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tilana No.1 : title - DRILLING DATA PLOT

5 cm

15

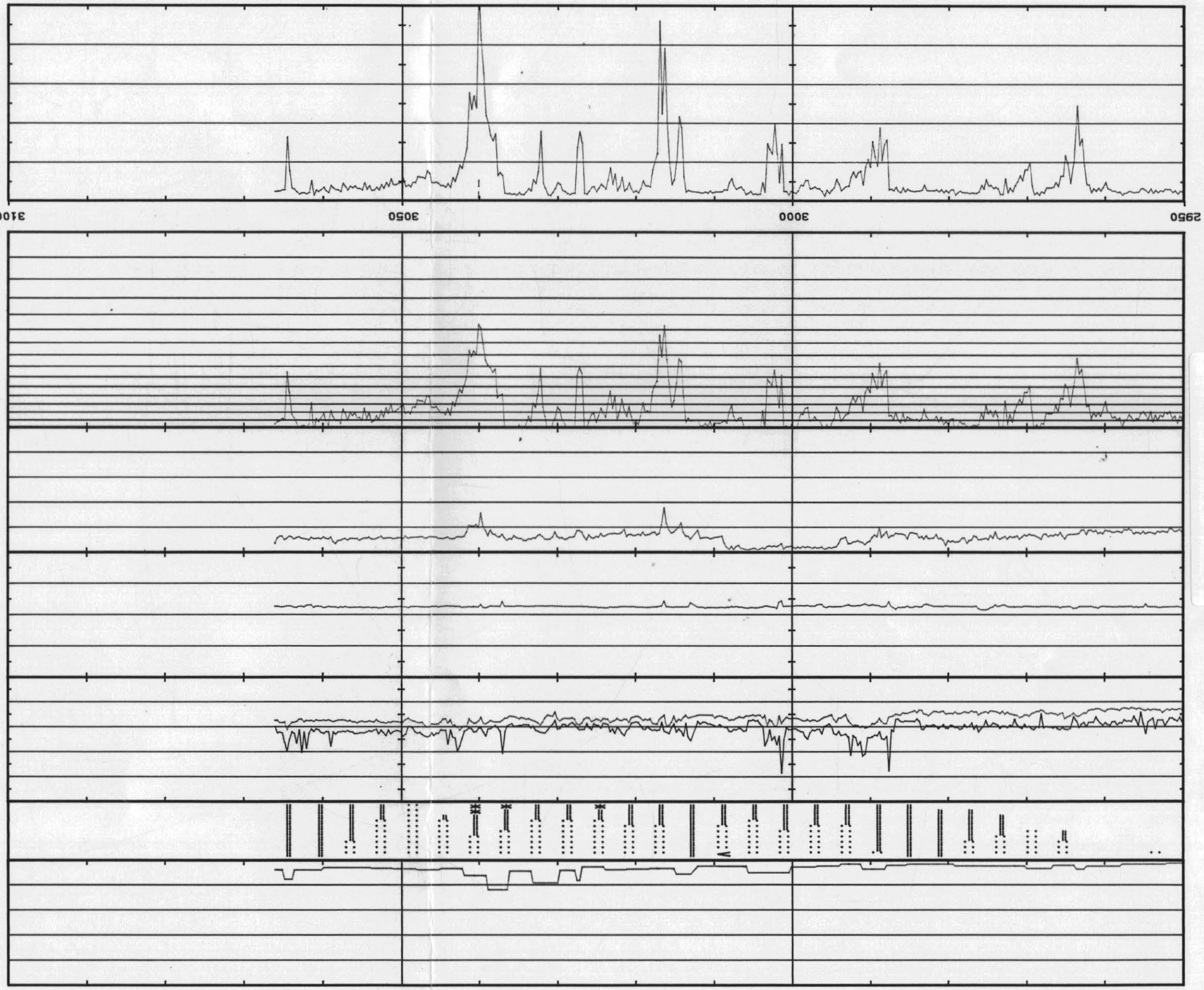
2800

2850

2900

2950

page #11. Date Plotted : Oct 10th 1985 : Well - AMOCO AUST. Tiana No.1 : title - DRILLING DATA PLOT



329300

EXLOG

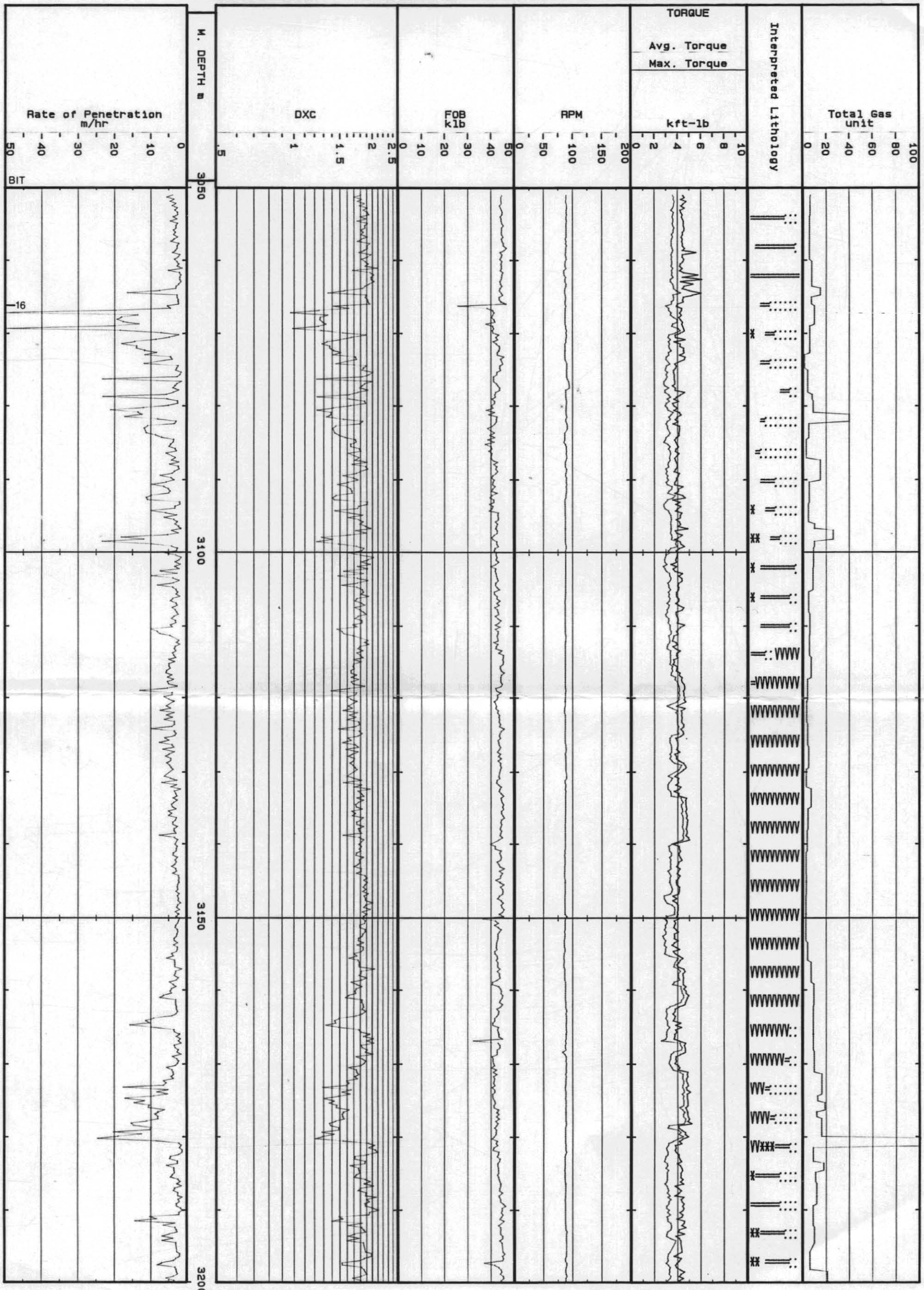
AMOCO AUST. Tilana No.1

329301

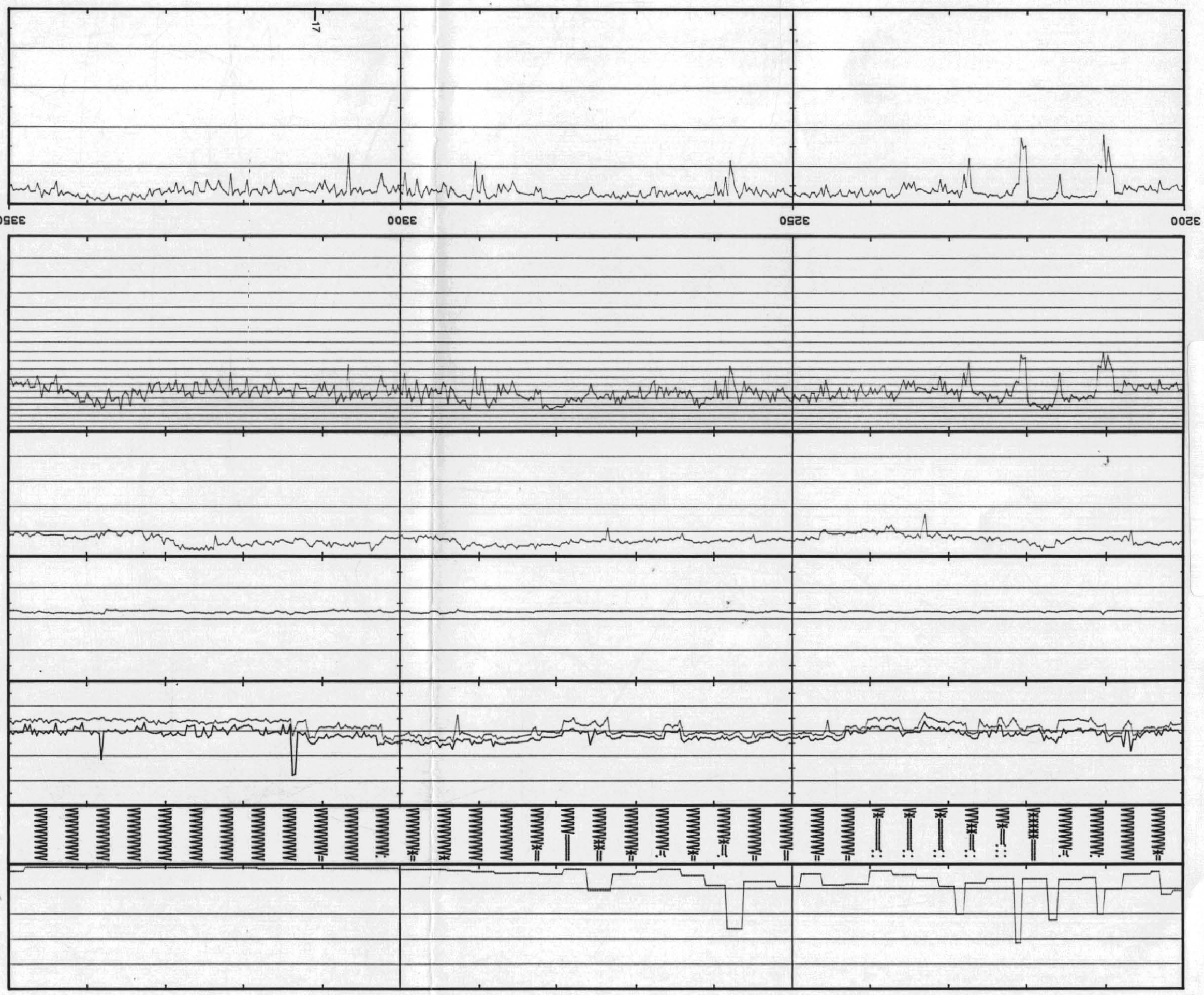
Drilling Data Plot

Date Plotted : Oct 28th 1985

Scale 1 m : 500 m

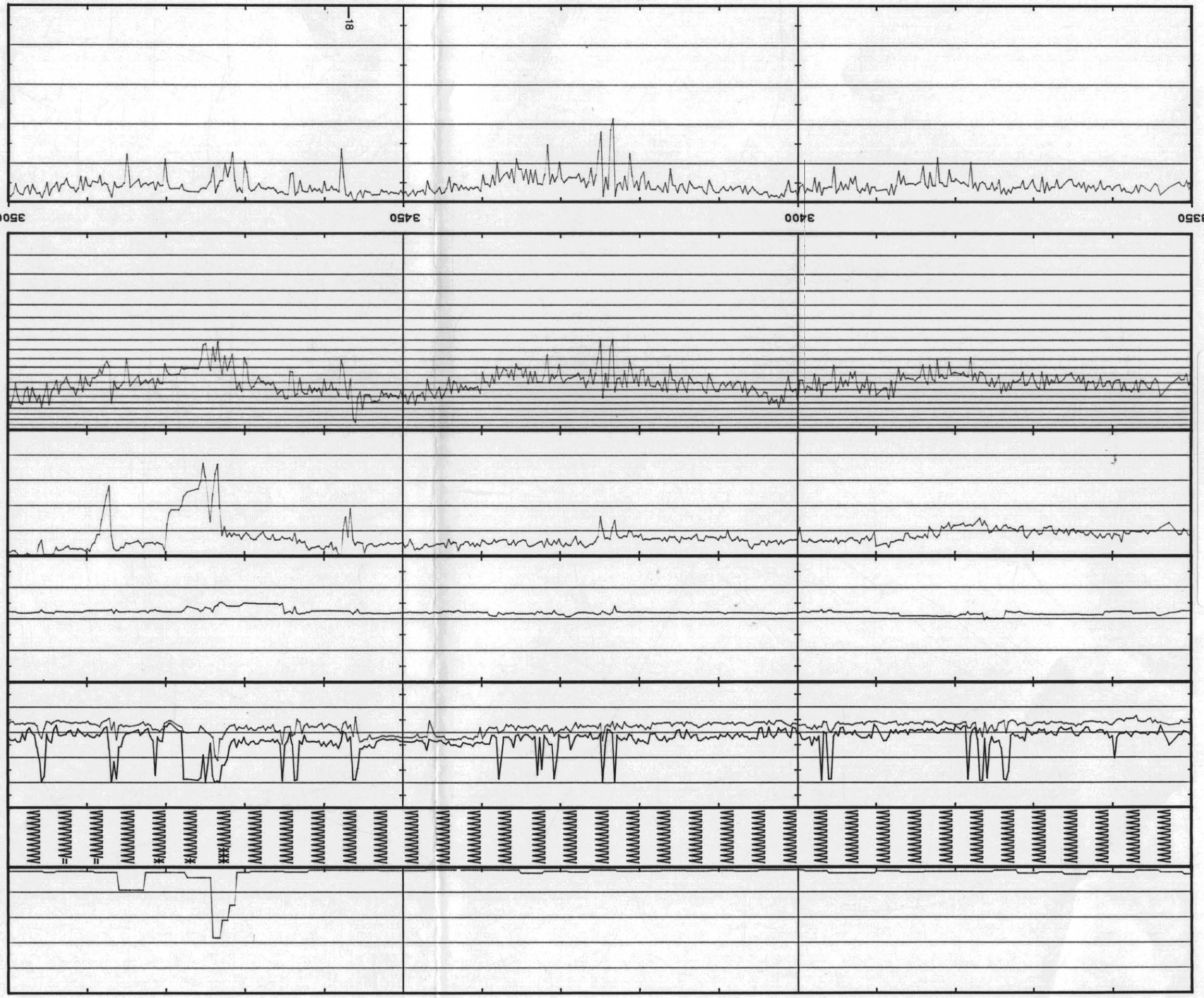


5 cm



Tilana No.1 : title - Drilling Data Plot

page # 3. Date Plotted : Oct 28th 1985 : Well - AMOCO AUST. Tilana No.1 : title - Drilling Data Plot



3229203

329304

5 cm

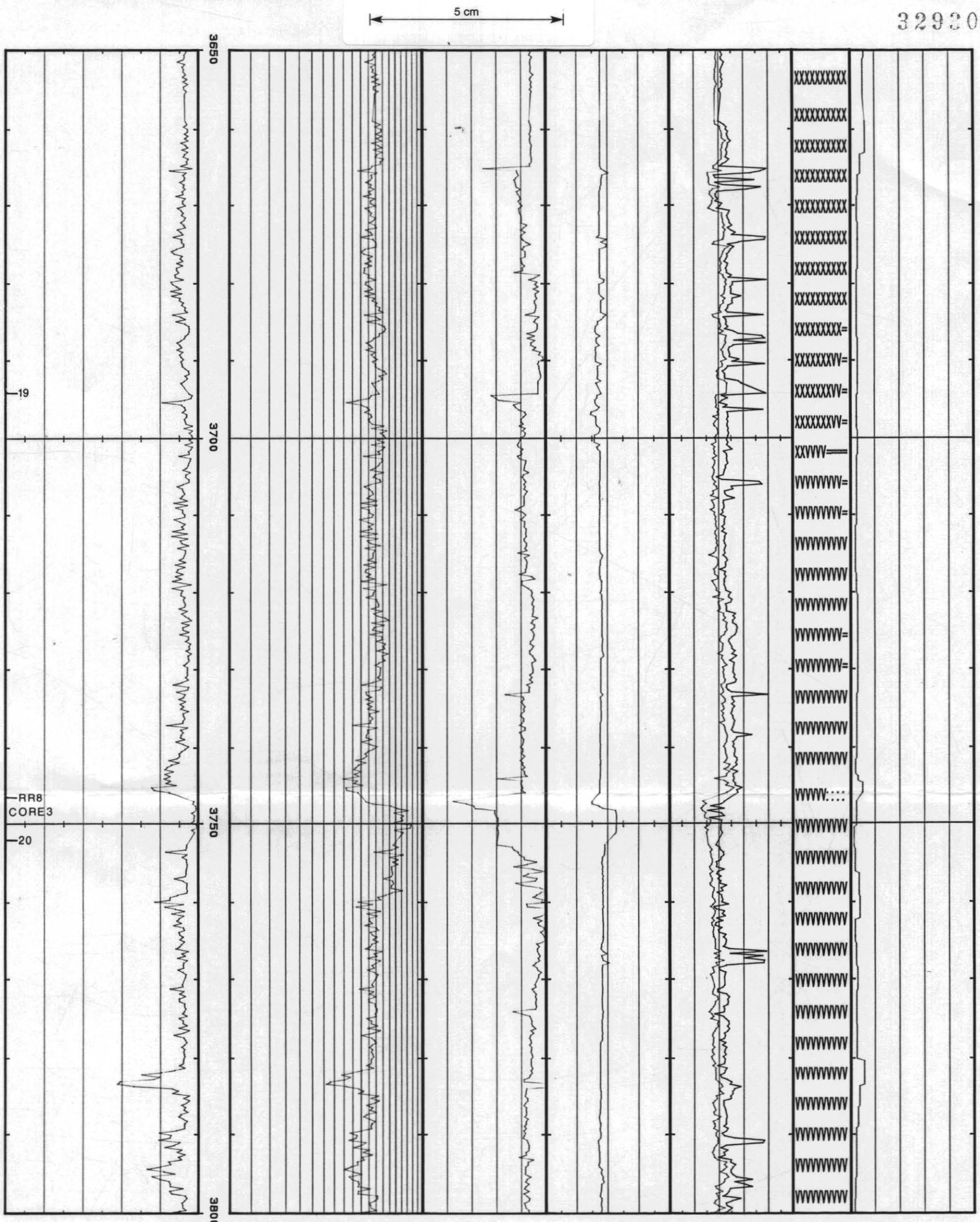
3500

3550

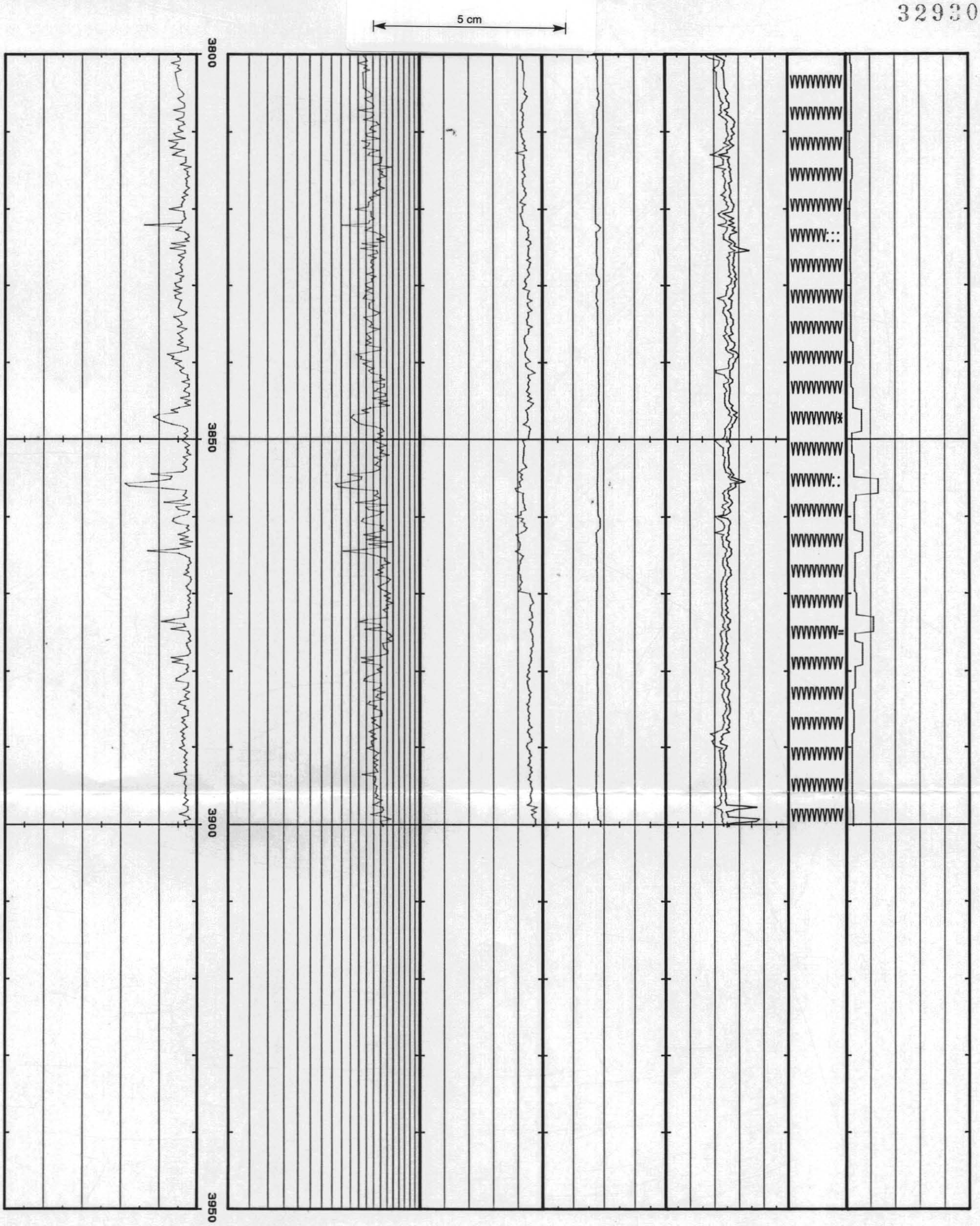
3600

3650

329305



329306



EXLOG

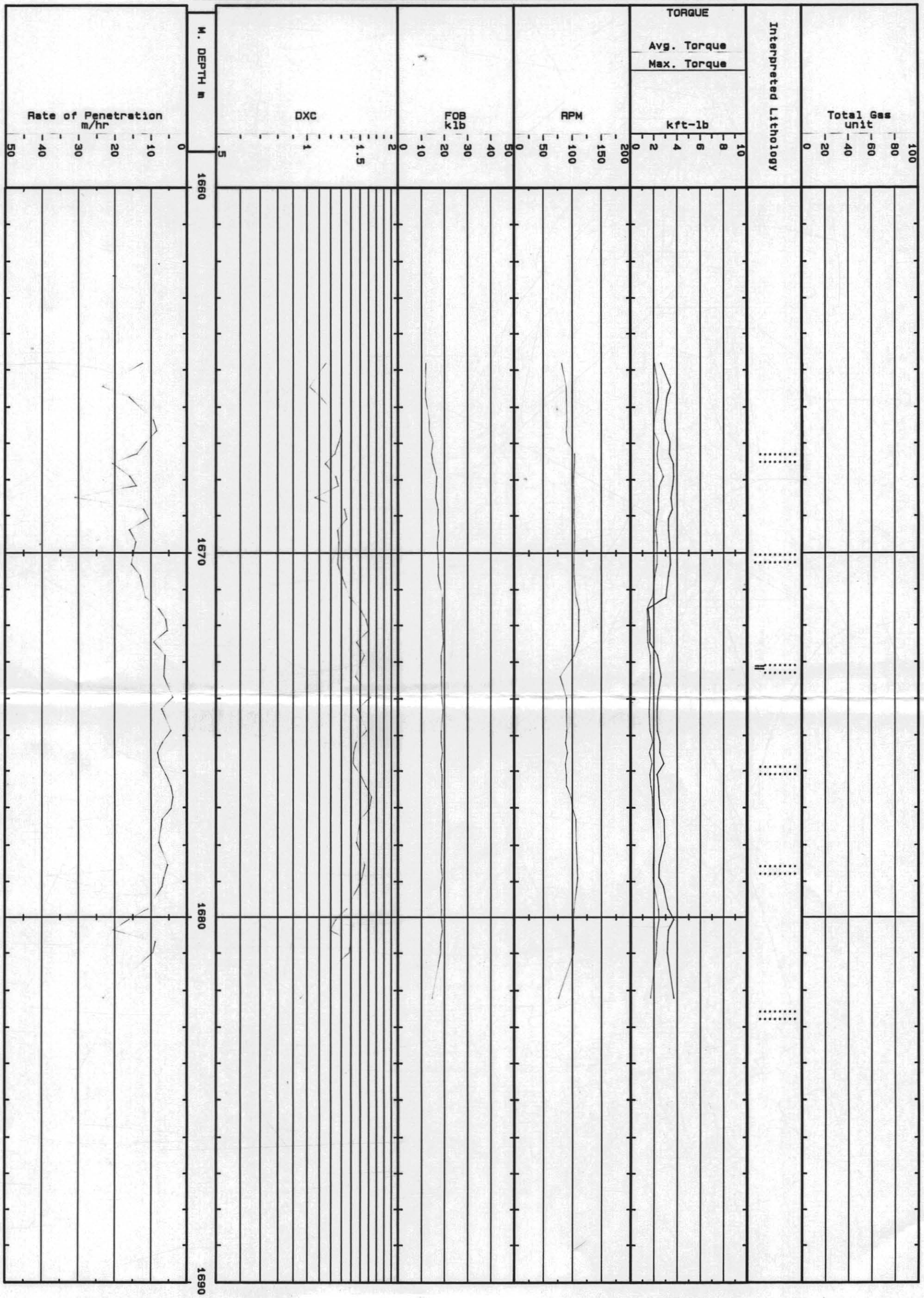
AMOCO AUST. Tilana No.1

DRILLING DATA PLOT CORE 1

32930

Date Plotted : Oct 11th 1985

Scale 1 m : 100 m



5 cm

EXLOG

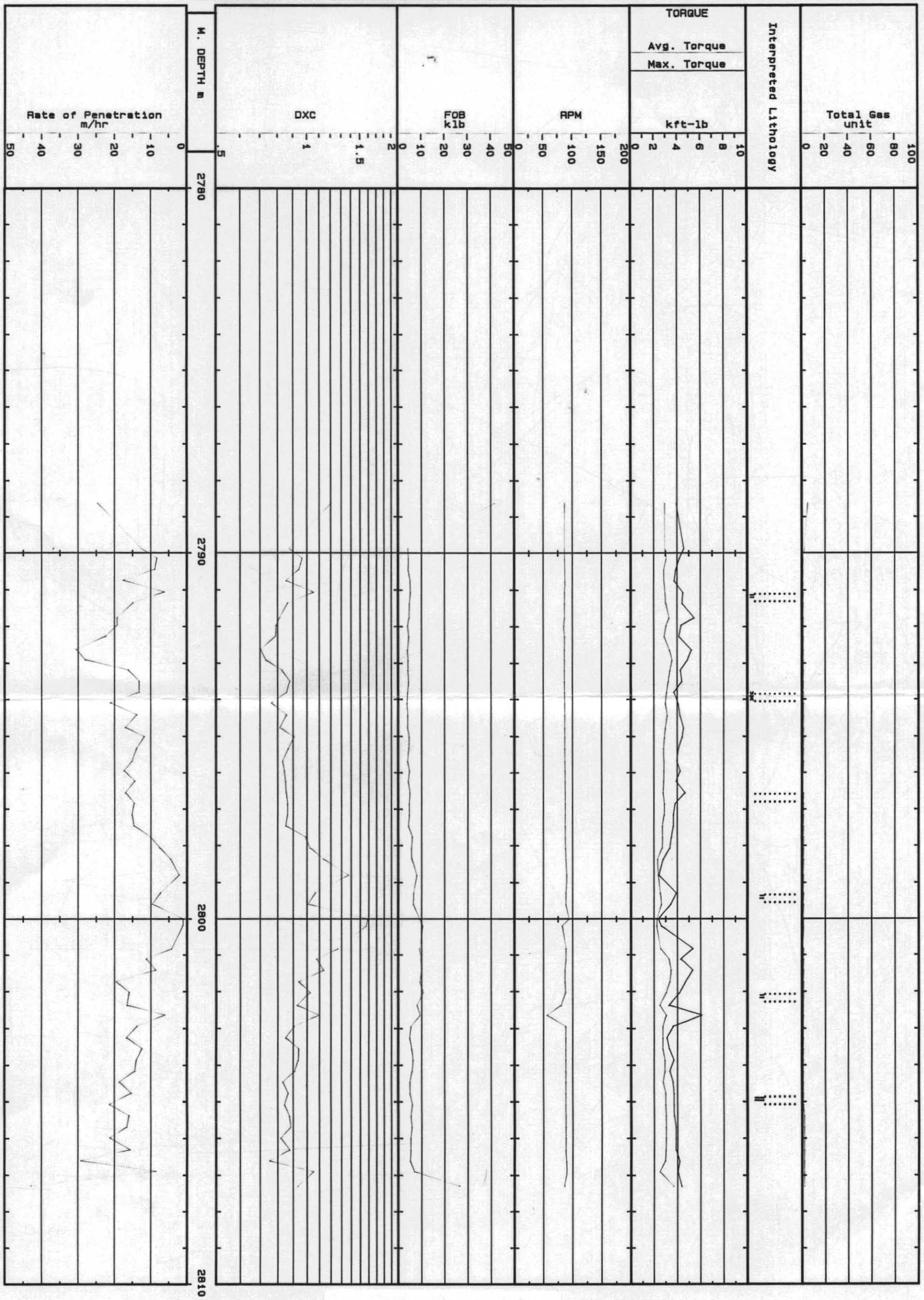
AMOCO AUST. Tilana No.1

329208

DRILLING DATA PLOT CORE 2

Date Plotted : Oct 11th 1985

Scale 1 m : 100 m



EXLOG

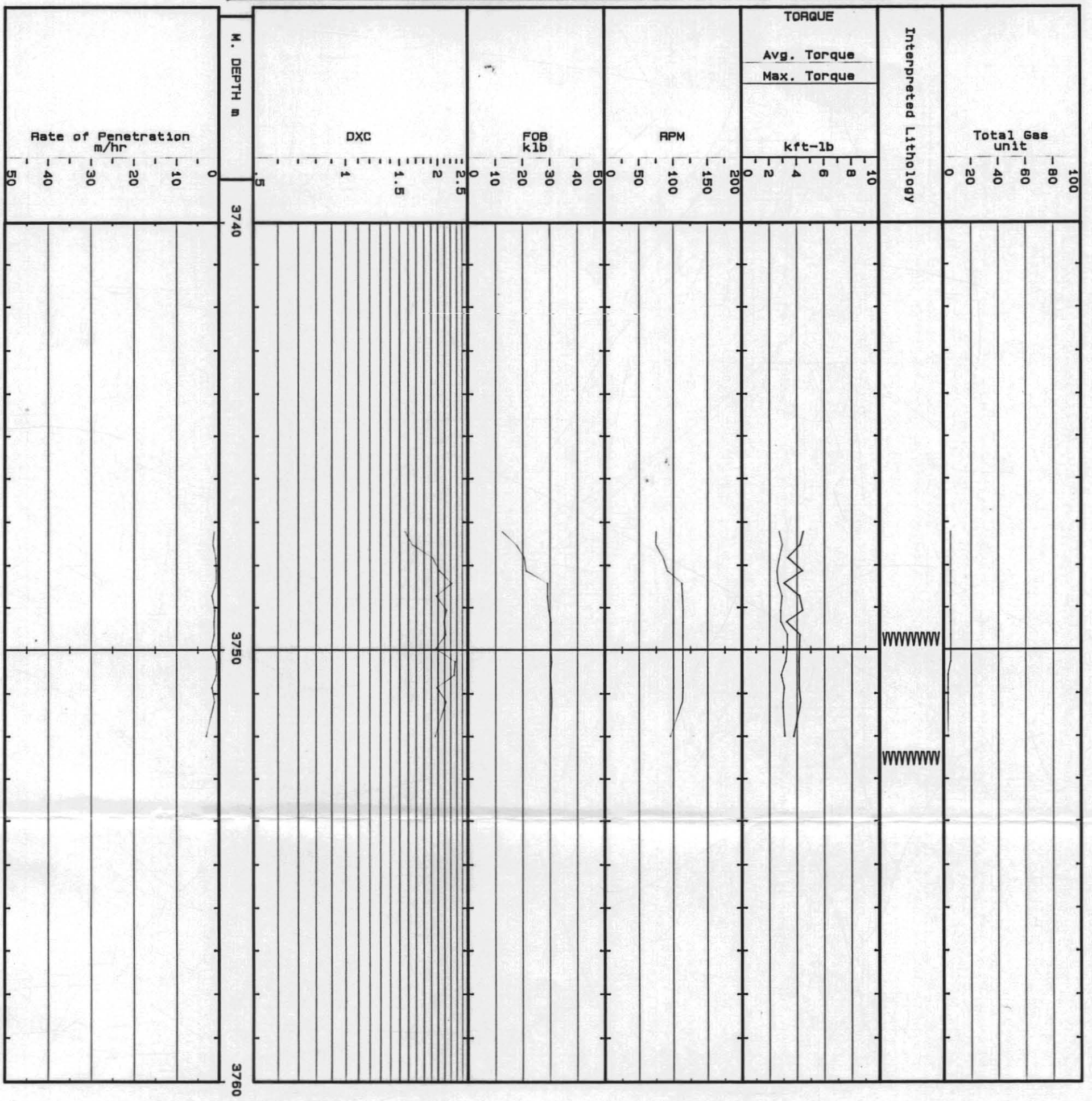
AMOCO AUST. Tilana No.1

Drilling Data Plot CORE 3

329809

Date Plotted : Oct 29th 1985

Scale 1 m : 100 m



5 cm

EXLOG

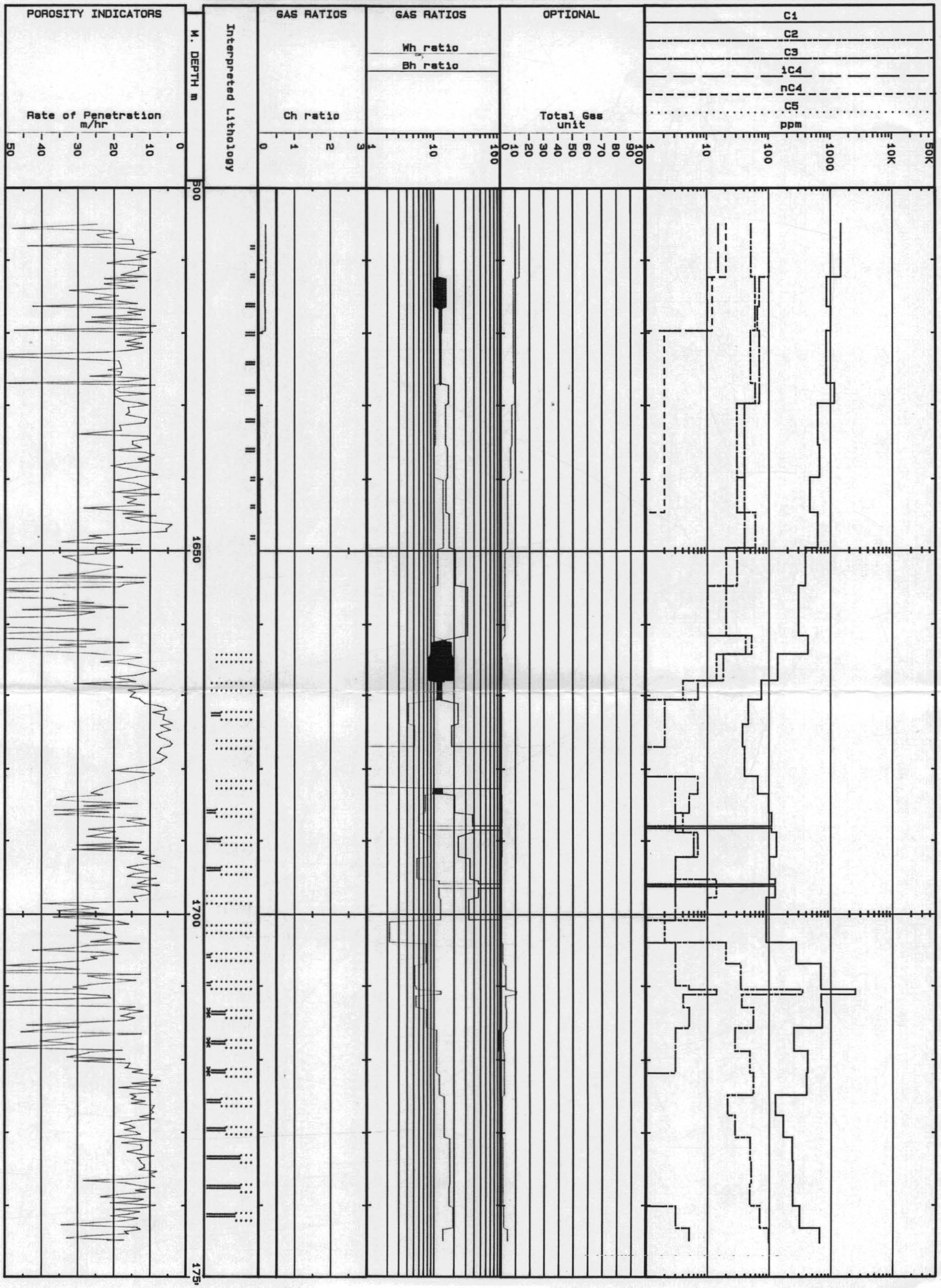
AMOCO AUST. Tilana No.1

GAS RATIO PLOT

329310

Date Plotted : Oct 10th 1985

Scale 1 m : 500 m



5 cm

EXLOG

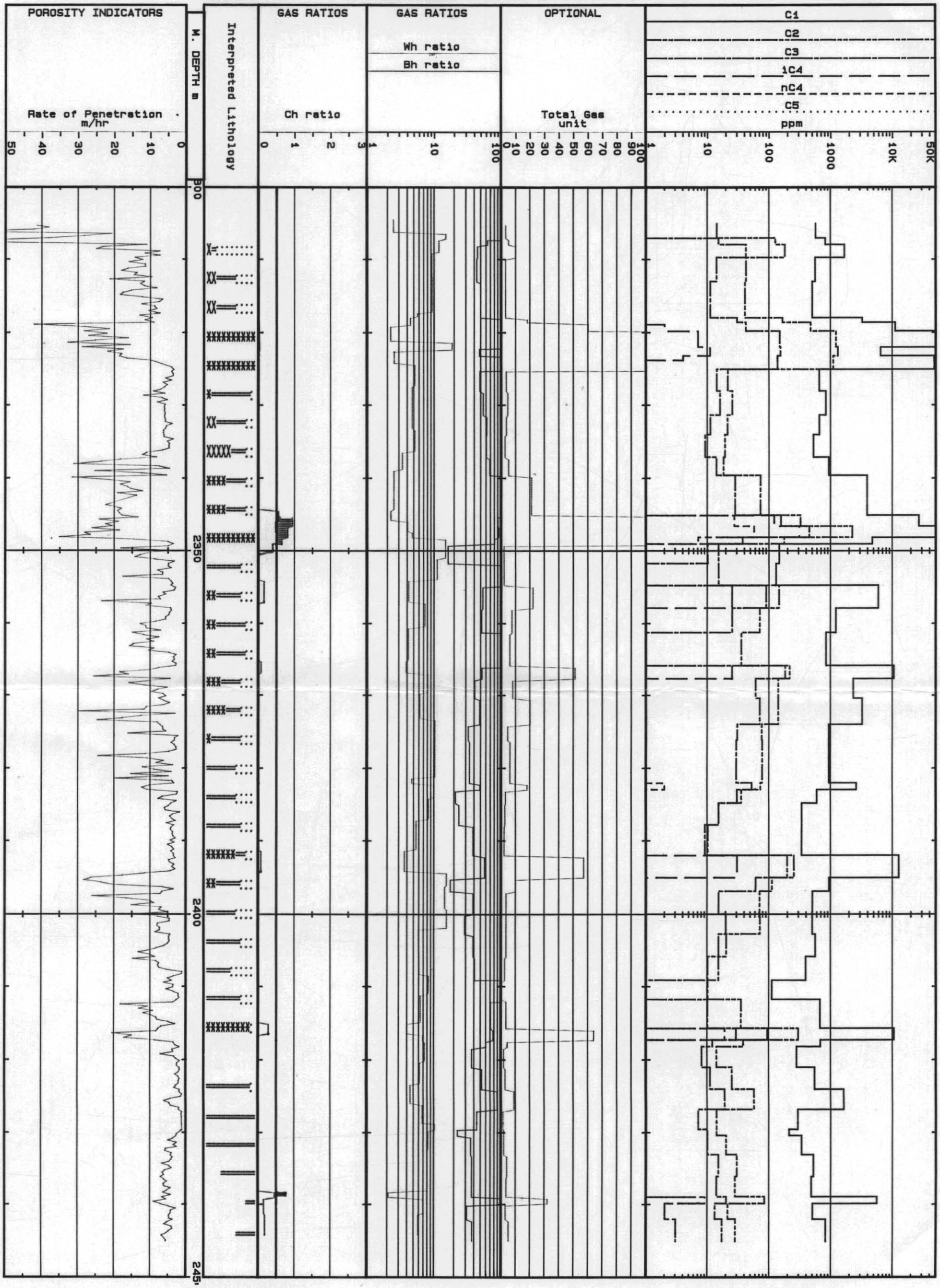
AMOCO AUST. Tilana No.1

GAS RATIO PLOT

329311

Date Plotted : Oct 10th 1985

Scale 1 m : 500 m



EXLOG

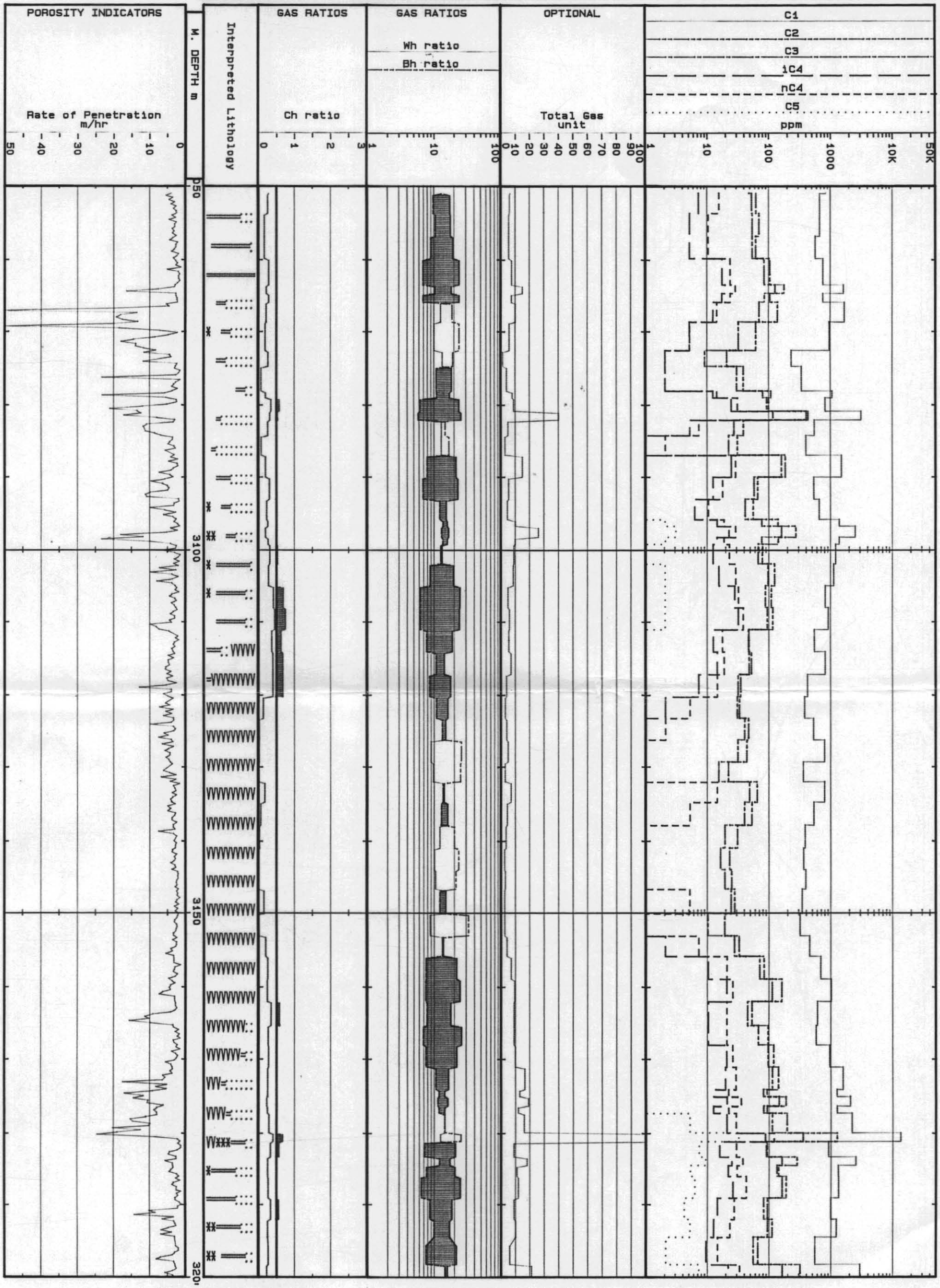
AMOCO AUST. Tilana No.1

GAS RATIO PLOT

329312

Date Plotted : Oct 30th 1985

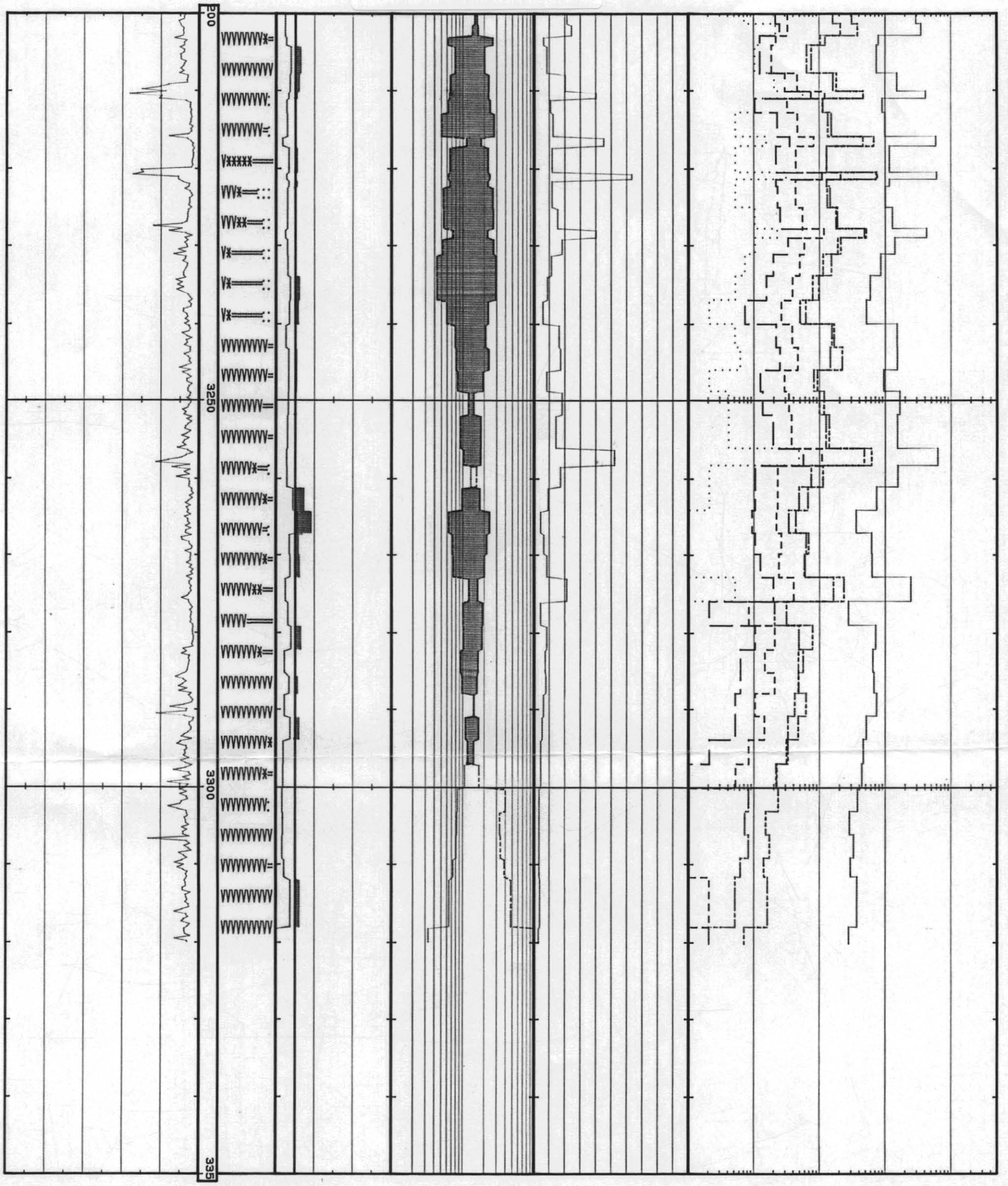
Scale 1 m : 500 m



5 cm

329313

5 cm



EXLOG

AMOCO AUST. Tilana No.1

329314

GAS RATIO PLOT

Date Plotted : Oct 31st 1985

Scale 1 m : 500 m

POROSITY INDICATORS

Rate of Penetration m/hr

50 40 30 20 10 0

M. DEPTH m

Interpreted Lithology

GAS RATIOS

Ch ratio

0 1 2 3

GAS RATIOS

Wh ratio

Bh ratio

1 10 100

OPTIONAL

Total Gas unit

0 10 20 30 40 50 60 70 80 90 100

C1

C2

C3

iC4

nC4

C5

ppm

1 10 100 1000 10K 50K

3500

3550

3600

3650

5 cm

EXLOG

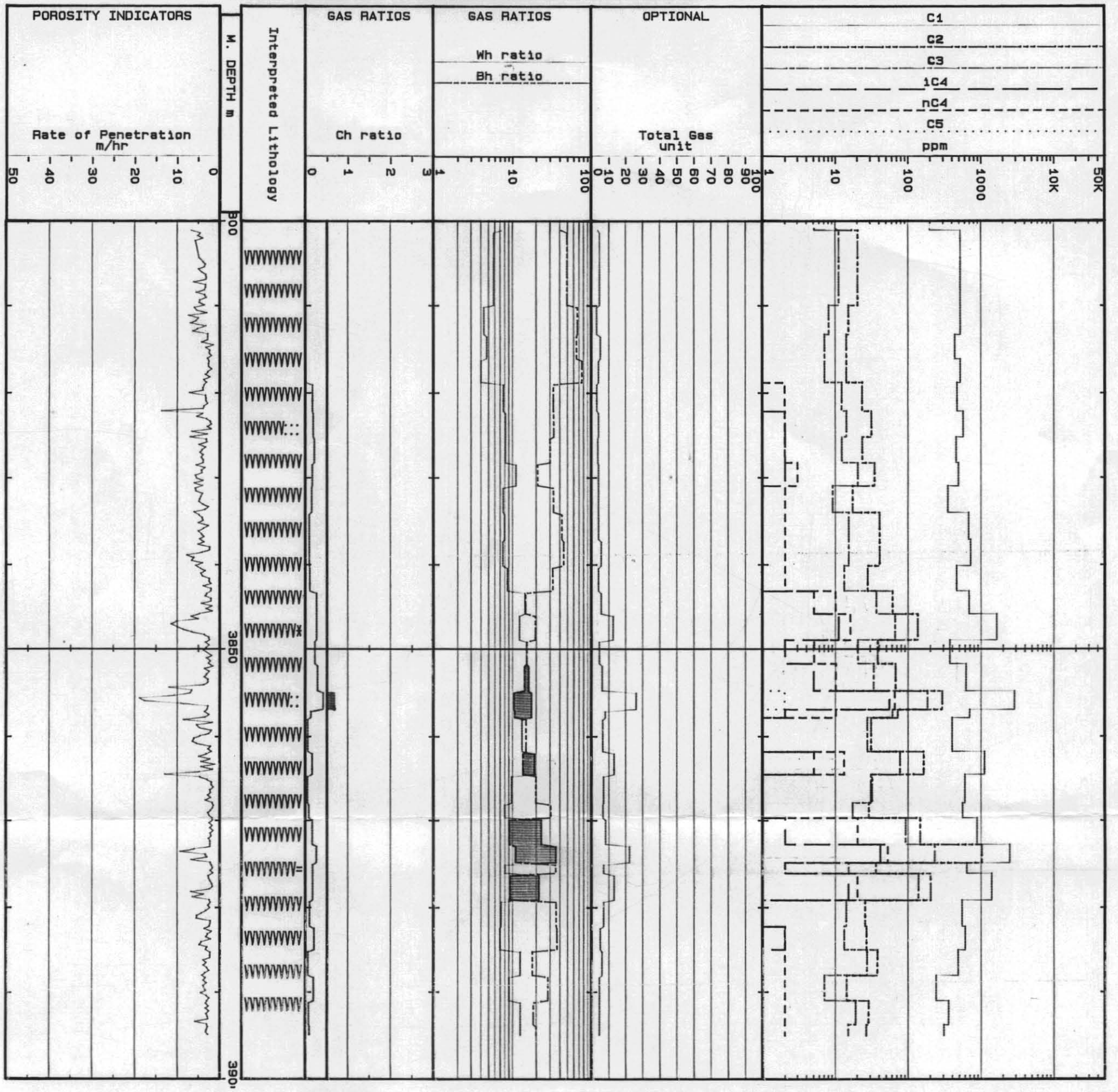
AMOCO AUST. Tilana No.1

329315

GAS RATIO PLOT

Date Plotted : Oct 31st 1985

Scale 1 m : 500 m



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329316

APPENDIX E.

1. HYDRAULICS ANALYSES
2. MORNING GEOLOGICAL-ENGINEERING REPORTS
3. WEEKLY GEOLOGICAL-ENGINEERING REPORTS

329317

1. HYDRAULICS ANALYSES

329318

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	2.00	cP
YIELD POINT	3.00	lb/cft^2
POWER LAW k	.2502	
POWER LAW n	.4854	
DEPTH	1528.0	ft (465.7m)
VERTICAL DEPTH	1527.9	ft
DEPTH OF RETURNS	1491.7	ft
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	8.80	lb/gal
ACTIVE SURFACE MUD VOLUME	258	bbl
FLOW RATE	833	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2420	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	15, 15, 18	

CALCULATED RESULTS:

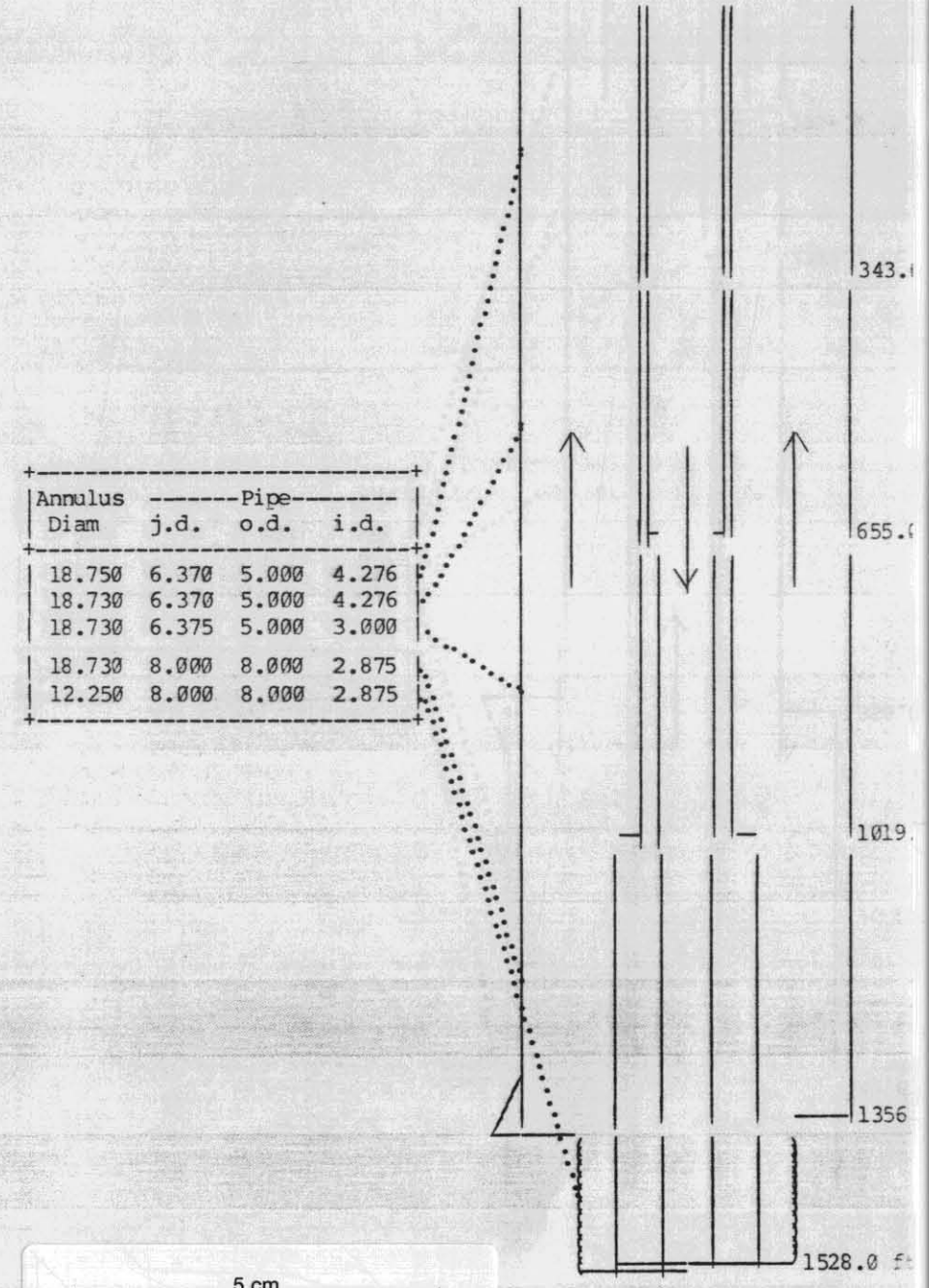
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	62.5	78.9	LAMINAR	.1
343.0	655.0	312.0	18.730/ 5.000	62.7	79.0	LAMINAR	.1
655.0	1019.5	364.5	18.730/ 5.000	62.7	79.0	LAMINAR	.1
1019.0	1356.0	336.5	18.730/ 8.000	71.2	86.3	LAMINAR	.1
1356.0	1528.0	172.0	12.250/ 8.000	237.2	116.7	TURBULENT	1.1

MUD HYDROSTATIC	8.59	lb/gal
FLOW CONTRIBUTION	.02	lb/gal
CUTTINGS CONTRIBUTION	.50	lb/gal
EQUIVALENT CIRCULATING DENSITY	9.11	lb/gal

SURFACE PRESSURE LOSS	71 psi	NOZZLE VELOCITY	450.2 ft/sec
PIPEBORE PRESSURE LOSS	331 psi	HYDRAULIC POWER	773.9 hp
ANNULAR PRESSURE LOSS	1 psi	JET IMPACT FORCE	1708.1 lbs
BIT PRESSURE LOSS	1592 psi	% OF PRESS LOSS AT BIT	80
TOTAL CALC. PRESS LOSS	1996 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 168 s.p.m.
1) Pipe Capacity	794	19	160	1.0
2) Pipe Displacement	1605	38	324	1.9
3) Total Annulus	17977	428	3624	21.6 <- LAG
4) Mud in active pits	10853	258	2188	13.0
Circulation (1) + (3)	18771	447	3785	22.5
Hole Volume (1)+(2)+(3)	20377	485	4108	24.5
Total Mud Circulation	29624	705	5973	35.6

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.370	5.000	4.276
18.730	6.370	5.000	4.276
18.730	6.375	5.000	3.000
18.730	8.000	8.000	2.875
12.250	8.000	8.000	2.875



EXLOG

329319

AMOCO AUST. Tilana No.1
Date : 11 Sep 85 Time : 04:33

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	8.00 cP
YIELD POINT	18.00 lb/cft^2
POWER LAW k	2.3886
POWER LAW n	.3870
DEPTH	3472.7 ft (1058.4m).
VERTICAL DEPTH	3472.6 ft
DEPTH OF RETURNS	3430.3 ft
CUTTINGS BULK DENSITY	2.30 spc grv
MUD DENSITY	8.80 lb/gal
ACTIVE SURFACE MUD VOLUME	378 bbl
FLOW RATE	764 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2400 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	15, 15, 18

CALCULATED RESULTS:

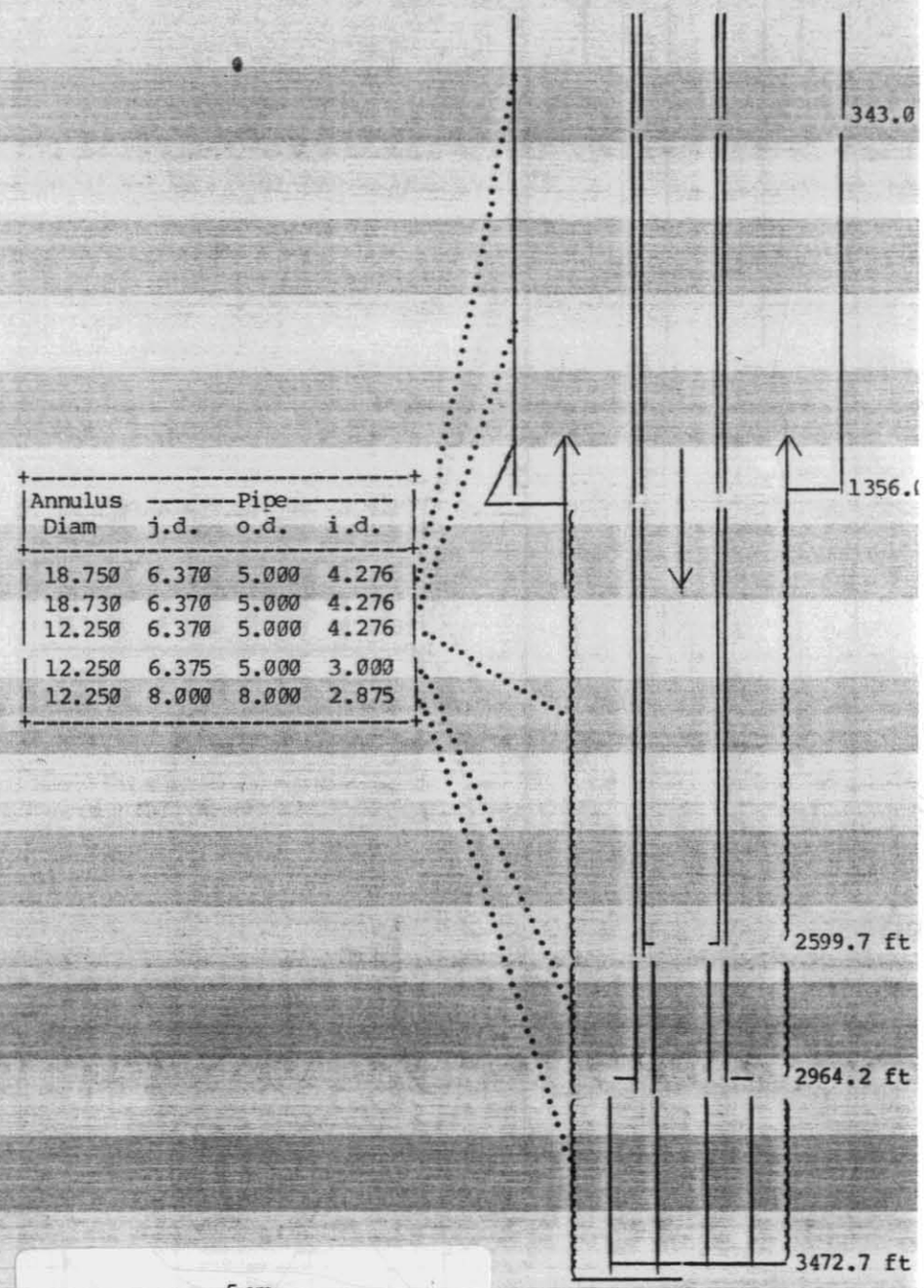
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	57.3	283.7	LAMINAR	.6
343.0	1356.0	1013.0	18.730/ 5.000	57.5	283.8	LAMINAR	1.7
1356.0	2599.7	1243.7	12.250/ 5.000	149.7	333.3	LAMINAR	7.4
2599.0	2964.2	364.5	12.250/ 5.000	149.7	333.3	LAMINAR	2.2
2964.0	3472.7	508.5	12.250/ 8.000	217.6	380.9	LAMINAR	7.2

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.370	5.000	4.276
18.730	6.370	5.000	4.276
12.250	6.370	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	8.69 lb/gal
FLOW CONTRIBUTION	.11 lb/gal
CUTTINGS CONTRIBUTION	.23 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.03 lb/gal

SURFACE PRESSURE LOSS	61 psi	NOZZLE VELOCITY	412.9 ft/sec
PIPEBORE PRESSURE LOSS	542 psi	HYDRAULIC POWER	597.1 hp
ANNULAR PRESSURE LOSS	19 psi	JET IMPACT FORCE	1436.8 lbs
BIT PRESSURE LOSS	1340 psi	% OF PRESS LOSS AT BIT	68
TOTAL CALC. PRESS LOSS	1962 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 154 s.p.m.
1) Pipe Capacity	2245	53	453	2.9
2) Pipe Displacement	2199	52	443	2.9
3) Total Annulus	27839	663	5613	36.4 <- LAG
4) Mud in active pits	15872	378	3200	20.8
Circulation (1) + (3)	30083	716	6065	39.4
Hole Volume (1)+(2)+(3)	32282	769	6509	42.3
Total Mud Circulation	45955	1094	9265	60.2
HOLE OUT OF GAUGE:				
CIRCULATI CORRECTION FACTOR =	1.0465			
Corrected nulus	29237	696	5894	38.3 <- LAG
Corrected Hole	33680	802	6790	44.1



AMOCO AUST. Tilana No.1
Date : 12 Sep 85 Time : 04

329320

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	8.00 cP
YIELD POINT	22.00 lb/cft^2
POWER LAW k	3.6614
POWER LAW n	.3410
DEPTH	4324.9 ft (1318.2 m)
VERTICAL DEPTH	4324.8 ft
DEPTH OF RETURNS	4296.8 ft
CUTTINGS BULK DENSITY	2.30 spc grv
MUD DENSITY	9.00 lb/gal
ACTIVE SURFACE MUD VOLUME	528 bbl
FLOW RATE	732 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2750 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	11, 13, 13, 13

CALCULATED RESULTS:

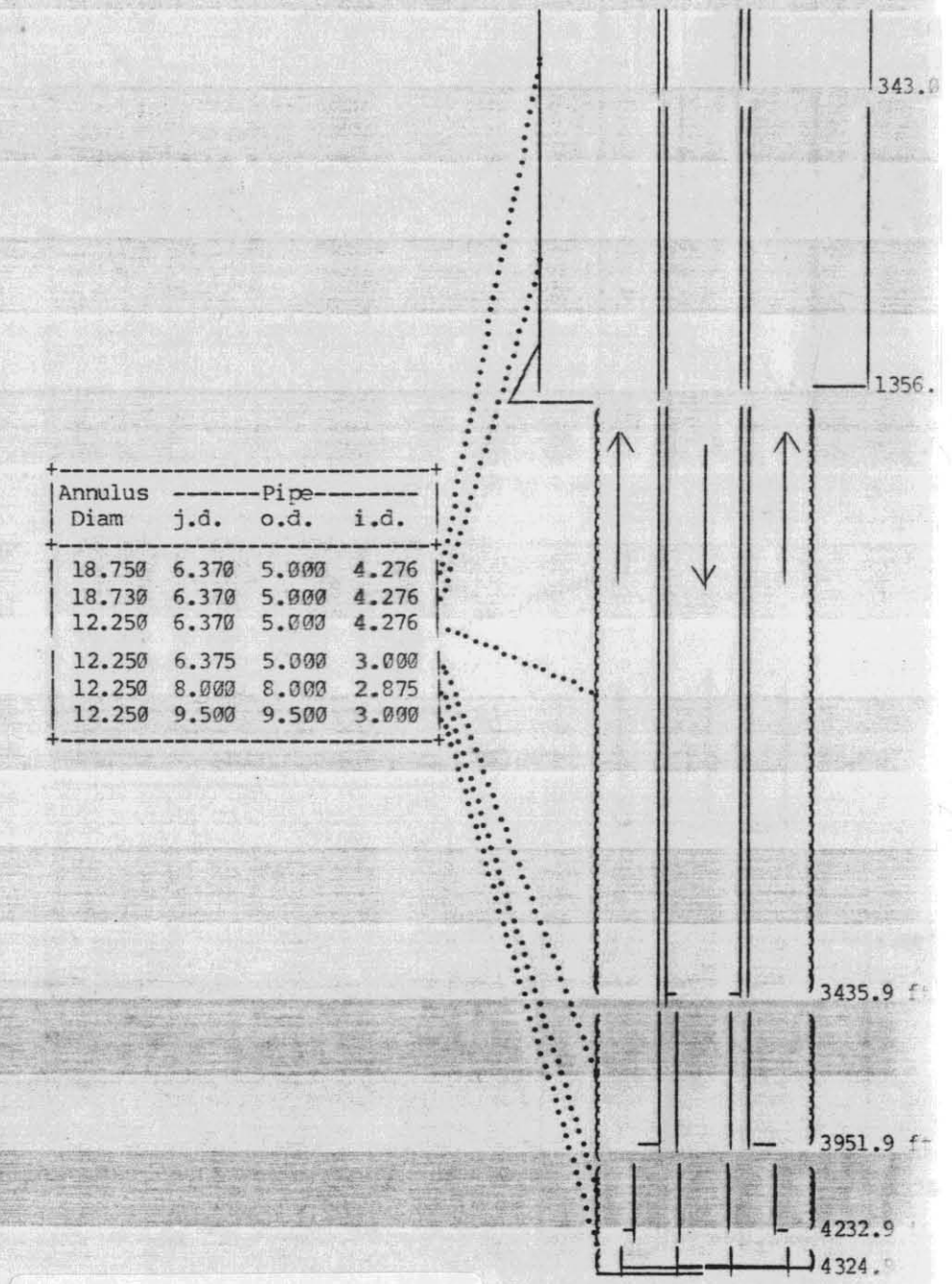
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	54.9	330.3	LAMINAR	.8
343.0	1356.0	1013.0	18.730/ 5.000	55.1	330.4	LAMINAR	2.3
1356.0	3435.9	2079.9	12.250/ 5.000	143.5	379.4	LAMINAR	15.6
3435.0	3951.9	516.0	12.250/ 5.000	143.5	379.4	LAMINAR	3.9
3951.0	4232.9	281.0	12.250/ 8.000	208.5	425.7	LAMINAR	4.9
4232.0	4324.9	92.0	12.250/ 9.500	300.0	466.0	LAMINAR	3.2

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.370	5.000	4.276
18.730	6.370	5.000	4.276
12.250	6.370	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875
12.250	9.500	9.500	3.000

MUD HYDROSTATIC	8.94 lb/gal
FLOW CONTRIBUTION	.14 lb/gal
CUTTINGS CONTRIBUTION	.12 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.20 lb/gal

SURFACE PRESSURE LOSS	57 psi	NOZZLE VELOCITY	487.6 ft/sec
PIPEBORE PRESSURE LOSS	541 psi	HYDRAULIC POWER	815.8 hp
ANNULAR PRESSURE LOSS	31 psi	JET IMPACT FORCE	1662.6 lbs
BIT PRESSURE LOSS	1910 psi	% OF PRESS LOSS AT BIT	75
TOTAL CALC. PRESS LOSS	2539 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 148 s.p.m.
1) Pipe Capacity	2881	69	581	3.9
2) Pipe Displacement	2346	56	473	3.2
3) Total Annulus	32273	768	6507	44.1 <- LAG
4) Mud in active pits	22168	528	4469	30.3
Circulation (1) + (3)	35154	837	7088	48.0
Hole Volume (1)+(2)+(3)	37500	893	7560	51.2
Total Mud Circulation	57322	1365	11557	78.3
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR =	1.0465			
Corrected Annulus	33907	807	6836	46.3 <- LAG
Corrected Hole	39133	932	7890	53.5



EXLOG

AMOCO AUST. Tilana No.1
Date : 13 Sep 85 Time : 04:49

329321

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	8.00 cP
YIELD POINT	32.00 lb/cft^2
POWER LAW k	7.9053
POWER LAW n	.2630
DEPTH	5203.1 ft (1585.8m).
VERTICAL DEPTH	5203.0 ft
DEPTH OF RETURNS	5149.8 ft
CUTTINGS BULK DENSITY	2.30 spc grv
MUD DENSITY	9.10 lb/gal
ACTIVE SURFACE MUD VOLUME	463 bbl
FLOW RATE	703 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2720 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	11, 13, 13, 13

CALCULATED RESULTS:

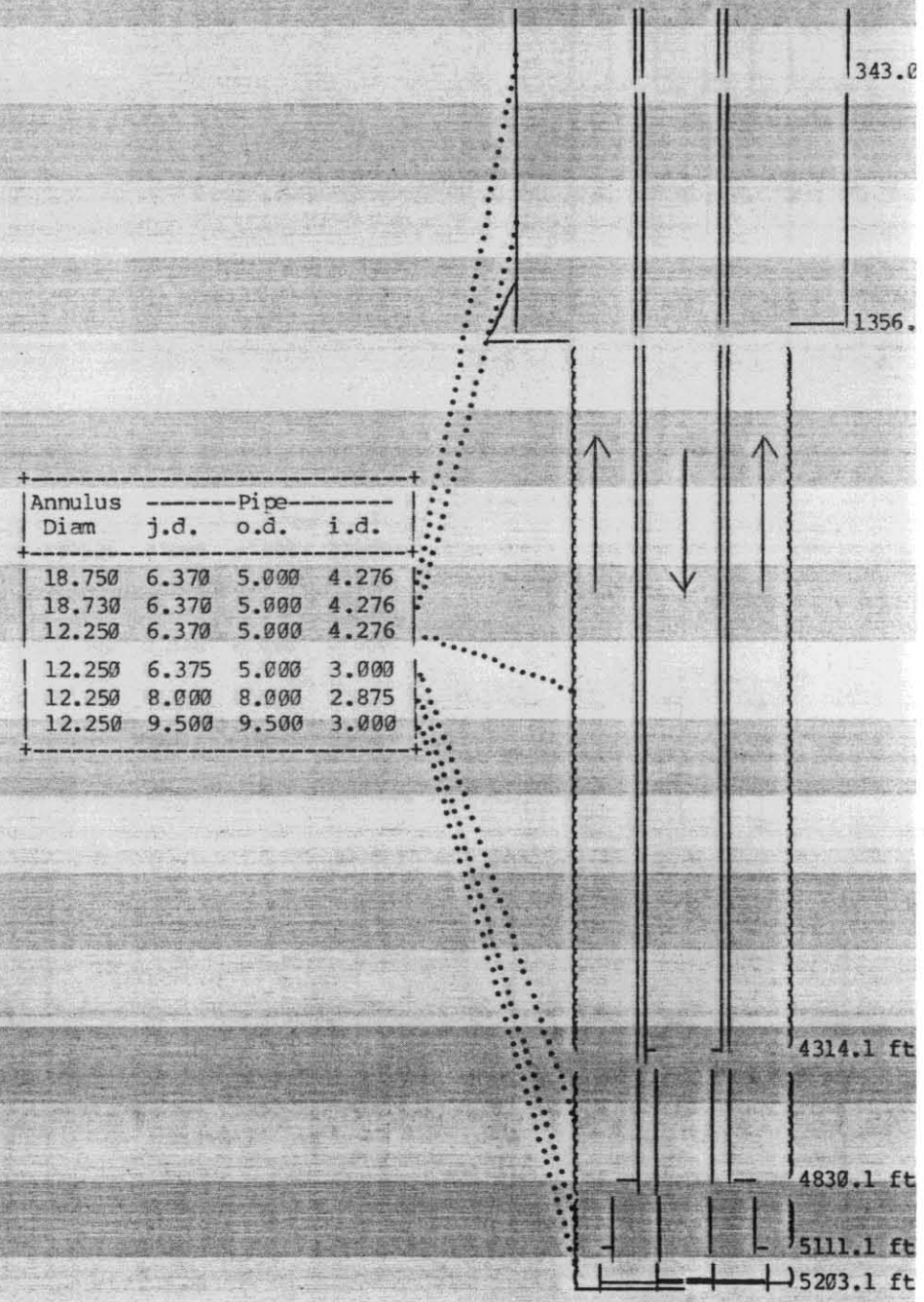
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	52.8	436.2	LAMINAR	1.4
343.0	1356.0	1013.0	18.730/ 5.000	52.9	436.3	LAMINAR	4.1
1356.0	4314.1	2958.1	12.250/ 5.000	137.8	483.5	LAMINAR	35.2
4314.0	4830.1	516.0	12.250/ 5.000	137.8	483.5	LAMINAR	6.1
4830.0	5111.1	281.0	12.250/ 8.000	200.2	526.7	LAMINAR	7.2
5111.0	5203.1	92.0	12.250/ 9.500	288.1	563.2	LAMINAR	4.5

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.370	5.000	4.276
18.730	6.370	5.000	4.276
12.250	6.370	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875
12.250	9.500	9.500	3.000

MUD HYDROSTATIC	9.01 lb/gal
FLOW CONTRIBUTION	.22 lb/gal
CUTTINGS CONTRIBUTION	.20 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.42 lb/gal

SURFACE PRESSURE LOSS	54 psi	NOZZLE VELOCITY	468.3 ft/sec
PIPEBORE PRESSURE LOSS	518 psi	HYDRAULIC POWER	730.7 hp
ANNULAR PRESSURE LOSS	59 psi	JET IMPACT FORCE	1550.5 lbs
BIT PRESSURE LOSS	1782 psi	% OF PRESS LOSS AT BIT	74
TOTAL CALC. PRESS LOSS	2412 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 142 s.p.m.
1) Pipe Capacity	3536	84	713	5.0
2) Pipe Displacement	2614	62	527	3.7
3) Total Annulus	36726	874	7405	52.2 <- LAG
4) Mud in active pits	19450	463	3921	27.7
Circulation (1) + (3)	40263	959	8117	57.3
Hole Volume (1)+(2)+(3)	42876	1021	8644	61.0
Total Mud Circulation	59713	1422	12039	84.9
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0392				
Corrected Annulus	38305	912	7723	54.5 <- LAG
Corrected Hole	44454	1058	8963	63.2



AMOCO AUST. Tilana No.1
Date : 14 Sep 85 Time : 01:

329322

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	8.00	cP
YIELD POINT	32.00	lb/cft^2
POWER LAW k	7.9053	
POWER LAW n	.2630	
DEPTH	5451.9	ft (1661.7 m).
VERTICAL DEPTH	5451.8	ft
DEPTH OF RETURNS	5442.0	ft
CUTTINGS BULK DENSITY	2.30	spc grv
MUD DENSITY	9.10	lb/gal
ACTIVE SURFACE MUD VOLUME	495	bbl
FLOW RATE	697	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2660	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	11, 13, 13, 13	

CALCULATED RESULTS:

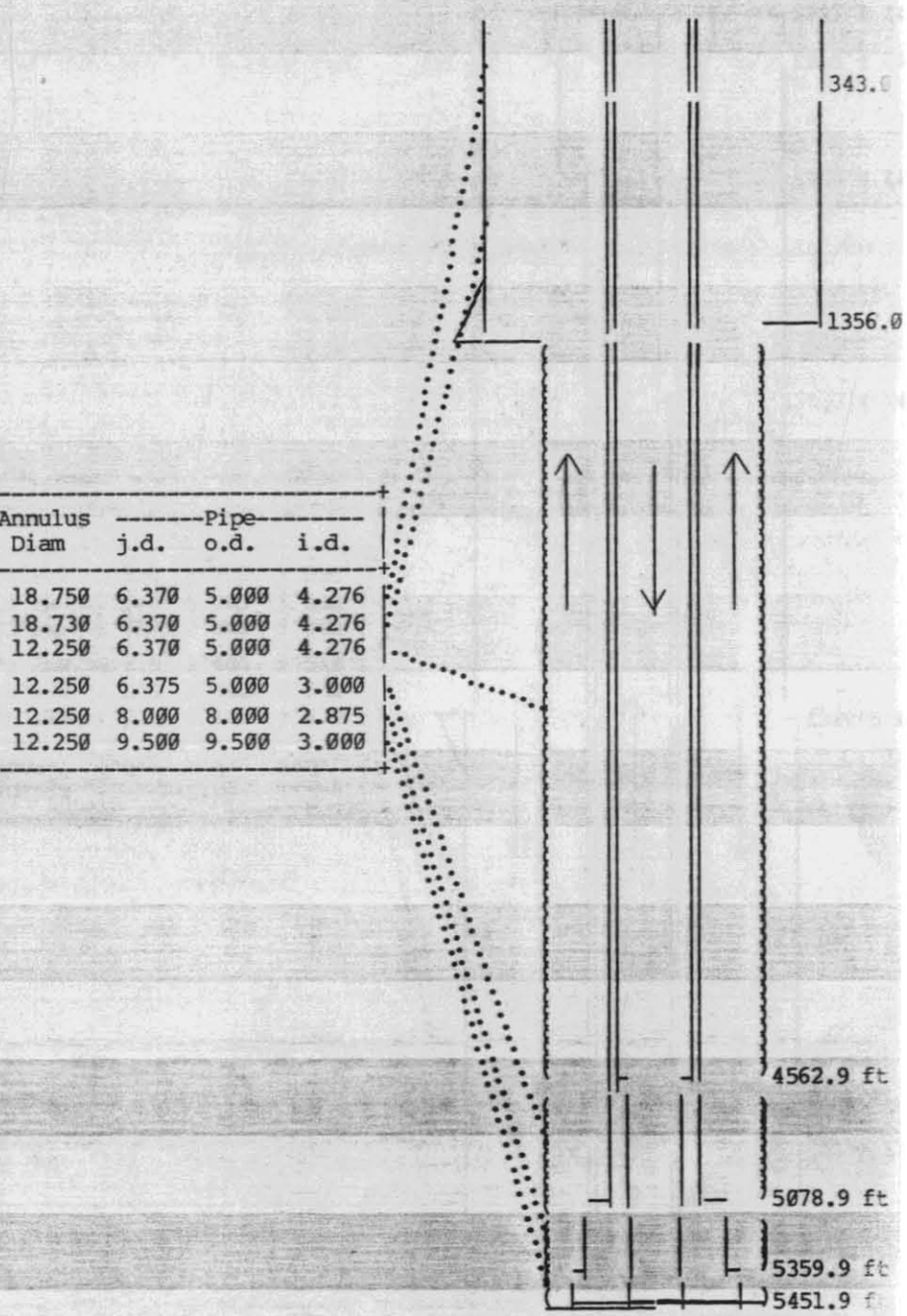
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	52.3	436.2	LAMINAR	1.4
343.0	1356.0	1013.0	18.730/ 5.000	52.4	436.3	LAMINAR	4.1
1356.0	4562.9	3206.9	12.250/ 5.000	136.6	483.5	LAMINAR	38.1
4562.0	5078.9	516.0	12.250/ 5.000	136.6	483.5	LAMINAR	6.1
5078.0	5359.9	281.0	12.250/ 8.000	198.5	526.7	LAMINAR	7.2
5359.0	5451.9	92.0	12.250/ 9.500	285.7	563.2	LAMINAR	4.5

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.370	5.000	4.276
18.730	6.370	5.000	4.276
12.250	6.370	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875
12.250	9.500	9.500	3.000

MUD HYDROSTATIC	9.08	lb/gal	
FLOW CONTRIBUTION	.22	lb/gal	
CUTTINGS CONTRIBUTION	.03	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.34	lb/gal	

SURFACE PRESSURE LOSS	53 psi	NOZZLE VELOCITY	464.4 ft/sec
PIPEBORE PRESSURE LOSS	528 psi	HYDRAULIC POWER	712.7 hp
ANNULAR PRESSURE LOSS	61 psi	JET IMPACT FORCE	1524.9 lbs
BIT PRESSURE LOSS	1752 psi	% OF PRESS LOSS AT BIT	73
TOTAL CALC. PRESS LOSS	2394 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 141 s.p.m.	
1) Pipe Capacity	3722	89	750	5.3	
2) Pipe Displacement	2690	64	542	3.9	
3) Total Annulus	37988	904	7659	54.5	<- LAG
4) Mud in active pits	20790	495	4192	29.8	
Circulation (1) + (3)	41710	993	8409	59.8	
Hole Volume (1)+(2)+(3)	44399	1057	8951	63.7	
Total Mud Circulation	62500	1488	12601	89.6	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0392				
Corrected Annulus	39623	943	7989	56.8	<- LAG
Corrected Hole	46034	1096	9281	66.0	



NB 5 OPEN HOLE TO 17½"

EXLOG

AMOCO AUST. Tilana No.1
Date : 15 Sep 85 Time : 04:55

329323

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	10.00	cP
YIELD POINT	16.00	lb/cft^2
POWER LAW k	1.4354	
POWER LAW n	.4695	
DEPTH	2982.4	ft (909.0m).
VERTICAL DEPTH	2982.3	ft
DEPTH OF RETURNS	2810.8	ft
CUTTINGS BULK DENSITY	2.40	spc grv
MUD DENSITY	9.20	lb/gal
ACTIVE SURFACE MUD VOLUME	450	bbl
FLOW RATE	744	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2030	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	18, 18, 18, 11	

CALCULATED RESULTS:

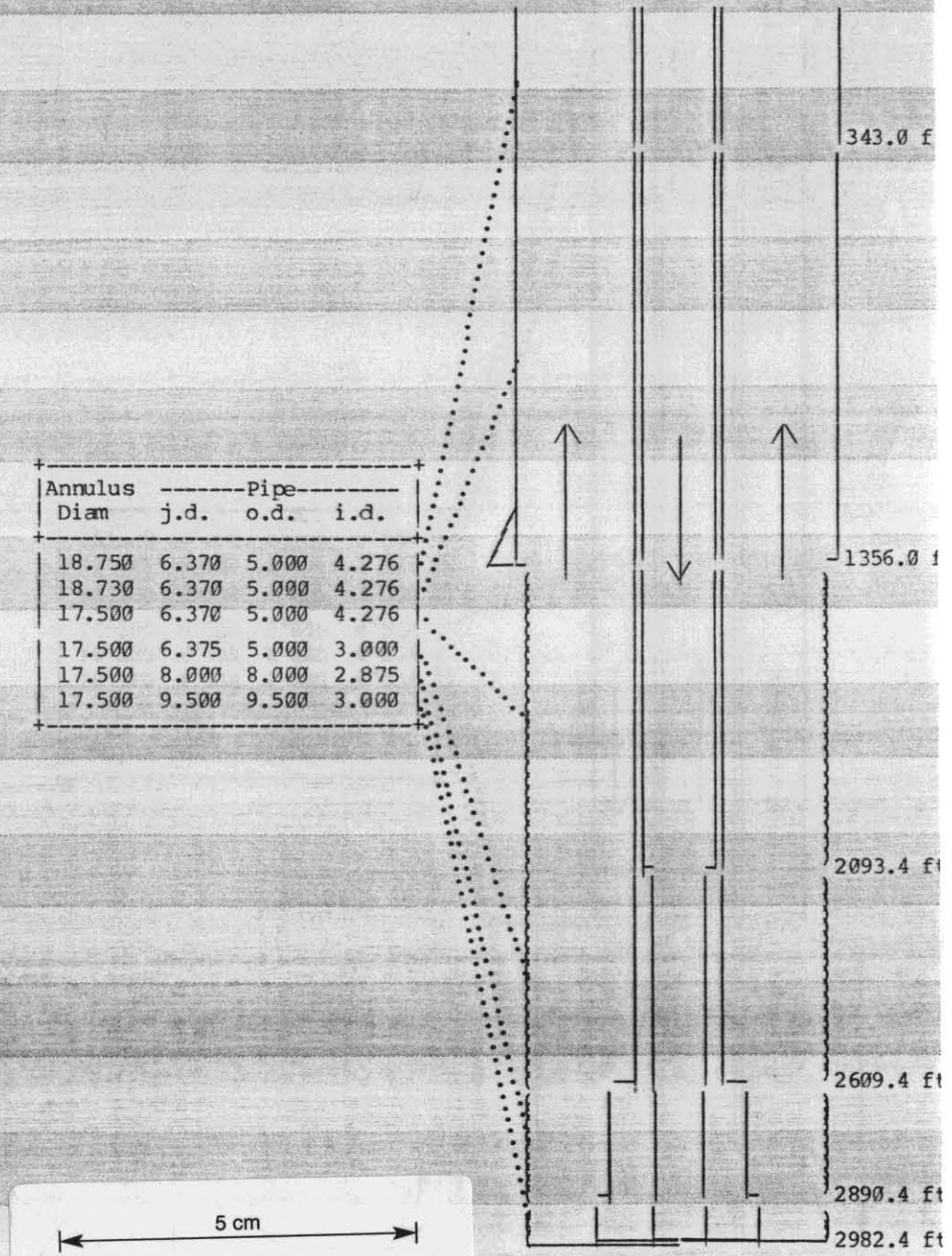
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	55.8	235.4	LAMINAR	.4
343.0	1356.0	1013.0	18.730/ 5.000	56.0	235.5	LAMINAR	1.2
1356.0	2093.4	737.4	17.500/ 5.000	64.8	242.7	LAMINAR	1.1
2093.0	2609.4	516.0	17.500/ 5.000	64.8	242.7	LAMINAR	.7
2609.0	2890.4	281.0	17.500/ 8.000	75.3	266.3	LAMINAR	.7
2890.0	2982.4	92.0	17.500/ 9.500	84.4	281.4	LAMINAR	.3

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.370	5.000	4.276
18.730	6.370	5.000	4.276
17.500	6.370	5.000	4.276
17.500	6.375	5.000	3.000
17.500	8.000	8.000	2.875
17.500	9.500	9.500	3.000

MUD HYDROSTATIC	8.67 lb/gal
FLOW CONTRIBUTION	.03 lb/gal
CUTTINGS CONTRIBUTION	1.15 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.85 lb/gal

SURFACE PRESSURE LOSS	61 psi	NOZZLE VELOCITY	284.7 ft/sec
PIPEBORE PRESSURE LOSS	571 psi	HYDRAULIC POWER	289.0 hp
ANNULAR PRESSURE LOSS	4 psi	JET IMPACT FORCE	1008.6 lbs
BIT PRESSURE LOSS	666 psi	% OF PRESS LOSS AT BIT	51
TOTAL CALC. PRESS LOSS	1301 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 150 s.p.m.
1) Pipe Capacity	1880	45	379	2.5
2) Pipe Displacement	1936	46	390	2.6
3) Total Annulus	35829	853	7224	48.2 <- LAG
4) Mud in active pits	18917	450	3814	25.4
Circulation (1) + (3)	37708	898	7602	50.7
Hole Volume (1)+(2)+(3)	39644	944	7993	53.3
Total Mud Circulation	56625	1348	11416	76.1



AMOCO AUST. Tilana No.1
Date : 22 Sep 85 Time : 05:

329324

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	20.00	cP
YIELD POINT	13.00	lb/cft^2
POWER LAW k	.4360	
POWER LAW n	.6835	
DEPTH	5312.0	ft (1619.0m).
VERTICAL DEPTH	5312.0	ft
DEPTH OF RETURNS	5312.0	ft
CUTTINGS BULK DENSITY	2.10	spc grv
MUD DENSITY	8.90	lb/gal
ACTIVE SURFACE MUD VOLUME	343	bbl
FLOW RATE	332	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	1610	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	32, 32, 32	

CALCULATED RESULTS:

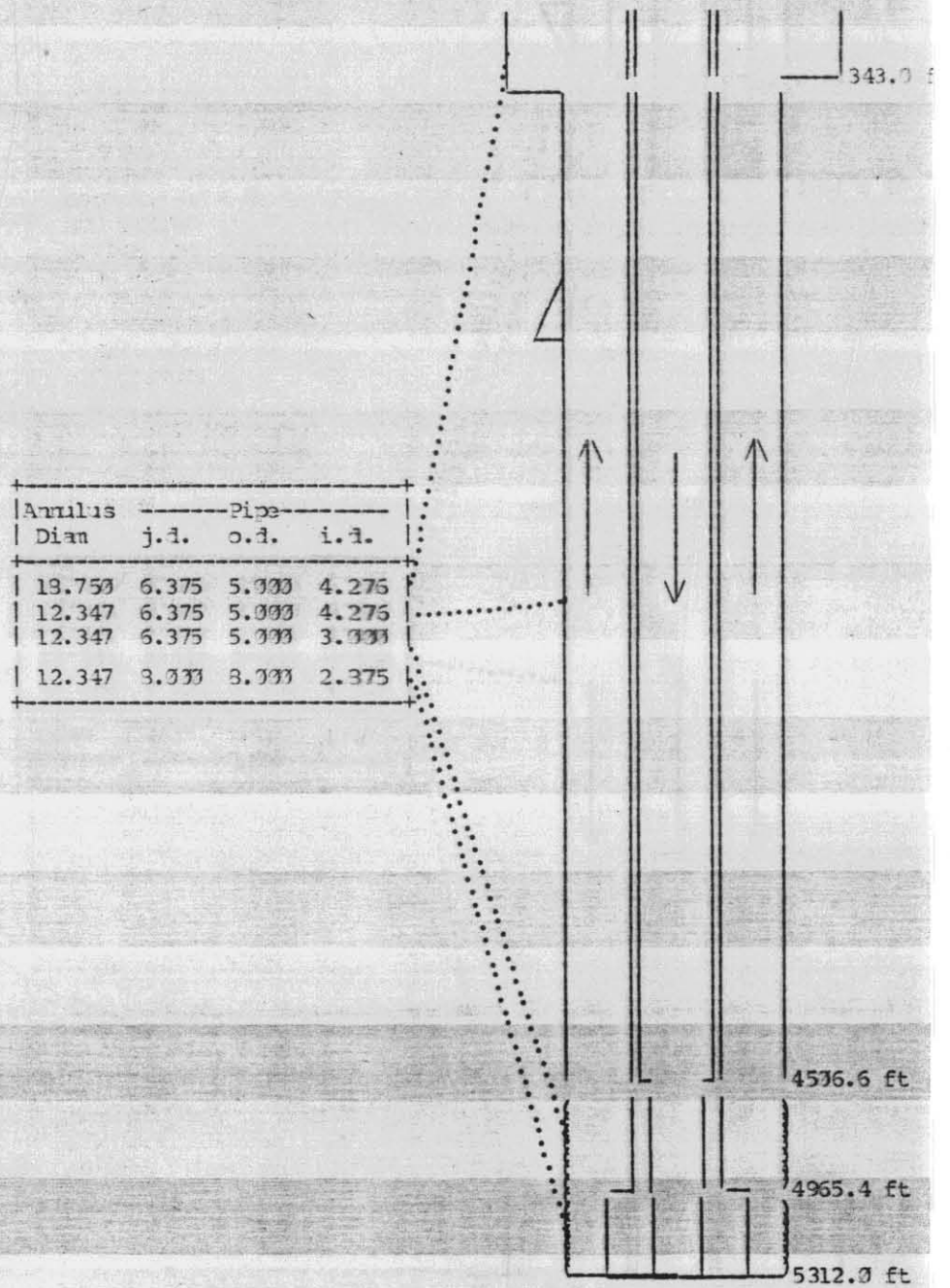
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	60.2	171.4	LAMINAR	.2
343.0	4536.6	4163.6	12.347/ 5.000	154.2	239.9	LAMINAR	15.0
4536.0	4965.4	458.8	12.347/ 5.000	154.2	239.9	LAMINAR	1.7
4965.0	5312.0	346.6	12.347/ 8.000	222.2	317.3	LAMINAR	3.8

Annulus Diam	Pipe o.d.	Pipe i.d.	
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.347	6.375	5.000	3.000
12.347	8.000	8.000	2.375

MUD HYDROSTATIC	8.90	lb/gal	
FLOW CONTRIBUTION	.08	lb/gal	
CUTTINGS CONTRIBUTION	0.00	lb/gal	
EQUIVALENT CIRCULATING DENSITY	8.98	lb/gal	

SURFACE PRESSURE LOSS	67 psi	NOZZLE VELOCITY	109.2 ft/sec
PIPEBORE PRESSURE LOSS	1195 psi	HYDRAULIC POWER	44.3 hp
ANNULAR PRESSURE LOSS	21 psi	JET IMPACT FORCE	403.2 lbs
BIT PRESSURE LOSS	95 psi	% OF PRESS LOSS AT BIT	7
TOTAL CALC. PRESS LOSS	1378 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 162 s.p.m.
1) Pipe Capacity	3647	87	735	4.5
2) Pipe Displacement	2478	59	500	3.1
3) Total Annulus	29615	735	5971	36.9 <- LAG
4) Mud in active pits	14339	343	2901	17.9
Circulation (1) + (3)	33262	792	6706	41.5
Hole Volume (1)+(2)+(3)	35740	851	7206	44.6
Total Mud Circulation	47651	1135	9607	59.4



EXLOG

329325

AMOCO AUST. Tilana No.1
Date : 22 Sep 85 Time : 20:47

RRB#7 5452-5460'.

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	20.00	cP
YIELD POINT	13.00	lb/cft^2
POWER LAW k	.4860	
POWER LAW n	.6835	
DEPTH	5460.0	ft (1664.1m)
VERTICAL DEPTH	5459.5	ft
DEPTH OF RETURNS	5460.0	ft
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	8.90	lb/gal
ACTIVE SURFACE MUD VOLUME	470	bbl
FLOW RATE	815	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	1800	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	32, 32, 32	

CALCULATED RESULTS:

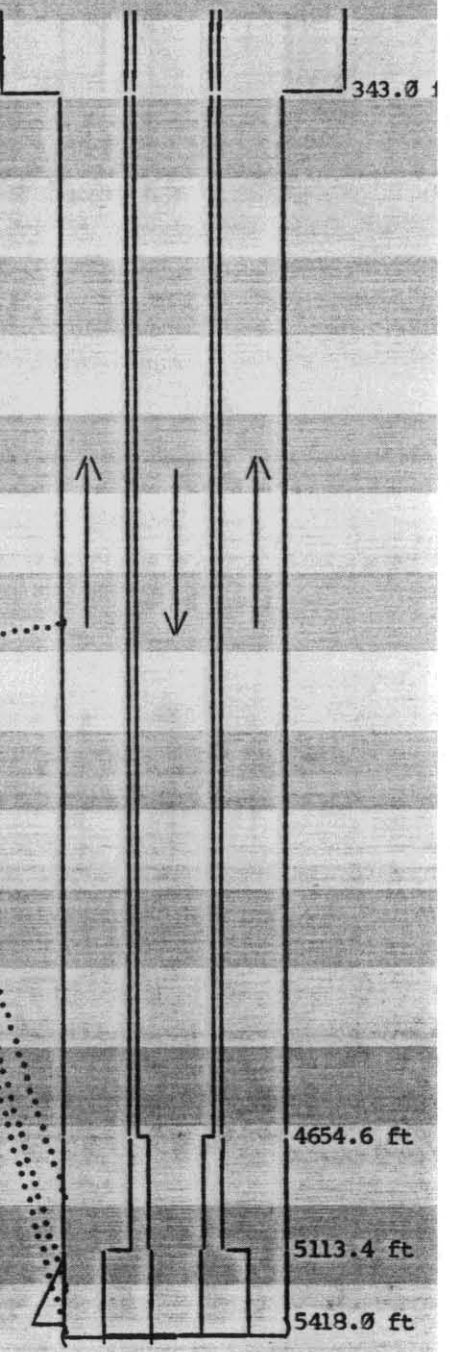
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	61.2	171.4	LAMINAR	.2
343.0	4654.6	4311.6	12.347/ 5.000	156.7	239.9	LAMINAR	15.7
4654.0	5113.4	458.8	12.347/ 5.000	156.7	239.9	LAMINAR	1.7
5113.0	5418.0	304.6	12.347/ 8.000	225.8	317.3	LAMINAR	3.4
5418.0	5460.0	42.0	12.250/ 8.000	232.1	321.0	LAMINAR	.5

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.347	6.375	5.000	3.000
12.347	8.000	8.000	2.875
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	8.90	lb/gal	
FLOW CONTRIBUTION	.08	lb/gal	
CUTTINGS CONTRIBUTION	0.00	lb/gal	
EQUIVALENT CIRCULATING DENSITY	8.98	lb/gal	

SURFACE PRESSURE LOSS	72 psi	NOZZLE VELOCITY	111.0 ft/sec
PIPEBORE PRESSURE LOSS	1248 psi	HYDRAULIC POWER	46.5 hp
ANNULAR PRESSURE LOSS	21 psi	JET IMPACT FORCE	416.6 lbs
BIT PRESSURE LOSS	98 psi	% OF PRESS LOSS AT BIT	7
TOTAL CALC. PRESS LOSS	1439 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 164 s.p.m.
1) Pipe Capacity	3757	89	758	4.6
2) Pipe Displacement	2523	60	509	3.1
3) Total Annulus	30173	718	6083	37.0 <- LAG
4) Mud in active pits	19740	470	3980	24.2
Circulation (1) + (3)	33930	808	6841	41.6
Hole Volume (1)+(2)+(3)	36454	868	7350	44.7
Total Mud Circulation	53670	1278	10821	65.9



AMOCO AUST. Tilana No.1
Date : 23 Sep 85 Time : 13:21

CORE #1 5461- 5[illegible]9 ft.

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	14.00 cP
YIELD POINT	12.00 lb/cft^2
POWER LAW k	.5616
POWER LAW n	.6215
DEPTH	5519.0 ft (1682.1m)
VERTICAL DEPTH	5519.0 ft
DEPTH OF RETURNS	5461.0 ft
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	8.90 lb/gal
ACTIVE SURFACE MUD VOLUME	360 bbl
FLOW RATE	220 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	400 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	19, 19, 19

CALCULATED RESULTS:

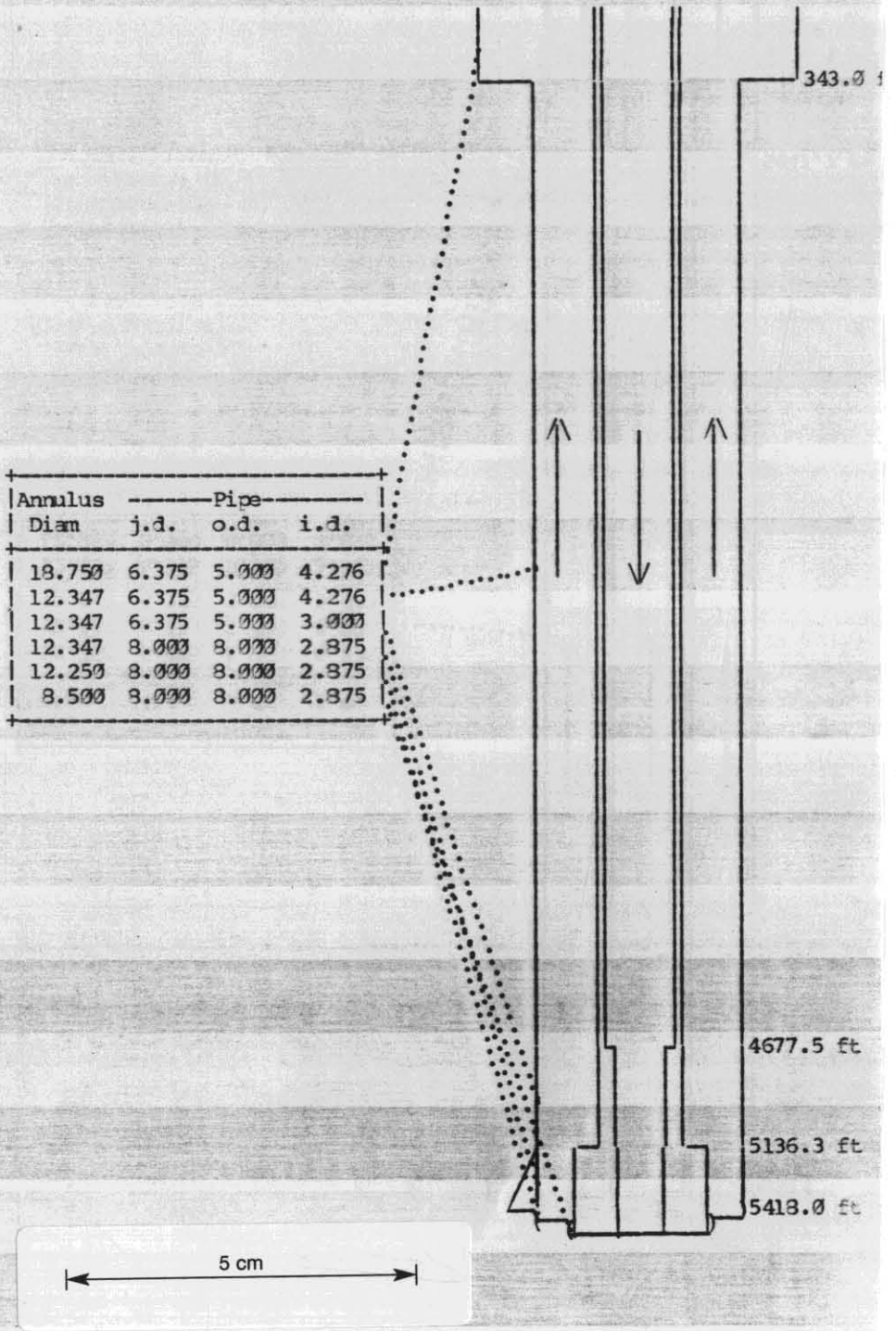
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	16.5	169.4	LAMINAR	.1
343.0	4677.5	4334.5	12.347/ 5.000	42.3	227.0	LAMINAR	6.4
4677.0	5136.3	458.8	12.347/ 5.000	42.3	227.0	LAMINAR	.7
5136.0	5418.0	281.7	12.347/ 8.000	61.0	289.5	LAMINAR	1.2
5418.0	5461.0	43.0	12.250/ 8.000	62.7	292.5	LAMINAR	.2
5461.0	5519.0	58.0	8.500/ 8.000	653.6	768.8	LAMINAR	36.4

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.347	6.375	5.000	3.000
12.347	8.000	8.000	2.875
12.250	8.000	8.000	2.875
8.500	8.000	8.000	2.875

MUD HYDROSTATIC	8.81 lb/gal
FLOW CONTRIBUTION	.16 lb/gal
CUTTINGS CONTRIBUTION	.22 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.18 lb/gal

SURFACE PRESSURE LOSS	6 psi	NOZZLE VELOCITY	88.2 ft/sec
PIPEBORE PRESSURE LOSS	134 psi	HYDRAULIC POWER	7.9 hp
ANNULAR PRESSURE LOSS	45 psi	JET IMPACT FORCE	89.4 lbs
BIT PRESSURE LOSS	62 psi	% OF PRESS LOSS AT BIT	25
TOTAL CALC. PRESS LOSS	247 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 44 s.p.m.
1) Pipe Capacity	3787	90	763	17.2
2) Pipe Displacement	2612	62	527	11.9
3) Total Annulus	30232	720	6095	137.4 <- LAG
4) Mud in active pits	15120	360	3048	68.7
Circulation (1) + (3)	34018	810	6859	154.6
Hole Volume (1)+(2)+(3)	36631	872	7385	166.5
Total Mud Circulation	49138	1170	9907	223.4



EXLOG

AMOCO AUST. Tilana No.1
Date : 24 Sep 85 Time : 04:36

329327

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	14.00 cP
YIELD POINT	12.00 lb/cft^2
POWER LAW k	.5616
POWER LAW n	.6215
DEPTH	5833.7 ft (1778.0m)
VERTICAL DEPTH	5833.6 ft
DEPTH OF RETURNS	5779.0 ft
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	9.00 lb/gal
ACTIVE SURFACE MUD VOLUME	313 bbl
FLOW RATE	618 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2350 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	15, 15, 15

CALCULATED RESULTS:

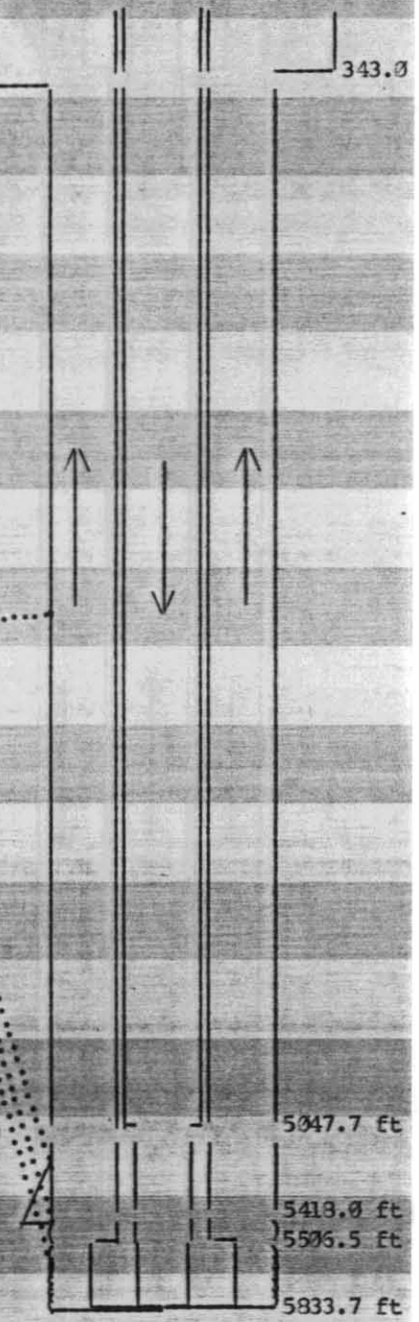
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	46.4	168.0	LAMINAR	.2
343.0	5047.7	4704.7	12.347/ 5.000	118.3	225.0	LAMINAR	13.3
5047.0	5418.0	370.3	12.347/ 5.000	118.3	225.0	LAMINAR	1.0
5418.0	5506.5	88.5	12.250/ 5.000	121.1	226.4	LAMINAR	.3
5506.0	5833.7	327.2	12.250/ 3.000	176.0	290.0	LAMINAR	2.8

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.347	6.375	5.000	3.000
12.250	6.375	5.000	3.000
12.250	3.000	3.000	2.875

MUD HYDROSTATIC	8.92 lb/gal
FLOW CONTRIBUTION	.06 lb/gal
CUTTINGS CONTRIBUTION	.20 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.17 lb/gal

SURFACE PRESSURE LOSS	43 psi	NOZZLE VELOCITY	383.0 ft/sec
PIPEBORE PRESSURE LOSS	722 psi	HYDRAULIC POWER	425.2 hp
ANNULAR PRESSURE LOSS	18 psi	JET IMPACT FORCE	1103.1 lbs
BIT PRESSURE LOSS	1179 psi	% OF PRESS LOSS AT BIT	60
TOTAL CALC. PRESS LOSS	1962 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 125 s.p.m.
1) Pipe Capacity	4044	96	815	6.5
2) Pipe Displacement	2599	62	524	4.2
3) Total Annulus	32098	764	6471	51.9 <- LAG
4) Mud in active pits	13159	313	2653	21.3
Circulation (1) + (3)	36142	861	7287	58.5
Hole Volume (1)+(2)+(3)	38741	922	7811	62.7
Total Mud Circulation	49301	1174	9940	79.8



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EXLOG

AMOCO AUST. Tilana No.1
Date : 25 Sep 85 Time : 04:25

329328

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	16.00	cP
YIELD POINT	12.00	lb/cft^2
POWER LAW k	.5007	
POWER LAW n	.6521	
DEPTH	6410.5	ft (1953.8m)
VERTICAL DEPTH	6410.2	ft
DEPTH OF RETURNS	6356.2	ft
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.04	lb/gal
ACTIVE SURFACE MUD VOLUME	371	bbl
FLOW RATE	614	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2210	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	15, 15, 15	

CALCULATED RESULTS:

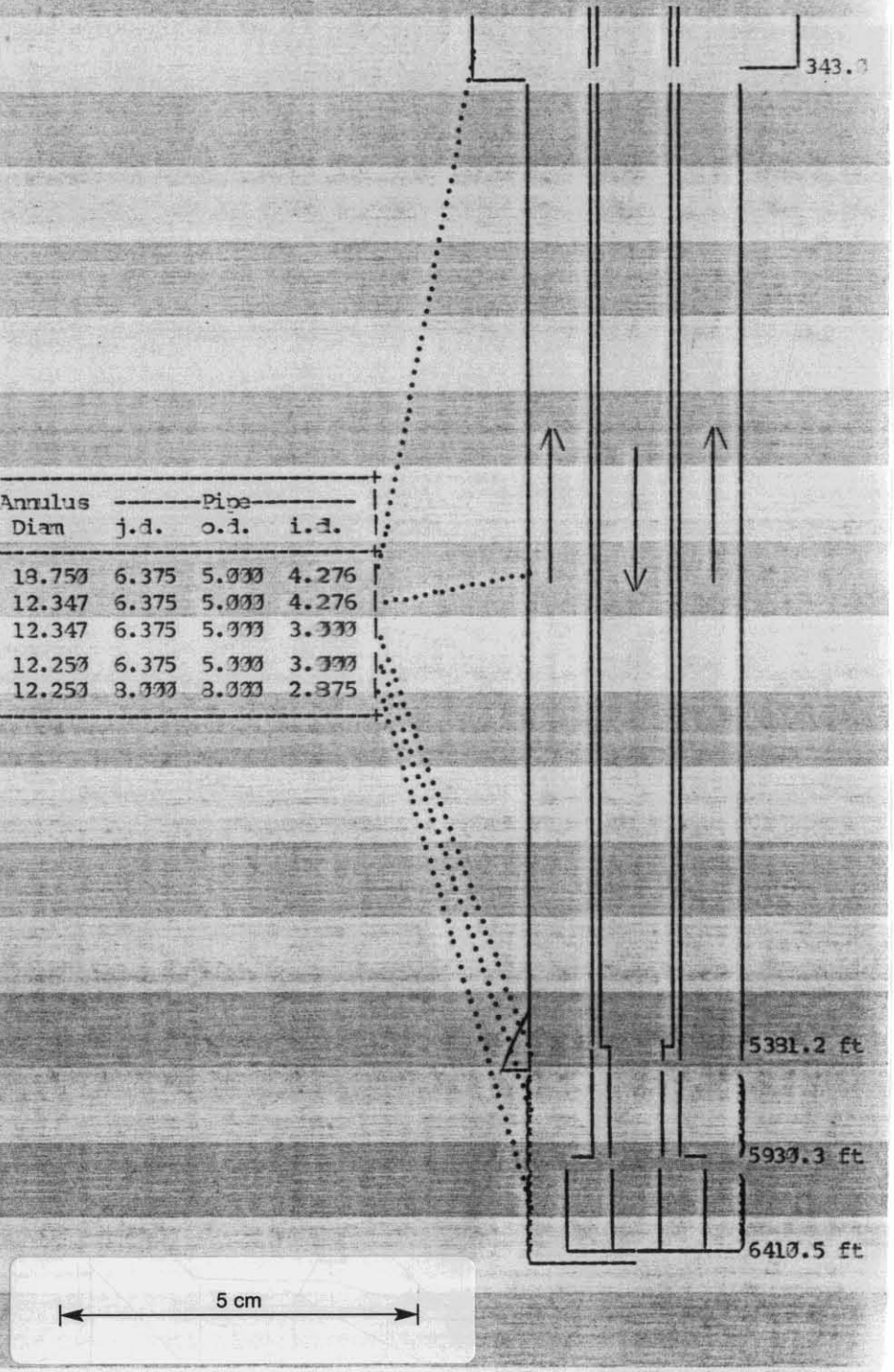
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	46.1	163.1	LAMINAR	.2
343.0	5381.2	5038.2	12.347/ 5.000	118.0	223.1	LAMINAR	14.0
5381.0	5418.0	36.8	12.347/ 5.000	118.0	223.1	LAMINAR	.1
5418.0	5930.3	512.3	12.250/ 5.000	120.3	224.6	LAMINAR	1.5
5930.0	6410.5	480.2	12.250/ 8.000	174.8	292.8	LAMINAR	4.2

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.347	6.375	5.000	3.000
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	8.96	lb/gal	
FLOW CONTRIBUTION	.06	lb/gal	
CUTTINGS CONTRIBUTION	.13	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.20	lb/gal	

SURFACE PRESSURE LOSS	43 psi	NOZZLE VELOCITY	380.4 ft/sec
PIPEBORE PRESSURE LOSS	893 psi	HYDRAULIC POWER	418.3 hp
ANNULAR PRESSURE LOSS	20 psi	JET IMPACT FORCE	1092.5 lbs
BIT PRESSURE LOSS	1163 psi	% OF PRESS LOSS AT BIT	55
TOTAL CALC. PRESS LOSS	2124 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 124 s.p.m.
1) Pipe Capacity	4378	104	883	7.1
2) Pipe Displacement	3110	74	627	5.1
3) Total Annulus	34784	828	7013	56.7 <- LAG
4) Mud in active pits	15595	371	3144	25.4
Circulation (1) + (3)	39162	932	7896	63.8
Hole Volume (1)+(2)+(3)	42273	1006	8523	68.9
Total Mud Circulation	54757	1304	11040	89.2
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0214				
Corrected Annulus	35622	848	7182	58.0 <- LAG
Corrected Hole	43110	1026	9691	78.2



EXLOG

AMOCO AUST. Tilana No.1
Date : 26 Sep 85 Time : 04:33

329329

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	16.00 cP
YIELD POINT	13.00 lb/cft^2
POWER LAW k	.3637
POWER LAW n	.6919
DEPTH	6735.4 ft (2052.9m)
VERTICAL DEPTH	6735.3 ft
DEPTH OF RETURNS	6725.5 ft
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	9.00 lb/gal
ACTIVE SURFACE MUD VOLUME	231 bbl
FLOW RATE	618 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2300 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	15, 15, 15

CALCULATED RESULTS:

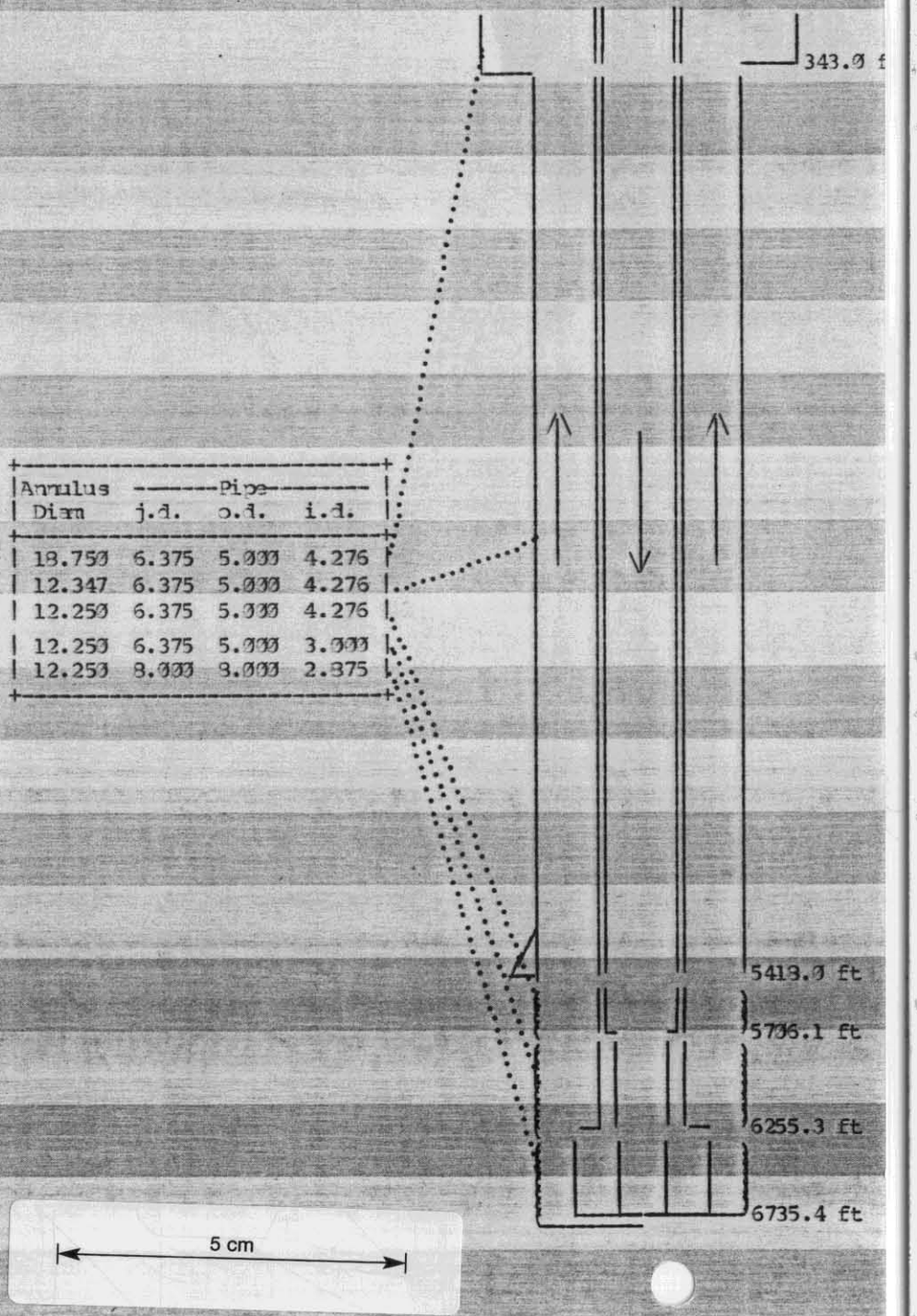
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	46.4	138.4	LAMINAR	.1
343.0	5418.0	5075.0	12.347/ 5.000	118.8	194.9	LAMINAR	11.8
5418.0	5706.1	288.1	12.250/ 5.000	121.1	196.3	LAMINAR	.7
5706.0	6255.3	549.1	12.250/ 5.000	121.1	196.3	LAMINAR	1.3
6255.0	6735.4	480.1	12.250/ 8.000	176.0	262.2	LAMINAR	3.6

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.375

MUD HYDROSTATIC	8.99 lb/gal
FLOW CONTRIBUTION	.05 lb/gal
CUTTINGS CONTRIBUTION	.03 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.07 lb/gal

SURFACE PRESSURE LOSS	43 psi	NOZZLE VELOCITY	332.9 ft/sec
PIPEBORE PRESSURE LOSS	948 psi	HYDRAULIC POWER	424.7 hp
ANNULAR PRESSURE LOSS	13 psi	JET IMPACT FORCE	1102.1 lbs
BIT PRESSURE LOSS	1178 psi	% OF PRESS LOSS AT BIT	54
TOTAL CALC. PRESS LOSS	2187 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 125 s.p.m.
1) Pipe Capacity	4620	110	931	7.5
2) Pipe Displacement	3210	76	647	5.2
3) Total Annulus	36432	867	7345	59.0 <- LAG
4) Mud in active pits	11802	281	2379	19.1
Circulation (1) + (3)	41052	977	8277	66.4
Hole Volume (1)+(2)+(3)	44262	1054	8924	71.6
Total Mid Circulation	52854	1258	10656	85.5
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0250				
Corrected Annulus	37450	892	7552	60.6 <- LAG
Corrected Hole	45289	1078	9131	73.3



EXLOG

AMOCO AUST. Tilana No.1
Date : 27 Sep 85 Time : 04:

329330

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	21.00 cP
YIELD POINT	15.00 lb/cft^2
POWER LAW k	.6019
POWER LAW n	.6630
DEPTH	7050.4 ft (2151.9m)
VERTICAL DEPTH	7060.2 ft
DEPTH OF RETURNS	7048.1 ft
CUTTINGS BULK DENSITY	2.60 spc grv
MUD DENSITY	9.12 lb/gal
ACTIVE SURFACE MUD VOLUME	356 bbl
FLOW RATE	613 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2370 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	15, 15, 15

CALCULATED RESULTS:

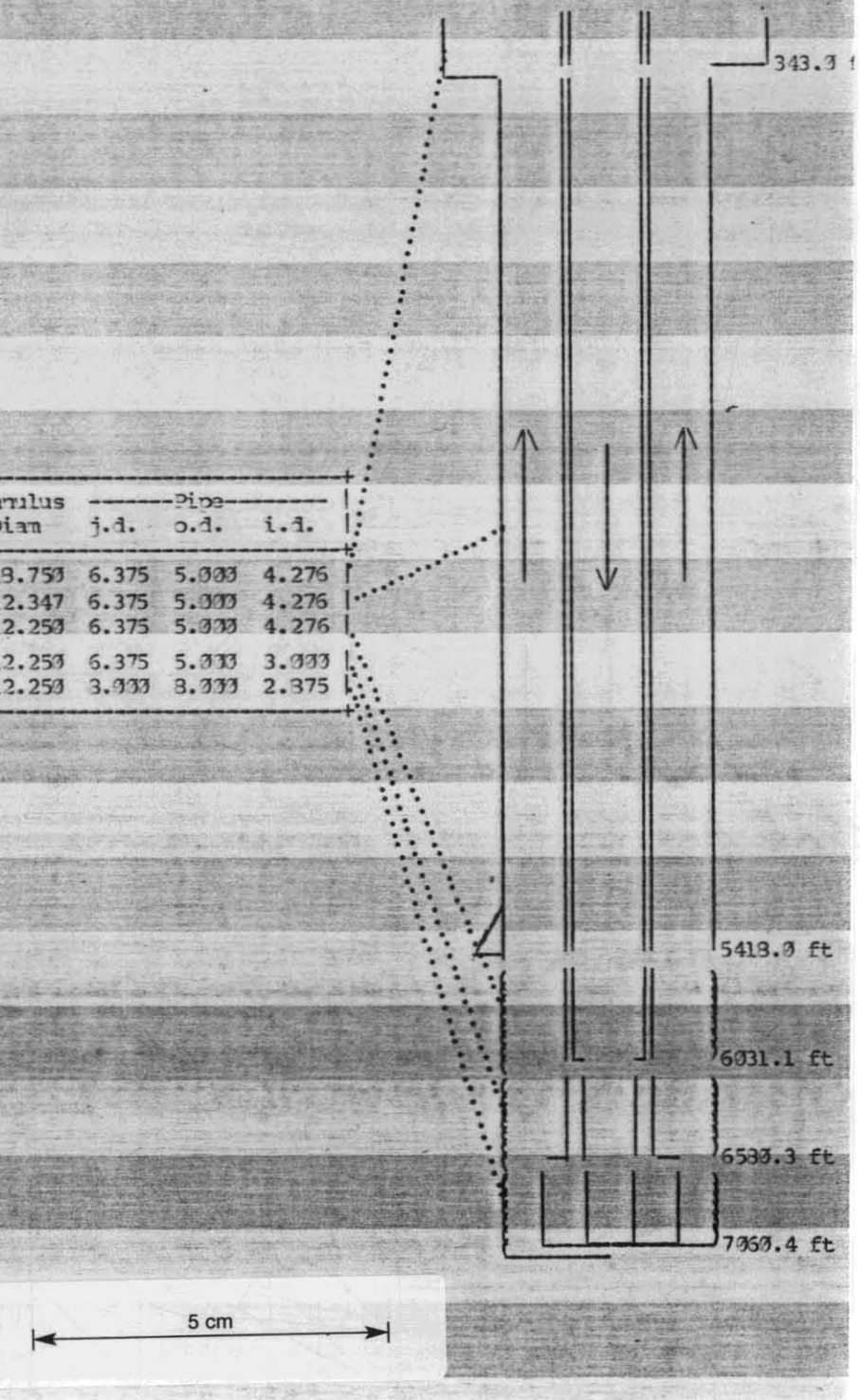
FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	46.4	139.3	LAMINAR	.2
343.0	5413.0	5075.0	12.347/ 5.000	113.8	261.7	LAMINAR	17.7
5418.0	6031.1	613.1	12.250/ 5.000	121.1	263.5	LAMINAR	2.2
6031.0	6530.3	549.1	12.250/ 5.000	121.1	263.5	LAMINAR	2.0
6530.0	7060.4	480.1	12.250/ 3.000	176.0	345.3	LAMINAR	5.3

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	3.000	8.000	2.375

MUD HYDROSTATIC	9.10 lb/gal
FLOW CONTRIBUTION	.07 lb/gal
CUTTINGS CONTRIBUTION	.04 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.22 lb/gal

SURFACE PRESSURE LOSS	44 psi	NOZZLE VELOCITY	383.0 ft/sec
PIPEBORE PRESSURE LOSS	1045 psi	HYDRAULIC POWER	430.6 hp
ANNULAR PRESSURE LOSS	27 psi	JET IMPACT FORCE	1117.2 lbs
BIT PRESSURE LOSS	1194 psi	% OF PRESS LOSS AT BIT	52
TOTAL CALC. PRESS LOSS	2311 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 125 s.p.m.
1) Pipe Capacity	4362	116	980	7.9
2) Pipe Displacement	3309	79	667	5.4
3) Total Annulus	38080	907	7677	61.6 <- LAG
4) Mud in active pits	15355	366	3096	24.8
Circulation (1) + (3)	42943	1022	8658	69.5
Hole Volume (1)+(2)+(3)	46252	1101	9325	74.8
Total Mud Circulation	53298	1388	11754	94.3
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0195				
Corrected Annulus	38873	926	7837	62.9 <- LAG
Corrected Hole	47044	1120	9485	76.1



EXLOG

NO 12.

320121

MOCO AUST. Tilana No.1
Date : 28 Sep 85 Time : 04:23

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	24.00	cP
YIELD POINT	20.00	lb/cft^2
POWER LAW k	.9127	
POWER LAW n	.5280	
DEPTH	7219.9	ft (2200.5 m)
VERTICAL DEPTH	7219.6	ft
DEPTH OF RETURNS	7235.4	ft
CUTTINGS BULK DENSITY	2.60	spc grv
MUD DENSITY	9.10	lb/gal
ACTIVE SURFACE MUD VOLUME	464	bbl
FLOW RATE	610	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2320	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	15, 15, 15	

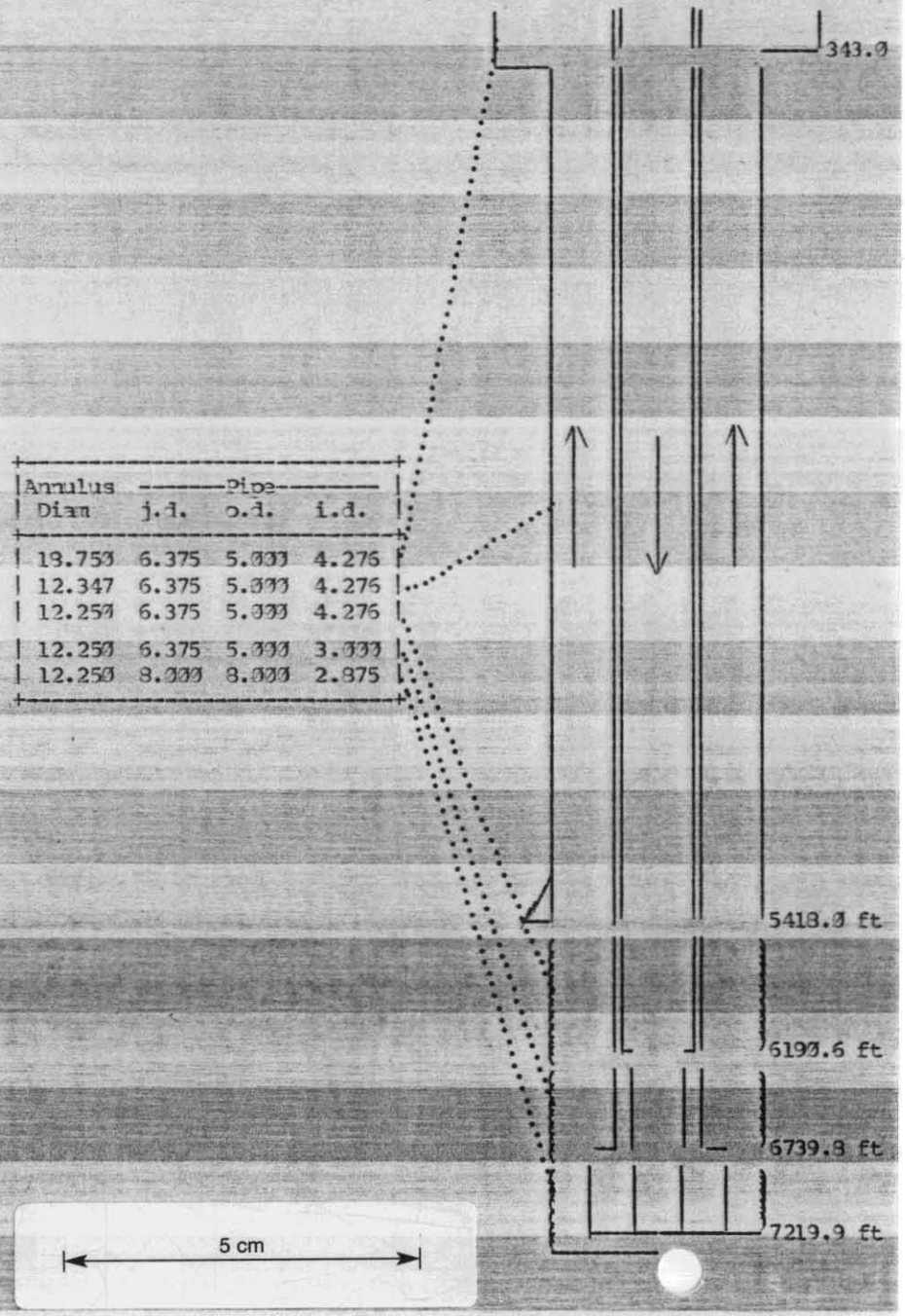
CALCULATED RESULTS:

FROM ft	TO ft	LENGTH ft	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.0	343.0	343.0	18.750/ 5.000	45.8	240.5	LAMINAR	.3
343.0	5418.0	5075.0	12.347/ 5.000	117.3	323.6	LAMINAR	23.6
5418.0	6190.6	772.6	12.250/ 5.000	119.6	325.6	LAMINAR	3.7
6190.0	6739.8	549.1	12.250/ 5.000	119.6	325.6	LAMINAR	2.6
6739.0	7219.9	480.1	12.250/ 8.000	173.7	418.6	LAMINAR	6.9

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.00	lb/gal	
FLOW CONTRIBUTION	.10	lb/gal	
CUTTINGS CONTRIBUTION	.04	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.22	lb/gal	
SURFACE PRESSURE LOSS	43	psi	
PIPEBORE PRESSURE LOSS	1055	psi	
ANNULAR PRESSURE LOSS	37	psi	
BIT PRESSURE LOSS	1161	psi	
TOTAL CALC. PRESS LOSS	2296	psi	
NOZZLE VELOCITY	378.0	ft/sec	
HYDRAULIC POWER	413.2	hp	
JET IMPACT FORCE	1086.2	lbs	
% OF PRESS LOSS AT BIT	51		

VOLUMES:	gal	bbl	Strokes	Minutes @ 123 s.p.m.	
1) Pipe Capacity	4981	119	1004	8.2	
2) Pipe Displacement	3358	80	677	5.5	
3) Total Annulus	38839	926	7841	63.8	<- LAG
4) Mud in active pits	19501	464	3932	32.0	
Circulation (1) + (3)	43870	1045	8845	71.9	
Hole Volume (1)+(2)+(3)	47223	1124	9522	77.4	
Total Mud Circulation	63371	1509	12776	103.9	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR = 1.0135					
Corrected Annulus	39699	945	9004	65.1	<- LAG
Corrected Hole	48033	1144	9635	78.7	



EXLOG

329332

AMOCO AUST. Tilana No.1
Date : 29 Sep 85 Time : 04:43

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	22.00	cP
YIELD POINT	18.00	lb/cft^2
POWER LAW k	.3033	
POWER LAW n	.6323	
DEPTH	2324.30	m (7626')
VERTICAL DEPTH	2324.19	m
DEPTH OF RETURNS	2319.73	m
CUTTINGS BULK DENSITY	2.10	spc grv
MUD DENSITY	9.12	lb/gal
ACTIVE SURFACE MUD VOLUME	236	bbl
FLOW RATE	618	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2330	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	15, 15, 15	

CALCULATED RESULTS:

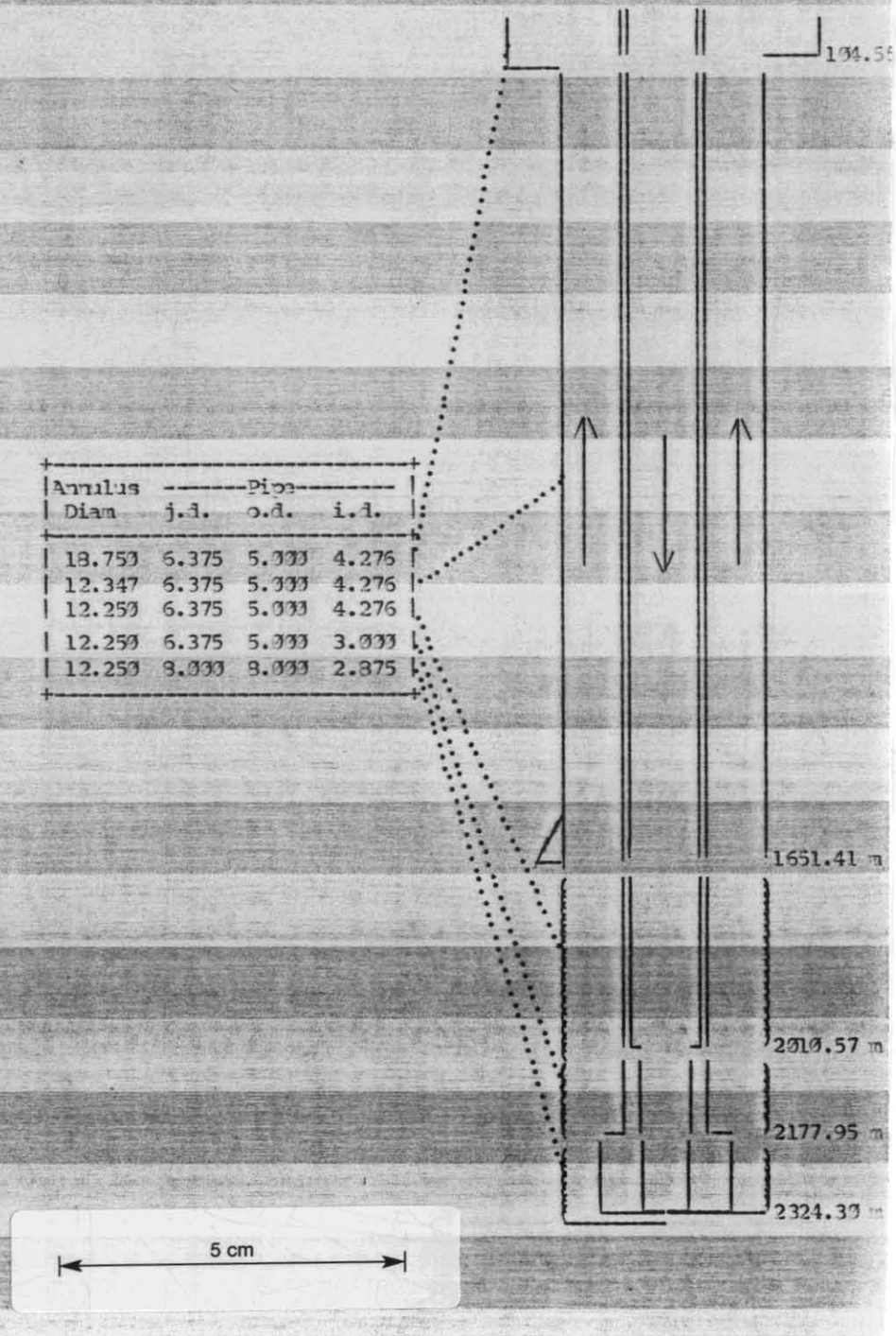
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	46.4	221.7	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	118.8	299.2	LAMINAR	21.4
1651.4	2010.6	359.17	12.250/ 5.000	121.1	301.0	LAMINAR	5.1
2010.5	2173.0	167.33	12.250/ 5.000	121.1	301.0	LAMINAR	2.4
2177.8	2324.3	146.35	12.250/ 8.000	176.0	383.0	LAMINAR	6.2

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.10	lb/gal	
FLOW CONTRIBUTION	.09	lb/gal	
CUTTINGS CONTRIBUTION	.03	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.23	lb/gal	

SURFACE PRESSURE LOSS	44 psi	NOZZLE VELOCITY	383.0 ft/sec
PIPEBORE PRESSURE LOSS	1093 psi	HYDRAULIC POWER	430.6 hp
ANNULAR PRESSURE LOSS	35 psi	JET IMPACT FORCE	1117.2 lbs
BIT PRESSURE LOSS	1194 psi	% OF PRESS LOSS AT BIT	51
TOTAL CALC. PRESS LOSS	2365 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 125 s.p.m.
1) Pipe Capacity	5284	126	1065	8.6
2) Pipe Displacement	3431	83	702	5.6
3) Total Annulus	40946	975	8255	66.3 <- LAG
4) Mud in active pits	11995	286	2418	19.4
Circulation (1) + (3)	46230	1101	9321	74.8
Hole Volume (1)+(2)+(3)	49712	1184	10023	80.4
Total Mud Circulation	53226	1386	11739	94.2
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0185				
Corrected Annulus	41800	995	8427	67.6 <- LAG
Corrected Hole	50566	1204	10195	81.8



EXLOG

AMOCO AUST. Tilana No.1
Date : 30 Sep 85 Time : 04:06

329333

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	17.00	cP
YIELD POINT	7.00	lb/cft^2
POWER LAW k	.2343	
POWER LAW n	.7726	
DEPTH	2429.67	m (7972')
VERTICAL DEPTH	2429.54	m
DEPTH OF RETURNS	2427.72	m
CUTTINGS BULK DENSITY	2.10	spc grv
MUD DENSITY	9.20	lb/gal
ACTIVE SURFACE MUD VOLUME	454	bbl
FLOW RATE	610	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2300	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	15, 15, 15	

CALCULATED RESULTS:

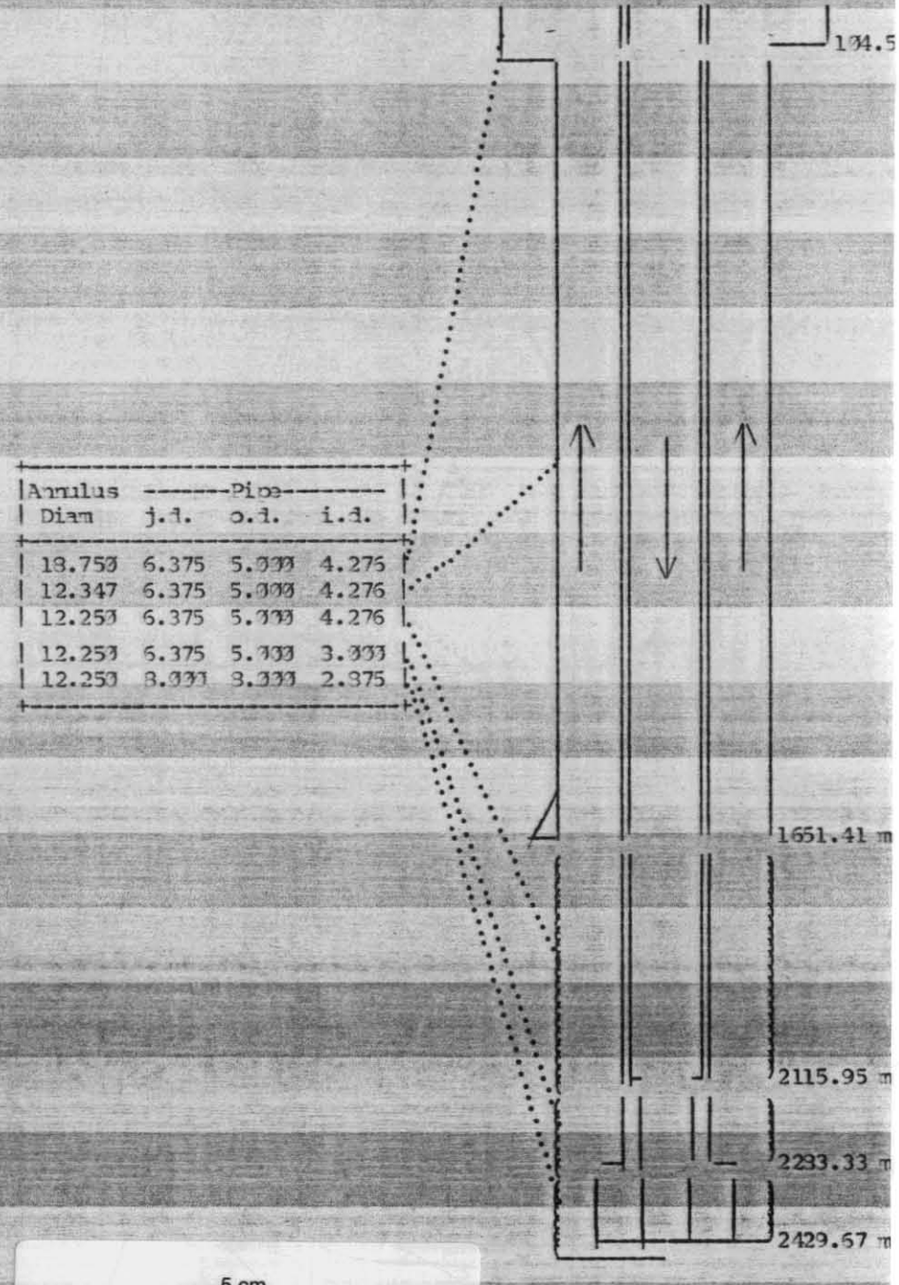
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	45.8	99.0	LAMINAR	.1
104.55	1651.4	1546.9	12.347/ 5.000	117.3	148.6	LAMINAR	8.6
1651.4	2115.9	464.54	12.250/ 5.000	119.5	149.8	LAMINAR	2.7
2115.9	2233.3	167.38	12.250/ 5.000	119.5	149.8	LAMINAR	1.0
2233.3	2429.7	146.35	12.250/ 3.000	173.7	211.3	LAMINAR	2.9

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	3.000	3.000	2.375

MUD HYDROSTATIC	9.19	lb/gal	
FLOW CONTRIBUTION	.04	lb/gal	
CUTTINGS CONTRIBUTION	.01	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.24	lb/gal	

SURFACE PRESSURE LOSS	43 psi	NOZZLE VELOCITY	378.0 ft/sec
PIPEBORE PRESSURE LOSS	1107 psi	HYDRAULIC POWER	417.8 hp
ANNULAR PRESSURE LOSS	15 psi	JET IMPACT FORCE	1098.1 lbs
BIT PRESSURE LOSS	1174 psi	% OF PRESS LOSS AT BIT	50
TOTAL CALC. PRESS LOSS	2339 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 123 s.p.m.
1) Pipe Capacity	5542	132	1117	9.1
2) Pipe Displacement	3537	85	723	5.9
3) Total Annulus	42699	1017	8609	70.0 <- LAG
4) Mud in active pits	19072	454	3845	31.3
Circulation (1) + (3)	48241	1149	9726	79.1
Hole Volume (1)+(2)+(3)	51823	1234	10449	85.0
Total Mud Circulation	67314	1603	13571	110.4
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR =	1.0385			
Corrected Annulus	43593	1038	8788	71.5 <- LAG
Corrected Hole	52719	1255	10629	86.4



EXLOG

AMOCO AUST. Tilana No.1
Date : 30 Sep 85 Time : 04.42

329334

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	17.00 cP
YIELD POINT	7.00 lb/cft^2
POWER LAW k	.2040
POWER LAW n	.7726
DEPTH	2500.00 m (8200')
VERTICAL DEPTH	2499.80 m
DEPTH OF RETURNS	2498.00 m
CUTTINGS BULK DENSITY	2.10 spc grv
MUD DENSITY	9.20 lb/gal
ACTIVE SURFACE MUD VOLUME	460 bbl
FLOW RATE	613 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2390 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	14, 14, 14

CALCULATED RESULTS:

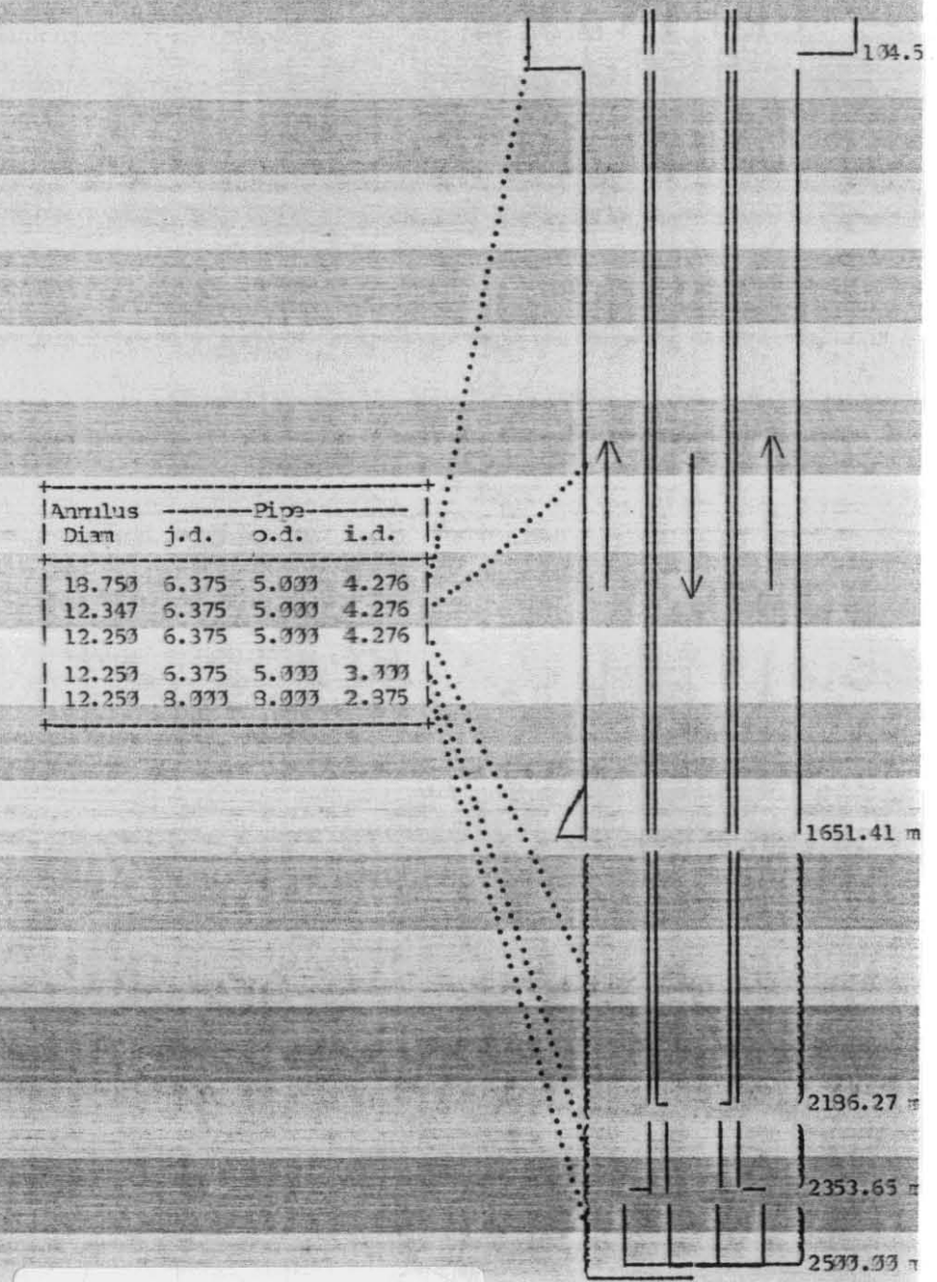
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	46.0	99.0	LAMINAR	.1
104.55	1651.4	1546.9	12.347/ 5.000	117.8	148.6	LAMINAR	8.6
1651.4	2186.3	534.87	12.250/ 5.000	120.1	149.8	LAMINAR	3.1
2186.3	2353.7	167.38	12.250/ 5.000	120.1	149.8	LAMINAR	1.0
2353.4	2500.0	146.35	12.250/ 8.000	174.5	211.3	LAMINAR	2.9

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.375

MUD HYDROSTATIC	9.19 lb/gal
FLOW CONTRIBUTION	.04 lb/gal
CUTTINGS CONTRIBUTION	.01 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.24 lb/gal

SURFACE PRESSURE LOSS	44 psi	NOZZLE VELOCITY	435.9 ft/sec
PIPEBORE PRESSURE LOSS	1136 psi	HYDRAULIC POWER	558.1 hp
ANNULAR PRESSURE LOSS	16 psi	JET IMPACT FORCE	1272.1 lbs
BIT PRESSURE LOSS	1561 psi	% OF PRESS LOSS AT BIT	57
TOTAL CALC. PRESS LOSS	2756 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 124 s.p.m.
1) Pipe Capacity	5714	136	1152	9.3
2) Pipe Displacement	3657	87	737	6.0
3) Total Annulus	43869	1045	8845	71.6 <- LAG
4) Mud in active pits	19303	460	3892	31.5
Circulation (1) + (3)	49583	1181	9997	80.9
Hole Volume (1)+(2)+(3)	53241	1268	10734	86.9
Total Mud Circulation	68887	1640	13888	112.4
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0185				
Corrected Annulus	44785	1066	9029	73.1 <- LAG
Corrected Hole	54156	1289	10919	88.4



EXLOG

329335

MOCO AUST. Tilana No.1
Date : 1 Oct 85 Time : 04:43

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	23.00 cP
YIELD POINT	13.00 lb/cft^2
POWER LAW k	.4427
POWER LAW n	.7127
DEPTH	2467.10 m (8095')
VERTICAL DEPTH	2466.69 m
DEPTH OF RETURNS	2459.27 m
CUTTINGS BULK DENSITY	2.20 sgc grv
MUD DENSITY	9.30 lb/gal
ACTIVE SURFACE MUD VOLUME	477 bbl
FLOW RATE	455 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2500 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	14, 14, 14

CALCULATED RESULTS:

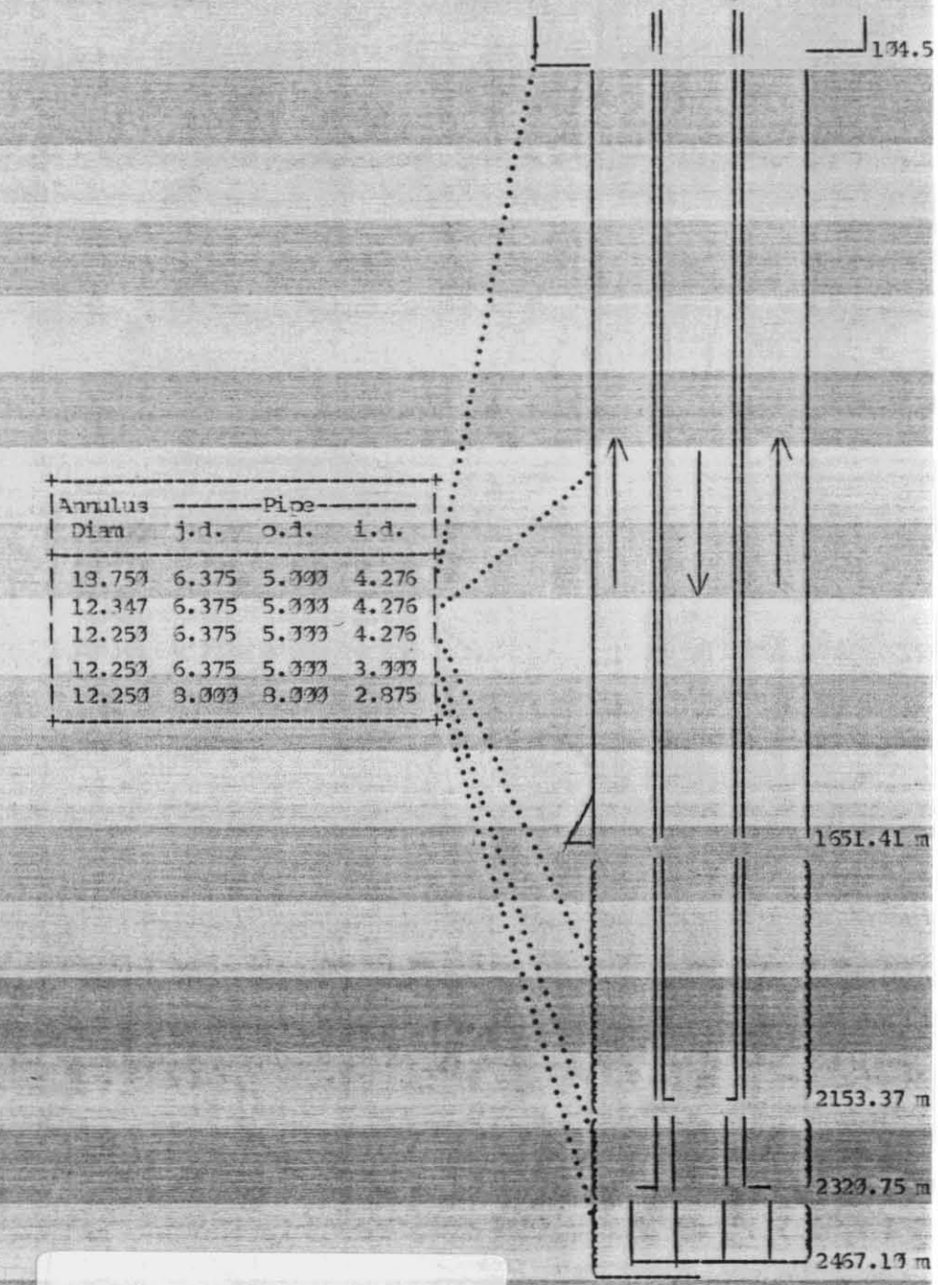
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	13.750/ 5.000	34.1	163.3	LAMINAR	.1
104.55	1651.4	1546.9	12.347/ 5.000	87.5	233.6	LAMINAR	12.4
1651.4	2153.4	501.97	12.250/ 5.000	89.2	235.4	LAMINAR	4.2
2153.1	2320.8	167.38	12.250/ 5.000	89.2	235.4	LAMINAR	1.4
2320.7	2467.1	146.35	12.250/ 8.000	129.6	318.7	LAMINAR	3.9

Annulus	Pipe		
Diam	j.d.	o.d.	i.d.
13.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.27 lb/gal
FLOW CONTRIBUTION	.05 lb/gal
CUTTINGS CONTRIBUTION	.06 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.38 lb/gal

SURFACE PRESSURE LOSS	25 psi	NOZZLE VELOCITY	323.7 ft/sec
PIPEBORE PRESSURE LOSS	732 psi	HYDRAULIC POWER	230.9 hp
ANNULAR PRESSURE LOSS	22 psi	JET IMPACT FORCE	703.9 lbs
BIT PRESSURE LOSS	870 psi	% OF PRESS LOSS AT BIT	53
TOTAL CALC. PRESS LOSS	1650 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 92 s.p.m.	
1) Pipe Capacity	5634	134	1136	12.4	
2) Pipe Displacement	3625	86	731	8.0	
3) Total Annulus	43322	1031	8734	95.2	<- LAG
4) Mud in active pits	20013	477	4035	44.0	
Circulation (1) + (3)	48956	1166	9870	107.6	
Hole Volume (1)+(2)+(3)	52583	1252	10601	115.6	
Total Mud Circulation	68969	1642	13905	151.6	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR = 1.0185					
Corrected Annulus	44226	1053	8917	97.2	<- LAG
Corrected Hole	53434	1273	10783	117.5	



EXLOG

MOCO AUST. Tilana No.1
Date : 2 Oct 85 Time : [illegible]

329236

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	22.00 cP
YIELD POINT	12.00 lb/sft^2
POWER LAW k	.4333
POWER LAW n	.7199
DEPTH	2560.33 m (8400')
VERTICAL DEPTH	2560.16 m
DEPTH OF RETURNS	2556.23 m
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	9.60 lb/gal
ACTIVE SURFACE MUD VOLUME	446 bbl
FLOW RATE	490 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2900 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	14, 14, 14

CALCULATED RESULTS:

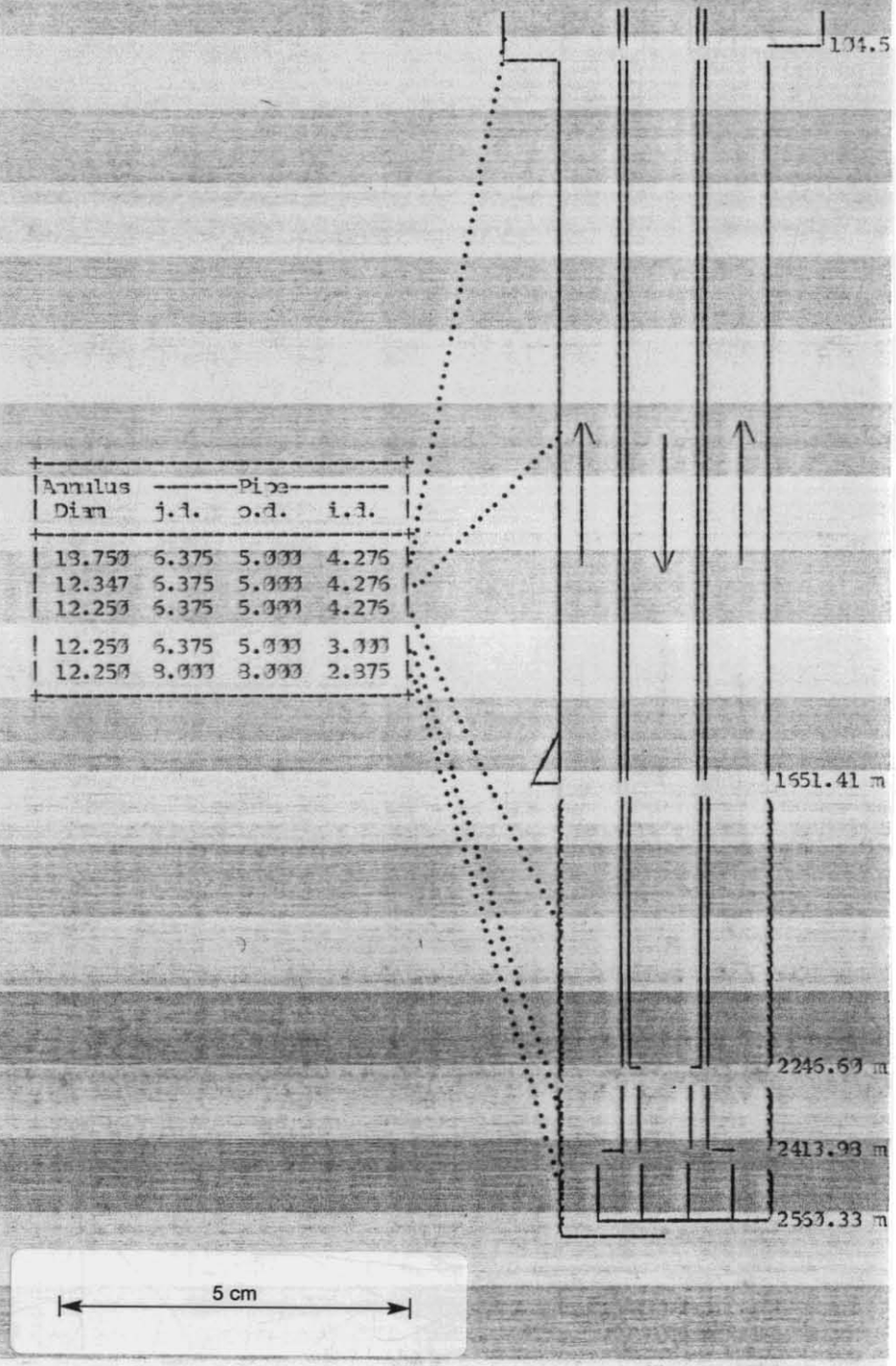
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	13.750/ 5.000	36.8	149.3	LAMINAR	.1
104.55	1651.4	1546.9	12.347/ 5.000	94.2	214.7	LAMINAR	12.1
1651.4	2246.6	595.19	12.250/ 5.000	96.0	216.4	LAMINAR	4.8
2246.4	2414.3	167.38	12.250/ 5.000	96.0	216.4	LAMINAR	1.4
2413.7	2560.3	145.35	12.250/ 8.000	139.5	294.3	LAMINAR	3.8

Annulus Diam	Pipe o.d.	Pipe i.d.
13.750	5.375	4.276
12.347	5.375	4.276
12.250	5.375	4.276
12.250	5.375	3.000
12.250	8.000	2.375

MUD HYDROSTATIC	9.58 lb/gal
FLOW CONTRIBUTION	.05 lb/gal
CUTTINGS CONTRIBUTION	.03 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.67 lb/gal

SURFACE PRESSURE LOSS	30 psi	NOZZLE VELOCITY	348.6 ft/sec
PIPEBORE PRESSURE LOSS	859 psi	HYDRAULIC POWER	297.7 hp
ANNULAR PRESSURE LOSS	22 psi	JET IMPACT FORCE	848.7 lbs
BIT PRESSURE LOSS	1042 psi	% OF PRESS LOSS AT BIT	53
TOTAL CALC. PRESS LOSS	1953 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 99 s.p.m.	
1) Pipe Capacity	5862	140	1182	12.0	
2) Pipe Displacement	3718	89	750	7.6	
3) Total Annulus	44873	1068	9047	91.6	<- LAG
4) Mud in active pits	18728	446	3776	38.2	
Circulation (1) + (3)	50735	1208	10229	103.5	
Hole Volume (1)+(2)+(3)	54453	1296	10978	111.1	
Total Mud Circulation	69463	1654	14005	141.8	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR = 1.0135					
Corrected Annulus	45810	1091	9236	93.5	<- LAG
Corrected Hole	55389	1319	11167	113.0	



EXLOG

329337

AMOCO AUST Tilana No.1
Date : 2 Oct 85 Time : 04:43

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	22.00 cP
YIELD POINT	12.00 lb/cft^2
POWER LAW k	.4000
POWER LAW n	.7199
DEPTH	2560.33 m (8400')
VERTICAL DEPTH	2560.16 m
DEPTH OF RETURNS	2556.28 m
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	9.60 lb/gal
ACTIVE SURFACE MUD VOLUME	446 bbl
FLOW RATE	490 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2900 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	14, 14, 5

CALCULATED RESULTS: Assume one blocked nozzle.

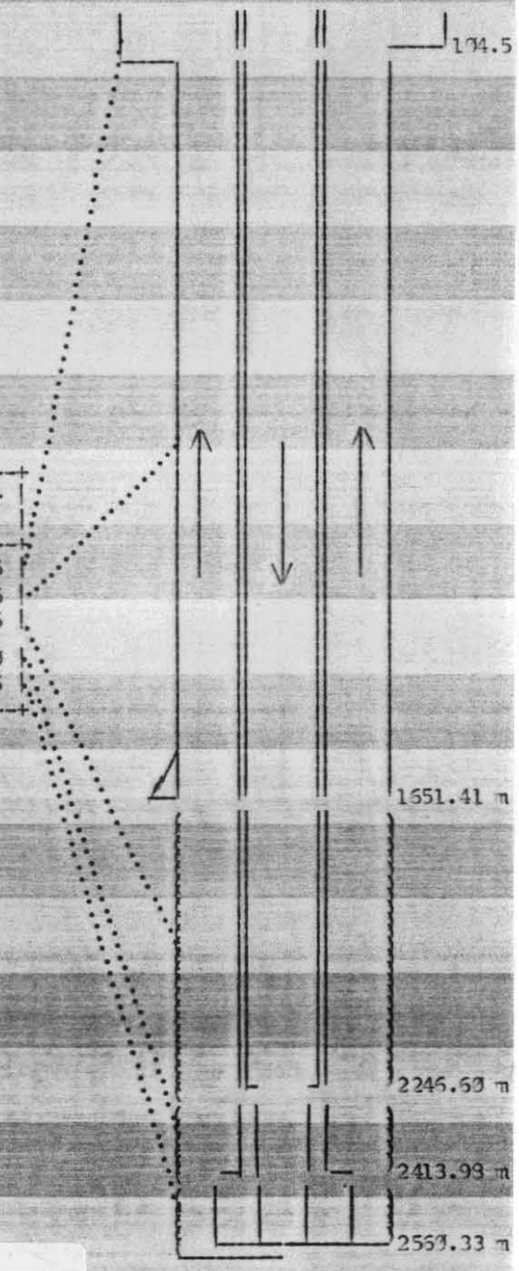
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	36.8	149.3	LAMINAR	.1
104.55	1651.4	1546.9	12.347/ 5.000	94.2	214.7	LAMINAR	12.1
1651.4	2246.6	595.19	12.250/ 5.000	96.0	216.4	LAMINAR	4.8
2246.4	2414.0	167.33	12.250/ 5.000	96.0	216.4	LAMINAR	1.4
2413.7	2560.3	146.35	12.250/ 8.000	139.5	294.3	LAMINAR	3.8

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.58 lb/gal
FLOW CONTRIBUTION	.05 lb/gal
CUTTINGS CONTRIBUTION	.03 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.67 lb/gal

SURFACE PRESSURE LOSS	30 psi	NOZZLE VELOCITY	491.5 ft/sec
PIPEBORE PRESSURE LOSS	859 psi	HYDRAULIC POWER	592.0 hp
ANNULAR PRESSURE LOSS	22 psi	JET IMPACT FORCE	1196.8 lbs
BIT PRESSURE LOSS	2071 psi	% OF PRESS LOSS AT BIT	69
TOTAL CALC. PRESS LOSS	2983 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 99 s.p.m.	
1) Pipe Capacity	5862	140	1182	12.0	
2) Pipe Displacement	3718	89	750	7.6	
3) Total Annulus	44873	1068	9047	91.6	<- LAG
4) Mud in active pits	18728	446	3776	38.2	
Circulation (1) + (3)	50735	1208	10229	103.5	
Hole Volume (1)+(2)+(3)	54453	1296	10978	111.1	
Total Mud Circulation	69463	1654	14005	141.8	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR = 1.0185					
Corrected Annulus	45810	1091	9236	93.5	<- LAG
Corrected Hole	55389	1319	11167	113.0	



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EXLOG

AIDC AUST. Tilana No.1
Date : 3 Oct 85 Time : 0[illegible]6

329938

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	22.00	cP
YIELD POINT	12.00	lb/cft^2
POWER LAW k	.4000	
POWER LAW n	.7100	
DEPTH	2600.00	m (8557')
VERTICAL DEPTH	2607.91	m
DEPTH OF RETURNS	2600.12	m
CUTTINGS BULK DENSITY	2.30	spc grv
MUD DENSITY	9.30	lb/gal
ACTIVE SURFACE MUD VOLUME	378	bbl
FLOW RATE	562	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2510	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	13, 13, 13, 8	

CALCULATED RESULTS:

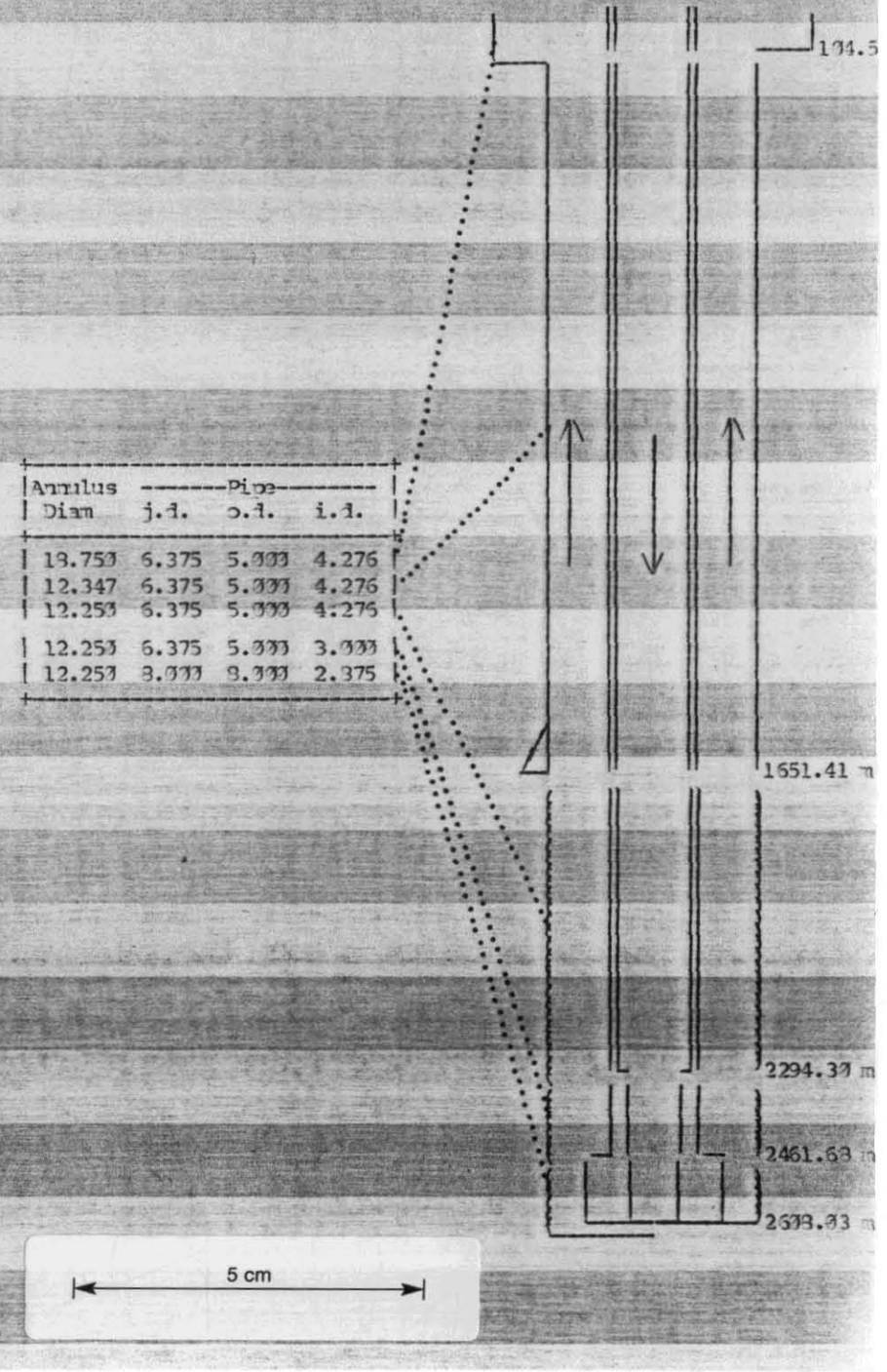
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	42.2	153.0	LAMINAR	.1
104.55	1651.4	1546.9	12.347/ 5.000	138.1	220.1	LAMINAR	13.3
1651.4	2294.3	642.90	12.250/ 5.000	110.1	221.8	LAMINAR	5.7
2294.2	2461.7	167.38	12.250/ 5.000	110.1	221.8	LAMINAR	1.5
2461.6	2600.0	146.35	12.250/ 8.000	160.1	331.7	LAMINAR	4.2

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.375

MUD HYDROSTATIC	9.28	lb/gal	
FLOW CONTRIBUTION	.06	lb/gal	
CUTTINGS CONTRIBUTION	.04	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.37	lb/gal	

SURFACE PRESSURE LOSS	38 psi	NOZZLE VELOCITY	411.7 ft/sec
PIPEBORE PRESSURE LOSS	1066 psi	HYDRAULIC POWER	461.5 hp
ANNULAR PRESSURE LOSS	25 psi	JET IMPACT FORCE	1113.8 lbs
BIT PRESSURE LOSS	1407 psi	% OF PRESS LOSS AT BIT	55
TOTAL CALC. PRESS LOSS	2536 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 113 s.p.m.
1) Pipe Capacity	5978	142	1205	10.6
2) Pipe Displacement	3766	90	759	6.7
3) Total Annulus	45667	1087	9207	81.3 <- LAG
4) Mud in active pits	15872	378	3200	28.2
Circulation (1) + (3)	51645	1230	10412	91.9
Hole Volume (1)+(2)+(3)	55411	1319	11172	98.6
Total Mud Circulation	67517	1608	13612	120.1
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0564				
Corrected Annulus	48579	1157	9794	86.4 <- LAG
Corrected Hole	58323	1389	11759	103.8



MUD ANAL. Tilana No.1
Date : 4 Oct 85 Time : 04:11

329339

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	21.00 cP
YIELD POINT	13.00 lb/100ft^2
POWER LAW k	.4597
POWER LAW n	.6939
DEPTH	2713.95 m (8921')
VERTICAL DEPTH	2713.33 m
DEPTH OF RETURNS	2709.46 m
CUTTINGS BULK DENSITY	2.20 spc grv
MUD DENSITY	9.30 lb/gal
ACTIVE SURFACE MUD VOLUME	468 bbl
FLOW RATE	611 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2360 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	13, 13, 13, 0

CALCULATED RESULTS:

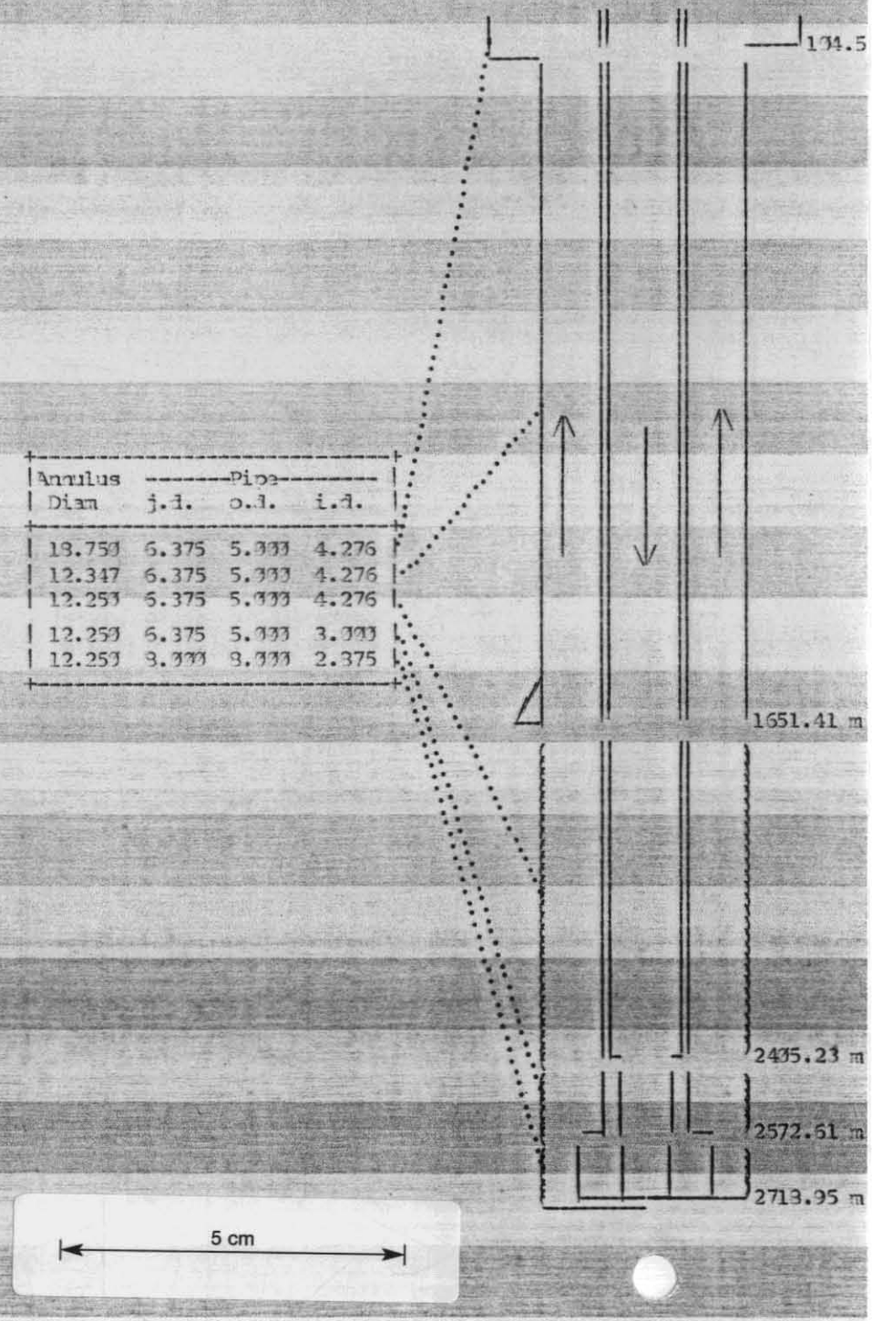
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	134.55	134.55	18.750/ 5.000	45.9	164.8	LAMINAR	.2
134.55	1651.4	1516.9	12.347/ 5.000	117.5	232.4	LAMINAR	15.2
1651.4	2435.2	783.82	12.253/ 5.000	119.7	234.1	LAMINAR	7.7
2435.2	2572.6	137.38	12.253/ 5.000	119.7	234.1	LAMINAR	1.7
2572.5	2713.0	140.35	12.253/ 3.000	174.0	313.1	LAMINAR	4.7

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.253	6.375	5.000	4.276
12.253	6.375	5.000	3.000
12.253	3.000	3.000	2.375

MUD HYDROSTATIC	9.27 lb/gal
FLOW CONTRIBUTION	.06 lb/gal
CUTTINGS CONTRIBUTION	.06 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.43 lb/gal

SURFACE PRESSURE LOSS	44 psi	NOZZLE VELOCITY	447.6 ft/sec
PIPEBORE PRESSURE LOSS	1227 psi	HYDRAULIC POWER	593.0 hp
ANNULAR PRESSURE LOSS	29 psi	JET IMPACT FORCE	1316.5 lbs
BIT PRESSURE LOSS	1664 psi	% OF PRESS LOSS AT BIT	56
TOTAL CALC. PRESS LOSS	2964 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 123 s.p.m.
1) Pipe Capacity	6250	149	1260	10.2
2) Pipe Displacement	3877	92	782	6.3
3) Total Annulus	47512	1131	9579	77.8 <- LAG
4) Mud in active pits	19652	468	3962	32.2
Circulation (1) + (3)	53762	1280	10839	88.0
Hole Volume (1)+(2)+(3)	57639	1372	11621	94.3
Total Mud Circulation	73414	1748	14801	120.2
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.3564				
Corrected Annulus	53544	1275	10790	87.7 <- LAG
Corrected Hole	60671	1445	12232	99.3



329340 Core #2.

AMOCO AUST Tilana No.1
Date : 5 Oct 85 Time : 04

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	24.00 cP
YIELD POINT	14.00 lb/cft^2
POWER LAW k	.4863
POWER LAW n	.7063
DEPTH	2788.60 m (9149')
VERTICAL DEPTH	2788.47 m
DEPTH OF RETURNS	2788.50 m
CUTTINGS BULK DENSITY	2.10 spc grv
MUD DENSITY	9.34 lb/gal
ACTIVE SURFACE MUD VOLUME	298 bbl
FLOW RATE	250 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	500 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	19, 19, 19

CALCULATED RESULTS:

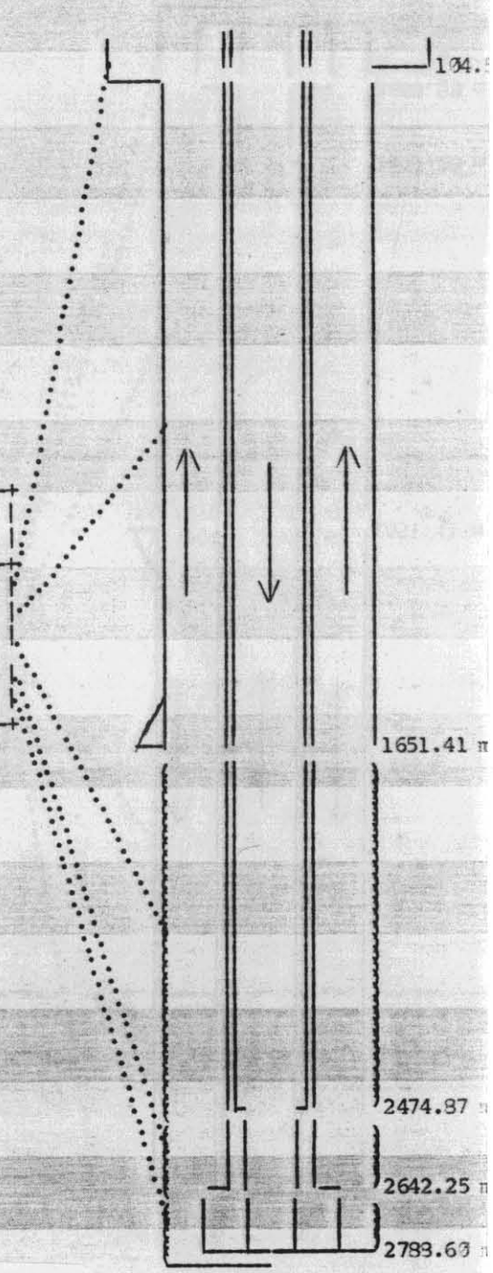
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	18.8	172.9	LAMINAR	.1
104.55	1651.4	1546.9	12.347/ 5.000	48.1	246.0	LAMINAR	8.7
1651.4	2474.9	823.47	12.250/ 5.000	49.0	247.9	LAMINAR	4.8
2474.7	2642.3	167.38	12.250/ 5.000	49.0	247.9	LAMINAR	1.0
2642.0	2788.6	146.35	12.250/ 8.000	71.2	334.2	LAMINAR	2.7

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.34 lb/gal
FLOW CONTRIBUTION	.04 lb/gal
CUTTINGS CONTRIBUTION	.00 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.38 lb/gal

SURFACE PRESSURE LOSS	8 psi	NOZZLE VELOCITY	96.6 ft/sec
PIPEBORE PRESSURE LOSS	299 psi	HYDRAULIC POWER	11.3 hp
ANNULAR PRESSURE LOSS	17 psi	JET IMPACT FORCE	116.7 lbs
BIT PRESSURE LOSS	78 psi	% OF PRESS LOSS AT BIT	19
TOTAL CALC. PRESS LOSS	403 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 50 s.p.m.	
1) Pipe Capacity	6420	153	1294	25.7	
2) Pipe Displacement	3947	94	796	15.8	
3) Total Annulus	48671	1159	9813	194.7	<- LAG
4) Mud in active pits	12495	298	2519	50.0	
Circulation (1) + (3)	55091	1312	11107	220.4	
Hole Volume (1)+(2)+(3)	59038	1406	11903	236.2	
Total Mud Circulation	67586	1609	13626	270.3	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0564				
Corrected Annulus	51778	1233	10439	207.1	<- LAG
Corrected Hole	62145	1480	12529	248.6	



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CORE #2

329341

AMOCO AUST. Tilana No.1
Date : 5 Oct 85 Time : 15:43

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	24.00	cP
YIELD POINT	14.00	lb/cft^2
POWER LAW k	.4863	
POWER LAW n	.7063	
DEPTH	2806.92	m (9210')
VERTICAL DEPTH	2806.79	m
DEPTH OF RETURNS	2788.60	m
CUTTINGS BULK DENSITY	2.10	spc grv
MUD DENSITY	9.34	lb/gal
ACTIVE SURFACE MUD VOLUME	10	bbl
FLOW RATE	190	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	360	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	21, 21, 21	

CALCULATED RESULTS:

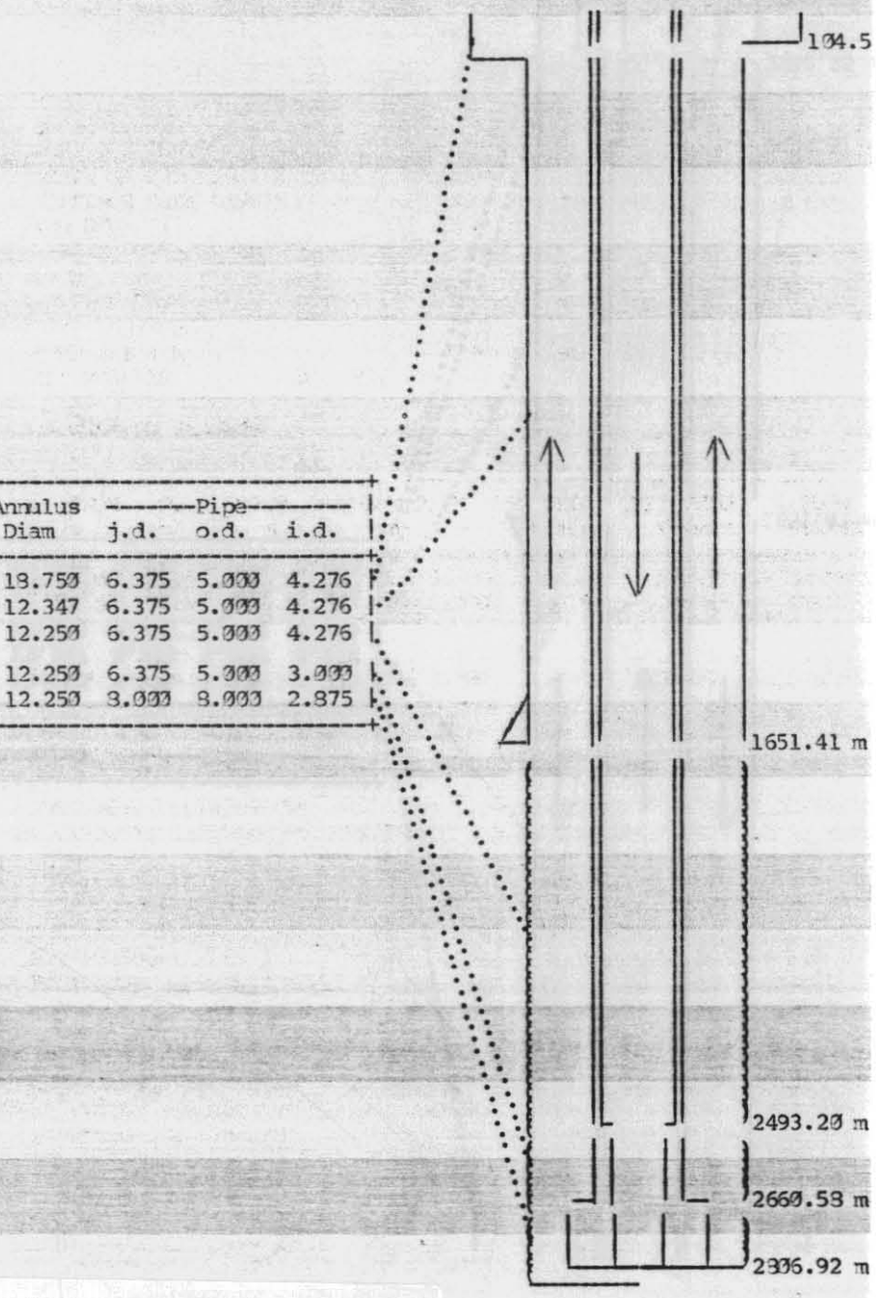
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	14.3	172.9	LAMINAR	.1
104.55	1651.4	1546.9	12.347/ 5.000	36.5	246.1	LAMINAR	7.2
1651.4	2493.2	841.79	12.250/ 5.000	37.2	247.9	LAMINAR	4.1
2493.0	2660.6	167.33	12.250/ 5.000	37.2	247.9	LAMINAR	.8
2660.3	2806.9	146.35	12.250/ 8.000	54.1	334.2	LAMINAR	2.2

Annulus Diam	Pipe j.d.	o.d.	i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.28	lb/gal	
FLOW CONTRIBUTION	.03	lb/gal	
CUTTINGS CONTRIBUTION	.11	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.42	lb/gal	

SURFACE PRESSURE LOSS	5 psi	NOZZLE VELOCITY	61.0 ft/sec
PIPEBORE PRESSURE LOSS	161 psi	HYDRAULIC POWER	3.4 hp
ANNULAR PRESSURE LOSS	14 psi	JET IMPACT FORCE	56.0 lbs
BIT PRESSURE LOSS	31 psi	% OF PRESS LOSS AT BIT	15
TOTAL CALC. PRESS LOSS	211 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 38 s.p.m.	
1) Pipe Capacity	6465	154	1303	34.0	
2) Pipe Displacement	3965	94	799	20.9	
3) Total Annulus	48976	1166	9874	257.8	<- LAG
4) Mud in active pits	412	10	83	2.2	
Circulation (1) + (3)	55441	1320	11178	291.8	
Hole Volume (1)+(2)+(3)	59406	1414	11977	312.7	
Total Mud Circulation	55352	1330	11261	294.0	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0564				
Corrected Annulus	52102	1241	10504	274.2	<- LAG
Corrected Hole	62532	1489	12607	329.1	



329342

AMOCO AUST Tilana No.1 Date : 6 Oct 85 Time : 05:01

NB#15 Smith F2; 2826m; 6

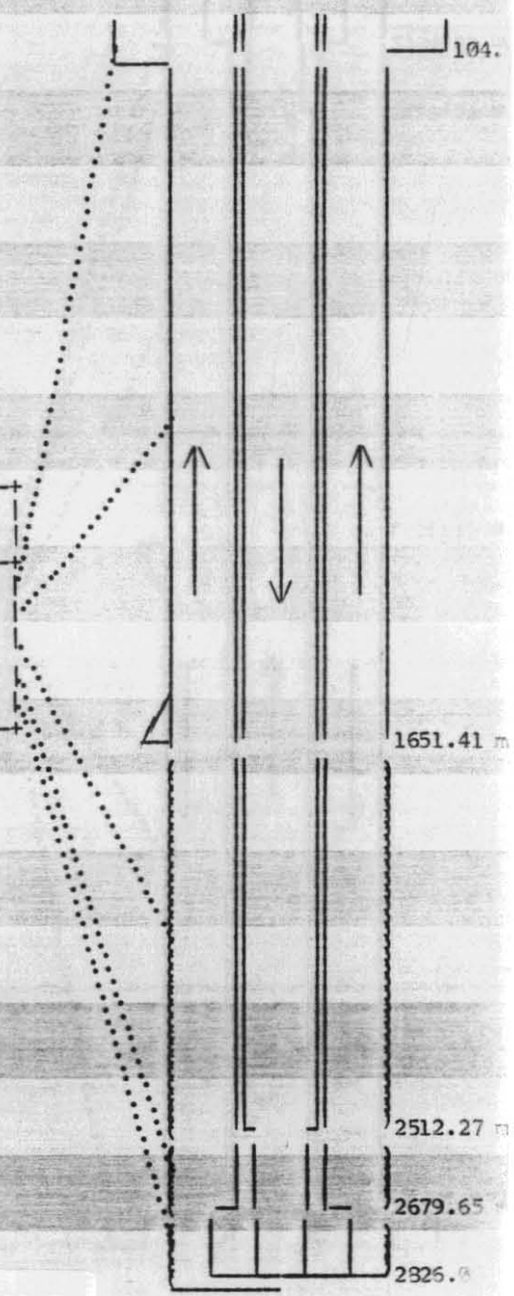
HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	25.00 cP
YIELD POINT	18.00 lb/cft^2
POWER LAW k	.7268
POWER LAW n	.6612
DEPTH	2826.00 m (9272')
VERTICAL DEPTH	2825.70 m
DEPTH OF RETURNS	2819.00 m
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	9.40 lb/gal
ACTIVE SURFACE MUD VOLUME	392 bbl
FLOW RATE	615 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2950 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	14, 14, 14

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	46.2	212.9	LAMINAR	.2
104.55	1651.4	1546.9	12.347/ 5.000	118.4	293.2	LAMINAR	21.2
1651.4	2512.3	860.87	12.250/ 5.000	120.6	295.1	LAMINAR	12.2
2512.2	2679.7	167.38	12.250/ 5.000	120.6	295.1	LAMINAR	2.4
2679.5	2826.0	146.35	12.250/ 8.000	175.3	386.9	LAMINAR	6.3

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875



MUD HYDROSTATIC	9.38 lb/gal
FLOW CONTRIBUTION	.09 lb/gal
CUTTINGS CONTRIBUTION	.05 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.52 lb/gal

SURFACE PRESSURE LOSS	45 psi	NOZZLE VELOCITY	437.8 ft/sec
PIPEBORE PRESSURE LOSS	1326 psi	HYDRAULIC POWER	577.6 hp
ANNULAR PRESSURE LOSS	42 psi	JET IMPACT FORCE	1311.0 lbs
BIT PRESSURE LOSS	1609 psi	% OF PRESS LOSS AT BIT	53
TOTAL CALC. PRESS LOSS	3022 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 124 s.p.m.
1) Pipe Capacity	6512	155	1313	10.6
2) Pipe Displacement	3984	95	803	6.5
3) Total Annulus	49293	1174	9938	80.1 <- LAG
4) Mud in active pits	16447	392	3316	26.7
Circulation (1) + (3)	55805	1329	11251	90.7
Hole Volume (1)+(2)+(3)	59789	1424	12054	97.1
Total Mud Circulation	72252	1720	14567	117.4
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR =	1.0564			
Corrected Annulus	52440	1249	10573	85.2 <- LAG
Corrected Hole	62936	1498	12689	102.3

5 cm

329243

NB #15 : 2931m : 7 Oct'85

AMOCO AUST. Tilana No.1
Date : 7 Oct 85 Time : 04:37

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	24.00	cP
YIELD POINT	18.00	lb/cft^2
POWER LAW k	.7511	
POWER LAW n	.6521	
DEPTH	2931.00	m (9617')
VERTICAL DEPTH	2930.65	m
DEPTH OF RETURNS	2928.00	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.40	lb/gal
ACTIVE SURFACE MUD VOLUME	394	bbl
FLOW RATE	610	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2330	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

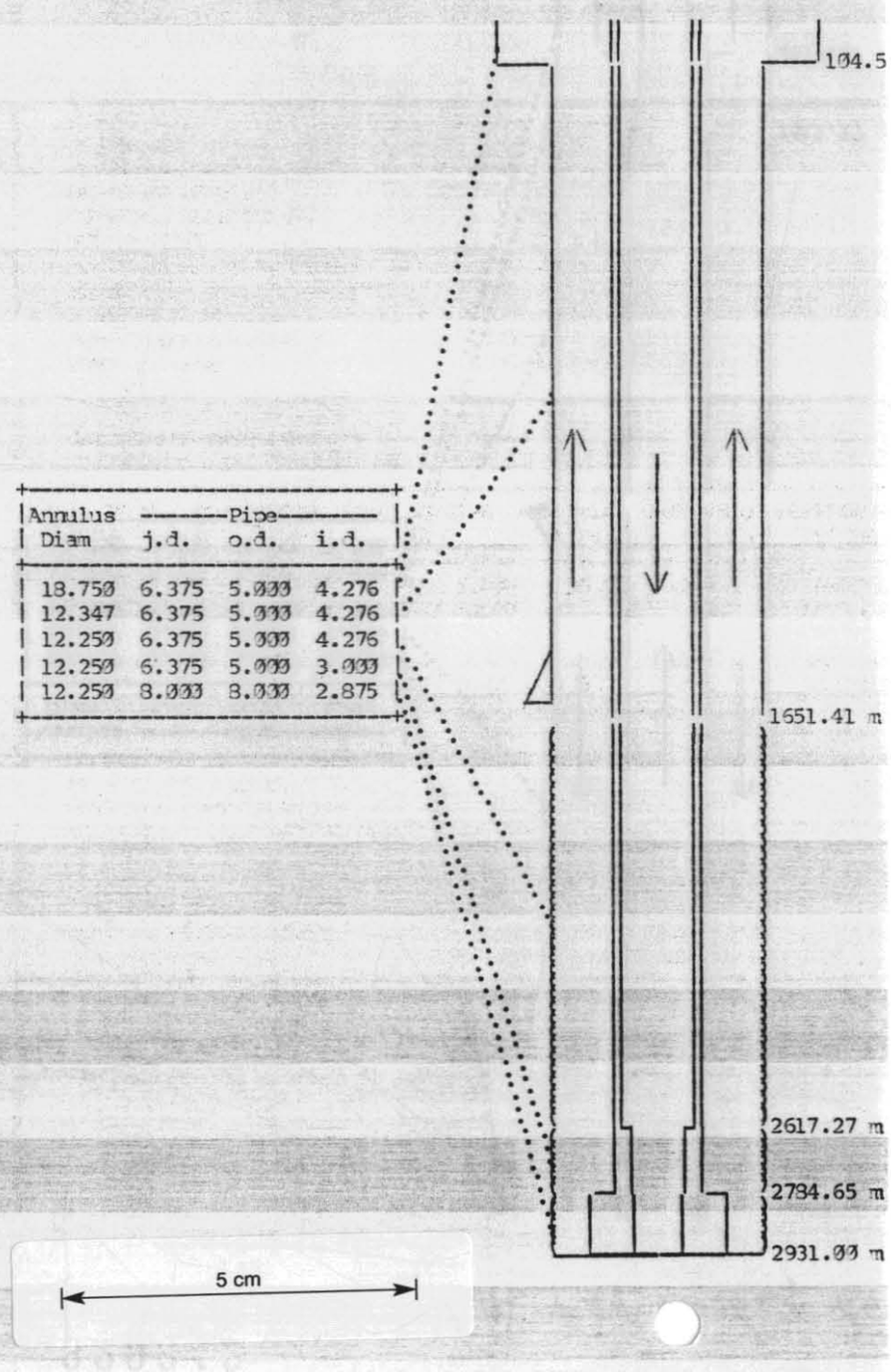
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	45.8	214.1	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	117.3	292.8	LAMINAR	21.1
1651.4	2617.3	965.87	12.250/ 5.000	119.6	294.8	LAMINAR	13.6
2617.0	2784.7	167.38	12.250/ 5.000	119.6	294.8	LAMINAR	2.4
2784.7	2931.0	146.35	12.250/ 8.000	173.7	394.3	LAMINAR	6.3

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.39	lb/gal	
FLOW CONTRIBUTION	.09	lb/gal	
CUTTINGS CONTRIBUTION	.02	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.50	lb/gal	

SURFACE PRESSURE LOSS	44 psi	NOZZLE VELOCITY	434.0 ft/sec
PIPEBORE PRESSURE LOSS	1319 psi	HYDRAULIC POWER	562.5 hp
ANNULAR PRESSURE LOSS	44 psi	JET IMPACT FORCE	1283.0 lbs
BIT PRESSURE LOSS	1531 psi	% OF PRESS LOSS AT BIT	53
TOTAL CALC. PRESS LOSS	2938 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 123 s.p.m.
1) Pipe Capacity	6769	161	1365	11.1
2) Pipe Displacement	4089	97	824	6.7
3) Total Annulus	51040	1215	10290	83.7 <- LAG
4) Mud in active pits	16531	394	3333	27.1
Circulation (1) + (3)	57809	1376	11655	94.8
Hole Volume (1)+(2)+(3)	61898	1474	12479	101.5
Total Mud Circulation	74340	1770	14983	121.9
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0280				
Corrected Annulus	52653	1254	10617	86.3 <- LAG
Corrected Hole	63516	1512	12806	104.1



329344

AMOCO AUST. Tijana No.1
Date : 8 Oct 85 Time : 04..6

NB#15 : 2990 m : 8 Oct '85

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	26.00 cP
YIELD POINT	19.00 lb/cft^2
POWER LAW k	.7763
POWER LAW n	.6579
DEPTH	2990.10 m (9810')
VERTICAL DEPTH	2989.75 m
DEPTH OF RETURNS	2985.14 m
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	9.30 lb/gal
ACTIVE SURFACE MUD VOLUME	355 bbl
FLOW RATE	612 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2900 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	14, 14, 14

CALCULATED RESULTS:

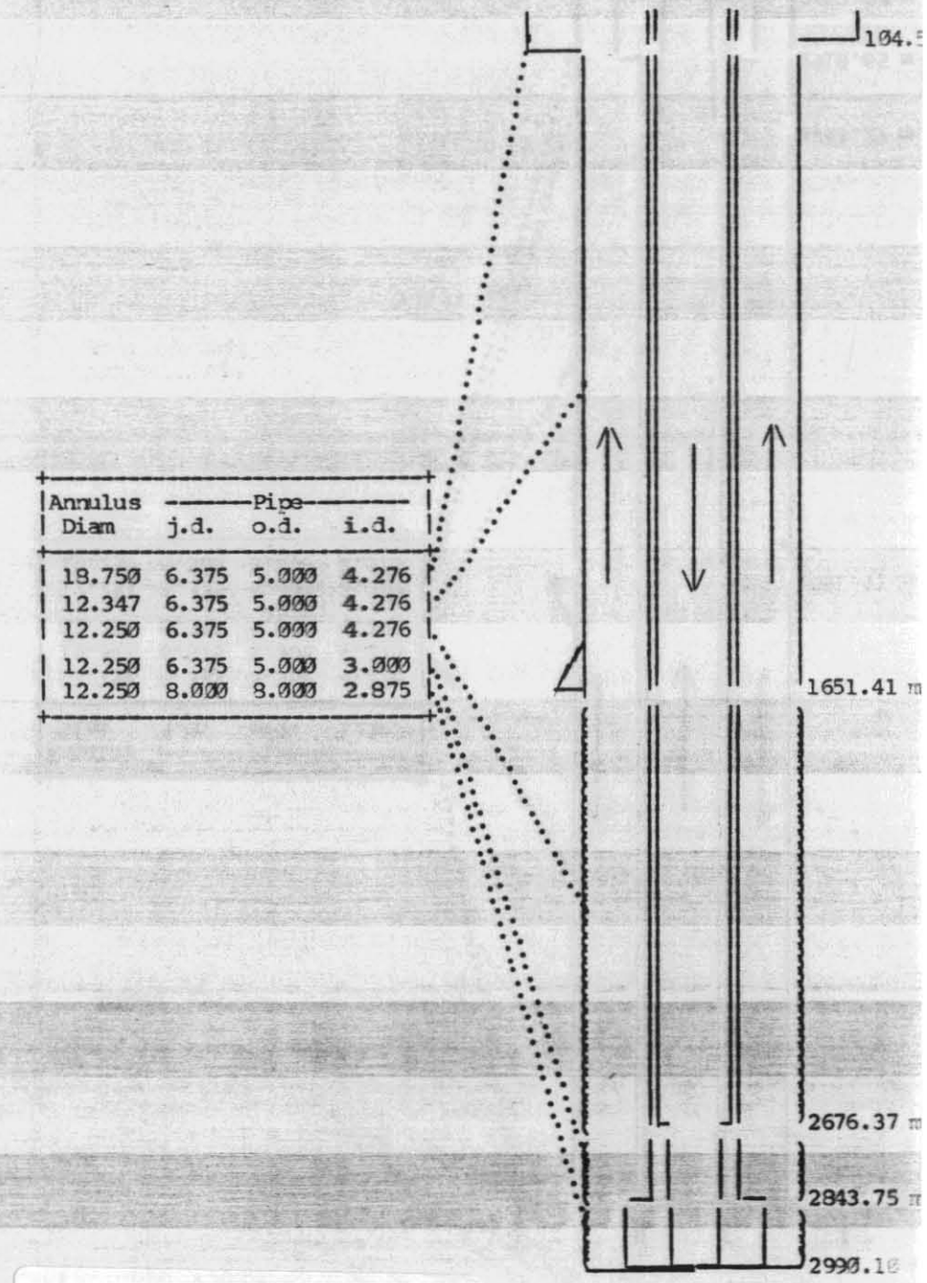
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	45.9	223.9	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	117.7	307.5	LAMINAR	22.3
1651.4	2676.4	1025.0	12.250/ 5.000	119.9	309.6	LAMINAR	15.3
2676.1	2843.8	167.38	12.250/ 5.000	119.9	309.6	LAMINAR	2.5
2843.5	2990.1	146.35	12.250/ 8.000	174.3	405.0	LAMINAR	6.7

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.28 lb/gal
FLOW CONTRIBUTION	.09 lb/gal
CUTTINGS CONTRIBUTION	.03 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.41 lb/gal

SURFACE PRESSURE LOSS	44 psi	NOZZLE VELOCITY	435.4 ft/sec
PIPEBORE PRESSURE LOSS	1368 psi	HYDRAULIC POWER	562.0 hp
ANNULAR PRESSURE LOSS	47 psi	JET IMPACT FORCE	1282.6 lbs
BIT PRESSURE LOSS	1574 psi	% OF PRESS LOSS AT BIT	52
TOTAL CALC. PRESS LOSS	3033 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 123 s.p.m.
1) Pipe Capacity	6913	165	1394	11.3
2) Pipe Displacement	4148	99	836	6.8
3) Total Annulus	52023	1239	10489	85.0 <- LAG
4) Mud in active pits	14893	355	3003	24.3
Circulation (1) + (3)	58937	1403	11882	96.3
Hole Volume (1)+(2)+(3)	63085	1502	12719	103.1
Total Mud Circulation	73830	1758	14885	120.6
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0280				
Corrected Annulus	53673	1278	10821	87.7 <- LAG
Corrected Hole	64735	1541	13051	105.8



AMOCO AUST. Tilana No.1
Date : 9 Oct 85 Time : 04:37

329345 NB#15 : 3057m : 9 Oct. '8

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	25.00	cP
YIELD POINT	22.00	lb/cft^2
POWER LAW k	1.0545	
POWER LAW n	.6153	
DEPTH	3057.00	m (10030')
VERTICAL DEPTH	3056.60	m
DEPTH OF RETURNS	3053.50	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.30	lb/gal
ACTIVE SURFACE MUD VOLUME	460	bbl
FLOW RATE	613	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2930	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

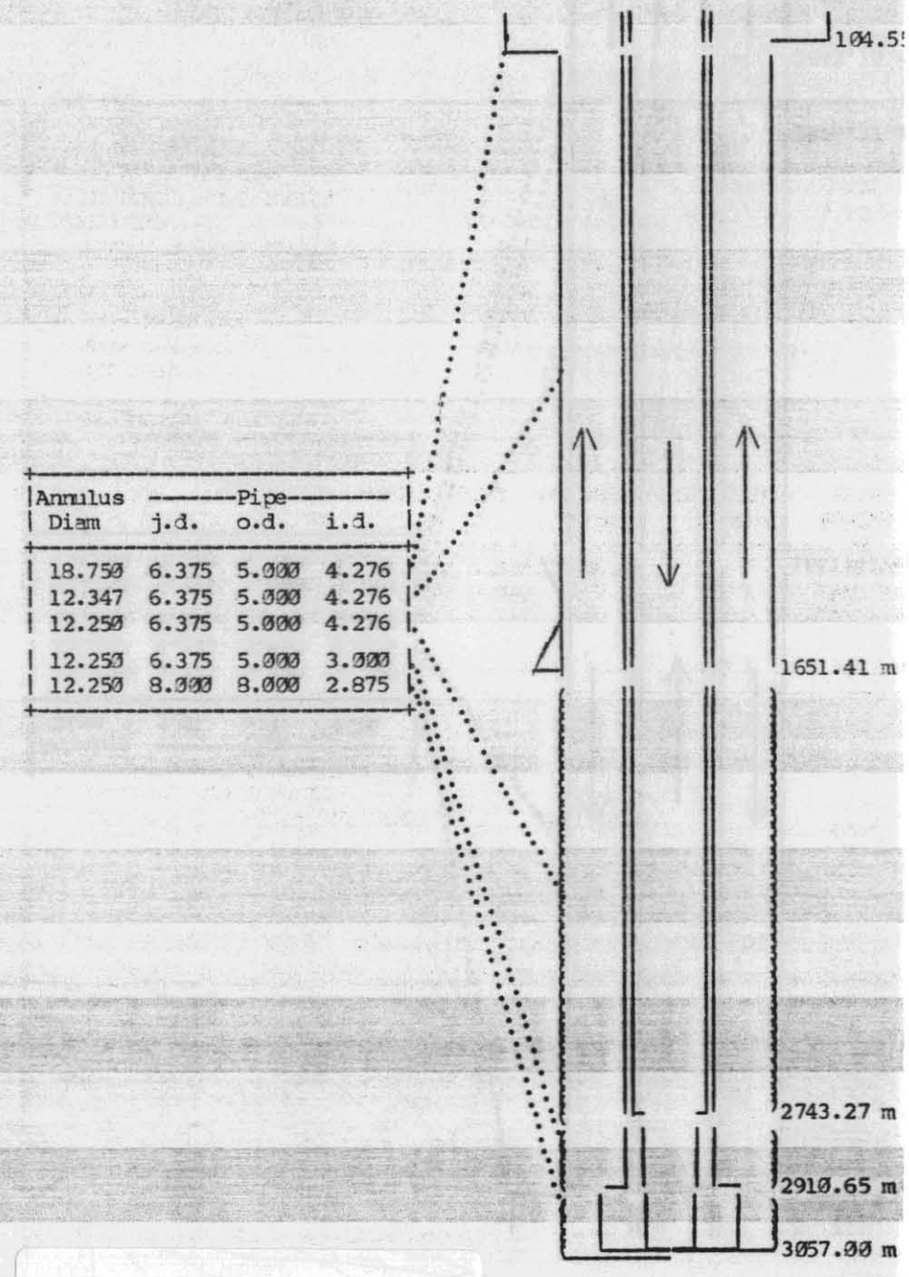
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	46.0	255.7	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	117.9	341.2	LAMINAR	26.2
1651.4	2743.3	1091.9	12.250/ 5.000	120.1	343.2	LAMINAR	19.1
2743.2	2910.7	167.38	12.250/ 5.000	120.1	343.2	LAMINAR	2.9
2910.5	3057.0	146.35	12.250/ 8.000	174.6	438.1	LAMINAR	7.5

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.28	lb/gal	
FLOW CONTRIBUTION	.11	lb/gal	
CUTTINGS CONTRIBUTION	.04	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.43	lb/gal	

SURFACE PRESSURE LOSS	44 psi	NOZZLE VELOCITY	436.0 ft/sec
PIPEBORE PRESSURE LOSS	1349 psi	HYDRAULIC POWER	564.6 hp
ANNULAR PRESSURE LOSS	56 psi	JET IMPACT FORCE	1286.5 lbs
BIT PRESSURE LOSS	1579 psi	% OF PRESS LOSS AT BIT	52
TOTAL CALC. PRESS LOSS	3028 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 124 s.p.m.	
1) Pipe Capacity	7077	169	1427	11.5	
2) Pipe Displacement	4215	100	850	6.9	
3) Total Annulus	53136	1265	10713	86.7	<- LAG
4) Mud in active pits	19337	460	3899	31.5	
Circulation (1) + (3)	60213	1434	12140	98.2	
Hole Volume (1)+(2)+(3)	64429	1534	12990	105.1	
Total Mud Circulation	79550	1894	16038	129.8	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR = 1.0280					
Corrected Annulus	54822	1305	11053	89.4	<- LAG
Corrected Hole	66114	1574	13330	107.9	



329346

NB#15 : 3066m T.D. 10 Oct

AMOCO AUST. Tilana No.1
Date : 10 Oct 85 Time : 00:53

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	24.00	cP
YIELD POINT	17.00	lb/cft^2
POWER LAW k	.6777	
POWER LAW n	.6648	
DEPTH	3066.00	m (10,060)
VERTICAL DEPTH	3065.60	m
DEPTH OF RETURNS	3065.00	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.30	lb/gal
ACTIVE SURFACE MUD VOLUME	430	bbl
FLOW RATE	612	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2880	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

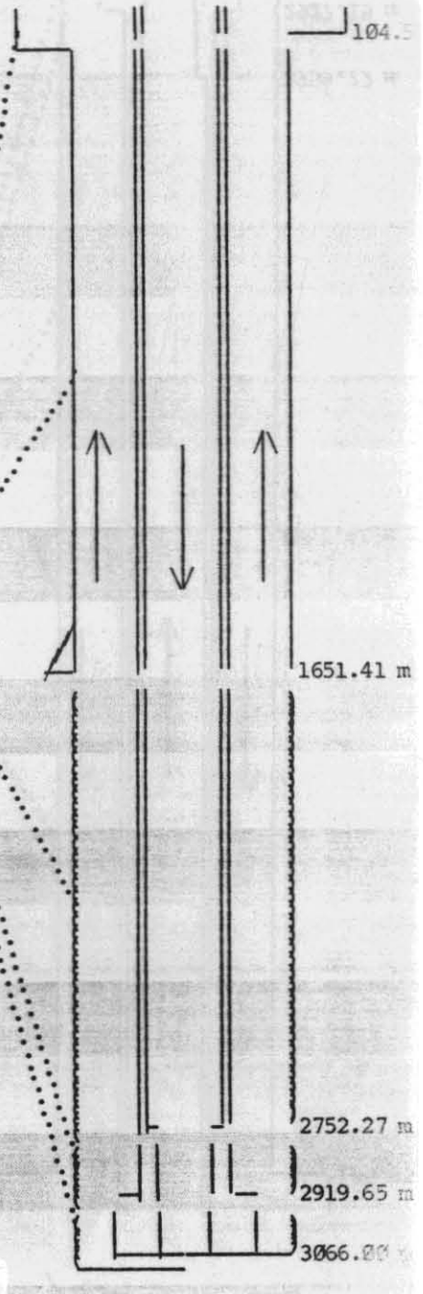
CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	45.9	205.2	LAMINAR	.2
104.55	1651.4	1546.9	12.347/ 5.000	117.7	283.3	LAMINAR	19.9
1651.4	2752.3	1100.9	12.250/ 5.000	119.9	285.2	LAMINAR	14.7
2752.0	2919.7	167.38	12.250/ 5.000	119.9	285.2	LAMINAR	2.2
2919.4	3066.0	146.35	12.250/ 8.000	174.3	374.7	LAMINAR	6.0

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.30	lb/gal	
FLOW CONTRIBUTION	.08	lb/gal	
CUTTINGS CONTRIBUTION	.01	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.39	lb/gal	
SURFACE PRESSURE LOSS	44	psi	
PIPEBORE PRESSURE LOSS	1366	psi	
ANNULAR PRESSURE LOSS	43	psi	
BIT PRESSURE LOSS	1574	psi	
TOTAL CALC. PRESS LOSS	3027	psi	
NOZZLE VELOCITY	435.4	ft/sec	
HYDRAULIC POWER	562.0	hp	
JET IMPACT FORCE	1282.6	lbs	
% OF PRESS LOSS AT BIT	52		

VOLUMES:	gal	bbl	Strokes	Minutes @ 123 s.p.m.
1) Pipe Capacity	7099	169	1431	11.6
2) Pipe Displacement	4224	101	852	6.9
3) Total Annulus	53286	1269	10743	87.1 <- LAG
4) Mud in active pits	18060	430	3641	29.5
Circulation (1) + (3)	60385	1438	12174	98.7
Hole Volume (1)+(2)+(3)	64609	1538	13026	105.6
Total Mud Circulation	78445	1868	15816	128.2
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0280				
Corrected Annulus	54976	1309	11084	89.8 <- LAG
Corrected Hole	66300	1579	13367	108.3



329347

NB#16 : 3074m : 12 Oct. '85.

AMOCO AUST. Tilana No.1
Date : 12 Oct 85 Time : 04:59

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	23.00 cP
YIELD POINT	20.00 lb/cft^2
POWER LAW k	.9482
POWER LAW n	.6181
DEPTH	3073.50 m (10,084')
VERTICAL DEPTH	3073.10 m
DEPTH OF RETURNS	3066.00 m
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	9.30 lb/gal
ACTIVE SURFACE MUD VOLUME	444 bbl
FLOW RATE	520 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2150 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	14, 14, 14

CALCULATED RESULTS:

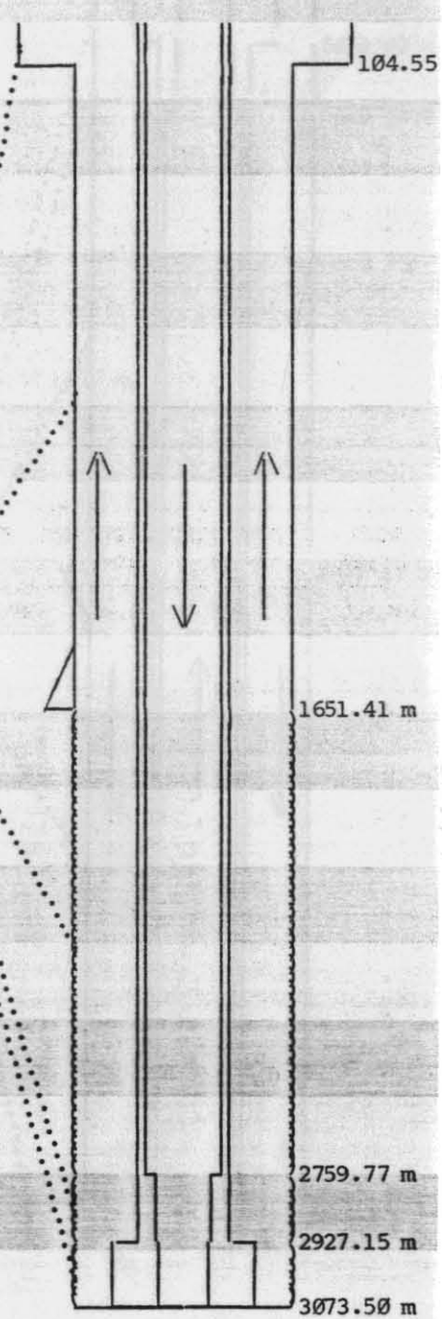
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	39.0	238.2	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	100.0	318.4	LAMINAR	21.5
1651.4	2759.8	1108.4	12.250/ 5.000	101.9	320.4	LAMINAR	15.9
2759.7	2927.2	167.38	12.250/ 5.000	101.9	320.4	LAMINAR	2.4
2927.0	3073.5	146.35	12.250/ 8.000	148.1	409.6	LAMINAR	6.2

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.28 lb/gal
FLOW CONTRIBUTION	.09 lb/gal
CUTTINGS CONTRIBUTION	.05 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.42 lb/gal

SURFACE PRESSURE LOSS	32 psi	NOZZLE VELOCITY	369.9 ft/sec
PIPEBORE PRESSURE LOSS	1016 psi	HYDRAULIC POWER	344.7 hp
ANNULAR PRESSURE LOSS	46 psi	JET IMPACT FORCE	926.0 lbs
BIT PRESSURE LOSS	1136 psi	% OF PRESS LOSS AT BIT	51
TOTAL CALC. PRESS LOSS	2231 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 105 s.p.m.
1) Pipe Capacity	7118	169	1435	13.7
2) Pipe Displacement	4232	101	853	8.1
3) Total Annulus	53411	1272	10768	102.7 <- LAG
4) Mud in active pits	18652	444	3761	35.9
Circulation (1) + (3)	60528	1441	12203	116.4
Hole Volume (1)+(2)+(3)	64760	1542	13056	124.5
Total Mud Circulation	79180	1885	15964	152.3
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR =	1.0280			
Corrected Annulus	55105	1312	11110	106.0 <- LAG
Corrected Hole	66455	1582	13398	127.8



EXLOG

329348

NB # 16 : 12 Oct. 85

AMOCO AUST. Tilana No.1
Date : 12 Oct 85 Time : 06:07

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	23.00 cP
YIELD POINT	20.00 lb/cft^2
POWER LAW k	.9482
POWER LAW n	.6181
DEPTH	3076.64 m (10,094')
VERTICAL DEPTH	3076.23 m
DEPTH OF RETURNS	3068.76 m
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	9.30 lb/gal
ACTIVE SURFACE MUD VOLUME	385 bbl
FLOW RATE	604 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2850 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	14, 14, 14

CALCULATED RESULTS:

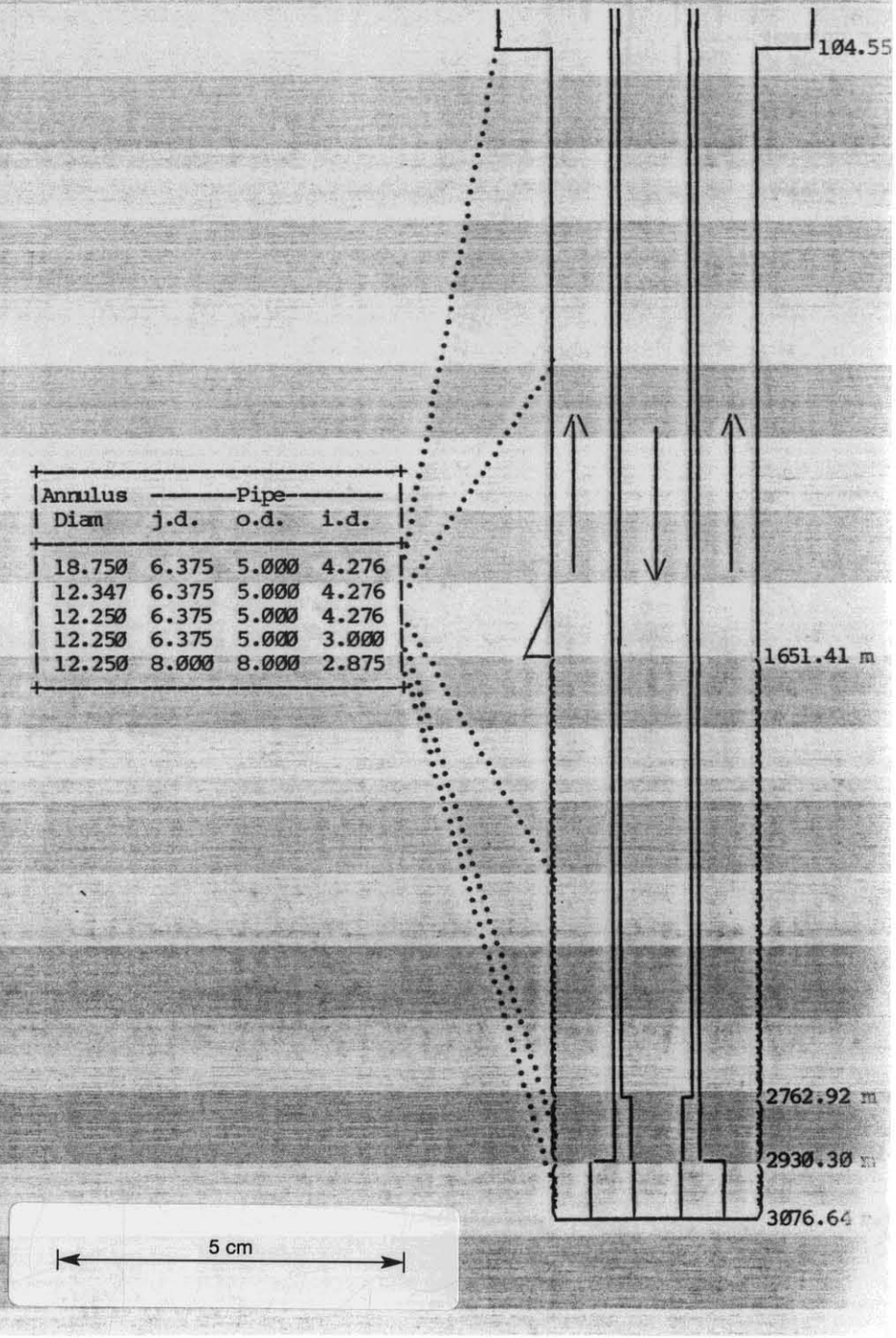
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	45.3	238.2	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	116.1	318.4	LAMINAR	23.6
1651.4	2762.9	1111.5	12.250/ 5.000	118.3	320.4	LAMINAR	17.5
2762.7	2930.3	167.38	12.250/ 5.000	118.3	320.4	LAMINAR	2.6
2930.0	3076.6	146.35	12.250/ 8.000	172.0	409.6	LAMINAR	6.8

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.28 lb/gal
FLOW CONTRIBUTION	.10 lb/gal
CUTTINGS CONTRIBUTION	.05 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.43 lb/gal

SURFACE PRESSURE LOSS	43 psi	NOZZLE VELOCITY	429.6 ft/sec
PIPEBORE PRESSURE LOSS	1294 psi	HYDRAULIC POWER	539.8 hp
ANNULAR PRESSURE LOSS	51 psi	JET IMPACT FORCE	1248.6 lbs
BIT PRESSURE LOSS	1532 psi	% OF PRESS LOSS AT BIT	52
TOTAL CALC. PRESS LOSS	2920 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 122 s.p.m.
1) Pipe Capacity	7125	170	1437	11.8
2) Pipe Displacement	4235	101	854	7.0
3) Total Annulus	53463	1273	10779	88.5 <- LAG
4) Mud in active pits	16187	385	3263	26.8
Circulation (1) + (3)	60588	1443	12215	100.3
Hole Volume (1)+(2)+(3)	64823	1543	13069	107.4
Total Mud Circulation	76775	1828	15479	127.1
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0280				
Corrected Annulus	55159	1313	11121	91.3 <- LAG
Corrected Hole	66520	1584	13411	110.2



329349

AMOCO AUST. Tilana No.1
Date : 13 Oct 85 Time : 04:38

NB #16; 13 Oct '85: 3155m.

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	27.00	cP
YIELD POINT	21.00	lb/cft^2
POWER LAW k	.9030	
POWER LAW n	.6439	
DEPTH	3155.00	m (10,352')
VERTICAL DEPTH	3154.60	m
DEPTH OF RETURNS	3150.00	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.30	lb/gal
ACTIVE SURFACE MUD VOLUME	505	bbl
FLOW RATE	617	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2910	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

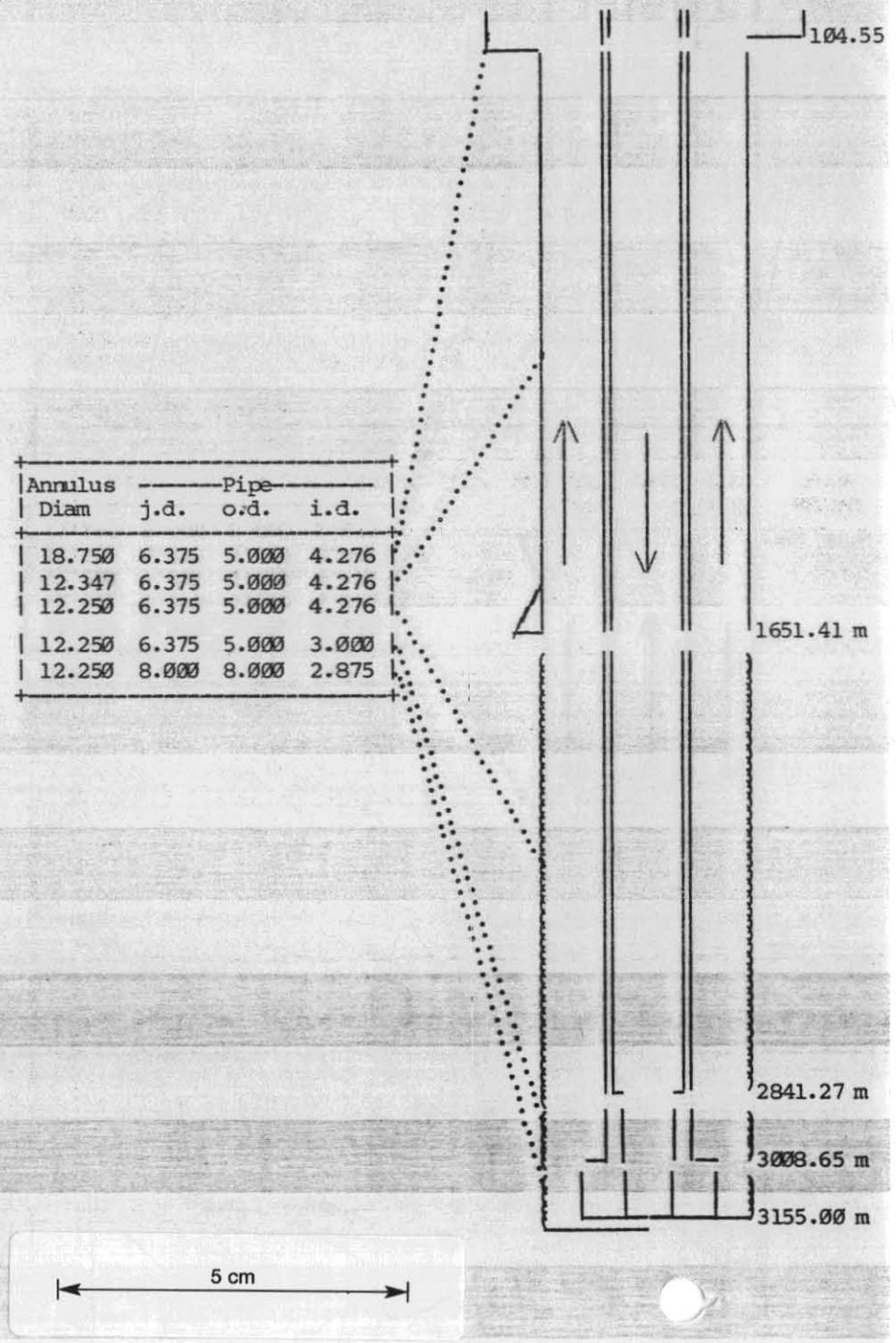
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	46.3	243.0	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	118.7	330.5	LAMINAR	24.8
1651.4	2841.3	1189.9	12.250/ 5.000	120.9	332.6	LAMINAR	19.8
2841.0	3008.7	167.38	12.250/ 5.000	120.9	332.6	LAMINAR	2.8
3008.4	3155.0	146.35	12.250/ 8.000	175.7	431.6	LAMINAR	7.3

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.29	lb/gal	
FLOW CONTRIBUTION	.10	lb/gal	
CUTTINGS CONTRIBUTION	.03	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.42	lb/gal	

SURFACE PRESSURE LOSS	45 psi	NOZZLE VELOCITY	438.9 ft/sec
PIPEBORE PRESSURE LOSS	1444 psi	HYDRAULIC POWER	575.9 hp
ANNULAR PRESSURE LOSS	55 psi	JET IMPACT FORCE	1303.7 lbs
BIT PRESSURE LOSS	1600 psi	% OF PRESS LOSS AT BIT	51
TOTAL CALC. PRESS LOSS	3144 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 124 s.p.m.	
1) Pipe Capacity	7317	174	1475	11.9	
2) Pipe Displacement	4314	103	870	7.0	
3) Total Annulus	54766	1304	11042	88.8	<- LAG
4) Mud in active pits	21202	505	4275	34.4	
Circulation (1) + (3)	62083	1478	12517	100.6	
Hole Volume (1)+(2)+(3)	66397	1581	13387	107.6	
Total Mud Circulation	83285	1983	16791	135.0	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0280				
Corrected Annulus	56505	1345	11392	91.6	<- LAG
Corrected [illegible]	68135	1622	13737	110.4	



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AMOCO AUST. Tilana No.1
Date : 14 Oct 85 Time : 04:

329350

NB# 16 : 3224m : 14 Oct '85.

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	24.00	cP
YIELD POINT	18.00	lb/cft^2
POWER LAW k	.7511	
POWER LAW n	.6521	
DEPTH	3224.00	m (10,578')
VERTICAL DEPTH	3223.70	m
DEPTH OF RETURNS	3221.00	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.30	lb/gal
ACTIVE SURFACE MUD VOLUME	436	bbl
FLOW RATE	616	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2840	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

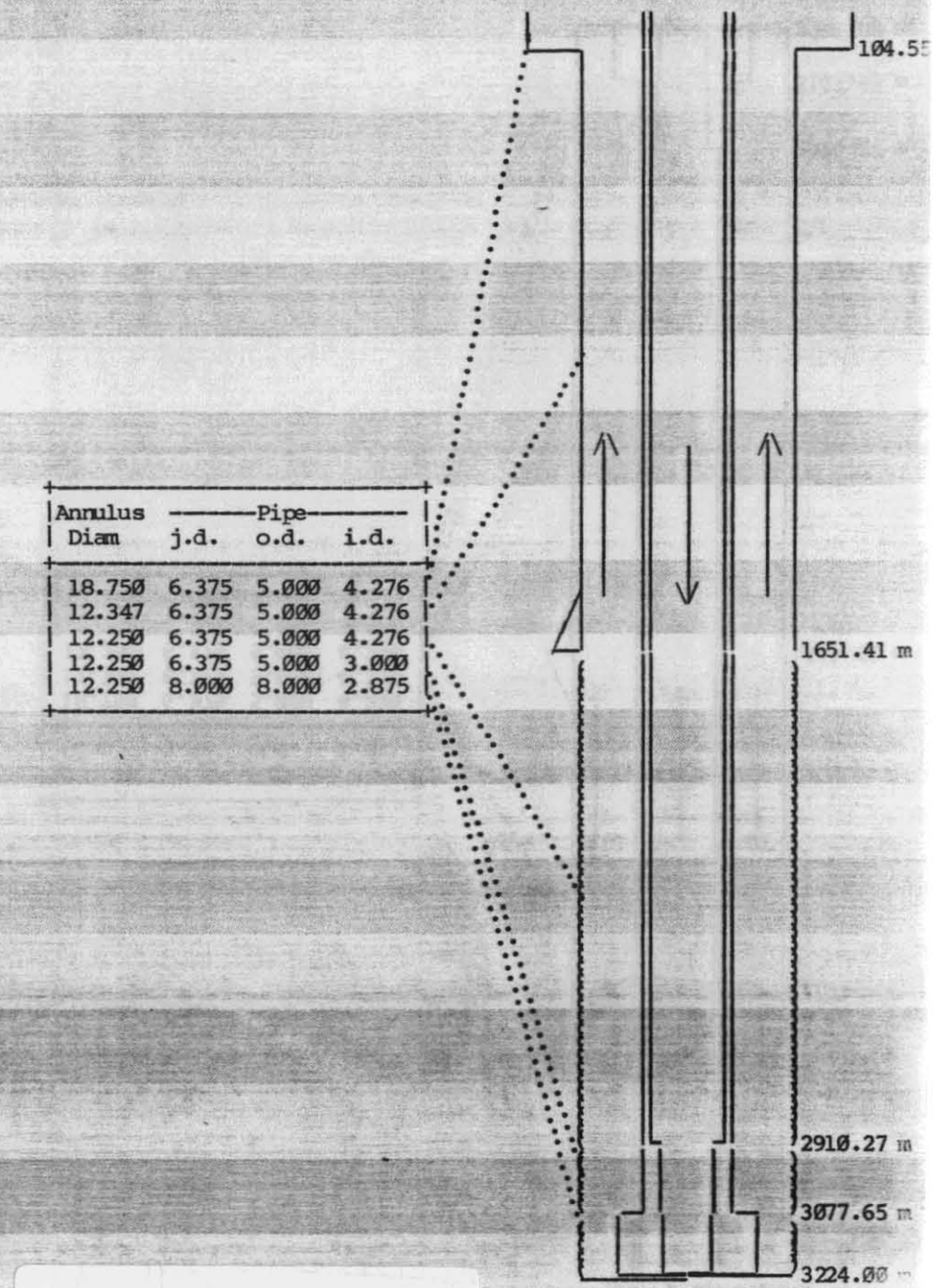
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	46.2	215.8	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	118.4	295.2	LAMINAR	21.2
1651.4	2910.3	1258.9	12.250/ 5.000	120.6	297.1	LAMINAR	17.9
2910.2	3077.7	167.38	12.250/ 5.000	120.6	297.1	LAMINAR	2.4
3077.6	3224.0	146.35	12.250/ 8.000	175.3	387.4	LAMINAR	6.3

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.29	lb/gal
FLOW CONTRIBUTION	.09	lb/gal
CUTTINGS CONTRIBUTION	.02	lb/gal
EQUIVALENT CIRCULATING DENSITY	9.40	lb/gal

SURFACE PRESSURE LOSS	44 psi	NOZZLE VELOCITY	437.9 ft/sec
PIPEBORE PRESSURE LOSS	1419 psi	HYDRAULIC POWER	571.7 hp
ANNULAR PRESSURE LOSS	48 psi	JET IMPACT FORCE	1297.4 lbs
BIT PRESSURE LOSS	1592 psi	% OF PRESS LOSS AT BIT	51
TOTAL CALC. PRESS LOSS	3104 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 124 s.p.m.	
1) Pipe Capacity	7486	178	1509	12.2	
2) Pipe Displacement	4383	104	884	7.1	
3) Total Annulus	55914	1331	11273	90.8	<- LAG
4) Mud in active pits	18325	436	3694	29.8	
Circulation (1) + (3)	63400	1510	12782	103.0	
Hole Volume (1)+(2)+(3)	67783	1614	13666	110.1	
Total Mud Circulation	81725	1946	16477	132.8	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0549				
Corrected Annulus	59394	1414	11975	96.5	<- LAG
Corrected Hole	71262	1697	14367	115.8	



329351

AMOCO AUST. Tilana No.1
Date : 15 Oct 85 Time : 04:27

NB#16; 15 Oct '85 : 3290m.

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	21.00	cP
YIELD POINT	16.00	lb/cft^2
POWER LAW k	.6763	
POWER LAW n	.6485	
DEPTH	3290.00	m (10,794')
VERTICAL DEPTH	3289.60	m
DEPTH OF RETURNS	3285.50	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.30	lb/gal
ACTIVE SURFACE MUD VOLUME	414	bbl
FLOW RATE	605	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2770	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

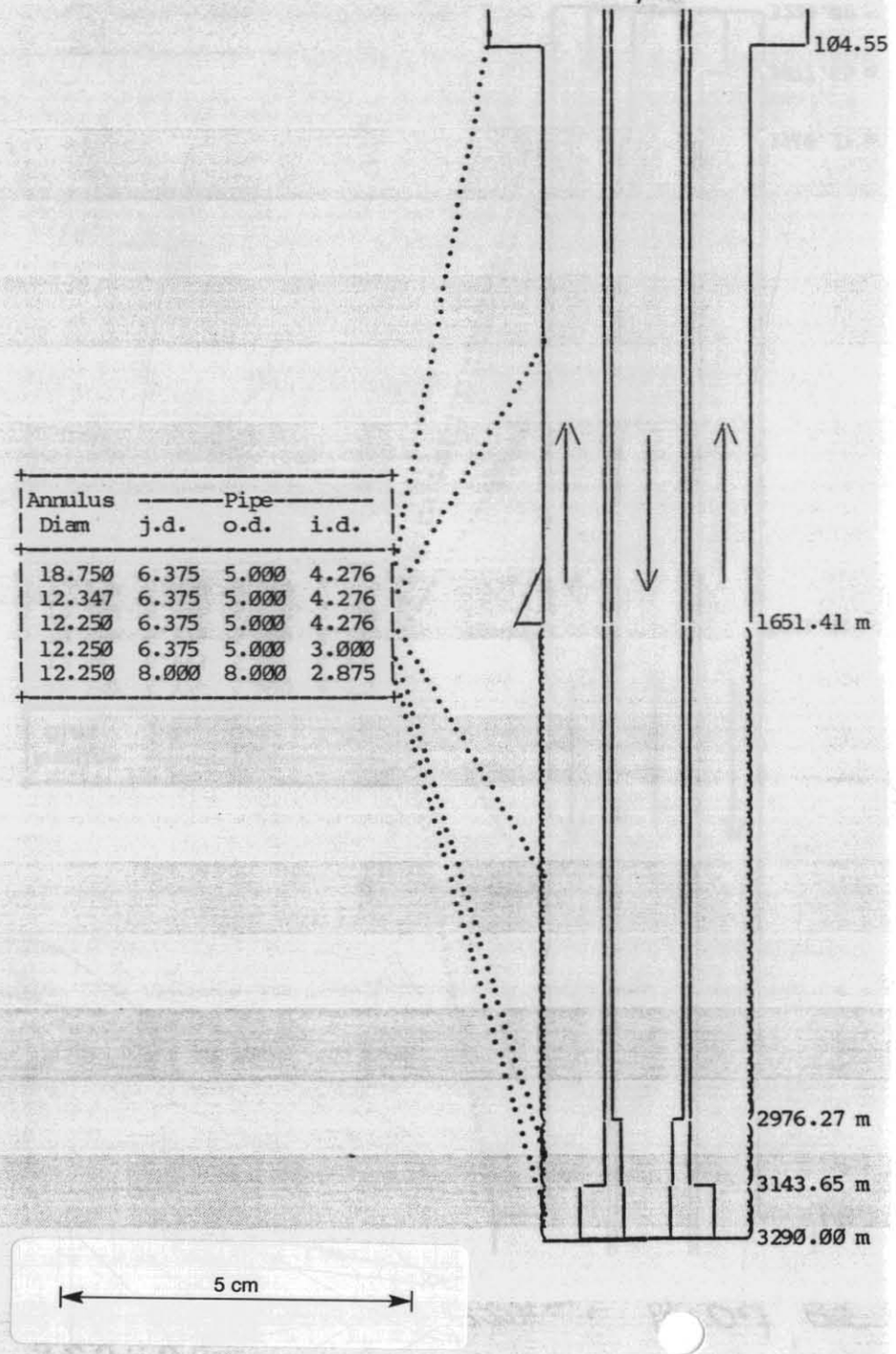
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	45.4	198.2	LAMINAR	.2
104.55	1651.4	1546.9	12.347/ 5.000	116.3	270.5	LAMINAR	18.7
1651.4	2976.3	1324.9	12.250/ 5.000	118.6	272.2	LAMINAR	16.6
2976.1	3143.7	167.38	12.250/ 5.000	118.6	272.2	LAMINAR	2.1
3143.4	3290.0	146.35	12.250/ 8.000	172.3	354.2	LAMINAR	5.5

MUD HYDROSTATIC	9.29	lb/gal
FLOW CONTRIBUTION	.08	lb/gal
CUTTINGS CONTRIBUTION	.03	lb/gal
EQUIVALENT CIRCULATING DENSITY	9.39	lb/gal

SURFACE PRESSURE LOSS	43 psi	NOZZLE VELOCITY	430.4 ft/sec
PIPEBORE PRESSURE LOSS	1347 psi	HYDRAULIC POWER	542.8 hp
ANNULAR PRESSURE LOSS	43 psi	JET IMPACT FORCE	1253.2 lbs
BIT PRESSURE LOSS	1538 psi	% OF PRESS LOSS AT BIT	52
TOTAL CALC. PRESS LOSS	2971 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 122 s.p.m.
1) Pipe Capacity	7647	182	1542	12.6
2) Pipe Displacement	4449	106	897	7.4
3) Total Annulus	57012	1357	11494	94.2 <- LAG
4) Mud in active pits	17367	414	3501	28.7
Circulation (1) + (3)	64660	1540	13036	106.9
Hole Volume (1)+(2)+(3)	69109	1645	13933	114.2
Total Mud Circulation	82027	1953	16538	135.6
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR =	1.0549			
Corrected Annulus	60561	1442	12210	100.1 <- LAG
Corrected [illegible]	72657	1730	14649	120.1

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875



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329352

AMOCO AUST. Tilana No.1
Date : 16 Oct 85 Time : 04:..

NB 16 : 3311.7m : 16 Oct. '85.

Hyds. for NB 16 : Reaming with NB #..

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	20.00	cP
YIELD POINT	16.00	lb/cft^2
POWER LAW k	.7047	
POWER LAW n	.6374	
DEPTH	3311.70	m (10,866')
VERTICAL DEPTH	3311.40	m
DEPTH OF RETURNS	3311.70	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.30	lb/gal
ACTIVE SURFACE MUD VOLUME	396	bbl
FLOW RATE	606	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2770	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

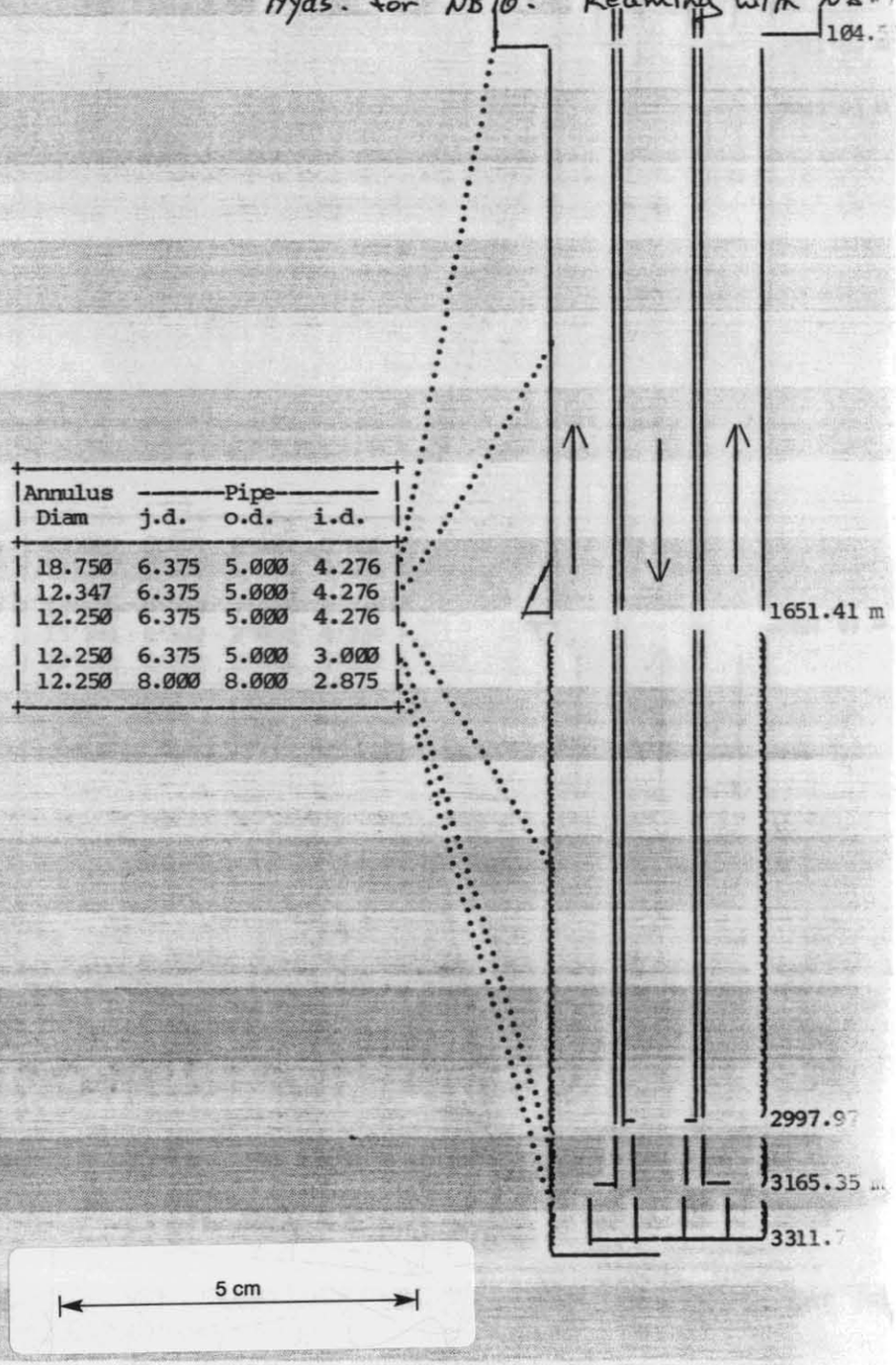
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	45.5	199.7	LAMINAR	.2
104.55	1651.4	1546.9	12.347/ 5.000	116.5	270.5	LAMINAR	18.7
1651.4	2998.0	1346.6	12.250/ 5.000	118.8	272.2	LAMINAR	16.9
2997.7	3165.4	167.38	12.250/ 5.000	118.8	272.2	LAMINAR	2.1
3165.3	3311.7	146.35	12.250/ 8.000	172.6	351.9	LAMINAR	5.5

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.30	lb/gal	
FLOW CONTRIBUTION	.08	lb/gal	
CUTTINGS CONTRIBUTION	0.00	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.38	lb/gal	

SURFACE PRESSURE LOSS	43 psi	NOZZLE VELOCITY	431.1 ft/sec
PIPEBORE PRESSURE LOSS	1331 psi	HYDRAULIC POWER	545.6 hp
ANNULAR PRESSURE LOSS	43 psi	JET IMPACT FORCE	1257.6 lbs
BIT PRESSURE LOSS	1543 psi	% OF PRESS LOSS AT BIT	52
TOTAL CALC. PRESS LOSS	2961 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 122 s.p.m.
1) Pipe Capacity	7701	183	1553	12.7
2) Pipe Displacement	4471	106	901	7.4
3) Total Annulus	57373	1366	11567	94.7 <- LAG
4) Mud in active pits	16632	396	3353	27.4
Circulation (1) + (3)	65074	1549	13120	107.4
Hole Volume (1)+(2)+(3)	69545	1656	14021	114.8
Total Mud Circulation	81706	1945	16473	134.8
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR =	1.0549			
Corrected Annulus	60944	1451	12287	100.6 <- LAG
Corrected Hole	73116	1741	14741	120.7



329353

NB#17 : 3357m : Hydraulics for 3¼ jet

18 Oct '85

AMOCO AUST. Tilana No.1
Date : 18 Oct 85 Time : 04:31

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	31.00 cP
YIELD POINT	27.00 lb/cft^2
POWER LAW k	1.2820
POWER LAW n	.6178
DEPTH	3357.40 m (11,015')
VERTICAL DEPTH	3357.00 m
DEPTH OF RETURNS	3352.40 m
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	9.60 lb/gal
ACTIVE SURFACE MUD VOLUME	388 bbl
FLOW RATE	470 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	2900 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	14, 14, 14

CALCULATED RESULTS:

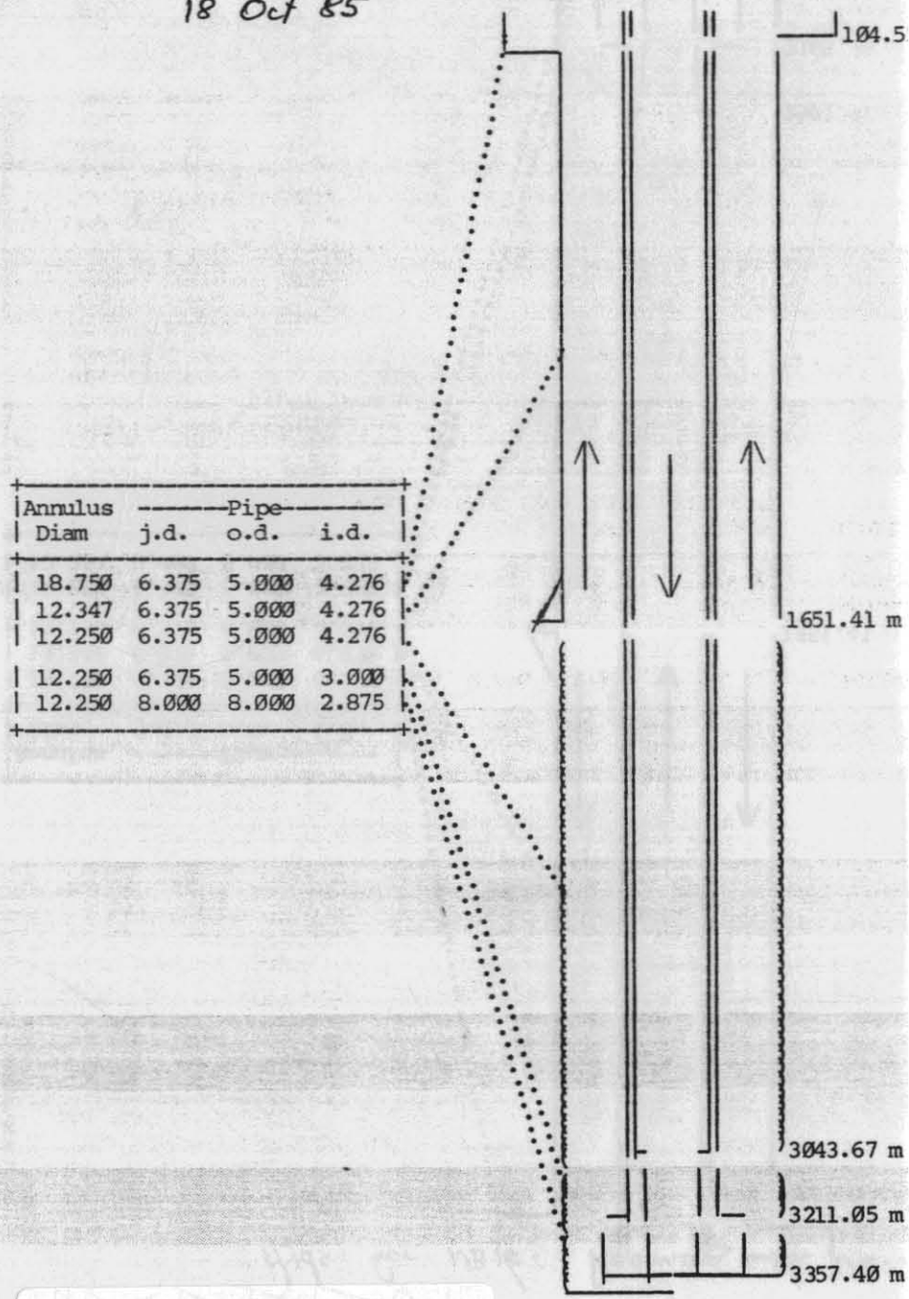
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	35.3	289.4	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	90.4	386.7	LAMINAR	27.3
1651.4	3043.7	1392.3	12.250/ 5.000	92.1	389.0	LAMINAR	25.4
3043.4	3211.1	167.38	12.250/ 5.000	92.1	389.0	LAMINAR	3.1
3210.8	3357.4	146.35	12.250/ 8.000	133.8	497.2	LAMINAR	7.8

MUD HYDROSTATIC	9.59 lb/gal
FLOW CONTRIBUTION	.11 lb/gal
CUTTINGS CONTRIBUTION	.03 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.73 lb/gal

SURFACE PRESSURE LOSS	28 psi	NOZZLE VELOCITY	334.2 ft/sec
PIPEBORE PRESSURE LOSS	1021 psi	HYDRAULIC POWER	262.5 hp
ANNULAR PRESSURE LOSS	64 psi	JET IMPACT FORCE	780.3 lbs
BIT PRESSURE LOSS	958 psi	% OF PRESS LOSS AT BIT	46
TOTAL CALC. PRESS LOSS	2071 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 95 s.p.m.	
1) Pipe Capacity	7812	186	1575	16.6	
2) Pipe Displacement	4516	108	911	9.6	
3) Total Annulus	58134	1384	11720	123.7	<- LAG
4) Mud in active pits	16279	388	3282	34.6	
Circulation (1) + (3)	65946	1570	13296	140.4	
Hole Volume (1)+(2)+(3)	70462	1678	14206	150.0	
Total Mud Circulation	82225	1958	16578	175.0	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR = 1.0990					
Corrected Annulus	64664	1540	13037	137.6	<- LAG
Corrected Hole	76993	1833	15523	163.9	

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875



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329354

AMOCO AUST. Tilana No.1
Date : 18 Oct 85 Time : 04:35

NB#17 : 3357m : Hydraulics for 24½ sets. 18 Oct. '85.

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	31.00	cP
YIELD POINT	27.00	lb/cft^2
POWER LAW k	1.2820	
POWER LAW n	.6178	
DEPTH	3357.40	m (11,016')
VERTICAL DEPTH	3357.00	m
DEPTH OF RETURNS	3352.40	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.60	lb/gal
ACTIVE SURFACE MUD VOLUME	388	bbl
FLOW RATE	470	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2900	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14	

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	35.3	289.4	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	90.4	386.7	LAMINAR	27.3
1651.4	3043.7	1392.3	12.250/ 5.000	92.1	389.0	LAMINAR	25.4
3043.4	3211.1	167.38	12.250/ 5.000	92.1	389.0	LAMINAR	3.1
3210.8	3357.4	146.35	12.250/ 8.000	133.8	497.2	LAMINAR	7.8

MUD HYDROSTATIC	9.59	lb/gal	
FLOW CONTRIBUTION	.11	lb/gal	
CUTTINGS CONTRIBUTION	.03	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.73	lb/gal	

SURFACE PRESSURE LOSS	28 psi	NOZZLE VELOCITY	501.4 ft/sec
PIPEBORE PRESSURE LOSS	1021 psi	HYDRAULIC POWER	590.6 hp
ANNULAR PRESSURE LOSS	64 psi	JET IMPACT FORCE	1170.4 lbs
BIT PRESSURE LOSS	2154 psi	% OF PRESS LOSS AT BIT	66
TOTAL CALC. PRESS LOSS	3267 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 95 s.p.m.	
1) Pipe Capacity	7812	186	1575	16.6	
2) Pipe Displacement	4516	108	911	9.6	
3) Total Annulus	58134	1384	11720	123.7	<- LAG
4) Mud in active pits	16279	388	3282	34.6	
Circulation (1) + (3)	65946	1570	13296	140.4	
Hole Volume (1)+(2)+(3)	70462	1678	14206	150.0	
Total Mud Circulation	82225	1958	16578	175.0	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0990				
Corrected Annulus	64664	1540	13037	137.6	<- LAG
Corrected Hole	76993	1833	15523	163.9	

329355

AMOCO AUST Tilana No.1
Date : 19 Oct '85 Time : 04:33

NB#17: Hydraulics for one blocked jet
19 Oct. '85.

HYDRAULICS CALCULATIONS

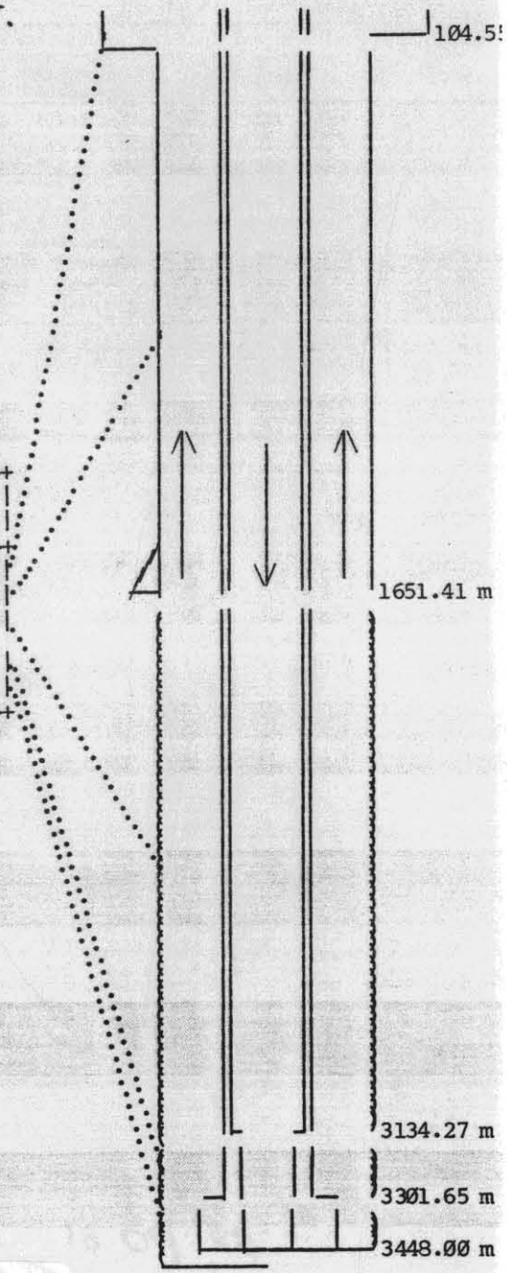
PLASTIC VISCOSITY	28.00 cP
YIELD POINT	23.00 lb/cft^2
POWER LAW k	1.0365
POWER LAW n	.6314
DEPTH	3448.00 m (11,313')
VERTICAL DEPTH	3447.60 m
DEPTH OF RETURNS	3441.00 m
CUTTINGS BULK DENSITY	2.50 spc grv
MUD DENSITY	9.60 lb/gal
ACTIVE SURFACE MUD VOLUME	439 bbl
FLOW RATE	473 gal/min
BOOSTER FLOW	0 gal/min
PUMP PRESSURE	3010 psi
PUMP gal/stk	4.96 gal/stk
BIT NOZZLES	14, 14

One blocked jet.

CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	35.5	255.6	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	91.0	344.7	LAMINAR	23.1
1651.4	3134.3	1482.9	12.250/ 5.000	92.7	346.8	LAMINAR	22.9
3134.3	3301.7	167.38	12.250/ 5.000	92.7	346.8	LAMINAR	2.6
3301.6	3448.0	146.35	12.250/ 8.000	134.7	446.7	LAMINAR	6.7

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875



MUD HYDROSTATIC	9.58 lb/gal
FLOW CONTRIBUTION	.09 lb/gal
CUTTINGS CONTRIBUTION	.04 lb/gal
EQUIVALENT CIRCULATING DENSITY	9.72 lb/gal

SURFACE PRESSURE LOSS	28 psi	NOZZLE VELOCITY	504.7 ft/sec
PIPEBORE PRESSURE LOSS	1028 psi	HYDRAULIC POWER	602.6 hp
ANNULAR PRESSURE LOSS	56 psi	JET IMPACT FORCE	1186.3 lbs
BIT PRESSURE LOSS	2184 psi	% OF PRESS LOSS AT BIT	66
TOTAL CALC. PRESS LOSS	3295 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 95 s.p.m.
1) Pipe Capacity	8034	191	1620	17.0
2) Pipe Displacement	4607	110	929	9.7
3) Total Annulus	59641	1420	12024	126.1 <- LAG
4) Mud in active pits	18417	439	3713	38.9
Circulation (1) + (3)	67675	1611	13644	143.1
Hole Volume (1)+(2)+(3)	72282	1721	14573	152.8
Total Mud Circulation	86092	2050	17357	182.0
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR =	1.0990			
Corrected Annulus	66343	1580	13376	140.3 <- LAG
Corrected Hole	78984	1881	15924	167.0

5 cm

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329356

AMOCO AUST. Tilana No.1
Date : 20 Oct 85 Time : 05:11

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	30.00	cP
YIELD POINT	23.00	lb/cft^2
POWER LAW k	1.4177	
POWER LAW n	.6015	
DEPTH	3463.60	m (11,364')
VERTICAL DEPTH	3463.22	m
DEPTH OF RETURNS	3458.19	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.52	lb/gal
ACTIVE SURFACE MUD VOLUME	373	bbl
FLOW RATE	595	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2930	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

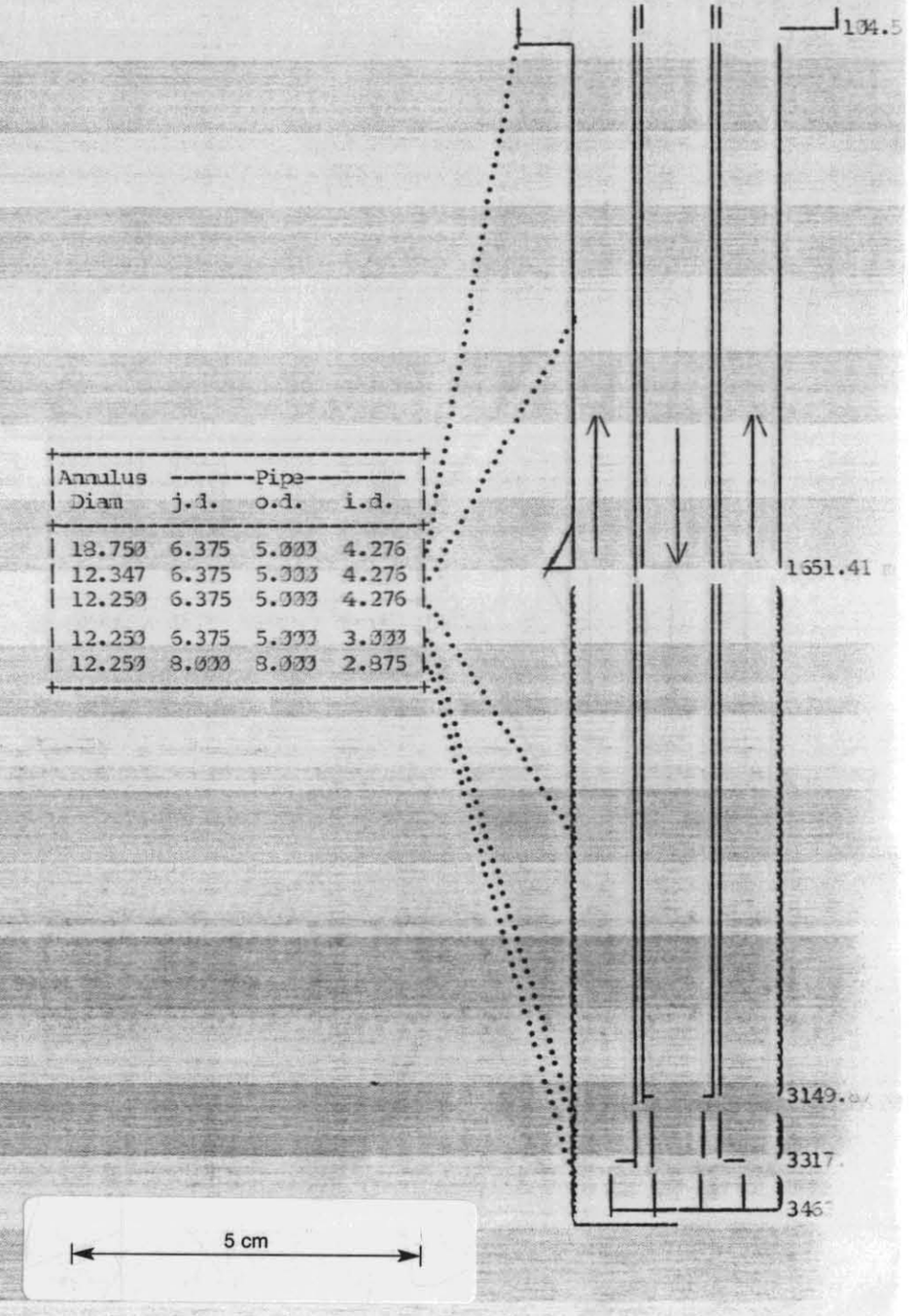
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	44.7	301.6	LAMINAR	.4
104.55	1651.4	1546.9	12.347/ 5.000	114.4	398.7	LAMINAR	33.0
1651.4	3149.9	1498.5	12.250/ 5.000	116.6	401.0	LAMINAR	33.1
3149.8	3317.3	167.33	12.250/ 5.000	116.6	401.0	LAMINAR	3.7
3317.1	3463.6	146.35	12.250/ 8.000	169.5	507.9	LAMINAR	9.4

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.51	lb/gal	
FLOW CONTRIBUTION	.14	lb/gal	
CUTTINGS CONTRIBUTION	.00	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.67	lb/gal	

SURFACE PRESSURE LOSS	43 psi	NOZZLE VELOCITY	423.3 ft/sec
PIPEBORE PRESSURE LOSS	1494 psi	HYDRAULIC POWER	528.7 hp
ANNULAR PRESSURE LOSS	80 psi	JET IMPACT FORCE	1241.1 lbs
BIT PRESSURE LOSS	1523 psi	% OF PRESS LOSS AT BIT	49
TOTAL CALC. PRESS LOSS	3140 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 120 s.p.m.
1) Pipe Capacity	8072	192	1627	13.6
2) Pipe Displacement	4623	110	932	7.8
3) Total Annulus	59900	1426	12077	100.7 <- LAG
4) Mud in active pits	15670	373	3159	26.3
Circulation (1) + (3)	67973	1618	13704	114.2
Hole Volume (1)+(2)+(3)	72595	1728	14636	122.0
Total Mud Circulation	83643	1991	16863	140.6
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0900				
Corrected Annulus	66632	1586	13434	112.0 <- LAG
Corrected Hole	79327	1889	15993	133.3



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329357

AMOCO AUST. Tilana No.1
Date : 21 Oct 81 Time : 04:26

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	30.00	cP
YIELD POINT	23.00	lb/cft^2
POWER LAW k	1.4177	
POWER LAW n	.6015	
DEPTH	3534.93	m (11,598')
VERTICAL DEPTH	3534.55	m
DEPTH OF RETURNS	3523.00	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.63	lb/gal
ACTIVE SURFACE MUD VOLUME	472	bbl
FLOW RATE	595	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	3000	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

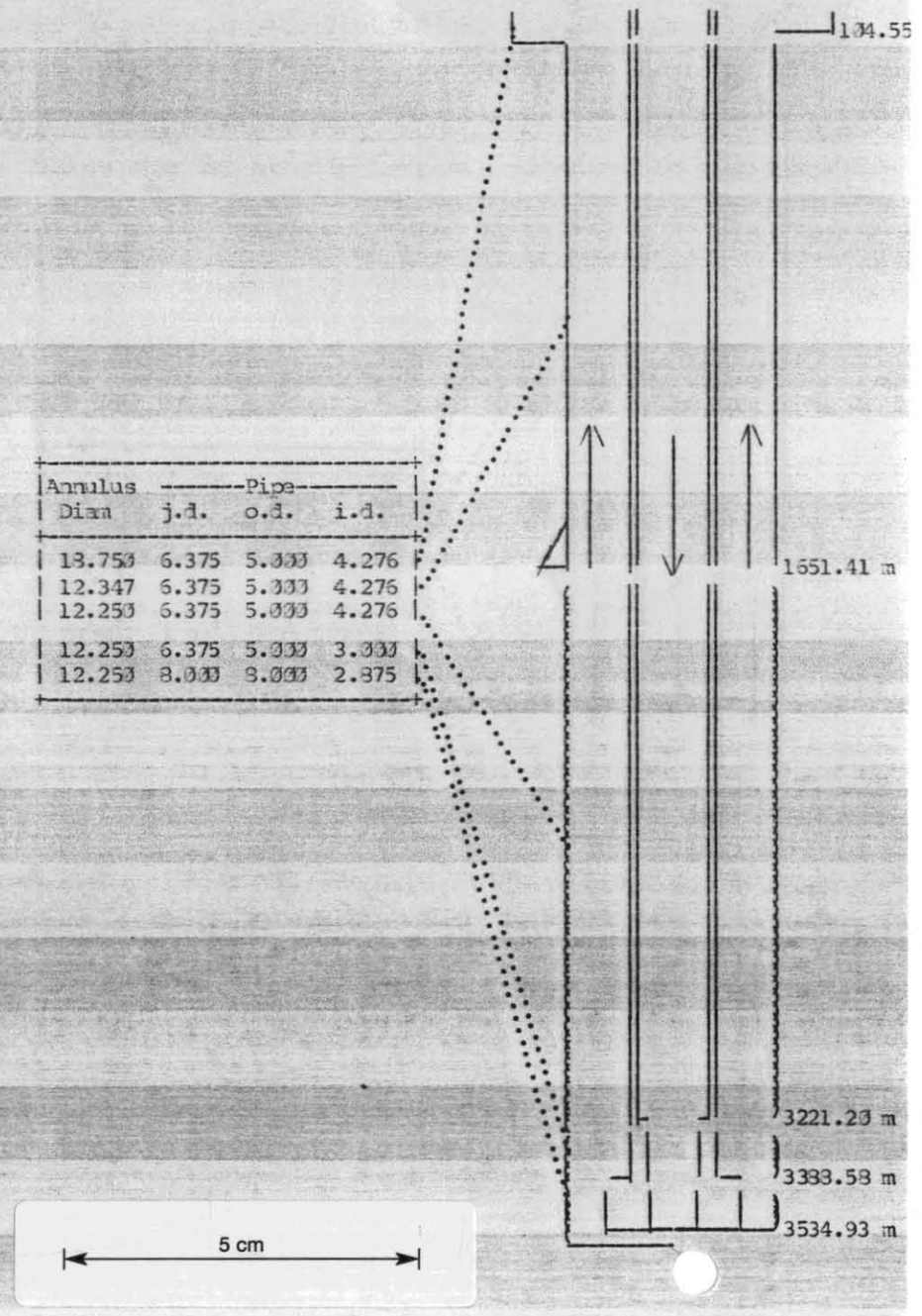
CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	13.750/ 5.000	44.7	299.0	LAMINAR	.4
104.55	1651.4	1546.9	12.347/ 5.000	114.4	395.3	LAMINAR	33.0
1651.4	3221.2	1569.8	12.250/ 5.000	116.6	397.7	LAMINAR	34.6
3221.1	3388.6	167.33	12.250/ 5.000	116.6	397.7	LAMINAR	3.7
3388.5	3534.9	146.35	12.250/ 8.000	169.5	503.7	LAMINAR	9.4

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
13.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.60	lb/gal	
FLOW CONTRIBUTION	.13	lb/gal	
CUTTINGS CONTRIBUTION	.07	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.81	lb/gal	
SURFACE PRESSURE LOSS	43	psi	NOZZLE VELOCITY 423.3 ft/sec
PIPEBORE PRESSURE LOSS	1530	psi	HYDRAULIC POWER 535.0 hp
ANNULAR PRESSURE LOSS	81	psi	JET IMPACT FORCE 1255.8 lbs
BIT PRESSURE LOSS	1541	psi	% OF PRESS LOSS AT BIT 48
TOTAL CALC. PRESS LOSS	3195	psi	

VOLUMES:	gal	bbl	Strokes	Minutes @ 120 s.p.m.
1) Pipe Capacity	8247	196	1663	13.9
2) Pipe Displacement	4694	112	946	7.9
3) Total Annulus	61087	1454	12316	102.7 <- LAG
4) Mud in active pits	19820	472	3996	33.3
Circulation (1) + (3)	69334	1651	13979	116.5
Hole Volume (1)+(2)+(3)	74028	1763	14925	124.4
Total Mud Circulation	89154	2123	17975	149.8
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR = 1.0990				
Corrected Annulus	67953	1618	13700	114.2 <- LAG
Corrected Hole	80894	1926	16309	136.0



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AMOCO AUST. Tilana No.1
Date : 22 Oct 81 Time : 04:50

329358

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	23.00	cP
YIELD POINT	23.00	lb/cft^2
POWER LAW k	1.4350	
POWER LAW n	.5510	
DEPTH	3604.77	m (11,827')
VERTICAL DEPTH	3604.38	m
DEPTH OF RETURNS	3597.12	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.60	lb/gal
ACTIVE SURFACE MUD VOLUME	552	bbl
FLOW RATE	606	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	3310	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

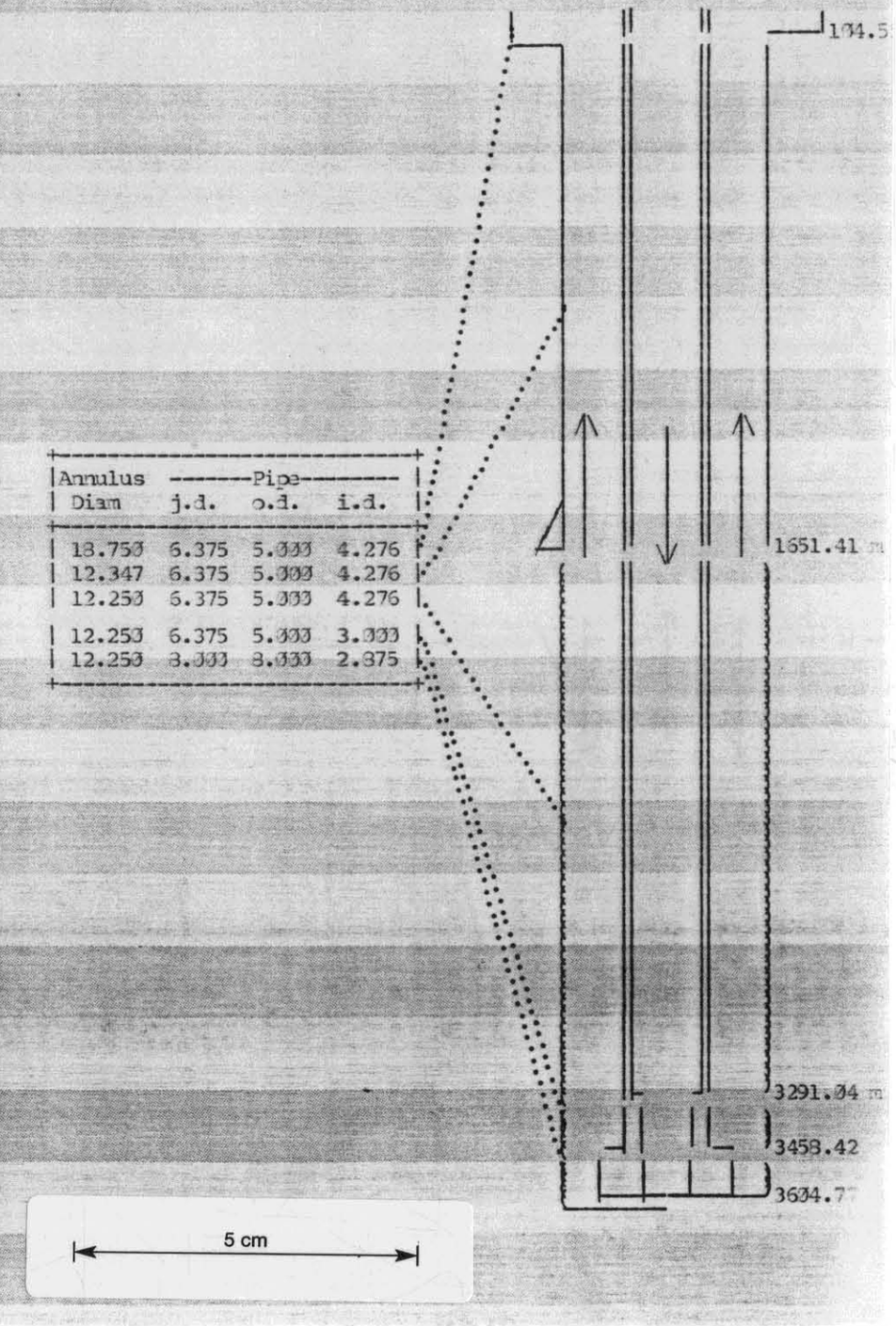
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	45.5	270.5	LAMINAR	.4
104.55	1651.4	1546.9	12.347/ 5.000	116.6	346.4	LAMINAR	23.4
1651.4	3291.0	1639.6	12.250/ 5.000	118.9	348.2	LAMINAR	31.1
3291.9	3458.4	167.38	12.250/ 5.000	118.9	348.2	LAMINAR	3.2
3458.3	3604.8	146.35	12.250/ 8.000	172.7	429.4	LAMINAR	7.7

Annulus	Pipe		
Diam	j.d.	o.d.	i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.375

MUD HYDROSTATIC	9.58	lb/gal	
FLOW CONTRIBUTION	.12	lb/gal	
CUTTINGS CONTRIBUTION	.04	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.74	lb/gal	

SURFACE PRESSURE LOSS	45 psi	NOZZLE VELOCITY	431.5 ft/sec
PIPEBORE PRESSURE LOSS	1386 psi	HYDRAULIC POWER	564.6 hp
ANNULAR PRESSURE LOSS	71 psi	JET IMPACT FORCE	1300.2 lbs
BIT PRESSURE LOSS	1596 psi	% OF PRESS LOSS AT BIT	52
TOTAL CALC. PRESS LOSS	3097 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 122 s.p.m.
1) Pipe Capacity	8418	200	1697	13.9
2) Pipe Displacement	4764	113	961	7.9
3) Total Annulus	62249	1482	12550	102.6 <- LAG
4) Mud in active pits	23163	552	4670	38.2
Circulation (1) + (3)	70667	1683	14247	116.5
Hole Volume (1)+(2)+(3)	75431	1796	15208	124.4
Total Mud Circulation	93830	2234	18917	154.7
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR =	1.3993			
Corrected Annulus	69247	1649	13961	114.2 <- LAG
Corrected Hole	82429	1963	16619	135.9



EXLOG

AMOCO ALST. Tilana No.1
Date : 23 Oct 85 Time : 04:42

329259

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	24.00	cP
YIELD POINT	22.00	lb/cft^2
POWER LAW k	1.0951	
POWER LAW n	.6057	
DEPTH	3683.58	m (12,086')
VERTICAL DEPTH	3683.19	m
DEPTH OF RETURNS	3673.76	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.80	lb/gal
ACTIVE SURFACE MUD VOLUME	545	bbl
FLOW RATE	595	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	3300	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

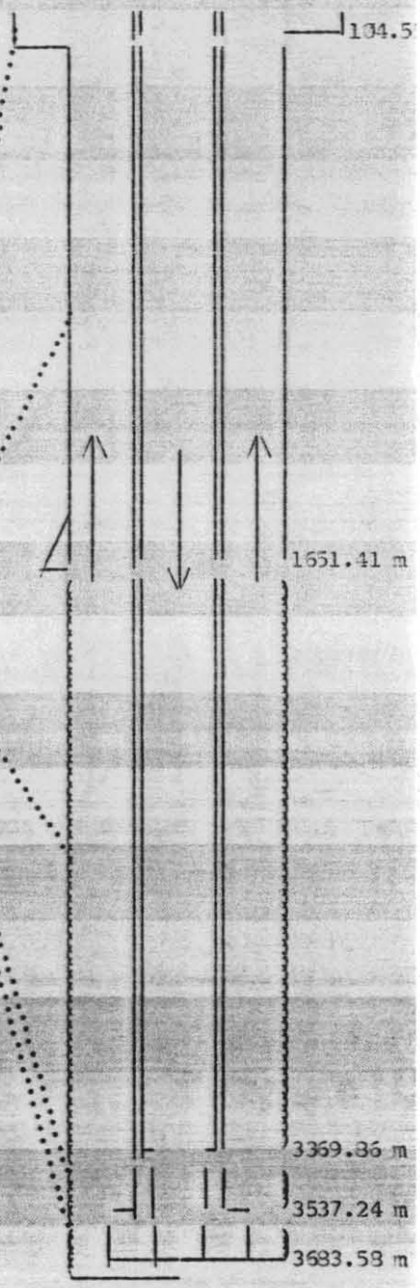
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	13.750/ 5.000	44.7	247.9	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	114.4	323.6	LAMINAR	25.9
1651.4	3369.9	1718.5	12.250/ 5.000	116.6	330.5	LAMINAR	29.7
3369.6	3537.2	167.38	12.250/ 5.000	116.6	330.5	LAMINAR	2.9
3537.2	3683.6	146.35	12.250/ 8.000	169.5	419.6	LAMINAR	7.4

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
13.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	3.000	2.375

MUD HYDROSTATIC	9.77	lb/gal	
FLOW CONTRIBUTION	.11	lb/gal	
CUTTINGS CONTRIBUTION	.06	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.94	lb/gal	

SURFACE PRESSURE LOSS	44 psi	NOZZLE VELOCITY	423.3 ft/sec
PIPEBORE PRESSURE LOSS	1502 psi	HYDRAULIC POWER	544.2 hp
ANNULAR PRESSURE LOSS	66 psi	JET IMPACT FORCE	1277.5 lbs
BIT PRESSURE LOSS	1568 psi	% OF PRESS LOSS AT BIT	49
TOTAL CALC. PRESS LOSS	3180 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 120 s.p.m.	
1) Pipe Capacity	8611	205	1736	14.5	
2) Pipe Displacement	4343	115	976	8.1	
3) Total Annulus	63560	1513	12815	106.8	<- LAG
4) Mud in active pits	22873	545	4612	38.4	
Circulation (1) + (3)	72171	1718	14551	121.3	
Hole Volume (1)+(2)+(3)	77014	1834	15527	129.4	
Total Mud Circulation	95044	2263	19162	159.7	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0631				
Corrected Annulus	68116	1622	13733	114.5	<- LAG
Corrected Hole	81569	1942	16445	137.1	



329360

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	23.00	cP
YIELD POINT	21.0	lb/sqft^2
POWER LAW n	1.1332	
POWER LAW k	.0215	
DEPTH	3704.57	m (12,155')
VERTICAL DEPTH	3704.16	m
DEPTH OF RETURNS	3699.54	m
CUTTINGS BULK DENSITY	2.67	sgc grv
MUD DENSITY	9.86	lb/gal
ACTIVE SURFACE MUD VOLUME	301	bbl
FLOW RATE	681	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	3423	psi
PUMP gal/str	4.96	gal/str
BIT NOZZLES	14, 14, 17	

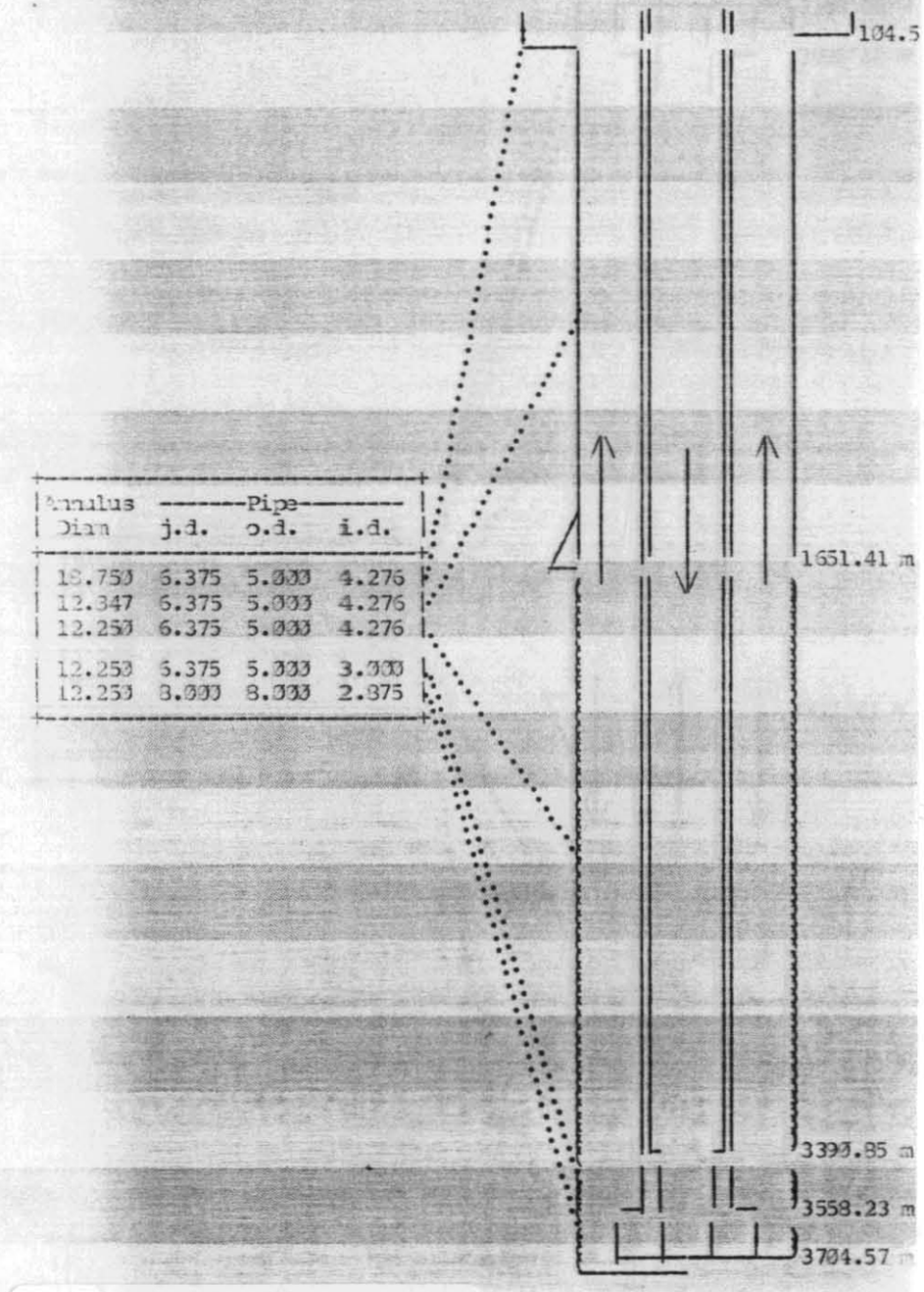
CALCULATED RESULTS:

FROM m	TO m	LENGTH m	ANNULUS/PIPE in	MIN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	45.1	258.8	LAMINAR	.4
104.55	1651.4	1546.9	12.347/ 5.000	115.6	348.8	LAMINAR	23.2
1651.4	3390.8	1739.4	12.250/ 5.000	117.8	354.5	LAMINAR	32.8
3390.8	3558.2	167.38	12.250/ 5.000	117.8	354.5	LAMINAR	3.2
3557.8	3704.6	146.35	12.250/ 8.000	171.1	446.9	LAMINAR	3.1

MUD HYDROSTATIC	9.86	lb/gal
FLOW CONTRIBUTION	.12	lb/gal
CUTTINGS CONTRIBUTION	.03	lb/gal
EQUIVALENT CIRCULATING DENSITY	9.99	lb/gal

SURFACE PRESSURE LOSS	45 psi	NOZZLE VELOCITY	427.5 ft/sec
PIPEBORE PRESSURE LOSS	1523 psi	HYDRAULIC POWER	564.0 hp
ANNULAR PRESSURE LOSS	73 psi	JET IMPACT FORCE	1311.1 lbs
BIT PRESSURE LOSS	1669 psi	% OF PRESS LOSS AT BIT	48
TOTAL CALC. PRESS LOSS	3345 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 121 s.p.m.	
(1) Pipe Capacity	3562	235	1746	14.4	
(2) Pipe Displacement	4354	116	981	8.1	
(3) Total Annulus	63909	1522	12385	105.4	<- LAG
(4) Mud in active pits	15961	381	3222	26.6	
Circulation (1) + (3)	72571	1728	14631	120.8	
Hole Volume (1)+(2)+(3)	77436	1844	15612	128.9	
Total Mud Circulation	88552	2133	17853	147.4	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0631				
Corrected Annulus	68490	1631	13808	114.0	<- LAG
Corrected Hole	82016	1953	16536	136.5	



Core # 3.

329361

AMOCO AUST. Tilana No.1
Date : 25 Oct 85 Time : 04:03

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	26.00	cP
YIELD POINT	23.00	lb/cft^2
POWER LAW k	1.1077	
POWER LAW n	.6141	
DEPTH	3746.60	m (12,293')
VERTICAL DEPTH	3746.18	m
DEPTH OF RETURNS	3741.00	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.90	lb/gal
ACTIVE SURFACE MUD VOLUME	350	bbl
FLOW RATE	220	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	420	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	21, 21, 21	

CALCULATED RESULTS:

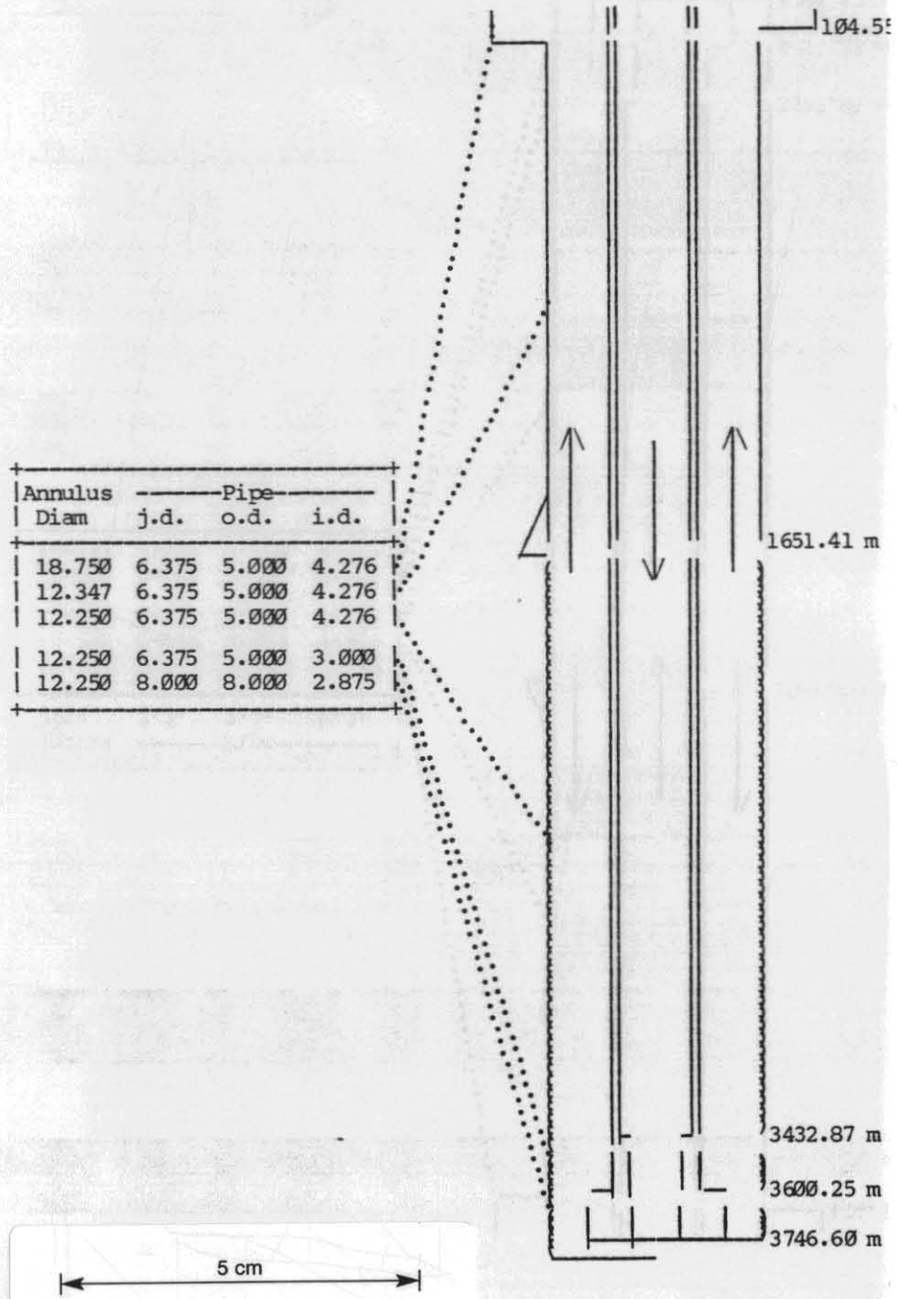
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	16.5	252.6	LAMINAR	.2
104.55	1651.4	1546.9	12.347/ 5.000	42.3	336.7	LAMINAR	14.6
1651.4	3432.9	1781.5	12.250/ 5.000	43.1	338.8	LAMINAR	17.4
3432.7	3600.3	167.38	12.250/ 5.000	43.1	338.8	LAMINAR	1.6
3600.0	3746.6	146.35	12.250/ 8.000	62.7	432.1	LAMINAR	4.2

MUD HYDROSTATIC	9.89	lb/gal
FLOW CONTRIBUTION	.06	lb/gal
CUTTINGS CONTRIBUTION	.03	lb/gal
EQUIVALENT CIRCULATING DENSITY	9.98	lb/gal

SURFACE PRESSURE LOSS	7 psi	NOZZLE VELOCITY	69.6 ft/sec
PIPEBORE PRESSURE LOSS	294 psi	HYDRAULIC POWER	5.5 hp
ANNULAR PRESSURE LOSS	38 psi	JET IMPACT FORCE	78.4 lbs
BIT PRESSURE LOSS	43 psi	% OF PRESS LOSS AT BIT	11
TOTAL CALC. PRESS LOSS	381 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 44 s.p.m.	
1) Pipe Capacity	8765	209	1767	39.8	
2) Pipe Displacement	4906	117	989	22.3	
3) Total Annulus	64609	1538	13026	293.7	<- LAG
4) Mud in active pits	14683	350	2960	66.7	
Circulation (1) + (3)	73373	1747	14793	333.5	
Hole Volume (1)+(2)+(3)	78280	1864	15782	355.8	
Total Mud Circulation	88057	2097	17753	400.3	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0631				
Corrected Annulus	69240	1649	13960	314.7	<- LAG
Corrected Hole	82911	1974	16716	376.9	

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875



329262

Core #3.

AMOCO AUST. Tilana No.1
Date : 26 Oct 85 Time : 04:50

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	26.00	cP
YIELD POINT	32.00	lb/cft^2
POWER LAW k	2.1455	
POWER LAW n	.5343	
DEPTH	3751.38	m (12,308')
VERTICAL DEPTH	3750.95	m
DEPTH OF RETURNS	3747.05	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.90	lb/gal
ACTIVE SURFACE MUD VOLUME	346	bbl
FLOW RATE	595	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	3020	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

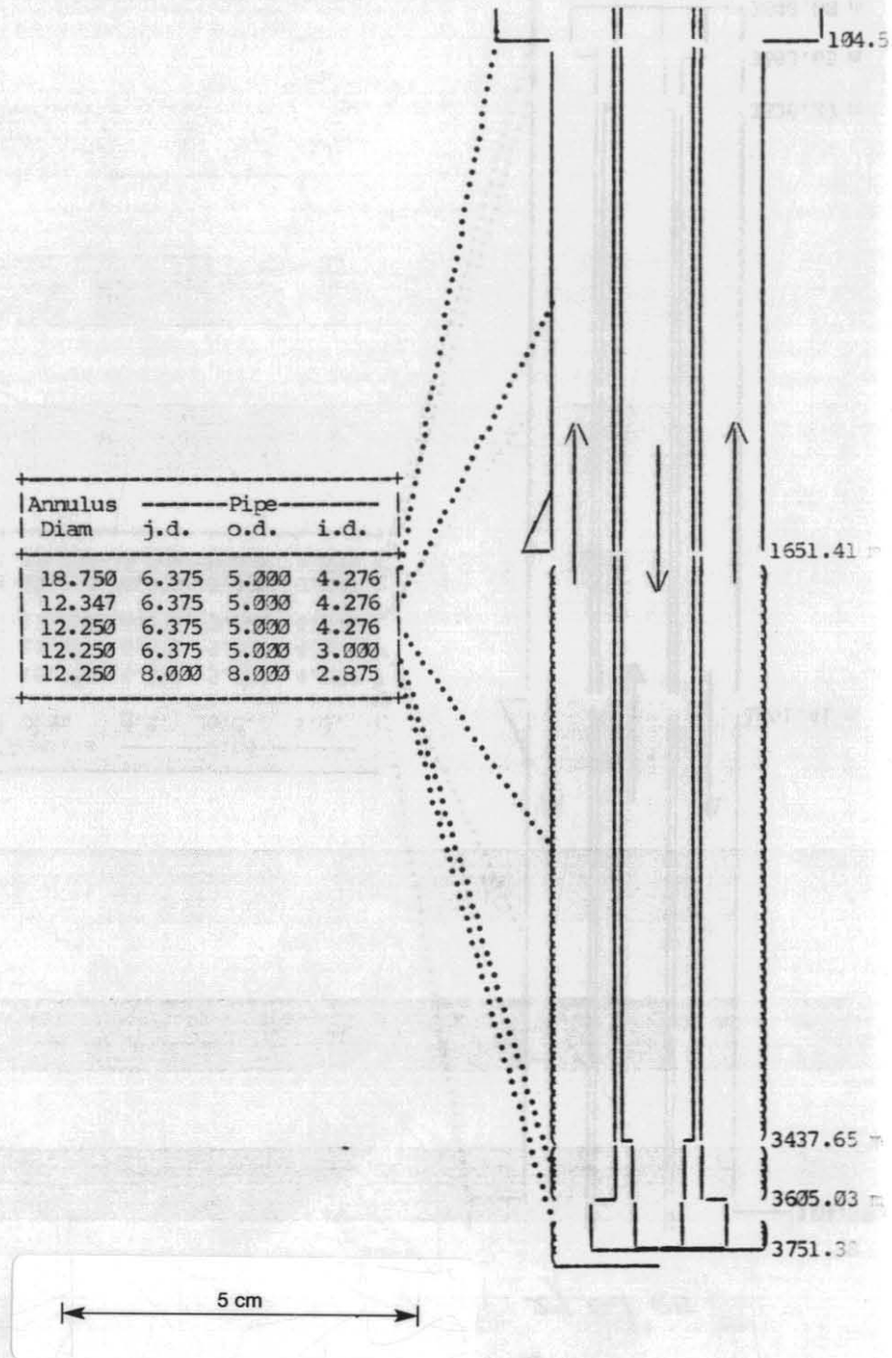
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	44.7	336.4	LAMINAR	.6
104.55	1651.4	1546.9	12.347/ 5.000	114.4	426.5	LAMINAR	39.7
1651.4	3437.6	1786.2	12.250/ 5.000	116.6	428.6	LAMINAR	47.3
3437.5	3605.0	167.38	12.250/ 5.000	116.6	428.6	LAMINAR	4.4
3604.9	3751.4	146.35	12.250/ 8.000	169.5	524.0	LAMINAR	10.6

MUD HYDROSTATIC	9.89	lb/gal
FLOW CONTRIBUTION	.16	lb/gal
CUTTINGS CONTRIBUTION	.02	lb/gal
EQUIVALENT CIRCULATING DENSITY	10.07	lb/gal

SURFACE PRESSURE LOSS	44 psi	NOZZLE VELOCITY	423.3 ft/sec
PIPEBORE PRESSURE LOSS	1513 psi	HYDRAULIC POWER	549.8 hp
ANNULAR PRESSURE LOSS	103 psi	JET IMPACT FORCE	1290.5 lbs
BIT PRESSURE LOSS	1584 psi	% OF PRESS LOSS AT BIT	49
TOTAL CALC. PRESS LOSS	3243 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 120 s.p.m.
1) Pipe Capacity	8777	209	1769	14.8
2) Pipe Displacement	4911	117	990	8.3
3) Total Annulus	64688	1540	13042	108.7 <- LAG
4) Mud in active pits	14511	346	2926	24.4
Circulation (1) + (3)	73465	1749	14811	123.5
Hole Volume (1)+(2)+(3)	78376	1866	15802	131.7
Total Mud Circulation	87976	2095	17737	147.9
HOLE OUT OF GAUGE:				
CIRCULATION CORRECTION FACTOR =	1.0631			
Corrected Annulus	69325	1651	13977	116.5 <- LAG
Corrected Hole	83013	1976	16736	139.5

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875



329363

NB#20 : 3841m : 27 Oct '85.

AMOCO AUST. Tilana No.1
Date : 27 Oct 85 Time : 04:46

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	20.00	cP
YIELD POINT	19.00	lb/cft^2
POWER LAW k	.9784	
POWER LAW n	.5972	
DEPTH	3840.00	m (12599')
VERTICAL DEPTH	3839.60	m
DEPTH OF RETURNS	3831.50	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.90	lb/gal
ACTIVE SURFACE MUD VOLUME	444	bbl
FLOW RATE	596	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2980	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

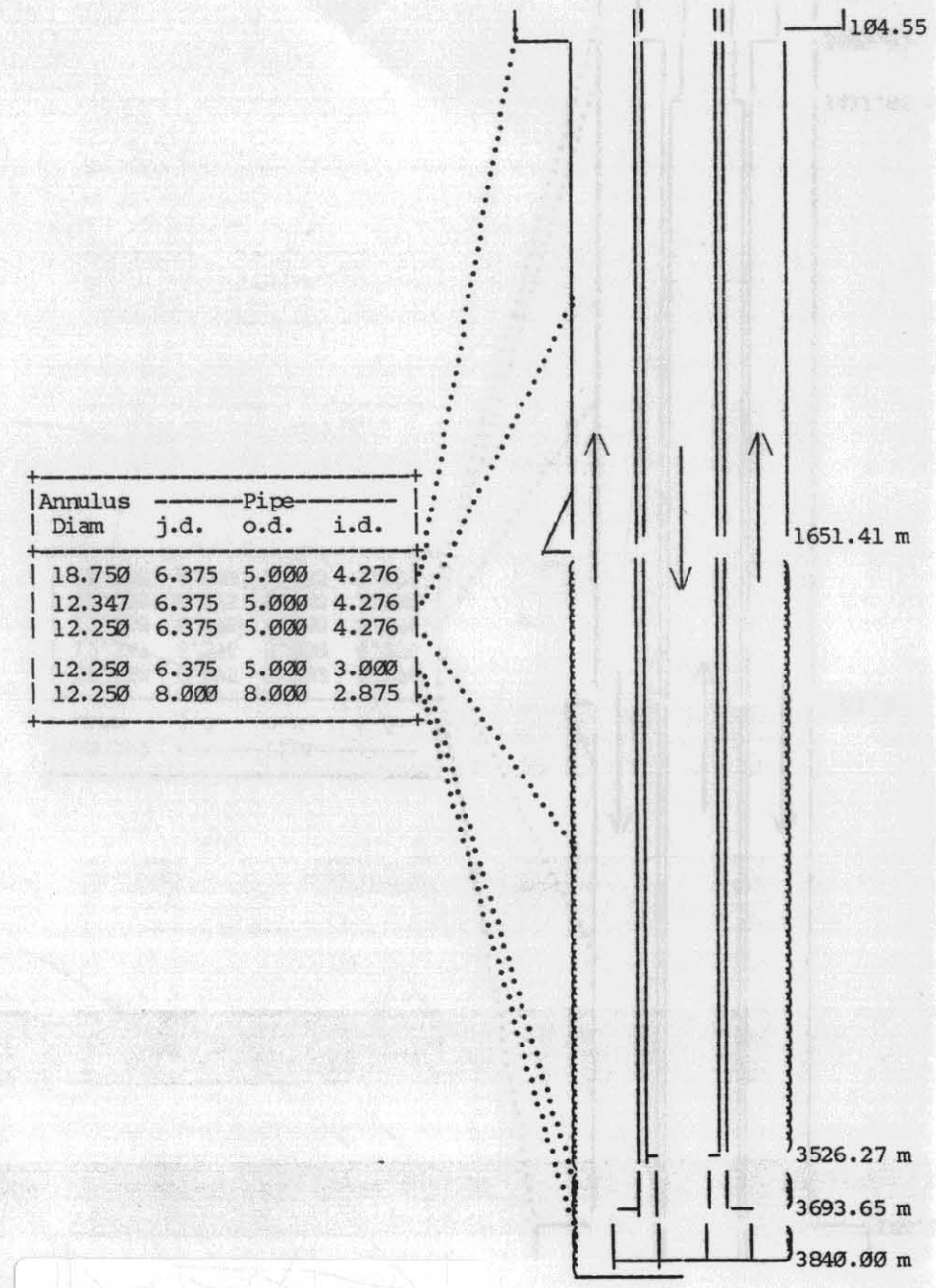
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	44.7	223.0	LAMINAR	.3
104.55	1651.4	1546.9	12.347/ 5.000	114.6	294.0	LAMINAR	22.5
1651.4	3526.3	1874.9	12.250/ 5.000	116.8	295.7	LAMINAR	28.2
3526.2	3693.7	167.38	12.250/ 5.000	116.8	295.7	LAMINAR	2.5
3693.6	3840.0	146.35	12.250/ 8.000	169.7	373.7	LAMINAR	6.3

MUD HYDROSTATIC	9.88	lb/gal
FLOW CONTRIBUTION	.09	lb/gal
CUTTINGS CONTRIBUTION	.05	lb/gal
EQUIVALENT CIRCULATING DENSITY	10.02	lb/gal

SURFACE PRESSURE LOSS	45 psi	NOZZLE VELOCITY	424.0 ft/sec
PIPEBORE PRESSURE LOSS	1480 psi	HYDRAULIC POWER	552.5 hp
ANNULAR PRESSURE LOSS	60 psi	JET IMPACT FORCE	1294.9 lbs
BIT PRESSURE LOSS	1589 psi	% OF PRESS LOSS AT BIT	50
TOTAL CALC. PRESS LOSS	3173 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 120 s.p.m.	
1) Pipe Capacity	8993	214	1813	15.1	
2) Pipe Displacement	5000	119	1008	8.4	
3) Total Annulus	66162	1575	13339	111.0	<- LAG
4) Mud in active pits	18665	444	3763	31.3	
Circulation (1) + (3)	75156	1789	15152	126.1	
Hole Volume (1)+(2)+(3)	80156	1908	16160	134.5	
Total Mud Circulation	93821	2234	18915	157.4	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0631				
Corrected Annulus	70906	1688	14296	119.0	<- LAG
Corrected [illegible]	84900	2021	17117	142.4	

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875



EXLOG®

AMOCO AUST. Tilana No.1
Date : 28 Oct 85 Time : 04:..

329364

NB 20 : 3900m : 28 Oct'85 : T.D.

HYDRAULICS CALCULATIONS

PLASTIC VISCOSITY	19.00	cP
YIELD POINT	16.00	lb/cft^2
POWER LAW k	.7370	
POWER LAW n	.6256	
DEPTH	3900.30	m (12,797').
VERTICAL DEPTH	3900.00	m
DEPTH OF RETURNS	3900.00	m
CUTTINGS BULK DENSITY	2.50	spc grv
MUD DENSITY	9.70	lb/gal
ACTIVE SURFACE MUD VOLUME	380	bbl
FLOW RATE	600	gal/min
BOOSTER FLOW	0	gal/min
PUMP PRESSURE	2900	psi
PUMP gal/stk	4.96	gal/stk
BIT NOZZLES	14, 14, 14	

CALCULATED RESULTS:

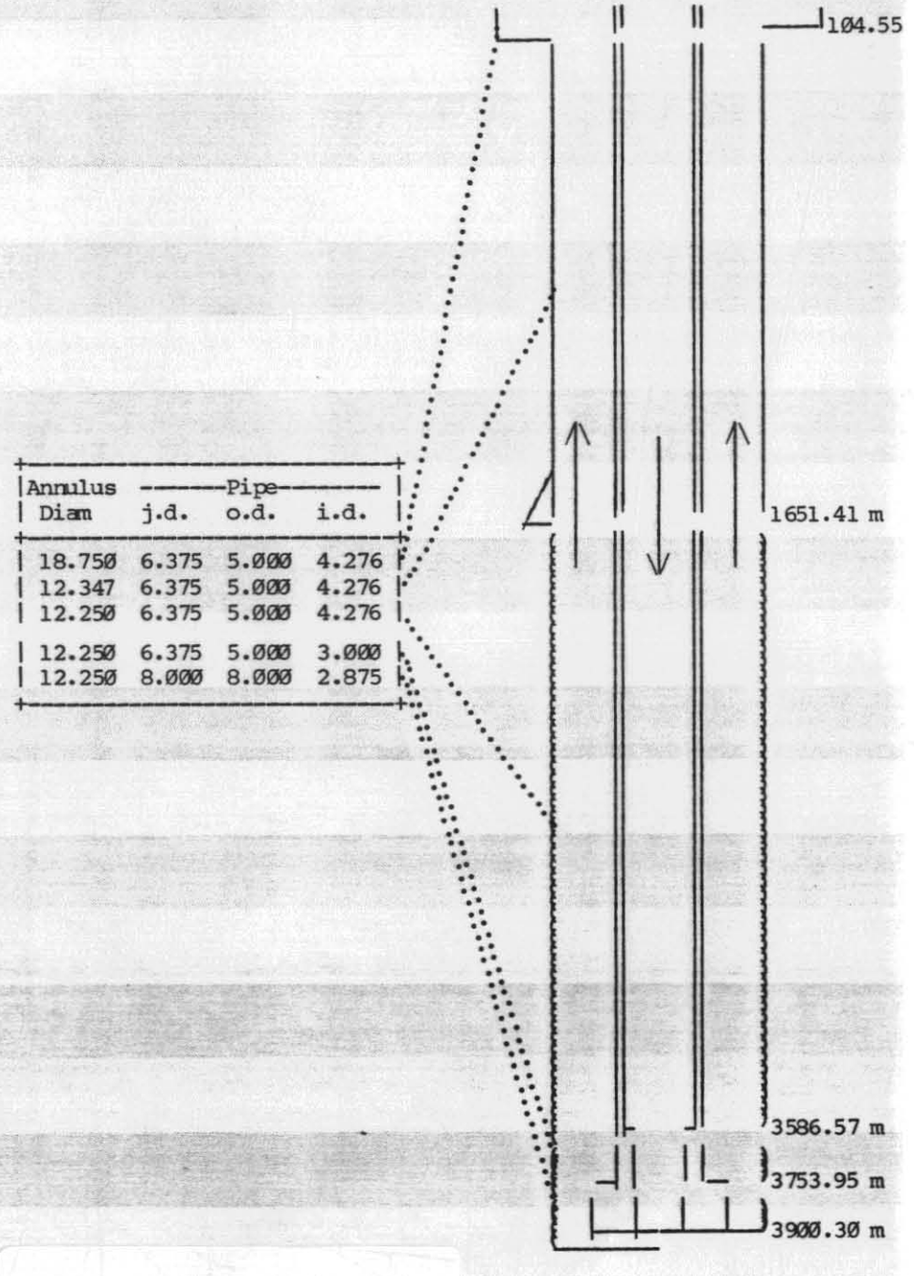
FROM m	TO m	LENGTH m	ANNULUS/PIPE in	ANN VELO. ft/min	CRIT VELO ft/min	FLOW REGIME	PRESS LOSS psi
0.00	104.55	104.55	18.750/ 5.000	45.0	195.4	LAMINAR	.2
104.55	1651.4	1546.9	12.347/ 5.000	115.4	262.6	LAMINAR	18.7
1651.4	3586.6	1935.2	12.250/ 5.000	117.6	264.2	LAMINAR	24.2
3586.3	3754.0	167.38	12.250/ 5.000	117.6	264.2	LAMINAR	2.1
3753.9	3900.3	146.35	12.250/ 8.000	170.9	339.2	LAMINAR	5.4

Annulus Diam	Pipe j.d.	Pipe o.d.	Pipe i.d.
18.750	6.375	5.000	4.276
12.347	6.375	5.000	4.276
12.250	6.375	5.000	4.276
12.250	6.375	5.000	3.000
12.250	8.000	8.000	2.875

MUD HYDROSTATIC	9.70	lb/gal	
FLOW CONTRIBUTION	.08	lb/gal	
CUTTINGS CONTRIBUTION	.00	lb/gal	
EQUIVALENT CIRCULATING DENSITY	9.78	lb/gal	

SURFACE PRESSURE LOSS	44 psi	NOZZLE VELOCITY	426.8 ft/sec
PIPEBORE PRESSURE LOSS	1491 psi	HYDRAULIC POWER	552.4 hp
ANNULAR PRESSURE LOSS	51 psi	JET IMPACT FORCE	1285.8 lbs
BIT PRESSURE LOSS	1578 psi	% OF PRESS LOSS AT BIT	50
TOTAL CALC. PRESS LOSS	3164 psi		

VOLUMES:	gal	bbl	Strokes	Minutes @ 121 s.p.m.	
1) Pipe Capacity	9141	218	1843	15.2	
2) Pipe Displacement	5060	120	1020	8.4	
3) Total Annulus	67166	1599	13541	111.9	<- LAG
4) Mud in active pits	15960	380	3218	26.6	
Circulation (1) + (3)	76307	1817	15384	127.2	
Hole Volume (1)+(2)+(3)	81367	1937	16405	135.6	
Total Mud Circulation	92267	2197	18602	153.8	
HOLE OUT OF GAUGE:					
CIRCULATION CORRECTION FACTOR =	1.0631				
Corrected Annulus	71982	1714	14513	120.0	<- LAG
Corrected Hole	86183	2052	17376	143.6	



329365

2. MORNING GEOLOGICAL-ENGINEERING REPORTS

329366

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 1

COMPANY AMOCO AUSTRALIA WELL TILANA-1

DATE 10 SEPT '85 TIME 0500HRS

DEPTH 465.7 m (1528'). LAST REPORT DEPTH —

RIG OPERATIONS REPAIR KELLY SWIVEL

REPORT BY J. STRAUTINS REPORT RECEIVED BY S. MAXWELL (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB3 Type: SMITH SDT Size: 12 1/4" Jets: 15,15,18

On Bit: Footage: 56 Hours: 1.4 ROP: 60-200 ft/hr. WOB: 1-8 klb RPM: 80-100

Pump Press: 2420 psi SPM: 162 Torque: 1-2 kft-lb TBR: 7100 CP I:$ 311 CP B:$ 246

HYDRAULICS REPORT

Mud Density In: 8.6 PPG Mud Density Out: 8.7 PPG. ECD: 9.1 PPG. PV/YP: 2/3

Gels: SEAWATER Salinity: — PPM Cl Solids: — %

Hole Volume: 485 bbl Annular Volume: 428 bbl Tubing Volume: 19 bbl Displaced Volume: 38 bbl.

Carbide Lag—Calculated Lag: In gauge / 3624 stks. Flowrate: 833 gal/min.

Drillpipe Annular Vel (Max. Dia. Sec.): 62 ft/min Drillpipe Annular Vel (Open Hole): 71 ft/min

Drill Collar Annular Vel (Open Hole): 237 ft/min Critical Vel: 117 ft/min.

Pressure Loss System: 828 psi Pressure Loss Bit: 1592 psi % Pressure Loss: 80

Nozzel Vel: 450 ft/sec. Jet Impact Force: 1708 lbs. HHP: 774 hp.

PRESSURE PARAMETERS

Drilling Exponent: 0.85 @ 60 ft/hr. Flowline Temperature: 16°C / 60°F.

Shale Density: — Shale Factor: —

Background Gas: — Max. Formation Gas: — @ — Trip Gas: — @ —

Other Gas: —

Fill: — Tight Hole: —

Cavings: Est %: <10% Average Size: 2x3x3 mm^3.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 5.8 / 14.6 PPG. Min. Estimated Fracture Pressure (Open Hole): 15.3 PPG @ CSG. SHOE

Estimated Pore Pressure: 8.7 PPG Min. Estimated Pore Pressure (Open Hole): 8.7 PPG @ 1356'

Max. Estimated Pore Pressure (Open Hole): 8.7 PPG @ TD Estimated Fracture Pressure at TD: 15.3 PPG.

Comments: SPUD TILANA-1 2030 HRS 5-9-85 W/ DIAMOND M EPOCH. NB1 HTC DGJ W/36" H-O. DRILL 104.5 - 208.8m (343-685'). SET 30" CASING AT 203.3m (667').

RRB1 HTC DGJ 26". DRILL 208.8 - 416.0m (685-1365'). SET 20" CASING AT 413.3m (1356'). INSTAL BOP's & RISER.

NB2 SMITH SDS 17½". DRILL 20" SHOE AND NEW FM TO 418.2m (1372'). PERFORM FIT (LEAK-OFF AT 15.3 PPG EMW). POOH.

RIH NB3. DRILL AHEAD AT CONTROLLED ROP THROUGH CALCARENITE. PULL BACK TO SHOE TO REPAIR SWIVEL.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329367

EXLOG GEMDAS LOGGING REPORT NO. 2

COMPANY Amoco AUSTRALIA WELL TILANA - 1

DATE 11th SEP '85 TIME 0500 hrs.

DEPTH 1070.4m (3512'). LAST REPORT DEPTH 465.7m (1528')

RIG OPERATIONS DRILLING AHEAD THROUGH CLAYSTONE.

REPORT BY J. STRAUTINS REPORT RECEIVED BY S. MAXWELL (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB 3 Type: SMITH SDT Size: 12¼" Jets: 15, 15, 18.

On Bit: Footage: 652.2 (2140') Hours: 13.7 ROP: 65-120 ft/hr. WOB: 17-20 klb RPM: 100

Pump Press: 2400 psi SPM: 150 Torque: 1.5-2.2 kftlb TBR: 75,000 CP I:$ 136 CP B:$ 115

HYDRAULICS REPORT

Mud Density In: 8.6 ppg Mud Density Out: 8.8 ppg ECD: 9.0 ppg PV/YP: 8/18

Gels: 12/22 Salinity: 11,500 PPM Cl Solids: 4. %

Hole Volume: bbl Annular Volume: bbl Tubing Volume: 52 bbl Displaced Volume: 52 bbl

Carbide Lag—Calculated Lag: +300 stks 13" avg. hole. Flowrate: 764 gpm.

Drillpipe Annular Vel (Max. Dia. Sec.): 57 ft/min Drillpipe Annular Vel (Open Hole): 150 ft/min

Drill Collar Annular Vel (Open Hole): 217 ft/min Critical Vel: 381 ft/min

Pressure Loss System: 1060 psi Pressure Loss Bit: 1340 psi % Pressure Loss: 68

Nozzel Vel: 413 ft/sec Jet Impact Force: 1436 lbs HHP: 597 hp

PRESSURE PARAMETERS

Drilling Exponent: 1.01 @ 88 ft/hr. Flowline Temperature: 33°C (91°F).

Shale Density: — Shale Factor: —

Background Gas: 3-4u Max. Formation Gas: 5 @ 3199' (975m). Trip Gas: — @ —

Other Gas: —

Fill: — Tight Hole: —

Cavings: Est %: <20% Average Size: 3x3x4 mm³.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.6/11.2 Min. Estimated Fracture Pressure (Open Hole): 15.3 ppg @ SHOE.

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ —

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ TD Estimated Fracture Pressure at TD: 17 ppg.

Comments:
DRILL 465.7 - 586.1m (1528 - 1923 ft.). Take survey (3/4°).
DRILL 586.1 - 734.2m (1923 - 2409 ft). Pump hi-vis pill. Survey (½°)
DRILL 734.2 - 891.8 m (2409 - 2926 ft). Survey (½°).
DRILL 891.8 - 1049.2 m (2926 - 3442 ft). Survey
DRILL AHEAD.

LITHOLOGY 465.7 - 800 (1528 - 2607') Calcarenite
800 - (2607-) Claystone, minor Calcarenite.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329268

EXLOG (SM) GEMDAS LOGGING REPORT NO. 3

COMPANY AMOCO AUSTRALIA. WELL TILANA-1

DATE 12th SEPT '85 TIME 0500 hrs

DEPTH 1320.3m (4332'). LAST REPORT DEPTH 1070.4m (3512')

RIG OPERATIONS DRILLING.

REPORT BY J. STRAUTINS REPORT RECEIVED BY S. MAXWELL (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: 4 Type: SMITH F2 Size: 12¼" Jets: 11, 3x13

On Bit: Footage: 921 Hours: 3.6 hrs. ROP: Avg 25 ft/hr. WOB: 19-21 RPM: 100

Pump Press: 2750 psi SPM: 148 Torque: 1.8 kftlb TBR: 21,900 CP I: $ 628 CP B: $ 946

HYDRAULICS REPORT

Mud Density In: 9.0 ppg Mud Density Out: 9.0 ppg ECD: 9.2 ppg PV/YP: 8/22

Gels: 10/20 Salinity: 14,000 PPM Cl Solids: 6 %

Hole Volume: 893 bbl Annular Volume: 768 bbl Tubing Volume: 69 bbl Displaced Volume: 56 bbl

Carbide Lag—Calculated Lag: +350 stks. Avg 13". Flowrate: 732 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 55 ft/min Drillpipe Annular Vel (Open Hole): 143 ~~209~~ ft/min

Drill Collar Annular Vel (Open Hole): 300 ft/min Critical Vel: 466 ft/min

Pressure Loss System: 840. psi Pressure Loss Bit: 1910 psi % Pressure Loss: 69 %

Nozzel Vel: 488 ft/sec Jet Impact Force: 662 lbs HHP: 816 hp.

PRESSURE PARAMETERS

Drilling Exponent: 1.23 @ 32 ft/hr. Flowline Temperature: 39.4°C

Shale Density: - Shale Factor: -

Background Gas: 3-5 u. Max. Formation Gas: 190 @ 1165m ~~3822'~~ Trip Gas: 320 @ 4240'

Other Gas: -

Fill: - Tight Hole: 3241-3686'; 4160-4240'.

Cavings: Est %: 20% Average Size: 3x4x6 mm³

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 1.98 / 10.98 Min. Estimated Fracture Pressure (Open Hole): 15.3 ppg @ shoe

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ -

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ TD Estimated Fracture Pressure at TD: 19 ppg

Comments: DRILL AT 80-200 ft/hr to 1139.3m (3738'). ROP THEN INCREASED TO 400-800 FT/HR THROUGH SANDSTONE/CLAYSTONE. LITHOLOGY CHANGE TO VOLCANICS AT 1249.6m (4100'). DRILL TO 1292.3m (4240'). CIRCULATE RETURNS, DROP SURVEY (¼°) & POOH DUE TO LOW ROP. T4 B4 G⅛". TIGHT HOLE IN ONE SPOT ONLY ON TRIP OUT @ ≃ 640m (2100').

RIH w/ NB 4. BRIDGE @ 987.9m (3241'). REAM/WASH TO 1123.4m (3686'). RIH. REAM/WASH. 1267.9 - TD (4160 - TD).

DRILL AHEAD.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329369

EXLOG (SM) GEMDAS LOGGING REPORT NO. 4

COMPANY AMOCO AUSTRALIA. WELL TILANA-1

DATE 13th SEPT '85 TIME 0500 HRS

DEPTH 1587.9m. (5210') LAST REPORT DEPTH 1320.3m (4332').

RIG OPERATIONS DRILLING

REPORT BY J. STRAUTINS REPORT RECEIVED BY S. MAXWELL. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB 4 Type: SMITH F2 Size: 12¼" Jets: 11, 3x13

On Bit: Footage: 970' Hours: 21.9 ROP: av. 44 ft/hr WOB: 15-42 klb RPM: 92-110

Pump Press: 2720 psi SPM: 142 Torque: 2.2 kft/lb TBR: 140,000 CP I: $ 298 CP B: $ 402

HYDRAULICS REPORT

Mud Density In: 9.1 ppg Mud Density Out: 9.1 ppg ECD: 9.4 ppg PV/YP: 8/32

Gels: 15/25 Salinity: 12,000 PPM Cl Solids: 7. %

Hole Volume: 1021 bbl Annular Volume: 874 bbl Tubing Volume: 84 bbl Displaced Volume: 62 bbl

Carbide Lag—Calculated Lag: + 320 stks. Flowrate: 703 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 53 ft/min Drillpipe Annular Vel (Open Hole): 138 ft/min

Drill Collar Annular Vel (Open Hole): 288 ft/min Critical Vel: 563 ft/min

Pressure Loss System: 938 psi Pressure Loss Bit: 1782 psi % Pressure Loss: 66 %

Nozzel Vel: 468 ft/sec Jet Impact Force: 1551 lbs HHP: 731 hp

PRESSURE PARAMETERS

Drilling Exponent: 1.44 @ 45 ft/hr. Flowline Temperature: 45°C

Shale Density: - Shale Factor: -

Background Gas: 3-7u. Max. Formation Gas: 11u. @ 4625' Trip Gas: - @ -

Other Gas: -

Fill: -. Tight Hole: 10-30 klbs overpull on cxns.

Cavings: Est %: <20% Average Size: 2x3x4 mm³, BLOCKY.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 1.61 / 10.71 Min. Estimated Fracture Pressure (Open Hole): 15.3 ppg @ CSG

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ CSG

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ TD Estimated Fracture Pressure at TD: 19.5 ppg

Comments: DRILL TO 1383.7m (4540'). START LOSS OF ≃ 60 BBL/HR TO FORMATION. DECREASE PUMP PRESSURE/FLOW TO MINIMISE LOSSES. DRILL AHEAD AT 10-40 FT/HR THROUGH VOLCANICS. FORMATION RETURNS TO CLAYSTONE @ 1416m (4636') & ROP INCREASED TO 50-100 FT/HR. CIRCULATE. DRILL TO 1419.4m (4957'). SURVEY ¼°. DRILL AHEAD.

CORRECTED HOLE: 1058 bbl.
CORRECTED ANNULUS: 912 bbl.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329270

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 5

COMPANY AMOCO AUST. WELL TILANA-1

DATE 14th SEPT' 85 TIME 0500hrs

DEPTH 1661.7m (5452ft). LAST REPORT DEPTH 1587.9m (5210')

RIG OPERATIONS

REPORT BY J. STRAUTINS REPORT RECEIVED BY S. MAXWELL. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB 4 Type: SMITH F2 Size: 12 1/4" Jets: 11, 3 x 13.

On Bit: Footage: 1212 ft. Hours: 26.0 ROP: 46 ft/hr avg WOB: 15-42 RPM: 90-113

Pump Press: 2660 psi SPM: 142 Torque: 2.2 kft-lb TBR: 167,300 CP I: $ 140 CP B: $ 378

HYDRAULICS REPORT

Mud Density In: 9.1 ppg Mud Density Out: 9.1 ppg ECD: 9.34 PV/YP: 8/32

Gels: 15/25 Salinity: 12,000 PPM Cl Solids: 7 %

Hole Volume: 1057 bbl Annular Volume: 904 bbl Tubing Volume: 89 bbl Displaced Volume: 64 bbl

Carbide Lag—Calculated Lag: +340 stks. Flowrate: 697 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 52 ft/min Drillpipe Annular Vel (Open Hole): 137 ft/min

Drill Collar Annular Vel (Open Hole): 286 ft/min Critical Vel: 526 ft/min

Pressure Loss System: 908 psi Pressure Loss Bit: 1752 psi % Pressure Loss: 66

Nozzel Vel: 464 ft/sec Jet Impact Force: 1525 lbs HHP: 713 hp

PRESSURE PARAMETERS

Drilling Exponent: 1.46 @ 44 ft/hr Flowline Temperature: 48°C

Shale Density: — Shale Factor: —

Background Gas: 3-5 u Max. Formation Gas: 13 u @ 5249' Trip Gas: 31 u @ 5452'.

Other Gas: —

Fill: — Tight Hole: 3560 - 5452' (1085 - 1661.7m).

Cavings: Est %: 20-30% Average Size: 2 x 3 x 4 mm³.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 1.54 / 10.64 ppg Min. Estimated Fracture Pressure (Open Hole): 15.3 ppge csg shoe

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ csg shoe

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ TD Estimated Fracture Pressure at TD: 19.7 ppg.

Comments: DRILL TO 1647.9m (5407') DRILL BREAK TO MAX. 300 FT/HR. CIRCULATE RETURNS @ 1661.7m (5452').
POOH FOR WIPER TRIP TO SHOE. 50klb drag 3560-5452'.
RIH & CIRCULATE RETURNS. REAM ~ 4222 - 5452'
POOH. w/ NB 4. UP TO 30klb drag on first 18 stds (3750-5452').
RIG UP & RUN E-LOGS.
CORRECTED HOLE = 1096 bbl
" ANNULUS = 943 bbl.

EL P/N 18429 MAY 1980

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329371

EXLOG (SM) GEMDAS LOGGING REPORT NO. 6.

COMPANY AMOCO AUST. WELL TILANA-1

DATE 15th SEPT '85 TIME 0500 hrs

DEPTH 1661.7m (5452'). LAST REPORT DEPTH 1661.7m (5452').

RIG OPERATIONS OPENING PILOT HOLE TO 17½" AT 918.9m (3015')

REPORT BY JORIS STRAUTINS REPORT RECEIVED BY J Guillory (OPERATOR)

DRILLING REPORT

Bit No.: NB 5 Type: SMITH SDSH Size: 17½" Jets: 3X16, 11.

On Bit: Footage: 1643' Hours: 4 hrs. ROP: ≃ 400 ft/hr. WOB: 2-10 RPM: 120

Pump Press: 2030 psi SPM: 150 Torque: 1-2 kft lb TBR: 28,000 CP I: $ — CP B: $ —

HYDRAULICS REPORT

Mud Density In: 9.2 Mud Density Out: 9.2 ECD: 9.3 PV/YP: 10/16

Gels: 5/20 Salinity: 8,000 PPM Cl Solids: 6 %

Hole Volume: 944 bbl. Annular Volume: 853 bbl Tubing Volume: 45 bbl Displaced Volume: 46 bbl

Carbide Lag—Calculated Lag: N/A. Flowrate: 744 gpm.

Drillpipe Annular Vel (Max. Dia. Sec.): 56 ft/min Drillpipe Annular Vel (Open Hole): 65 ft/min

Drill Collar Annular Vel (Open Hole): 84 ft/min Critical Vel: 281 ft/min

Pressure Loss System: 1364 psi Pressure Loss Bit: 666 psi % Pressure Loss: 33 %

Nozzel Vel: 285 ft/sec. Jet Impact Force: 1009 lbs HHP: 289 hp.

PRESSURE PARAMETERS

Drilling Exponent: — Flowline Temperature: 36°C

Shale Density: — Shale Factor: —

Background Gas: 1-2u Max. Formation Gas: — @ — Trip Gas: — @ —

Other Gas: —

Fill: — Tight Hole: —

Cavings: Est %: — Average Size: —

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 1.5 / 10.7 Min. Estimated Fracture Pressure (Open Hole): 15.3 ppge shoe

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ "

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ TD Estimated Fracture Pressure at TD: 19.5 ppg

Comments: RUN E-LOGS.
POH & LAY OUT DRILL-PIPE.
RIH W/ NB 5 TO OPEN 17¼" HOLE TO 17½".
OPEN HOLE 1372'-3015'.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329272

EXLOG (SM) GEMDAS LOGGING REPORT NO. 7.

COMPANY AMOCO AUST. WELL TILANA - 1

DATE 16th SEPT '85 TIME 0500 hrs.

DEPTH 1661.7m (5452'). LAST REPORT DEPTH 1061.7m (5452').

RIG OPERATIONS CONTINUE OPENING 12¼" TO 17½" @ 1416.6m (4648')

REPORT BY J. STRAUTINS REPORT RECEIVED BY J. GUILLORY (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: NB5 Type: SMITH SDSH Size: 17½" Jets: 12, 3X15

On Bit: Footage: 3276' Hours: 20.3. ROP: 5-200 ft/hr. WOB: 10-40 RPM: 84-130

Pump Press: 1830 psi SPM: 142 Torque: 0.9-3 TBR: 145,000 CP I:$ 336 CP B:$ 103

HYDRAULICS REPORT

Mud Density In: 8.9 ppg Mud Density Out: 8.9 ppg ECD: 9.1 ppg PV/YP: 9/18

Gels: 5/22 Salinity: 10,000 PPM Cl Solids: 6 %

Hole Volume: 1424 bbl Annular Volume: 1293 bbl. Tubing Volume: 73 bbl Displaced Volume: 58 bbl.

Carbide Lag—Calculated Lag: Assumed in-gauge for volumes Flowrate: 726 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 54 ft/min Drillpipe Annular Vel (Open Hole): 63 ft/min

Drill Collar Annular Vel (Open Hole): 82 ft/min Critical Vel: 319 ft/min

Pressure Loss System: 742 psi Pressure Loss Bit: 1088 psi % Pressure Loss: 59 %

Nozzel Vel: 370 ft/sec. Jet Impact Force: 1235 lbs HHP: 460 hp

PRESSURE PARAMETERS

Drilling Exponent: n/a Flowline Temperature: 47°C

Shale Density: - Shale Factor: -

Background Gas: 5 Max. Formation Gas: 20 @ 4040' Trip Gas: - @ -

Other Gas: -

Fill: - Tight Hole: -

Cavings: Est %: - Average Size: -

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 1.5 /10.7ppg Min. Estimated Fracture Pressure (Open Hole): 15.3 ppg csg shoe

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ csg shoe

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ TD. Estimated Fracture Pressure at TD: 19.5 ppg

Comments: CONTINUE OPENING 12¼" HOLE TO 17½" FROM 3015 - 4648'.
VERY VARIABLE TORQUE (HIGH WITH VOLCANICS)

NOTE: SOLIDS CONTROL EQPT. LOSES 10-15 BBL/HR.

NOTE: MUD LOSSES		Total cumulative loss
4350 - 4380'	25 bbls/hr	25 bbls
4380 - 4410'	20 bbls/hr.	45
4410 - 4510'	6 bbls/hr.	55
4510 - 4555'	15 bbls/hr.	97
4555 - 4637'	10 bbls/hr.	133 bbls/10 hrs.
4637 - 4648'	STEADY.	

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329373

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 8

COMPANY AMOCO AUSTRALIA WELL TILANA-1

DATE 17th SEPT 185 TIME 0500hrs

DEPTH 1661.7m (5452'). LAST REPORT DEPTH 1661.7m (5452').

RIG OPERATIONS MAKE-UP CASING RUNNING TOOLS

REPORT BY J. STRAUTINS REPORT RECEIVED BY J. SULLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB 5 Type: SMITH SDSHC Size: 17½" Jets: 12, 3 x 15

On Bit: Footage: 4080' Hours: 30.2 ROP: 135 ft/hr avg WOB: 5-35 RPM: 85-130

Pump Press: 2830 psi SPM: 142 Torque: 2-8 kft lb TBR: 219,800 CP I:$ 500 CP B:$ 128

HYDRAULICS REPORT

Mud Density In: 9.1 ppg Mud Density Out: 9.2 ppg ECD: 9.3 ppg PV/YP: 12/26

Gels: 7/32 Salinity: 9800 PPM Cl Solids: 7 %

Hole Volume: 1679 bbl Annular Volume: 1526 bbl Tubing Volume: 89 bbl Displaced Volume: 64 bbl

Carbide Lag—Calculated Lag: +4800 stks min. Flowrate: 720 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 54 ft/min Drillpipe Annular Vel (Open Hole): 63 ft/min

Drill Collar Annular Vel (Open Hole): 82 ft/min Critical Vel: 398 ft/min

Pressure Loss System: 1020 psi Pressure Loss Bit: 1111 psi % Pressure Loss: 52 %

Nozzel Vel: 367 ft/sec Jet Impact Force: 1261 lbs HHP: 467 hp

PRESSURE PARAMETERS

Drilling Exponent: - Flowline Temperature: 48°C

Shale Density: - Shale Factor:

Background Gas: 5-7 u Max. Formation Gas: 33u @ 5130' Trip Gas: - @ -

Other Gas: Gas steadily increased (from 5100') to max @ 5130'.

Fill: Tight Hole: 1900-3677' (579-1120m); 3677-5360'

Cavings: Est %: ~20% Average Size: 3x4x4mm³. (1120-1634m).

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 1.5/10.6 ppg Min. Estimated Fracture Pressure (Open Hole): 15.3 ppg @ shoe

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ shoe

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ TD Estimated Fracture Pressure at TD: 19.5 ppg

Comments: OPEN HOLE FROM 4648-5452'. CARBIDE IN AT TD. CIRCULATE THEORETICAL DOWN 750 stks. THEOR. ANNULUS 12923 stks. TOTAL 13674. PUMP 19163 stks WITH NO CARBIDE DETECTED. MINIMUM AVERAGE HOLE SIZE IS 21.7". DROP MULTI-SHOT SURVEY & POOH. M/U CASING TOOLS.

OVERPULL 30-80 klb ON STANDS 2-19 (5360'-3677').

" 10-50 klb ON STANDS 20-38 (3677'-1900').

NOTE: MUD LOSSES WHILE DRILLING 4648-5452' STEADY AT ~10 BBL/HR PROBABLY DUE TO SOLIDS CONTROL EQUIPMENT.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329274

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 9.

COMPANY AMOCO AUSTRALIA WELL TILANA-1

DATE 18th SEPT' 85 TIME 0500hrs

DEPTH 1661.7m (5452'). LAST REPORT DEPTH 1661.7m (5452')

RIG OPERATIONS RIH w/ 13 3/8" CASING.

REPORT BY J. STRAUTINS REPORT RECEIVED BY J. GOULLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: _____ Type: _____ Size: _____ Jets: _____

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: _____ Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: — Flowline Temperature: —

Shale Density: — Shale Factor: —

Background Gas: — Max. Formation Gas: — @ — Trip Gas: 380 @ 5452'

Other Gas: _____

Fill: 5ft @ 5452' Tight Hole: 20klb drag 4983 - 5076'.

Cavings: Est %: — Average Size: —

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: _____ Min. Estimated Fracture Pressure (Open Hole): 15.3ppg @ shoe

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7ppg @ shoe.

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ _____ Estimated Fracture Pressure at TD: 19.5 ppg.

Comments: RIH NB5 TO ENSURE HOLE CLEAN. NO TIGHT HOLE ON TRIP IN. CIRCULATE RETURNS & 2 HI-VIS GEL PILLS. ATTEMPT TO DETERMINE LAG TIME — INCONCLUSIVE. ASSUME >22" AVG. HOLE. POOH. DRAG OF 20klb (MAX) ON 5th STD ONLY.
RIH w/ 13 3/8" CSG — FILL EVERY 5th JOINT.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329275

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 10

COMPANY AMOCO AUSTRALIA. WELL TILANA-1

DATE 19th SEPT '85 TIME 0500hrs.

DEPTH 1661.7m (5452') LAST REPORT DEPTH 1661.7m (5452')

RIG OPERATIONS DRILLING CEMENT IN CASING.

REPORT BY J. STRAUTINS REPORT RECEIVED BY J. GUILLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB6 Type: SMITH SDGH Size: 12¼" Jets: OPEN.

On Bit: Footage: 2013'CMT Hours: 5.3 ROP: WOB: 5-20klb RPM: 40

Pump Press: 1220psi SPM: 155 Torque: 1.3 kAlbs TBR: 11400 CP I:$ - CP B:$ -

HYDRAULICS REPORT

Mud Density In: 8.7 ppg Mud Density Out: 8.7 ppg ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate: 768 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD: 19.5 ppg

Comments: LAND 13 3/8" CASING @ 1651.3m (5418'). CIRCULATE ANNULAR VOLUME. PERFORM FCCT. 380 psi GIVES 11.2 PPG EMW. PUMP CMT. DISPLACE CMT W/ RIG PUMPS. ACTIVE PITS START 440 bbls / END 370 bbls (SOME DUMPED). NO LOSSES. ONLY PUMPED 2024 stks (THEOR 6400 stks) PLUG BUMPED @ 2400 psi.

RIH NB 6 TO 2017' (614.8m). WASH F/ 2017'-2097' (639m). DRILL CMT F/ 2097-4110' WITH SEAWATER ONLY (DUMPING RETURNS).

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329276

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 11

COMPANY AMOCO AUSTRALIA. WELL TILANA-1

DATE 20th SEPT '85 TIME 0500 hrs

DEPTH 1661.7 m (5452') LAST REPORT DEPTH 1661.7 m (5452').

RIG OPERATIONS POOH NB#6.

REPORT BY J. STRAUTINS. REPORT RECEIVED BY J. GUILLORY SIGNED (OPERATOR)

DRILLING REPORT

Bit No.: NB6 Type: SMITH SDSH Size: 12¼" Jets: OPEN.

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: _____ Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: _____ Flowline Temperature: _____

Shale Density: _____ Shale Factor: _____

Background Gas: _____ Max. Formation Gas: _____ @ _____ Trip Gas: _____ @ _____

Other Gas: _____

Fill: _____ Tight Hole: _____

Cavings: Est %: _____ Average Size: _____

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: _____ Min. Estimated Fracture Pressure (Open Hole): _____

Estimated Pore Pressure: 8.7 ppg. Min. Estimated Pore Pressure (Open Hole): _____ @ _____

Max. Estimated Pore Pressure (Open Hole): _____ @ _____ Estimated Fracture Pressure at TD: 19.5 ppg

Comments: DRILL CEMENT 4110' - 5329'. DRILL FLOAT TO 5336'. NO CEMENT BELOW FLOAT. RIH TO SHOE @ ~5416'. FILL CSG WITH MUD. POH 15 STDS. WELL FLOWED (PROBABLE U-TUBING AS CSG - HOLE ANNULUS CONTAINS 9.1-9.2 ppg MUD). CIRCULATE & RAISE MUD WEIGHT. POOH.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329277

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 12

COMPANY Amoco Aust. WELL TILANA-1

DATE 21st SEPT '85 TIME 0500 hrs

DEPTH 1661.7m (5452') LAST REPORT DEPTH 1661.7m (5452')

RIG OPERATIONS CIRCULATING TO CLEAN CMT F/ CASING HANGER.

REPORT BY J. STRAUTINS REPORT RECEIVED BY J. SULLORY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD: 19.5 ppg

Comments: POOH w/ NB 6. RIH & ATTEMPT TO CIRCULATE THROUGH CASING. POOH (NO CIRC.). RIH NB 7 SMITH SDT 12¼" OPEN JETS. DRILL SHOE. POOH. RIH TO CASING HANGER AND ATTEMPT TO CIRCULATE AROUN CASING. UNSUCCESSFUL. POOH.

SET WIRELINE PLUG @ 5320'. RIH & STING INTO PLUG. CEMENT CASING (1589 sx Lead, 513 sx Tail; Displace 83 bbl mud). HOLD 1300 psi. UNSTING. BLEED PRESSURE. POH, 5 STDS. CIRCULATE TO FLUSH CEMENT FROM WELLHEAD.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329378

EXLOG (SM) GEMDAS LOGGING REPORT NO. 13

COMPANY Amoco Aust. WELL TILANA-1

DATE 22ND SEPT '85 TIME 0500hrs

DEPTH 5312' (1619.1m) LAST REPORT DEPTH 1661.7m (5432').

RIG OPERATIONS DRILL EZSV PLUG.

REPORT BY D. NEW REPORT RECEIVED BY J. GUILLORY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: RRB#7 Type: SMITH SDT Size: 12¼ Jets: OPEN.

On Bit: Footage: 0 Hours: 4.4 ROP: — WOB: 15-35 RPM: —

Pump Press: 1200-1600 SPM: 120-150 Torque: 2.1-3.2 TBR: — CP I: $ — CP B: $ —

HYDRAULICS REPORT

Mud Density In: 8.9 ppg Mud Density Out: 9.0 ppg ECD: 9.0 ppg PV/YP: 20/13.

Gels: — Salinity: — PPM Cl Solids: — %

Hole Volume: 851 BBL Annular Volume: 705 BBL Tubing Volume: 87 BBL Displaced Volume: 59 BBL

Carbide Lag—Calculated Lag: — Flowrate: 802 GAL/MIN

Drillpipe Annular Vel (Max. Dia. Sec.): 60.2 FT/MIN Drillpipe Annular Vel (Open Hole): —

Drill Collar Annular Vel (~~Open Hole~~ CASING): 222.2 FT/MIN Critical Vel: 317 FT/MIN

Pressure Loss System: 1183 psi Pressure Loss Bit: 95 psi % Pressure Loss: 7

Nozzel Vel: 109 FT/SEC Jet Impact Force: 403 LBS HHP: 44.3 HP.

PRESSURE PARAMETERS

Drilling Exponent: — Flowline Temperature: 33.3°C

Shale Density: — Shale Factor: —

Background Gas: — Max. Formation Gas: — @ — Trip Gas: — @ —

Other Gas: —

Fill: — Tight Hole: —

Cavings: Est %: — Average Size: —

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: — Min. Estimated Fracture Pressure (Open Hole): —

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): — @ —

Max. Estimated Pore Pressure (Open Hole): — @ — Estimated Fracture Pressure at TD: —

Comments: CEMENT CASING THROUGH EZSV PLUG. POOH LAYING DOWN EXCESS PIPE. TEST BOP STACK AND SURFACE LINES RIH WITH RRB#7 TO DRILL PLUG.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329379

EXLOG (SM) GEMDAS LOGGING REPORT NO. 14

COMPANY AMOCO AUST. WELL TILANA No1

DATE 23/9/85. TIME 05:00

DEPTH 5461' (1664.5m) LAST REPORT DEPTH 5312' (1619.1m)

RIG OPERATIONS MAKE UP CORE BARREL

REPORT BY D. NEW REPORT RECEIVED BY J. GUILLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: RR3#7 Type: SMITH SDT Size: 12¼ Jets: OPEN

On Bit: Footage: 8' Hours: 0.1 ROP: ~100 FT/HR WOB: 20 RPM: 75.

Pump Press: 1800psi SPM: Torque: TBR: CP I:$ CP B:$

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole): 14.6 ppg

Estimated Pore Pressure: 8.7ppg Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD: 14.6ppg

Comments: DRILL OUT EZSV PLUG AND CEMENT TO 5422' CIRC BOTTOMS UP AND RUN LEAK OF TEST ON CASING AND CEMENT (14.3ppg) DRILL AHEAD TO 5460' (1664.2m), CIRCULATE RETURNS AND RUN SECOND LEAK OFF TEST (14.6ppg) POOH AND RIH WITH REVERSE CIRCULATING JUNK BASHET TO FISH FOR JUNK LEFT FROM PLUG "DRILL" 1FT TO 5461' POOH MAKE UP CORE BARREL.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329380

EXLOG (SM) GEMDAS LOGGING REPORT NO. 15

COMPANY AMOCO AUST WELL TILANA No1

DATE 24/9/85 TIME 05:00 HRS

DEPTH 5850' (1783m) LAST REPORT DEPTH 5461' (1664.5m)

RIG OPERATIONS DRILLING 12¼" HOLE

REPORT BY D. NEW REPORT RECEIVED BY J. GUILLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#9 Type: SMITH SDGH Size: 12¼" Jets: 3 x 15

On Bit: Footage: 331' Hours: 7.0 ROP: 47.3 (AVG) WOB: 20-40 RPM: 100

Pump Press: 2000 SPM: 120 Torque: 1.5-2.5 TBR: 38000 CP I: $ 360 CP B: $ 442

HYDRAULICS REPORT

Mud Density In: 9.0 Mud Density Out: 9.2 ECD: 9.2 PV/YP: 14/12

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 922 BBL Annular Volume: 764 BBL Tubing Volume: 96 BBL Displaced Volume: 62 BBL

Carbide Lag—Calculated Lag: IN GAUGE Flowrate: 618 GPM.

Drillpipe Annular Vel (Max. Dia. Sec.): ~~46~~ 46 FT/MIN Drillpipe Annular Vel (Open Hole): 121 FT/MIN

Drill Collar Annular Vel (Open Hole): 176 FT/MIN Critical Vel: 290 FT/MIN

Pressure Loss System: 821 psi Pressure Loss Bit: 1179 % Pressure Loss: 60

Nozzel Vel: 383 FT/SEC Jet Impact Force: 1103 LBS HHP: 425.2 HP.

PRESSURE PARAMETERS

Drilling Exponent: 0.8-1.35 AVG 1.2 Flowline Temperature: 37.8°C

Shale Density: — Shale Factor: —

Background Gas: 1-2 u Max. Formation Gas: 11u (122%) @ 5613' (1712m) Trip Gas: 0 @

Other Gas: NIL

Fill: NIL Tight Hole: NIL

Cavings: Est %: MINOR Average Size: SMALL, ~~ELEGANT~~

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 5 ppg Min. Estimated Fracture Pressure (Open Hole): ~~14~~ 13 ppg (S/S)

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ Estimated Fracture Pressure at TD: ~~13~~ 14.6

Comments: RIH AND CUT CORE No1 5461-5519' (1664.5-1682.2m) REC 33' (57%) POOH WITH CORE BARREL. RIH WITH NB#9 SMITH SDGH, REAM RAT HOLE CIRCULATE BOTTOMS UP DRILL AHEAD FROM 5519' (1682.2m)

NOTE: CARBIDE DATA INDICATES IN GAUGE HOLE.
PRESSURE TRENDS NORMAL
SURFACE HP = 721 HP.
HP/SQ" = 3.61 HP/SQIN.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329381

EXLOG GEMDAS LOGGING REPORT NO. 16

COMPANY AMOCO AUST. WELL TILANA No1

DATE 25/9/85. TIME 05:00

DEPTH 6444' (1964m) LAST REPORT DEPTH 5850' (1783m)

RIG OPERATIONS DRILL 12¼" HOLE

REPORT BY D. NEW REPORT RECEIVED BY J. GUILLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NBH10 Type: SMITH SUH Size: 12¼ Jets: 3x15

On Bit: Footage: 124' (NBH10) Hours: 1.8 HRS ROP: 68.9 FT/HR WOB: 30-40 RPM: 110

Pump Press: 2200 SPM: 121 Torque: 1.5-7.0 TBR: 11801 CP I: $ 250 CP B: $ 530

HYDRAULICS REPORT

Mud Density In: 9.0 Mud Density Out: 9.1-9.3 ECD: 9.2 PV/YP: 16/12

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1026 BBL Annular Volume: 848 BBL Tubing Volume: 104 BBL Displaced Volume: 74 BBL

Carbide Lag—Calculated Lag: 1678 STKS. Flowrate: 614 gpm.

Drillpipe Annular Vel (Max. Dia. Sec.): 46.1 FT/MIN Drillpipe Annular Vel (Open Hole): 120.3 FT/MIN

Drill Collar Annular Vel (Open Hole): 174.8 FT/MIN Critical Vel: 292.8 FT/MIN

Pressure Loss System: 1032 psi Pressure Loss Bit: 1168 psi % Pressure Loss: 53%

Nozzel Vel: 380 FT/SEC Jet Impact Force: 1092 LBS HHP: 418 HP

PRESSURE PARAMETERS

Drilling Exponent: 0.8-1.51 AVG ~1.15 Flowline Temperature: 38° C

Shale Density: — Shale Factor: —

Background Gas: 0.1 - Lu (0.002 - 0.02%) Max. Formation Gas: 1.5 (1003) @ 1806m (5925') Trip Gas: NIL @ 1926.4 (6320')

Other Gas: NIL

Fill: 25' ON TRIP IN Tight Hole: UP TO 60KLB DRAG ON STAND 8 ON TRIP OUT

Cavings: Est %: FEW UP TO ~30% Average Size: SMALL, SANDSTONE

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 4.7ppg Min. Estimated Fracture Pressure (Open Hole): 13 ppg IN S/S

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7ppg @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7ppg @ T.D Estimated Fracture Pressure at TD: 13.2ppg

Comments: DRILL 12¼" HOLE TO 1926.4m. CR. DROP SURVEY AND POOH FOR BIT CHANGE DUE TO LOW ROP. MAKE UP NEW BHA AND RIH WITH NBH10 DRILL AHEAD.

SURFACE HP = 788 HP. HP/SQ IN = 3.55

PRESSURE TRENDS NORMAL.

OCCASIONAL HIGH TORQUE POSSIBLY DUE TO LOOSE SAND.

LITHOLOGY: SANDSTONE / SILTSTONE.

NB#9 AVG ROP = 49.7 FT/HR.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329382

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 17

COMPANY AMOCO AUST. WELL TILANA No1

DATE 26/9/85 TIME 05:00

DEPTH 6742' (2055m) LAST REPORT DEPTH 6444' (1964m)

RIG OPERATIONS DRILL 12¼" HOLE.

REPORT BY D. NEW REPORT RECEIVED BY J. GUILLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#11 Type: SMITH F2 Size: 12¼ Jets: 3x15

On Bit: Footage: 174' Hours: 10.7 ROP: 16.3 FT/HR (AVG FOR NB11) WOB: 35 RPM: 88

Pump Press: 2300 SPM: 121 Torque: ~2.0 TBR: 5950 CP I: $ 1073 CP B: $ 1326

HYDRAULICS REPORT

Mud Density In: 9.0 Mud Density Out: 9.1 - 9.2 ECD: 9.1 PV/YP: 16/10

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1078 BBL Annular Volume: 892 BBL Tubing Volume: 110 BBL Displaced Volume: 76 BBL

Carbide Lag—Calculated Lag: 207 STKS (25 BBL) Flowrate: 619 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 46.4 FT/MIN Drillpipe Annular Vel (Open Hole): 121.1 FT/MIN

Drill Collar Annular Vel (Open Hole): 176 FT/MIN Critical Vel: 262.2 FT/MIN

Pressure Loss System: 1122 psi Pressure Loss Bit: 1178 psi % Pressure Loss: 51%

Nozzel Vel: 382.9 FT/SEC Jet Impact Force: 1102.1 LBS HHP: 424.7

PRESSURE PARAMETERS

Drilling Exponent: 1.1 - 2.04 AVG 1.6 Flowline Temperature: 40.5°C

Shale Density: — Shale Factor: —

Background Gas: 0.0 - 0.1u Max. Formation Gas: 0.4u (0.003%) @ 2019m (6623') Trip Gas: Ou(0%) @

Other Gas: NIL

Fill: NIL Tight Hole: NIL

Cavings: Est %: <10% Average Size: SMALL

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 4.4 ppg. Min. Estimated Fracture Pressure (Open Hole): 13 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ SHOE.

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ T.D. Estimated Fracture Pressure at TD: 18 ppg (DIORITE)

Comments: DRILL 12¼" HOLE TO 2002m (6568') POOH ; NO DRAG; DUE TO LOW ROP. RIH WITH NB#11 AND DRILL AHEAD. ROP LOW DUE TO LITHOLOGY (DIORITE, INTRUSIVE)

SURFACE HP = 829 HP/SQ IN = 3.6 HP/SQ IN.

NB#10: 248' IN 6.3 HRS (ON BOTTOM) AVG ROP: 39.6 FT/HR.

LITHOLOGY: DIORITE.

THE TYPE OF LITHOLOGY AND THE ABSENCE OF GAS IS MAKING PORE PRESSURE ESTIMATES UNRELIABLE. HOWEVER THERE IS NO GUIDANCE TO SUGGEST ANY CHANGE IN PORE PR.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329383

EXLOG (SM) GEMDAS LOGGING REPORT NO. 18

COMPANY AMOCO AUST. WELL TILANA No1

DATE 27/9/85. TIME 05:00

DEPTH 7065' (2153m) LAST REPORT DEPTH 6742' (2055m)

RIG OPERATIONS DRILL 12¼" HOLE

REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#11 Type: SMITH F2 Size: 12¼ Jets: 3x15

On Bit: Footage: 498 Hours: 31.7 ROP: 15.7 AVG. WOB: 35-40 RPM: 55

Pump Press: 2370 SPM: 122 Torque: 2-3.5 TBR: 161314 CP I: $ 800 CP B: $ 1160

HYDRAULICS REPORT

Mud Density In: 9.1 Mud Density Out: 9.2 ECD: 9.22 PV/YP: 21/15

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1120 BBL Annular Volume: 926 BBL Tubing Volume: 116 BBL Displaced Volume: 79 BBL

Carbide Lag—Calculated Lag: 160 STKS Flowrate: 618 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 121.1 FT/MIN Drillpipe Annular Vel (Open Hole): 46.4 FT/MIN

Drill Collar Annular Vel (Open Hole): 176 FT/MIN Critical Vel: 345 FT/MIN

Pressure Loss System: 1176 psi Pressure Loss Bit: 1194 psi % Pressure Loss: 50%

Nozzel Vel: 383 FT/HR Jet Impact Force: 1117.2 LBS HHP: 430.6 HP

PRESSURE PARAMETERS

Drilling Exponent: 1.4 - 1.9, 1.65 AVG. Flowline Temperature: 39.5°C

Shale Density: Shale Factor:

Background Gas: 0 - 0.5u (0 - 0.01%) Max. Formation Gas: 0.5u (0.01%) @ 2039m (7017') Trip Gas: 0u (0%) @ 6921' (2109.5m)

Other Gas: NIL

Fill: NIL Tight Hole: NIL ON WIPER TRIP

Cavings: Est %: <5% Average Size: SMALL

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 4.23 ppg EMW Min. Estimated Fracture Pressure (Open Hole): 13 ppg (S/S)

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ T.D Estimated Fracture Pressure at TD: 18 ppg EMW

Comments: DRILL AHEAD TO 6778' (2066m) FLOW CHECK DRILLING BREAK. (-NC) DRILL AHEAD AT 3-6m/HR (10-20FT/HR) IN DIORITE/VOLCANICS. WIPER TRIP AT 6921' (2109.5m) NO PROBLEMS DRILL AHEAD.

LITHOLOGY: DIORITE/VOLCANIC.

SURFACE HP = 854.5 HP. HP/SQ IN = 3.65 HP.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329384

EXLOG (SM) GEMDAS LOGGING REPORT NO. 19

COMPANY AMOCO AUST. WELL TILANA No1

DATE 28/9/85 TIME 05:00 HRS

DEPTH 7227' (2203m) LAST REPORT DEPTH 7065' (2153m)

RIG OPERATIONS DRILL 12¼" HOLE.

REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#12 Type: SMITH F3 Size: 12¼" Jets: 15, 15, 15

On Bit: Footage: 54 Hours: 5.0 ROP: 10.8 FT/HR WOB: 35-42 RPM: 80

Pump Press: 2320 SPM: 121 Torque: 3-3.5 TBR: 24491 CP I: $ 1600 CP B: $ 2602

HYDRAULICS REPORT

Mud Density In: 9.1 Mud Density Out: 9.2 ECD: 9.22 PV/YP: 24/20

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1144 BBL Annular Volume: 945 BBL Tubing Volume: 119 BBL Displaced Volume: 80 BBL

Carbide Lag—Calculated Lag: 1635 STKS (191 BBL) Flowrate: 610 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 45.8 FT/MIN. Drillpipe Annular Vel (Open Hole): 119.6 FT/MIN

Drill Collar Annular Vel (Open Hole): 173.7 FT/MIN Critical Vel: 418 FT/MIN

Pressure Loss System: 1159 Pressure Loss Bit: 1161 psi % Pressure Loss: 50

Nozzel Vel: 378 FT/SEC Jet Impact Force: 1086.2 LBS HHP: 413.2

PRESSURE PARAMETERS

Drilling Exponent: 1.5-2.0 AUG 1.7 Flowline Temperature: 41.4

Shale Density: — Shale Factor: —

Background Gas: 0-0.2u (0.004%) Max. Formation Gas: 0.3u (0.006%) 7086' (2160m) Trip Gas: 0u (0%) @ 7173 (2186m)

Other Gas: NIL.

Fill: NIL Tight Hole: NIL

Cavings: Est %: MINOR <5% Average Size: SMALL

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 4.1 ppg Min. Estimated Fracture Pressure (Open Hole): 13 ppg (S/S)

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7 @ T.D. Estimated Fracture Pressure at TD: 18 ppg

Comments: DRILL TO 7173' (2186.3m) C.R. POOH FOR BIT CHANGE. NO PROBLEMS ON TRIP. RIH WITH NB#12. DRILL AHEAD

LITHOLOGY: DOLERITE / GABBRO.

SURFACE HP = 825.7 HP HP/SQ IN = 3.51

NB#11 605FT / 41.0 HRS (ON BOTTOM), AVG ROP = 14.7 FT/HR.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329285

EXLOG (SM) GEMDAS LOGGING REPORT NO. 20

COMPANY AMOCO AUST. WELL TILANA No1

DATE 29/9/85. TIME 05:00

DEPTH 7627' (2324.3m) LAST REPORT DEPTH 7227' (2203m)

RIG OPERATIONS WIPER TRIP

REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB# 12 Type: SMITH F3 Size: 12¼ Jets: 3x15

On Bit: Footage: 449FT Hours: 22.7HRS ROP: 19.6FT/HR WOB: 30-40 RPM: 85

Pump Press: 2380 SPM: 121 Torque: 3-4.5 TBR: 113640 CP I: $ 404 CP B: $ 988

HYDRAULICS REPORT

Mud Density In: 9.1 Mud Density Out: 9.2 ECD: 9.23 PV/YP: 20/18

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: 1204 ~~995~~BBL Annular Volume: 995 Tubing Volume: 126BBL Displaced Volume: 83BBL

Carbide Lag—Calculated Lag: 172STKS 20BBL Flowrate: 618 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 46.4 FT/MIN Drillpipe Annular Vel (Open Hole): 121.1 FT/MIN

Drill Collar Annular Vel (Open Hole): 176 FT/MIN Critical Vel: 388 FT/MIN.

Pressure Loss System: 1186 PSI Pressure Loss Bit: 1194 % Pressure Loss: 50%

Nozzel Vel: 383 FT/SEC Jet Impact Force: 1117 HHP: 430HP

PRESSURE PARAMETERS

Drilling Exponent: 0.8 - 1.9. Flowline Temperature: 45.5°C.

Shale Density: — Shale Factor: —

Background Gas: 0.1 - 0.5u (0.002 - 0.01%) Max. Formation Gas: 330u (6.6%) @ 7621 (2323m) Trip Gas: — @ —

Other Gas: NIL

Fill: NIL Tight Hole: NIL

Cavings: Est %: UP TO 20% COAL Average Size: SMALL BLOCKY.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 4.0ppg Min. Estimated Fracture Pressure (Open Hole): 13 ppg

Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7 @ T.D. Estimated Fracture Pressure at TD: 15ppg

Comments: DRILL 12¼" HOLE FLOW CHECK DRILLING BREAKS AT 7548' (2300.6m) AND AT 7616' (2321m) C.R AT 7557' (2303m). DRILL TO 2324m FOR C.R. GAS INCREASES TO A MAX OF 330u (6.6%) (GAS FROM COALS).
SURFACE HP = 858 HP AT BIT = 3.65 HP/SQ IN.
1ST DRILL BREAK @ 7539' (2299m) - 7568' (2308m) - NO GAS
2ND DRILL BREAK 7598' - 7627' (2316m - 2325m) MAX GAS ~~33~~ 330u 6.6% GAS FROM COAL
C1 - C3 (TRACE C4)

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329386

EXLOG (SM) GEMDAS LOGGING REPORT NO. 21

COMPANY AMOCO AUST WELL TILANA No1

DATE 30/9/85 TIME 05:00

DEPTH 7971' (2429.5m) LAST REPORT DEPTH 7627' (2324.3m)

RIG OPERATIONS POOH. FOR BIT CHANGE.

REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#12 Type: SMITH F3 Size: 12¼ Jets: 3x15

On Bit: Footage: 798FT Hours: 43.1 HRS ROP: 16.9 (LAST 24HRS) WOB: 40-44 RPM: 65-85

Pump Press: 2390 SPM: 120 Torque: 0.8-7.6 TBR: 211375 CP I: $ 4500 CP B: $ 962.

HYDRAULICS REPORT

Mud Density In: 9.2 Mud Density Out: 9.2+ ECD: 9.24 PV/YP: 17/7

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1255BBL Annular Volume: 1038BBL Tubing Volume: 132BBL Displaced Volume: 85BBL

Carbide Lag—Calculated Lag: 179STKS (21BBL) Flowrate: 610GPM.

Drillpipe Annular Vel (Max. Dia. Sec.): 45.8FT/MIN Drillpipe Annular Vel (Open Hole): 119.5FT/MIN

Drill Collar Annular Vel (Open Hole): 173 FT/MIN Critical Vel: 211.3 FT/MIN

Pressure Loss System: 1216psi Pressure Loss Bit: 1174psi % Pressure Loss: 49%

Nozzel Vel: 378 FT/SEC Jet Impact Force: 1098 LBS HHP: 4178.

PRESSURE PARAMETERS

Drilling Exponent: 1.1 - 2.1 Flowline Temperature: 50.0°C.

Shale Density: — Shale Factor: —

Background Gas: 1-5u. Max. Formation Gas: 413u @ 7703' 2348m. Trip Gas: 2u @ 7627' (2324m)

Other Gas: NIL

Fill: NIL Tight Hole: NIL

Cavings: Est %: MINOR Average Size: SMALL

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 3.6 ppg. Min. Estimated Fracture Pressure (Open Hole): 13ppg.

Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7 @ T.D Estimated Fracture Pressure at TD:

Comments: NO PROBLEMS ON WIPER TRIP AT 7627' (2324m) (DEV=½)
DRILL AHEAD TO 7658' TORQUE INCREASES AND BECOMES VERY ERRATIC AFTER A CONNECTION. TORQUE CONTINUED TO INCREASE AND BECOME MORE ERRATIC FROM THIS DEPTH UNTIL T.D.

LITHOLOGY: SILTSTONE WITH INTERBEDDED SANDSTONE AND COAL.

SURFACE HP = 850.6 HP BIT HP/DIA = 3.54 HP/SQ IN.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329387

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 22

COMPANY AMOCO AUST. WELL TILANA No1

DATE 1/10/85. TIME 05:00

DEPTH 8099 (2468.6m) LAST REPORT DEPTH 7971 (2429.5m)

RIG OPERATIONS DRILL 12¼" HOLE.

REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#13 Type: SMITH F3 Size: 12¼ Jets: 3x14

On Bit: Footage: 128 Hours: 8.3 ROP: 15.4 FT/HR. WOB: 40-45 RPM: 85-90

Pump Press: 2700 SPM: 98 Torque: 2-3.5 TBR: 43570 CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: 9.3 Mud Density Out: 9.3 ECD: 9.38 PV/YP: 23/13

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1273 Annular Volume: 1053 Tubing Volume: 134 Displaced Volume: 86

Carbide Lag—Calculated Lag: 172 STKS (22 BBL) Flowrate: 456 GPM.

Drillpipe Annular Vel (Max. Dia. Sec.): 34 FT/MIN Drillpipe Annular Vel (Open Hole): 89.2 FT/MIN.

Drill Collar Annular Vel (Open Hole): 129.6 FT/MIN Critical Vel: 318.7 FT/MIN.

Pressure Loss System: 1830 psi Pressure Loss Bit: 870 psi % Pressure Loss: 32%

Nozzel Vel: 324 FT/SEC Jet Impact Force: 709 LBS HHP: 231 HP.

PRESSURE PARAMETERS

Drilling Exponent: 1.4 - 1.9 AVG ~1.7 Flowline Temperature: 46.7

Shale Density: — Shale Factor: —

Background Gas: 1-2 Max. Formation Gas: 14u (0.7%) @ 2446m (8024') Trip Gas: 16u (0.8%) @ 7971' (2429.5m)

Other Gas: NIL

Fill: NIL Tight Hole: NIL

Cavings: Est %: MINOR Average Size: SMALL

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 3.6 ppg Min. Estimated Fracture Pressure (Open Hole): 13.

Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7 @ T.D. Estimated Fracture Pressure at TD: 14.8

Comments: POOH. STACH TEST. RIH WITH NB#13. NO PROBLEMS ON TRIP. DRILL AHEAD.

LITHOLOGY: CLAYSTONE WITH SILTSTONE AND SANDSTONE.

SURFACE HP: 716 HP HP/SQIN = 1.96.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329388

EXLOG (SM) GEMDAS LOGGING REPORT NO. 23

COMPANY AMOCO AUST WELL TILANA No1

DATE 2/10/85 TIME 05:00

DEPTH 2563m (8409') LAST REPORT DEPTH 8099 (2468.6m)

RIG OPERATIONS DRILL 12¼" HOLE

REPORT BY D. NEW REPORT RECEIVED BY J. GOUGHY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#13 Type: SMITH F3 Size: 12¼" Jets: 14,14,14 (ONE PARTIALLY BLOCKED, EQUIVALENT TO A 5)

On Bit: Footage: 438FT Hours: 31 ROP: 14.1 FT/HR WOB: 40-45 RPM: 85-90

Pump Press: 2900 SPM: 96 Torque: 2-6.0 TBR: 15926 CP I: $ 2150 CP B: $ 1303.

HYDRAULICS REPORT

Mud Density In: 9.6 Mud Density Out: 9.65 ECD: 9.67 PV/YP: 22/12

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1319 Annular Volume: 1091 Tubing Volume: 140 Displaced Volume: 89

Carbide Lag—Calculated Lag: (1899 STKS 23BBL Flowrate: 49

Drillpipe Annular Vel (Max. Dia. Sec.): 36.8 FT/MIN Drillpipe Annular Vel (Open Hole): 96FT/MIN

Drill Collar Annular Vel (Open Hole): 139.5FT/MIN Critical Vel: 294.5 FT/MIN

Pressure Loss System: 881psi Pressure Loss Bit: 1042 (2071psi) Pressure Loss: 53 (69)

Nozzel Vel: 348.6 (491)FT/SEC Jet Impact Force: 848 (1197) LBS HHP: 298 (592) HP

PRESSURE PARAMETERS

Drilling Exponent: 1.3 - 1.9 1.75 AVG. Flowline Temperature: 44°C

Shale Density: — Shale Factor: 2-6

Background Gas: 1-2u (0.02-0.04%) Max. Formation Gas: 71u @ 2521.5m (8273') Trip Gas: NIL @

Other Gas: NIL

Fill: NIL Tight Hole: NIL

Cavings: Est %: MINOR Average Size: SMALL

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 3.3 ppg Min. Estimated Fracture Pressure (Open Hole): 13 ppg EMW

Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7pps @ T.D. Estimated Fracture Pressure at TD: 14.9pps

Comments: DRILL 12¼" HOLE. NEGATIVE FLOW CHECKS AT 2499m (8199') AND AT 2523m (8277'). TORQUE INCREASES AFTER A CONNECTION AT 2542m (8339') AND CONTINUED TO BE HIGH AND ERRATIC. ROP SLOWLY DECREASING. - POSSIBLE LOCKED CONE.

PUMP PRESSURES TOO HIGH FOR FLOW RATES INDICATING A PARTIALLY BLOCKED NOZZEL. NOZZLE AREA REDUCED TO THE EQUIVALENT OF A 5.

SURFACE HP: 829. HP AT BIT/SQ IN: 2.5 (5.02)

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329389

EXLOG (SM) GEMDAS LOGGING REPORT NO. 24

COMPANY AMOCO AUST. WELL TILANA No1

DATE 3/10/85. TIME 05:00

DEPTH 2610.7m (8565') LAST REPORT DEPTH 2563m (8409')

RIG OPERATIONS DRILL 12 1/4" HOLE.

REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB#14 Type: SMITH Size: F2 CE Jets: 3x13, 1x8.

On Bit: Footage: 145FT Hours: 10.1 ROP: 14.3FT/HR. WOB: 40-43 RPM: 85-90

Pump Press: 2510 SPM: 112 Torque: 2.5-3.8 TBR: 52450 CP I: $1300 CP B: $1580

HYDRAULICS REPORT

Mud Density In: 9.3 Mud Density Out: 9.3 ECD: 9.4 PV/YP: 22/12

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1389BBL Annular Volume: 1157BBL Tubing Volume: ~~1230~~ 142 Displaced Volume: 90BBL

Carbide Lag—Calculated Lag: 587 STKS (70BBL) Flowrate: 560

Drillpipe Annular Vel (Max. Dia. Sec.): 42FT/MIN Drillpipe Annular Vel (Open Hole): 110FT/MIN.

Drill Collar Annular Vel (Open Hole): 160.1FT/MIN Critical Vel: 301.7FT/MIN

Pressure Loss System: 1103 Pressure Loss Bit: 1407 % Pressure Loss: 55

Nozzel Vel: 411.7FT/SEC Jet Impact Force: 1114 LBS HHP: 461 HP

PRESSURE PARAMETERS

Drilling Exponent: 1.11 - 1.78 AVG 1.65 Flowline Temperature: 45.5°C

Shale Density: — Shale Factor: 1 - 4

Background Gas: 1-2u (0.02 - 0.04%) Max. Formation Gas: 4u @ 2562m (8405') Trip Gas: 2u (0.04%) @ 2566.5 (8420')

Other Gas: NIL

Fill: NIL Tight Hole: 20KLB DRAG ON STAND 8 OF TRIP OUT.

Cavings: Est %: UP TO 50% COAL Average Size: SMALL, BLOCKY.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 3.4 ppg EMW Min. Estimated Fracture Pressure (Open Hole): 13ppg

Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7 @ T.D Estimated Fracture Pressure at TD: 14.9ppg

Comments: DRILL TO 2566.5m (8420') PUMP HIGH VIS PILL CIRCULATE BOTTOMS UP, DROP SURVEY AND POOH DUE TO POSSIB HIGH TORQUE. ALL THREE CONES LOOSE AND ONE NOZZEL BLOCKED. RIH WITH NB#14. DRILL AHEAD.

SURFACE HP: 823 HP AT BIT/SQ IN: 3.91 HP/SQ IN

LITHOLOGY: CLAYSTONE, WITH SILTSTONE AND OCCASIONAL SANDSTONE AND COAL INTERBEDS

NB#13: 449' IN 31.9HRS AVG ROP 14.1FT/HR (4.3m/HR

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329290

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 25

COMPANY AMOCO AUST. WELL TILANA No 1

DATE 4/10/85. TIME 04:00

DEPTH 2717m (8914') LAST REPORT DEPTH 2610.7m (8565')

RIG OPERATIONS DRILL 12¼" HOLE.

REPORT BY D. NEW REPORT RECEIVED BY J. GOLLORY (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: NB#14 Type: SMITH F2CE Size: 12¼ Jets: ~~3x18~~ 3x13, 1x8.

On Bit: Footage: 495 Hours: 27.7 ROP: 17.8FT/HR (5.4m/HR) WOB: 35-43 RPM: 90

Pump Press: 2860 SPM: 120 Torque: 3-5 TBR: 14.350 CP I: $ 812 CP B: $ 1050

HYDRAULICS REPORT

Mud Density In: 9.3 Mud Density Out: 9.3+ ECD: 9.4 PV/YP: 21/13

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1445BBL Annular Volume: 1203BBL Tubing Volume: 149BBL Displaced Volume: 92

Carbide Lag—Calculated Lag: 611STK 72BBL. Flowrate: 611 GPM.

Drillpipe Annular Vel (Max. Dia. Sec.): 45.6 FT/MIN Drillpipe Annular Vel (Open Hole): 119.7 FT/MIN

Drill Collar Annular Vel (Open Hole): 174 FT/MIN Critical Vel: 313 FT/MIN

Pressure Loss System: 1216 Pressure Loss Bit: 1664 % Pressure Loss: 58%

Nozzel Vel: 447.6 FT/SEC. Jet Impact Force: 1316.5 LBS HHP: 593

PRESSURE PARAMETERS

Drilling Exponent: 1.0 - 1.95 AVG ~ 1.60 Flowline Temperature: 50.0

Shale Density: — Shale Factor:

Background Gas: 1-2u 60 units(Max). Formation Gas: 9u (0.18%) @ 2692m (8831') Trip Gas: — @

Other Gas: NIL

Fill: NIL Tight Hole: NIL

Cavings: Est %: MINOR, GENERALLY COAL Average Size: SMALL BLOCKY

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 3.23 ppg Min. Estimated Fracture Pressure (Open Hole): 13 ppg

Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7 @ ~~SHOE~~ T.D. Estimated Fracture Pressure at TD: 13(SA)-14.7 (CALC)

Comments: DRILL TO 2615m FLOW CHECK. C.R AT 2623.5m. DRILL TO 2705m (8884') FLOW CHECK. DRILL TO 2713m (8900') CIRCULATE FOR 30MIN RUN SURVEY (DEV 2°) DRILL AHEAD. FROM 2715m (8907') INCREASED PUMP RR. AND DECREASED PUMP FLOW INDICATED CENTRAL NOZZLE BLOCKED. NOZZLE UNPLUGGED AT 2721m (8927') SURFACE HP = 1019 HP HP/SQ IN AT BIT = 5.03 LITHOLOGY: SILTSTONE, WITH MINOR SANDSTONE AND CLAYSTONE.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329291

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 26

COMPANY AMOCO AUST. WELL TILANA No1

DATE 5/10/85. TIME 04:00

DEPTH 2788·6m (9149FT) LAST REPORT DEPTH 2717m (8914')

RIG OPERATIONS RIH to TO CUT CORE No2.

REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: CBH2 Type: D.B. CZ502 Size: 8 1/2 Jets: 3x19 EQUIVALENTS

On Bit: Footage: — Hours: — ROP: — WOB: — RPM: —

Pump Press: — SPM: — Torque: — TBR: — CP I:$ — CP B:$ —

HYDRAULICS REPORT (BASED ON PARAMETERS FROM CORE No1.)

Mud Density In: 9·3 Mud Density Out: 9·3+ ECD: 9·4 PV/YP: 24/14

Gels: — Salinity: — PPM Cl Solids: — %

Hole Volume: 1480 Annular Volume: 1233 Tubing Volume: 153 Displaced Volume: 94

Carbide Lag—Calculated Lag: 626 STHS (74BBL) Flowrate: 250 GPM.

Drillpipe Annular Vel (Max. Dia. Sec.): 48 FT/MIN Drillpipe Annular Vel (Open Hole): 49·2 FT/MIN

Drill Collar Annular Vel (Open Hole): 71 FT/MIN Critical Vel: 334 FT/MIN

Pressure Loss System: 325. Pressure Loss Bit: 78 PSI % Pressure Loss: 19

Nozzel Vel: 96·6 FT/SEC Jet Impact Force: 117 LBS HHP: 11·3

PRESSURE PARAMETERS

Drilling Exponent: 1·1 – 1·95 1·6 AVG. Flowline Temperature: 52°C MAX.

Shale Density: — Shale Factor: 2 – 4

Background Gas: 14 (0·02%) Max. Formation Gas: 264 (0·13%) @ 2735m 8973' Trip Gas: — @ —

Other Gas: NIL

Fill: NIL Tight Hole: UP TO 10 HRS BETWEEN 2312m AND 2255m.

Cavings: Est %: MINOR (<10%) Average Size: SMALL BLOCKY.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 3·15 ppg. Min. Estimated Fracture Pressure (Open Hole): 13·ppg

Estimated Pore Pressure: 8·7 Min. Estimated Pore Pressure (Open Hole): 8·7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8·7 @ T.D Estimated Fracture Pressure at TD: 13·2 CS(S)

Comments: DRILLING BREAK AT 2776·5m (9109m) DRILL TO 2783·5m (9132FT) MAX ROP 34·9 M/HR (114 FT/HR). FC AND CIRCULATE RETURNS AT 2783·5m (9132FT). DRILL AHEAD TO 2788·6m (9149') CIRCULATE RETURNS DROP SURVEY AND POOH TO CUT CORE No2. MAKE UP CORE BARREL AND RIH.

SURFACE HP = 59 HP BIT / SQ IN = 0·2

NBH14 - 729FT (222m) IN 40·5 HRS AVG ROP = 18 FT/HR 5·5m/HR

LITHOLOGY CLAYSTONE / SILTSTONE WITH SANDSTONE AND COAL.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329392

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 27

COMPANY Amoco Aust. WELL Tilana No1

DATE 6/10/85 TIME 05:00

DEPTH 2826m, 9272' LAST REPORT DEPTH 2788.6m (9149 FT)

RIG OPERATIONS Drilling 12.25" hole section, Sandstone.

REPORT BY Gary Hodge REPORT RECEIVED BY J. GULLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 16 Type: Smith F2 Size: 12.25" Jets: 14, 14, 14

On Bit: Footage: 18.8m/62 Hours: 2.8 ROP: 6.7m/hr / 22ft/hr WOB: 40-44 RPM: 90

Pump Press: 2950 psi SPM: 124 Torque: 2.6-2.9 TBR: 27,000 CP I: $ 1690 CP B: $ 2430

HYDRAULICS REPORT

Mud Density In: 9.4 ppg Mud Density Out: 9.5 ppg ECD: 9.5ppg PV/YP: 25/18

Gels: 4/16 Salinity: 3,300 PPM Cl Solids: 6 %

Hole Volume: 1424 bbl Annular Volume: 1174 bbl Tubing Volume: 155 bbl Displaced Volume: 95bbl

Carbide Lag—Calculated Lag: 680 strokes at 257m. Flowrate: 615 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 121 ft/min

Drill Collar Annular Vel (Open Hole): 175 " Critical Vel: 387 "

Pressure Loss System: Calc. 3020 psi Pressure Loss Bit: 1610 psi % Pressure Loss: 55%

Nozzel Vel: 438 ft/sec Jet Impact Force: 1311 lbs HHP: 578

PRESSURE PARAMETERS

Drilling Exponent: 1.83 at 2.9 m/hr Flowline Temperature: 51 °C

Shale Density: — Shale Factor: —

Background Gas: 2-3u Max. Formation Gas: 3u @ Trip Gas: 19u @ 2788.6m

Other Gas: Nil; no connection gas;

Fill: — Tight Hole: Nil on trips

Cavings: Est %: Minor, <10% Average Size: Small, mostly blocky

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.4ppg/3.0 ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ — Estimated Fracture Pressure at TD: 13.6 ppg

Comments: Cut Core #2 from 2788.6-2807.3m (9149-9210ft) in 2.1 hours, Recovery 100%. Run in NB#16, ream cored rat-hole in 2.3 hrs; Drill ahead with minor drill-breaks,

Lithology - dominantly sandstone;

Corrected Hole Vol: 1498 bbls / Corrected Annulus Vol: 1249bbls
Surface HHP 1058 / Bit HHP per area 4.9 HP/sq in

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329393

EXLOG (SM) GEMDAS LOGGING REPORT NO. 28

COMPANY Amoco Aust. WELL Tilana No.1

DATE 7 October '85. TIME 0500

DEPTH 9618 ft; 2931.5m LAST REPORT DEPTH 2826m; 9272'

RIG OPERATIONS Drilling 12.25" hole - dominantly claystone

REPORT BY Gary Hodge REPORT RECEIVED BY J. Guillory (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: 16 Type: SMITH F2 Size: 12.25" Jets: 14, 14, 14

On Bit: Footage: 408'/124m Hours: 24.8 ROP: 16.5 ft/hr / 5 m/hr WOB: 40-43 RPM: 90

Pump Press: 2830psi SPM: 123 Torque: 2.5-2.6 TBR: 143,000 CP I: $ 2010 CP B: $ 1250

HYDRAULICS REPORT

Mud Density In: 9.3+ ppg Mud Density Out: 9.4 ppg ECD: 9.5 ppg PV/YP: 24/18

Gels: 5/13 Salinity: 3,000 PPM Cl Solids: 5 %

Hole Volume: 1474 bbl Annular Volume: 1215 bbl Tubing Volume: 161 bbl Displaced Volume: 97 bbl

Carbide Lag—Calculated Lag: 320 strokes at 2871m. Flowrate: 610 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 120 ft/min

Drill Collar Annular Vel (Open Hole): 174 " Critical Vel: 384 "

Pressure Loss System: Calc: 2990 psi Pressure Loss Bit: 1580 psi % Pressure Loss: 56

Nozzel Vel: 434 ft/sec Jet Impact Force: 1288 lbs HHP: 563

PRESSURE PARAMETERS

Drilling Exponent: 1.77 at 3.5 m/hr Flowline Temperature: 55°C; Max 58°C

Shale Density: - Shale Factor: 2

Background Gas: 4u Max. Formation Gas: 27u @ 2909m Trip Gas: Nil @

Other Gas: Nil, no connection gas; gas from coals;

Fill: Nil Tight Hole: Nil

Cavings: Est %: 5-10% Average Size: Small, < 10mm;

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.3 ppg / 3.0 ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ Estimated Fracture Pressure at TD: 15.1 ppg

Comments: Drill ahead - flow check drill breaks at 2831.6m and 2846m - no flow.

Drill in Sandstones, claystones, siltstones, minor coals;

Corrected Hole Volume 1512 bbls / Corrected Annulus 1254 bbls

Surface HHP: 1007 Bit HHP/Area: 4.77 /sq in of bit.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329394

EXLOG GEMDAS LOGGING REPORT NO. 29

COMPANY Amoco Aust. WELL Tilana No.1

DATE 8 October 1985 TIME 0500 Hrs

DEPTH 2990.1m; 9810 ft LAST REPORT DEPTH 9618 ft; 2931.5 m

RIG OPERATIONS Circulating returns from drillbreak.

REPORT BY Gary Hodge REPORT RECEIVED BY J. Guillory (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 15 Type: SMITH F2 Size: 12.25" Jets: 3x14

On Bit: Footage: 183m, 600' Hours: 47.1 ROP: 4.1m/hr; 13.4 WOB: 42-44 RPM: 85-90

Pump Press: 2900 psi SPM: 123 Torque: 2.8-3.8 TBR: 250,000 CP I: $ 342 CP B: $ 1405

HYDRAULICS REPORT

Mud Density In: 9.3 ppg Mud Density Out: 9.3-9.4ppg ECD: 9.4 ppg PV/YP: 26/19

Gels: 5/12 Salinity: 2800 PPM Cl Solids: 6 %

Hole Volume: 1502 bbl Annular Volume: 1239 bbl Tubing Volume: 165 bbl Displaced Volume: 99 bbl

Carbide Lag—Calculated Lag: 320 stks at 2871m. Flowrate: 612 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 120 ft/min

Drill Collar Annular Vel (Open Hole): 174 " Critical Vel: 405 "

Pressure Loss System: Calc: 3030 psi Pressure Loss Bit: 1575 psi % Pressure Loss: 54

Nozzel Vel: 435 ft/sec Jet Impact Force: 1283 lbs HHP: 562

PRESSURE PARAMETERS

Drilling Exponent: 1.84 at 2.9m/hr; 1.36 at 15.2m/hr Flowline Temperature: 58°C

Shale Density: 2.4 Shale Factor: 4-6

Background Gas: 3-4u Max. Formation Gas: 7u @ 2964 Trip Gas: Nil @

Other Gas: Nil, no connection gas;

Fill: - Tight Hole: -

Cavings: Est %: Minor, ≈5% Average Size: Small;

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.3 ppg / 3.0ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ Estimated Fracture Pressure at TD: 14 ppg

Comments: Drill ahead in claystones, siltstones, minor coal and sandstones;
Drill break at 2963m; circulate returns at 2964.2m;
" " " 2988m; " " " 2990m.
Flow checks negative.

Corrected Hole Vol: 1541 bbls / Corrected Annulus Vol: 1278
Surface HHP: 1035 / Bit HHP per area: 4.77 /sq in of bit.

EL P/N 18429 MAY 1980

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329395

EXLOG (SM) GEMDAS LOGGING REPORT NO. 30

COMPANY AMOCO AUST. WELL Tilana No.1

DATE 9 October '85 TIME 0500

DEPTH 3058m / 10033 ft LAST REPORT DEPTH 2990.1m; 9810ft.

RIG OPERATIONS Drilling 12.25" hole section.

REPORT BY Gary Hodge REPORT RECEIVED BY I. Guillory (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 15 Type: Smith F2 Size: 12.25" Jets: 14, 14, 14

On Bit: Footage: 251m/822ft Hours: 65.7 ROP: 4m/hr; 13 ft/hr WOB: 44 klb RPM: 88

Pump Press: 2930 psi SPM: 124 Torque: 3.3-3.7 TBR: 347,000 CP I: $ 1150 CP B: $ 1397

HYDRAULICS REPORT

Mud Density In: 9.3 ppg Mud Density Out: 9.3 ppg ECD: 9.4 ppg PV/YP: 25/22

Gels: 6/12 Salinity: 2500 PPM Cl Solids: 6 %

Hole Volume: 1534 bbl Annular Volume: 1265 bbl Tubing Volume: 169 bbl Displaced Volume: 100 bbl

Carbide Lag—Calculated Lag: 320 strokes at 2871m. Flowrate: 613 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 120 ft/min

Drill Collar Annular Vel (Open Hole): 175 " Critical Vel: 438 "

Pressure Loss System: Calc. 3030 psi Pressure Loss Bit: 1580 psi % Pressure Loss: 54

Nozzel Vel: 436 ft/sec Jet Impact Force: 1287 lbs HHP: 565

PRESSURE PARAMETERS

Drilling Exponent: 1.75 at 4.4 m/hr Flowline Temperature: 59°C; Max. 65°C.

Shale Density: — Shale Factor: —

Background Gas: 5-7u Max. Formation Gas: 24u @ 3039m Trip Gas: — @ —

Other Gas: Nil - no connection gas.

Fill: — Tight Hole: —

Cavings: Est %: Minor Average Size: Small

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.2ppg / 2.9 ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7ppg @ Estimated Fracture Pressure at TD: 13.6 ppg

Comments: Circulate returns at 2990m; no shows. Max. gas 7u;
Flow check at 3002.5m - no flow, max. gas 10u;
" " " 3015m - circulate returns, max. gas ~~24u~~ 11u;
" " " 3039m - " " at 3041m; Max gas 24u;
All flow checks were negative;
Lithology: dominantly fine sand, minor coal, claystone, siltstone.

Corrected Hole Volume: bbls / Corrected Annulus Vol:
Surface HHP HHP/sqin of bit:

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329396

EXLOG (SM) GEMDAS LOGGING REPORT NO. 31

COMPANY Amoco Aust. WELL Tilana No.1

DATE 10 October 1985 TIME 0500 Hrs

DEPTH 3066m - 10059 ft: TD LAST REPORT DEPTH 3058m - 10033 ft

RIG OPERATIONS Running Wireline Logs:

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: 15 Type: Smith F2 Size: 12.25" Jets: 14, 14, 14

On Bit: Footage: 259m / 849 ft Hours: 66.6 Drilling ROP: 3.9m/hr : 12.7 ft/hr WOB: 44 RPM: 87

Pump Press: 2880 SPM: 123 Torque: 3.3-3.7 TBR: 364,000 CP I: $ 2510 CP B: $ 1415

HYDRAULICS REPORT

Mud Density In: 9.3 ppg Mud Density Out: 9.3-9.4 ppg ECD: 9.4 ppg PV/YP: 24/17

Gels: 5/11 Salinity: 2100 PPM Cl Solids: 6 %

Hole Volume: 1538 bbl Annular Volume: 1269 bbl Tubing Volume: 169 bbl Displaced Volume: 101 bbl

Carbide Lag—Calculated Lag: 3205 strokes at 2871m. Flowrate: 612 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 120 ft/min

Drill Collar Annular Vel (Open Hole): 174 " Critical Vel: 375 "

Pressure Loss System: Calc. 3025 psi Pressure Loss Bit: 1575 psi % Pressure Loss: 55

Nozzel Vel: 435 ft/sec Jet Impact Force: 1283 lbs HHP: 562

PRESSURE PARAMETERS

Drilling Exponent: 1.92 at 2.4 m/hr Flowline Temperature: 59°C ; Max 64°C

Shale Density: - Shale Factor: -

Background Gas: 6u Max. Formation Gas: 15u @ 3065m Trip Gas: Nil @ -

Other Gas: Nil - no connection gas;

Fill: -. Tight Hole: Minor on trip out at 3066m.

Cavings: Est %: Minor; 5% Average Size: Small, ~10mm

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.2 / 2.9 ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ Estimated Fracture Pressure at TD: 14.0 ppg

Comments: Drill to 3066m (10059 ft) - total depth for Tilana #1; Circulate returns, drop multi-shot survey - POOH; minor drag to 15klbs;

Run Wireline logs:

Corrected Hole Volume: 1579 bbls / Corrected Annulus: 1309 bbls.
Surface HHP: 1028 / HHP/area of bit: 4.77 /sq in of bit.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329397

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 32

COMPANY AMOCO AUSTRALIA WELL Tiona No.1

DATE 11 October '85 TIME 0500 HRS

DEPTH 3066 m (10059') LAST REPORT DEPTH 3066m (10059')

RIG OPERATIONS Run Wireline Logs at T.D.

REPORT BY Gary Hodge. REPORT RECEIVED BY S. Maxwell SIGNED (OPERATOR)

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: No Drilling Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: 34 @ 3066m

Other Gas: Trip Gas: C_1 1854, C_2 156, C_3 80, iC_4 24, nC_4 28.

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: Run Wireline logs: ISF-DDBHC-MSFL-GR-SP
LDL-CNL-GR
HDT
Wiper trip to run multishot survey - TG 34u;
POOH.
Run Wireline logs: WST
CST

EL P/N 18429 MAY 1980

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329298

EXLOG GEMDAS LOGGING REPORT NO. 33

COMPANY AMOCO AUST. WELL Tilana No.1

DATE 12 October 1985 TIME 0500 HRS

DEPTH 3074m; 10085' LAST REPORT DEPTH 3066m: 10059'

RIG OPERATIONS Drilling 12.25" hole.

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)

DRILLING REPORT

Bit No.: 16 Type: Smith F2 Size: 12.25" Jets: 14, 14, 14

On Bit: Footage: 8 Hours: 1 ROP: Av. 8m/hr WOB: 40-44 RPM: 85-90

Pump Press: 2150 psi SPM: 105 Torque: 3.0-4.2 TBR: 5000 CP I: $ 1250 CP B: $ 3540

HYDRAULICS REPORT

Mud Density In: ppg Mud Density Out: ppg ECD: ppg PV/YP: ~~23~~ 23/20

Gels: 5/12 Salinity: 2200 PPM Cl Solids: 6 %

Hole Volume: 1542 bbl Annular Volume: 1272 bbl Tubing Volume: 101 bbl Displaced Volume: 169 bbl

Carbide Lag—Calculated Lag: 320 stks at 2871m Flowrate: 520 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): ~~154~~ 139 ft/min Drillpipe Annular Vel (Open Hole): 102 ft/min

Drill Collar Annular Vel (Open Hole): 148 " Critical Vel: 410 "

Pressure Loss System: Calc. 2230 psi Pressure Loss Bit: 1135 psi % Pressure Loss: 51

Nozzel Vel: 370 ft/sec Jet Impact Force: 926 ~~345~~ lbs HHP: ~~345~~

PRESSURE PARAMETERS

Drilling Exponent: 1.71 at 4.5 m/hr Flowline Temperature: 45 °C

Shale Density: — Shale Factor: —

Background Gas: Max. Formation Gas: @ Trip Gas: @ 3066m

Other Gas:

Fill: Minor Tight Hole: —

Cavings: Est %: — Average Size: —

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: ppg / ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ Estimated Fracture Pressure at TD: 14 ppg

Comments: Run Wireline Logs; Decided to Drill ahead - BOP stack test; Run in NB # 16;

Flow Check at 3068.5 - negative;

Surf. HHP 652 2.9 / sq in of bit.
Corrected Hole: 1582 bbl / Annulus 1312 bbl

EL P/N 18429 MAY 1980

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329299

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 34

COMPANY AMOCO AUST. WELL Tilana No.1

DATE 13 October 1985. TIME 0600 hrs

DEPTH 3157m ; 10358 ft. LAST REPORT DEPTH 3074m : 10085'

RIG OPERATIONS Drilling 12.25" hole section : Volcanics

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 16 Type: Smith F2 Size: 12.25" Jets: 3x14

On Bit: Footage: 91m/298' Hours: 23.6 ROP: 3.9m/hr : 12.7ft/hr WOB: 41-44 RPM: 85

Pump Press: 2910 psi SPM: 124 Torque: 2.7-3.0 TBR: 124,000 CP I:$ 1600 CP B:$ 1540

HYDRAULICS REPORT

Mud Density In: 9.3 ppg Mud Density Out: 9.4-9.5 ppg ECD: 9.5 ppg PV/YP: 27/21

Gels: 6/11 Salinity: 2200 PPM Cl Solids: 5 %

Hole Volume: 1581 bbl Annular Volume: 1304 bbl Tubing Volume: 174 bbl Displaced Volume: 103 bbl

Carbide Lag—Calculated Lag: 320 stks at 2871m Flowrate: 617 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 121 ft/min

Drill Collar Annular Vel (Open Hole): 176 " Critical Vel: 432 "

Pressure Loss System: Calc: 3145 psi Pressure Loss Bit: 1600 psi % Pressure Loss: 55

Nozzel Vel: 439 ft/sec Jet Impact Force: 1304 lbs HHP: 576

PRESSURE PARAMETERS

Drilling Exponent: 1.78 at 3.3 m/hr Flowline Temperature: 62 °c

Shale Density: - Shale Factor: -

Background Gas: 7-8u Max. Formation Gas: 40u @ 3082m Trip Gas: @

Other Gas: Nil ; gas decreased when volcanics intersected.

Fill: Nil. Tight Hole: Nil

Cavings: Est %: Minor, 5% Average Size: Small, blocky mostly

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.0 ppg / 2.7 ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ Estimated Fracture Pressure at TD: ≈17 ppg

Comments: Flow checks at 3068.5 & 3081m both negative; Intersect volcanics at 3117m.

No overpressure indicators.

Corrected Hole Vol: 1622 bbl Corrected Annulus Vol: 1345 bbl

Surface HHP 1048 : HHP/Area : 4.89 /sq in of bit

EL P/N 18429 MAY 1980

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329400

EXLOG (SM) GEMDAS LOGGING REPORT NO. 35

COMPANY AMOCO AUST. WELL Tilana No.1

DATE 14 October 1985. TIME 0500 HRS

DEPTH 3225m : 10581 LAST REPORT DEPTH 3157m ; 10 358 ft

RIG OPERATIONS Drilling 12.25" hole section - Siltstone & coal.

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell SIGNED (OPERATOR)

DRILLING REPORT

Bit No.: 16 Type: Smith F2 Size: 12.25" Jets: 3+14

On Bit: Footage: 159m : 522' Hours: 43.4 ROP: 3.7m/hr : 12 ft/hr WOB: 42-44 RPM: 87

Pump Press: 2840psi SPM: 124 Torque: 3.0-4.1 TBR: 227,000 CP I: $ 1740 CP B: $ 1500

HYDRAULICS REPORT

Mud Density In: 9.3 ppg Mud Density Out: 9.4 ppg ECD: 9.4 ppg PV/YP: 24/18

Gels: 6/13 Salinity: 2300 PPM Cl Solids: 5 %

Hole Volume: 1614 bbl Annular Volume: 1331 bbl Tubing Volume: 178 bbl Displaced Volume: 104 bbl

Carbide Lag—Calculated Lag: 760 strokes at 3159m. Flowrate: 616 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 121 ft/min

Drill Collar Annular Vel (Open Hole): 175 " Critical Vel: 387 "

Pressure Loss System: Calc: 3105 psi Pressure Loss Bit: 1590 psi % Pressure Loss: 56

Nozzel Vel: 438 ft/sec Jet Impact Force: 1297 lbs HHP: 572

PRESSURE PARAMETERS

Drilling Exponent: 1.84 at 2.3 m/hr Flowline Temperature: 61 C

Shale Density: - Shale Factor: (1.5)

Background Gas: 10-12u Max. Formation Gas: 128u @ 3181m Trip Gas: Nil @

Other Gas: Nil; gas from coals; no connection gas

Fill: Nil Tight Hole: Nil

Cavings: Est %: Minor; Average Size: Small.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.0ppg / 2.7ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ - Estimated Fracture Pressure at TD: 14.2ppg

Comments: Flow checks at 3165, 3176, 3210 & 3221 m all negative;
Returns circulated at 3178m.
Survey at 3216m - 3/4 (10427 ft)

Lag: Actual: 11975 Theoretical: 11275

Corrected Hole Vol: 1697 bbl, Corrected Annulus Vol: 1414 bbl
Surface HHP: 1021 HHP/area of bit: 4.85/sq in of bit.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329401

EXLOG (SM) GEMDAS LOGGING REPORT NO. 36

COMPANY AMOCO AUST. WELL Tilana No.1

DATE 15 October 1985 TIME 0500 Hrs.

DEPTH 3292m : 10801 ft LAST REPORT DEPTH 3225m : 10581 ft

RIG OPERATIONS Drilling 12.25" hole section;

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 16 Type: Smith F2 Size: 12.25" Jets: 14, 14, 14

On Bit: Footage: 226m/741' Hours: 66.2 ROP: 3.4m/hr; 11.2ft/hr WOB: 45 RPM: 88

Pump Press: 2770 psi SPM: 122 Torque: 3.0-4.3 TBR: 348,000 CP I: $ 3295 CP B: $ 1565

HYDRAULICS REPORT

Mud Density In: 9.3 ppg Mud Density Out: 9.4 ppg ECD: 9.5 ppg PV/YP: 21/16

Gels: 5/12 Salinity: 2100 PPM Cl Solids: 5 %

Hole Volume: 1645 bbl Annular Volume: 1357 bbl Tubing Volume: 182 bbl Displaced Volume: 106 bbl

Carbide Lag—Calculated Lag: 760 strokes at 3159m. Flowrate: 605 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 45 ft/min Drillpipe Annular Vel (Open Hole): 119 ft/min

Drill Collar Annular Vel (Open Hole): 172 " Critical Vel: 354 "

Pressure Loss System: Calc 2970 psi Pressure Loss Bit: 1540 psi % Pressure Loss: 56

Nozzel Vel: 430 ft/sec Jet Impact Force: 1253 lbs HHP: 543

PRESSURE PARAMETERS

Drilling Exponent: 1.84 at 3.4 m/hr Flowline Temperature: 52°C; Max: 61°C
2.09 " 1.4 "

Shale Density: Shale Factor: —

Background Gas: 7-10u Max. Formation Gas: 52u @ 3258m Trip Gas: Nil @

Other Gas: Nil - no connection gas.

Fill: Nil Tight Hole: Nil

Cavings: Est %: Minor Average Size: Small

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 11.9 ppg / 2.6 ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ Estimated Fracture Pressure at TD: 14.2 ppg

Comments: Drilling in Volcanics, siltstones, minor coal beds.
No abnormal pressure indicators.

Lag: Actual 12210 stks; Calculated 11495 strokes.

Corrected Hole Vol: 1730 bbl : Corrected Annulus Vol: 1442
Surface HHP: 977 ; 4.61/sq in of bit

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329402

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 37

COMPANY AMOCO AUST. WELL Tilana No.1

DATE 16 October 1985. TIME 0500 Hrs.

DEPTH 3311.7m / 10865' LAST REPORT DEPTH 3292 m : 10801 ft

RIG OPERATIONS Ream at ≈2600m, running in hole with new bit.

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: NB 16 Type: Smith F2 Size: 12.25" Jets: 3×14

On Bit: Footage: 246m/806' Hours: 71.8 ROP: 3.4m/hr : 11.2ft/hr WOB: 45 RPM: 88

Pump Press: 2770psi SPM: 122 Torque: 3.6-4.5 TBR: 378,000 CP I:$ 1512 CP B:$ 1553

HYDRAULICS REPORT

Mud Density In: 9.3 ppg Mud Density Out: 9.3 ppg ECD: 9.4 ppg PV/YP: 20/16

Gels: 5/13 Salinity: 2100 PPM Cl Solids: 5 %

Hole Volume: 1656 bbl Annular Volume: 1366 bbl Tubing Volume: 183 bbl Displaced Volume: 106 bbl

Carbide Lag—Calculated Lag: 760 strokes at 3159m Flowrate: 606 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 46 ft/min Drillpipe Annular Vel (Open Hole): 119 ft/min

Drill Collar Annular Vel (Open Hole): 173 " Critical Vel: 352 "

Pressure Loss System: Calc: 2960 psi Pressure Loss Bit: 1545 psi % Pressure Loss: 56

Nozzel Vel: 431 ft/sec Jet Impact Force: 1258 lbs HHP: 546

PRESSURE PARAMETERS

Drilling Exponent: 1.86 at 3.5 m/hr Flowline Temperature: Max: 59°C

Shale Density: - Shale Factor: -

Background Gas: 3-6u Max. Formation Gas: 8u @ 3297m Trip Gas: - @

Other Gas: Nil - no connection gas.

Fill: - Tight Hole: ≈20klb @ 34 stands out - ≈2340m.

Cavings: Est %: Minor Average Size: Small

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.9 ppg / 2.6 ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ Estimated Fracture Pressure at TD: ≈14.2 ppg

Comments: Pull out of hole at 10865', 3311.7m; Dev. = 0.75 degrees.
Run in NB#17 (Smith F2 - 12.25" - 3×14) - Tight spot at 7546-7596'
2300-2315m - Ream interval. Run in to approx. 2600m -
hole tight - ream - drag > 150 klbs;
Ream section repeatedly at ≈2600m.

Carbide Lag: 12290 stks - @ Calculated Lag: 11570 strokes.
Surface HHP: 979 - 4.63/sq in of bit
Corrected Hole Vol: 1741 bbl - Corrected Annulus - 1451 bbl

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329403

EXLOG GEMDAS LOGGING REPORT NO. 38

COMPANY Amoco Aust. WELL Tilana No.1

DATE 17 Oct '85 TIME 0500 HRS

DEPTH 3311.7m ; 10865' LAST REPORT DEPTH 3311.7m : 10865'

RIG OPERATIONS Reaming hole over interval 2902-2908m.

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 17 Type: Smith F2 Size: 12.25" Jets: 3x14

On Bit: Footage: - Hours: Reaming ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: 9.5ppg Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: 760 strokes at 3159m Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: No hole drilled Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: - @

Other Gas: Gas while reaming: <5u

Fill: Tight Hole: Stuck at 2743m, 2865-2877m, 2902-2908m.

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: Ream sections: 2577-2590m, stuck at 2743m, 2798-2813m, 2836-2859m, 2865-2877m, 2877-2880m, 2902-2908m

Pipe stuck at 2743m, 2865-2877m & 2902-2908m.

Mud density increased to 9.5ppg at 2877m;
Pump hi-vis, hi-wt mud slugs.
Continue reaming hole over interval 2902-2908m:
Lag - Carbide: 12290stk:- Calculated 11570 stks.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329404

EXLOG GEMDAS LOGGING REPORT NO. 39

COMPANY Amoco Aust. WELL Tilana No.1

DATE 18 October 1985 TIME 0500 Hrs

DEPTH 3358.5m / 11019 ft LAST REPORT DEPTH 3311.7m; 10865 ft

RIG OPERATIONS Drilling 12.25" hole section - Volcanics.

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 17 Type: Smith F2 Size: 12.25" Jets: 3x14 (1 blocked)

On Bit: Footage: 46.8m: 154' Hours: 15.7 ROP: 3.0m/hr: 9.8ft/hr WOB: 42-44 RPM: 90

Pump Press: 2900 psi SPM: 95 Torque: 2.9-3.4 TBR: 85,000 CP I:$ 1530 CP B:$ 2155

HYDRAULICS REPORT

Mud Density In: 9.6 ppg Mud Density Out: 9.6 ppg ECD: 9.7 ppg PV/YP: 31/27

Gels: 8/24 Salinity: 2100 PPM Cl Solids: 8 %

Hole Volume: 1678 bbl Annular Volume: 1384 bbl Tubing Volume: 186 bbl Displaced Volume: 108 bbl

Carbide Lag—Calculated Lag: 1300 stks at 3323m Flowrate: 470 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 35 ft/min Drillpipe Annular Vel (Open Hole): 92 ft/min

Drill Collar Annular Vel (Open Hole): 134 " Critical Vel: 497 "

Pressure Loss System: Calc. 3265 psi Pressure Loss Bit: 2155 psi % Pressure Loss: 74

Nozzel Vel: 501 ft/sec Jet Impact Force: 1170 lbs HHP: 591

PRESSURE PARAMETERS

Drilling Exponent: 1.69 at 3.7 m/hr Flowline Temperature: 55 °C; Max 65°C

Shale Density: - Shale Factor: -

Background Gas: 2-3u Max. Formation Gas: 3.5u @ 3315m Trip Gas: 40u @ 3311.7m

Other Gas: Gas at 3351m: 5.5mu - gas from reaming.

Fill: Ream 3288-3311.7m Tight Hole: To 90 klb on wiper trip - ream tight spots.

Cavings: Est %: Minor Average Size: Small

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.1 ppg / 2.5 ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ Estimated Fracture Pressure at TD: 15 ppg

Comments: Ream interval 2895-2914m, run in to 3288m, ream 3288-3311.7m - drill ahead. Wiper trip at 3352m - drag to 90 klb on stand 29 (approx: ~~2870-2900m~~ 2530-2500m). Ream tight spot. Run in, ream section at approx. 2870-2900m - drag to 90 klb. Run to bottom - drill ahead, one jet blocked -

Calc. Annulus: 11720 stks // Carbide Lag: 13040 stks.
Corrected Hole Vol: 1833 bbl - Corrected Annulus Vol: 1540 bbl
HHP at surface 795 - 5.01/sq in of bit

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329405

EXLOG (SM) GEMDAS LOGGING REPORT NO. 40

COMPANY Amoco Aust. WELL Tilana No.1

DATE 19 October 1985 TIME 0500 Hrs

DEPTH 3449m : 11316' LAST REPORT DEPTH 3358.5m : 11019 ft

RIG OPERATIONS Drilling 12.25" hole section - Volcanics.

REPORT BY Gary Hodge. REPORT RECEIVED BY S. Maxwell (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: 17 Type: Smith F2 Size: 12.25" Jets: 3x14; One blocked

On Bit: Footage: 137m/449ft Hours: 37.7 ROP: 3.6m/hr : 11.9ft/hr WOB: 43-46 RPM: 90

Pump Press: 3010psi SPM: 95 Torque: 3.2-4.5 TBR: 204,000 CP I: $ 3855 CP B: $ 1543

HYDRAULICS REPORT

Mud Density In: 9.6 ppg Mud Density Out: 9.7 ppg ECD: 9.7 ppg PV/YP: 28/23

Gels: 6/17 Salinity: 2100 PPM Cl Solids: 7.5 %

Hole Volume: 1721 bbl Annular Volume: 1420 bbl Tubing Volume: 191 bbl Displaced Volume: 110 bbl

Carbide Lag—Calculated Lag: 1300 stks at 3323m Flowrate: 473 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 36 ft/min Drillpipe Annular Vel (Open Hole): 93 ft/min

Drill Collar Annular Vel (Open Hole): 135 " Critical Vel: 447 "

Pressure Loss System: Calc. 3295 psi Pressure Loss Bit: 2185 psi % Pressure Loss: 73.

Nozzel Vel: 505 ft/sec Jet Impact Force: 1186 lbs HHP: 603

PRESSURE PARAMETERS

Drilling Exponent: 2.08 at 1.6 m/hr Flowline Temperature: 59°C : Max: 61°C

Shale Density: - Shale Factor: -

Background Gas: 3u Max. Formation Gas: 5.5u @ 3366m Trip Gas: Nil @

Other Gas: Wiper Trip at 3352m - TG 2u. No connection gas.

Fill: Nil at 3352m Tight Hole: Nil

Cavings: Est %: 5% Average Size: <10 mm

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 12.0ppg / 2.4ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @

Max. Estimated Pore Pressure (Open Hole): 8.7 ppg @ Estimated Fracture Pressure at TD: ± 15ppg

Comments: Drilling with one blocked jet. High torque at 3374m and from 3440.5m; Flow check at 3426m was negative.
ROP slowed below 3440m;
Drilling in Volcanics

Carbide Lag: 13375 stks - Calculated Lag: 12025 stks
Corrected Hole Volume: 1881 bbls - Corrected Annulus Vol: 1580 bbls
Surface HHP: 831 - 5.11 /sq in of bit

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329406

EXLOG (SM) GEMDAS LOGGING REPORT NO. 41

COMPANY AMOCO AUST WELL Tilana No.1

DATE 20 October 1985 TIME 0500 Hrs

DEPTH 3463m5m (11363') LAST REPORT DEPTH 3449m: 11316 ft

RIG OPERATIONS DRILL 12¼" HOLE THROUGH BASALT (VOLCANICS)

REPORT BY D. NEW REPORT RECEIVED BY S. Maxwell (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: NB#18 Type: SMITH F3 Size: 12¼" Jets: 3x14

On Bit: Footage: 7m (23') Hours: 2.2 HRS ROP: 3.2m/HR (10.4ft/HR) WOB: 45-50 RPM: 90

Pump Press: 2980 SPM: 117 Torque: 3-7.8 TBR: 12100 CP I:$ 2700 CP B:$ 4690

HYDRAULICS REPORT

Mud Density In: 9.5+ Mud Density Out: 9.6 ECD: 9.7 PV/YP: 30/28

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1728BBL Annular Volume: 1426BBL Tubing Volume: 192BBL Displaced Volume: 110BBL

Carbide Lag—Calculated Lag: 160BBL 1357STKS Flowrate: 595 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 44.7FT/MIN Drillpipe Annular Vel (Open Hole): 116.6FT/MIN

Drill Collar Annular Vel (Open Hole): 169.5FT/MIN Critical Vel: 507.9FT/MIN

Pressure Loss System: 1457psi Pressure Loss Bit: 1523psi % Pressure Loss: 51%

Nozzel Vel: 423.3FT/SEC Jet Impact Force: 1241 LBS HHP: 528.7HP

PRESSURE PARAMETERS

Drilling Exponent: 1.64-1.93 AVG 1.85. Flowline Temperature: 57°C

Shale Density: — Shale Factor: —

Background Gas: 1-2u Max. Formation Gas: — @ — Trip Gas: 14u (0.28%) @ 3456.5m

Other Gas: NIL

Fill: NIL Tight Hole: UP TO 20KLBS DRAG ON TRIP OUT, NONE ON TRIP IN.

Cavings: Est %: MINOR Average Size: SMALL, BLOCKY

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.45 ppg Min. Estimated Fracture Pressure (Open Hole): 13 ppg

Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7ppg @ AT SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7ppg @ T.D Estimated Fracture Pressure at TD: 15ppg

Comments: DRILL TO 3456.4m (11340') CIRCULATE BOTTOMS UP DROP SURVEY AND POOH. TEST STACK. RIH WITH NB#18, SMITH F3 AND DRILL AHEAD.

NOTE: JUNK SUB SAMPLES INDICATE THAT THE BASALT IS FRACTURED AND MAY CAUSE HOLE PROBLEMS.

SURFACE HP = 1034.5 @ HP SQ/IN AT BIT = 4.49.

CORRECTED HOLE VOLUME = 1889BBL 15993 STKS

CORRECTED ANULAR VOLUME = 1586 BBL 13434 STKS.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329407

EXLOG (SM) GEMDAS LOGGING REPORT NO. 42

COMPANY AMOCO AUST WELL TILANA No1

DATE 21/10/85 TIME 05:00

DEPTH 3538m (11607') LAST REPORT DEPTH 3463.5m (11363')

RIG OPERATIONS DRILL 12¼" HOLE THROUGH VOLCANICS AND BASALT

REPORT BY D. NEW REPORT RECEIVED BY S. MAXWELL (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: NB#18 Type: SMITH F3 Size: 12¼" Jets: 3x14

On Bit: Footage: 81m/267' Hours: 20.4 ROP: 3.9m/HR 13.1FT/HR WOB: 45-47 RPM: 90

Pump Press: 3000 SPM: 117 Torque: 3.1-7.8 TBR: 104150 CP I: $ 2100 CP B: $ 1554

HYDRAULICS REPORT

Mud Density In: 9.6 Mud Density Out: 9.6+ ECD: 9.8 PV/YP: 30/28

Gels: ____ Salinity: ____ PPM Cl Solids: ____ %

Hole Volume: ~~1763 BBL~~ Annular Volume: 1454 BBL Tubing Volume: 196 BBL Displaced Volume: 112 BBL

Carbide Lag—Calculated Lag: 1384 STKS 164 BBL Flowrate: 595 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 447 FT/MIN Drillpipe Annular Vel (Open Hole): 116.6 FT/MIN

Drill Collar Annular Vel (Open Hole): 169.5 FT/MIN Critical Vel: 503.7 FT/MIN.

Pressure Loss System: 1649 PSI Pressure Loss Bit: 1541 PSI % Pressure Loss: 51%

Nozzel Vel: 423 FT/SEC Jet Impact Force: 1255.8 LBS HHP: 535 HP.

PRESSURE PARAMETERS

Drilling Exponent: 1.4 - 2.1 AVG ~1.85 Flowline Temperature: 69°F

Shale Density: ____ Shale Factor: —

Background Gas: 2-4u (0.04-0.08%) Max. Formation Gas: 56u (1.12%) @ 3474m (11398') Trip Gas: — @ —

Other Gas: NIL.

Fill: NIL Tight Hole: FRACTURED (WEATHERD?) BASALT CAUSING HIGH TORQUE.

Cavings: Est %: MINOR (<5%) Average Size: OCCASIONALY UP TO 2cm AND SPLINTERY.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.30 ppg. Min. Estimated Fracture Pressure (Open Hole): 13ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 8.7ppg @ T.D Estimated Fracture Pressure at TD: 15ppg.

Comments: DRILL 12¼" HOLE. FRACTURED (?) BASALT OCCASIONALY CAUSEING HIGH TORQUE.

SURFACE HP = 1041.4

HP SQ IN = 4.54

LITHOLOGY: VOLCANICS (BASALT) WITH OCCASIONAL MINOR SILTSTONE/COAL "INTERBEDS".

CORRECTED HOLE VOL: 1926 BBL CORRECTED ANNULAR VOL: 1618 BBL

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329408

EXLOG (SM) GEMDAS LOGGING REPORT NO. 43

COMPANY AMOCO AUST. WELL TILANA No1

DATE 22/10/85 TIME 05:00

DEPTH 3605.5m (11829') LAST REPORT DEPTH 3538m (11607')

RIG OPERATIONS DRILL 12¼" HOLE THROUGH VOLCANICS

REPORT BY D. NEW. REPORT RECEIVED BY S. MAXWELL SIGNED (OPERATOR)

DRILLING REPORT

Bit No.: NB#18 Type: SMITH F3 Size: 12¼ Jets: 3x14

On Bit: Footage: 149m (489') Hours: 41.8 ROP: 3.6M/HR 11.7FT/HR WOB: 45 RPM: 80-90

Pump Press: 3010 SPM: 120 Torque: 3.5-7.5 TBR: 215300 CP I: $ 1250 CP B: $ 1561

HYDRAULICS REPORT

Mud Density In: 9.6 Mud Density Out: 9.6+ ECD: 9.74 PV/YP: 20/23

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1796BBL Annular Volume: 1482BBL Tubing Volume: 200BBL Displaced Volume: 113BBL

Carbide Lag—Calculated Lag: 167BBL (1411STKS) Flowrate: 606 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 45.5 FT/MIN Drillpipe Annular Vel (Open Hole): 118.9 FT/MIN

Drill Collar Annular Vel (Open Hole): 172.7 FT/MIN Critical Vel: 429 FT/MIN

ressure Loss System: 1414PSI Pressure Loss Bit: 1596PSI % Pressure Loss: 53%

Nozzel Vel: 431.5 FT/SEC Jet Impact Force: 1300 LBS HHP: 564.6 HP

PRESSURE PARAMETERS

Drilling Exponent: 1.4-2.1 AVG 1.8 Flowline Temperature: 71.5° C (MAX)

Shale Density: Shale Factor:

Background Gas: 25u (0.5%) Max. Formation Gas: 160 (2.3%) @ 3553m Trip Gas: — @ —

Other Gas: CONNECTION GAS AT 3542m (16u), 3551m (18u), 3561m (44u) AND 3571m (30u)

Fill: NIL Tight Hole: NIL

Cavings: Est %: UP TO 80% COAL Average Size: BLOCKY-PLATY < 1cm SQ.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.3 ppg Min. Estimated Fracture Pressure (Open Hole): 13ppg.

Estimated Pore Pressure: 8.7 AT 3600m Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE.

Max. Estimated Pore Pressure (Open Hole): 9.4ppg @ 3570m Estimated Fracture Pressure at TD: 15ppg.

Comments: DRILL 12¼" HOLE WITH NB#18, OCCASIONAL HIGH TORQUE. AT 3530m GET INCREASED GAS AND ROP DUE TO COALS. ESTIMATED PORE PRESSURE INCREASED TO 9.3-9.4ppg EMW BETWEEN 3530m AND 3572m. THEN RETURNED TO NORMAL.

SURFACE HP = 1064 HP/SQ IN AT BIT = 4.79.

LITHOLOGY: VOLCANICS WITH INTERBEDDED COALS SILTSTONE AND SANDSTONE.

CORRECTED ANNULUS = 1649BBL (13961STKS); CORRECTED HOLE = 1963BBL

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329409

EXLOG (SM) GEMDAS LOGGING REPORT NO. 44

COMPANY AMOCO AUST. WELL TILANA No 1

DATE 23/10/85 TIME

DEPTH 3684m (12087') LAST REPORT DEPTH 3605.5m (11829')

RIG OPERATIONS DRILL 12¼" HOLE THROUGH DOLORITE.

REPORT BY D. NEW REPORT RECEIVED BY S. MAXWELL (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: NB#18 Type: SMITH F3 Size: ~~8½~~ 12¼" Jets: 3x14

On Bit: Footage: 747'(228m) Hours: 61.9 HRS ROP: 3.7m/HR 12.1FT/HR WOB: 40-47 RPM: 80-95

Pump Press: 300 SPM: 117 Torque: 3-7.8 TBR: 318622 CP I: $1250 CP B: $1463

HYDRAULICS REPORT

Mud Density In: 9.8 Mud Density Out: 9.9 ECD: 9.94 PV/YP: 24/22

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1834 Annular Volume: 1513 BBL Tubing Volume: 205 BBL Displaced Volume: 115 BBL

Carbide Lag—Calculated Lag: 918 STKS (1109 BBL) Flowrate: 595 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 44.7 FT/MIN Drillpipe Annular Vel (Open Hole): 116.6 FT/

Drill Collar Annular Vel (Open Hole): 169.5 FT/MIN Critical Vel: 419.6 FT/MIN

Pressure Loss System: 1432 Pressure Loss Bit: 1568 psi % Pressure Loss: 52%

Nozzel Vel: 423.3 FT/SEC Jet Impact Force: 1277.5 LBS HHP: 544 HP

PRESSURE PARAMETERS

Drilling Exponent: 1.5 - 2.1 AVG 1.75 Flowline Temperature: MAX 71 NOW 65.0°C.

Shale Density: — Shale Factor: —

Background Gas: 10 → 44 (0.2-0.08%) Max. Formation Gas: 17u (0.34%) @ 3612m Trip Gas: — @ —

Other Gas: NIL

Fill: 1m ON CONNECTION AT 3618m Tight Hole: UP TO 80KLBS DRAG AND HIGH TORQUE ON CONNECTIONS AT 3618m, 3665m AND 3675m.

Cavings: Est %: <10% Average Size: BLOCKY, SMALL.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.2 ppg Min. Estimated Fracture Pressure (Open Hole): @ 13 ppg EMW

Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 9.4 ppg @ 3670m Estimated Fracture Pressure at TD: 15.2 ppg

Comments: DRILL AHEAD. TIGHT ~~SPOT~~ HOLE ON CONNECTION AT 3617.9m WITH UP TO 80KLBS DRAG. 1m FILL WHEN GET BACK TO BOTTOM. FURTHER TIGHT HOLE ON CONNECTION AT 3665m WITH UP TO 80KLBS DRAG AND HIGH TORQUE, PUMP HIGH VIS PILL WITH NO GREAT INCREASE IN CUTTINGS ON BOTTOMS UP. MINOR TIGHT HOLE ON CONNECTIONS AT 3674m. HOLE PROBLEMS APPEAR TO BE DUE TO FRACTURED VOLCANICS CAVING.
LITHOLOGY: VOLCANICS (DOLERITE BELOW 3651m)
SURFACE HP = 1041 HP HP/SQ IN AT BIT = 4.62 HP

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329410

EXLOG (SM) GEMDAS LOGGING REPORT NO. 45

COMPANY AMOCO AUST WELL TILAMA No1

DATE 24/10/85. TIME 05:00

DEPTH 3707m (12162') LAST REPORT DEPTH 3684m (12087')

RIG OPERATIONS DRILL 12¼" HOLE THROUGH VOLCANICS

REPORT BY D. NEW REPORT RECEIVED BY S. MAXWELL (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: NB#19 Type: SMITH F2 Size: 12¼" Jets: 3x14

On Bit: Footage: 42 Hours: 4.9 ROP: 8.6FT/HR 2.6m/HR WOB: 40-45 RPM: 85-90

Pump Press: 3020 SPM: 121 Torque: 4-7 TBR: 25000 CP I:$ 2050 CP B:$ 4600

HYDRAULICS REPORT

Mud Density In: 9.85 Mud Density Out: 9.9 ECD: 10.0 PV/YP: 23/24

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1844 BBL Annular Volume: 1522 BBL Tubing Volume: 206 BBL Displaced Volume: 116 BBL

Carbide Lag—Calculated Lag: 109 BBL (923 STKS) Flowrate: 600 gpm.

Drillpipe Annular Vel (Max. Dia. Sec.): 45.1 FT/min Drillpipe Annular Vel (Open Hole): 117.8 FT/min

Drill Collar Annular Vel (Open Hole): 171.1 FT/min Critical Vel: 448.

Pressure Loss System: 1411 Pressure Loss Bit: 1609 psi % Pressure Loss: 53%

Nozzel Vel: 427.5 FT/SEC Jet Impact Force: 1311.5 LBS HHP: 564 HP.

PRESSURE PARAMETERS

Drilling Exponent: 1.5-1.9 1.8 AVG. Flowline Temperature: 62 MAX AFTER TRIP.

Shale Density: — Shale Factor: —

Background Gas: 4-5u (0.08-0.1%) Max. Formation Gas: 6u (0.12%) @ 3689m Trip Gas: 65u (1.3%) @ 3694.3 (12120')

Other Gas: NIL

Fill: NONE Tight Hole: NONE ON TRIP

Cavings: Est %: MINOR (<10%) Average Size: SMALL, BLOCKY

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.2ppg. Min. Estimated Fracture Pressure (Open Hole): 13 ppg EMW

Estimated Pore Pressure: 8.7 ppg EMW Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 9.4 ppg @ 3670m Estimated Fracture Pressure at TD: 15.2ppg

Comments: DRILL 12¼" HOLE TO 3694.3m (12120') CIRCULATE BOTTOMS UP DROP SURVEY (DEV = 1.¼ DEG.) POOH - NO HOLE PROBLEMS RIH WITH NB#19. CUT AND SLIP LINE AT SHOE RIH REAM/WASH 66' TO BOTTOM DRILL AHEAD.
SURFACE HP = 1058.9 HP HP SQ AT BIT = 4.79.
NB#18 DRILLED 780' (237.7m) IN 64.3 HRS ON BOTTOM AT AN AVERAGE ROP OF 12.1 FT/HR (3.7m/HR)
CORRECTED ANNULAR ~~HOLE~~ VOL: 1631 BBL (13808 STKS)
" HOLE " 1953 BBL (16536 STKS).

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329411

EXLOG (SM) GEMDAS LOGGING REPORT NO. 46

COMPANY AMOCO AUST. WELL TILANA No1

DATE 25/10/85 TIME 05:00

DEPTH 3746.6m (12292') LAST REPORT DEPTH 3707m (12162')

RIG OPERATIONS RUNNING IN HOLE WITH NO CORE BIT TO CUT CORE No3

REPORT BY D. NEW REPORT RECEIVED BY S. MAXWELL (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: RR3#8 Type: D.B CD502 Size: 8½" Jets: 1" TFA. (3x21 EQUIV)

On Bit: Footage: — Hours: — ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: 9.8 Mud Density Out: 9.9+ ECD: 10.0 PV/YP: ~~16/23~~ 19/16

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1747 BBL Annular Volume: 1538 BBL Tubing Volume: 209 BBL Displaced Volume: 117 BBL

Carbide Lag—Calculated Lag: 111 BBL (9745 STKS) Flowrate: 220 GPM

Drillpipe Annular Vel (Max. Dia. Sec.): 16.5 FT/MIN Drillpipe Annular Vel (Open Hole): 43 FT/MIN

Drill Collar Annular Vel (Open Hole): 62.7 FT/MIN Critical Vel: 432 FT/MIN.

Pressure Loss System: 338 Pressure Loss Bit: 43 psi % Pressure Loss: 11

Nozzel Vel: 69.6 FT/SEC Jet Impact Force: 78.4 LBS HHP: 5.5

PRESSURE PARAMETERS

Drilling Exponent: 1.4 - 1.8 AUG 1.75 Flowline Temperature: 57.5°C.

Shale Density: Shale Factor:

Background Gas: 5u (0.1%) Max. Formation Gas: 10u (0.2%) @ 3747m Trip Gas: — @ —

Other Gas: NIL

Fill: NIL Tight Hole: NONE ON TRIP ~~OUT~~ OUT.

Cavings: Est %: UP TO 30% Average Size: SMALL BLOCKY.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2.0 ppg EMW Min. Estimated Fracture Pressure (Open Hole): 13 ppg

Estimated Pore Pressure: 8.7 Min. Estimated Pore Pressure (Open Hole): 8.7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 9.4 @ 3570m Estimated Fracture Pressure at TD: 13.5(S/S)

Comments: DRILL TO 3742m ROP INCREASES TO 8.8m/HR (29FT/HR) DRILL TO 3744m - NEGATIVE FLOW CHECK. DRILL TO 3746.6m ROP STILL 7.8m/HR (25FT/HR) CIRCULATE BOTTOMS UP SAMPLE SANDSTONE, MAX GAS 10u (0.2%) POOH TO CUT CORE No3. NO TIGHT HOLE ON TRIP OUT.

LITHOLOGIE AT T.D. = SANDSTONE.

SURFACE HP = 53.9 HP AT BIT/SQ IN = 0.1

CORRECTED HOLE VOLUME = 1974 BBL CORRECTED ANN. VOL = 1649 BBL

NB3#19 52m (171') IN 14.6 HRS AT 3.6m/HR 11.7 FT/HR.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329412

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 47

COMPANY AMOCO AUST. WELL TILANA No1

DATE 26/10/85 TIME 05:00

DEPTH 3752 (12310') LAST REPORT DEPTH 3746·6m (12292')

RIG OPERATIONS REAM RAT HOLE.

REPORT BY D. NEW REPORT RECEIVED BY S. MAXWELL (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: NB#20 Type: SMITH F2 Size: 12¼" Jets: 3x14

On Bit: Footage: 18 (5·5m) Hours: 4·9 HRS ROP: 3·7 FT/HR (1·1m/HR) WOB: 10-30 RPM: 60-120
(CORE BIT)

Pump Press: 700 SPM: 50 Torque: 3-5·8 TBR: 29,700 CP I: $ CP B: $

HYDRAULICS REPORT NB#20

Mud Density In: 9·9 Mud Density Out: 9·9+ ECD: 10·1 PV/YP: 26/32.

Gels: Salinity: PPM Cl Solids: %

Hole Volume: 1866 BBL Annular Volume: 1540 BBL Tubing Volume: 209 BBL Displaced Volume: 117 BBL

Carbide Lag—Calculated Lag: 935 STKS. 111 BBL Flowrate: 595 GPM.

Drillpipe Annular Vel (Max. Dia. Sec.): 45 FT/MIN Drillpipe Annular Vel (Open Hole): 117 FT/MIN

Drill Collar Annular Vel (Open Hole): 169 FT/MIN. Critical Vel: 524 FT/MIN

Pressure Loss System: 1436 Pressure Loss Bit: 1584 % Pressure Loss: 52

Nozzel Vel: 423 FT/SEC Jet Impact Force: 1290 LBS HHP: 550 HP

PRESSURE PARAMETERS

Drilling Exponent: CORING - NO VALID DXC'S Flowline Temperature: 46·1°C.

Shale Density: Shale Factor:

Background Gas: 2-3 (0·04-0·06) Max. Formation Gas: — @ — Trip Gas: 24u @ 3746m (12292')

Other Gas: NIL

Fill: NIL Tight Hole: NONE ON TRIP.

Cavings: Est %: <20% Average Size: SMALL BLOCKY.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 2·0 ppg Min. Estimated Fracture Pressure (Open Hole): 13 ppg.

Estimated Pore Pressure: 8·7 Min. Estimated Pore Pressure (Open Hole): 8·7 @ SHOE

Max. Estimated Pore Pressure (Open Hole): 9·4 @ 3570m Estimated Fracture Pressure at TD: 16 ppg

Comments: CUT CORE No3 FROM 3746·6m (12292') TO 3752m (12310') 100% RECOVERY. ~~RIH~~ TEST STACK. RIH WITH NB#20. REAM RAT HOLE.

CORE No 3: LITHOLOGY, BASALT.

SURFACE HP = 1048·3 HP. HP/IN² = 4·66.

CORRECTED HOLE VOLUME = 1976 BBL (167365 STKS)

" ANNULAR " = 1651 BBL (13977 STKS)

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329413

EXLOG GEMDAS LOGGING REPORT NO. 48

COMPANY AMOCO AUST WELL TILANA No1

DATE 27/10/85. TIME 05:00

DEPTH 3841m: 12602 ft. LAST REPORT DEPTH 3752m; 12310 ft.

RIG OPERATIONS Drilling 12.25" hole section: Volcanics

REPORT BY ~~D. NEW~~ G. Hodge REPORT RECEIVED BY S. MAXWELL. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 20 Type: Smith F2 Size: 12.25" Jets: 3x14

On Bit: Footage: 89m: 292' Hours: 20.1 ROP: 4.4m/hr: 14.5ft/hr WOB: 44 RPM: 90

Pump Press: 2980 psi SPM: 120 Torque: 4.7-5.5 TBR: 108,000 CP I: $ 2060 CP B: $ 1365

HYDRAULICS REPORT

Mud Density In: 9.9 ppg Mud Density Out: 9.9 ppg ECD: 10.0 ppg PV/YP: 20/19

Gels: 3/10 Salinity: 2300 PPM Cl Solids: 9 %

Hole Volume: 1908 bbl Annular Volume: 1575 bbl Tubing Volume: 214 bbl Displaced Volume: 119 bbl

Carbide Lag—Calculated Lag: 900 strokes at 3617m Flowrate: 596 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 45 ft/min Drillpipe Annular Vel (Open Hole): 117 ft/min

Drill Collar Annular Vel (Open Hole): 170 " Critical Vel: 374 "

Pressure Loss System: Calc 3175 psi Pressure Loss Bit: 1590 psi % Pressure Loss: 53

Nozzel Vel: 424 ft/sec Jet Impact Force: 1295 lbs HHP: 553

PRESSURE PARAMETERS

Drilling Exponent: 1.70 at 3.5 m/hr Flowline Temperature: 53°C; Max 64°C

Shale Density: — Shale Factor: —

Background Gas: 5-6u Max. Formation Gas: 11.5u @ 3783m Trip Gas: Nil @ -

Other Gas: No Connection gas.

Fill: Nil. Tight Hole: On connection at 3807m; 80-100 klb.

Cavings: Est %: Minor, ~10% Average Size: Small, blocky.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 11.9 ppg / 2.0 ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @

Max. Estimated Pore Pressure (Open Hole): 9.4 ppg @ 3570m Estimated Fracture Pressure at TD: 16.1 ppg

Comments: Drill ahead - small drill breaks
Tight hole on connection at 3807m; 80-100 klbs overpull

Lag: 14300 stks Theoretical Lag: 13340 stks
Surface HHP 1036 HHP/sq in 4.69
Corrected Hole: 2021 bbl: Corrected Annulus: 1688 bbls

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329414

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 49

COMPANY AMOCO AUST WELL Tilana No.1

DATE 28 October 1985 TIME 0500 Hrs

DEPTH 3900.3m : 12796 ft LAST REPORT DEPTH 3841m : 12602 ft

RIG OPERATIONS Wiper trip at Total depth.

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: 20 Type: Smith F2 Size: 12.25" Jets: 14, 14, 14

On Bit: Footage: 1483m/487' Hours: 40.1 ROP: 3.7m/hr : 12.1ft/hr WOB: 44-46 RPM: 87-94

Pump Press: 2900psi SPM: 121 Torque: 4.5-5.0 TBR: 216,000 CP I: $ 1745 CP B: $ 1483

HYDRAULICS REPORT

Mud Density In: 9.7 ppg Mud Density Out: 9.8 ppg ECD: 9.8 ppg PV/YP: 19/16

Gels: 4/12 Salinity: 2100 PPM Cl Solids: 8.5 %

Hole Volume: 1937 bbl Annular Volume: 1599 bbl Tubing Volume: 218 bbl Displaced Volume: 120 bbl

Carbide Lag—Calculated Lag: 900 stks at 3617m Flowrate: 600 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 45 ft/min Drillpipe Annular Vel (Open Hole): 118 ft/min

Drill Collar Annular Vel (Open Hole): 171 " Critical Vel: 339 "

Pressure Loss System: Calc: 3165 psi Pressure Loss Bit: 1580 psi % Pressure Loss: 54

Nozzel Vel: 427 ft/sec Jet Impact Force: 1286 lbs HHP: 553

PRESSURE PARAMETERS

Drilling Exponent: 1.81 at 3.3m/hr Flowline Temperature: 61°C : Max 69°C

Shale Density: - Shale Factor: -

Background Gas: 6-7 u Max. Formation Gas: 26u @ 3856m Trip Gas: - @ -

Other Gas: Nil - no connection gas.

Fill: Nil Tight Hole: To 60 klbs while circulating, returns at TD.

Cavings: Est %: Minor, <10% Average Size: Small, blocky

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 11.8 ppg / 2.1 ppg Min. Estimated Fracture Pressure (Open Hole): 13.0 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ -

Max. Estimated Pore Pressure (Open Hole): 9.4 ppg @ Estimated Fracture Pressure at TD: 16-16.5 ppg

Comments: Drill to 12796 ft - 3900.3m - circulate Bottoms up; Drag to 60 klbs while circulating. Wiper trip - no drag. Total Depth for Tilana No.1.

Corrected Hole Vol: 2052 bbls - Corrected Annulus Vol: 1714 bbls
Annulus - Carbide : 14515 stks - Calculated 13540 stks
Surface HHP : 1015 Bit HHP/Area = 4.69/sq in of bit

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329415

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 50

COMPANY Amoco Aust. WELL Tilana No.1

DATE 29 October 1985 TIME 0500 Hrs

DEPTH 3900.3m; 12796 ft LAST REPORT DEPTH 3900.3m: 12796 ft TD.

RIG OPERATIONS Running Wire line Logs.

REPORT BY Gary Hodge. REPORT RECEIVED BY S. Maxwell (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: _____ Type: _____ Size: _____ Jets: _____

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: _____ Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: No drilling Flowline Temperature: _____

Shale Density: _____ Shale Factor: _____

Background Gas: – Max. Formation Gas: – @ _____ Trip Gas: Nil @ 3900m

Other Gas: No connection gases

Fill: 4.5m./15 ft Tight Hole: To 100 klbs while circulating.

Cavings: Est %: _____ Average Size: _____

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: _____ Min. Estimated Fracture Pressure (Open Hole): _____

Estimated Pore Pressure: _____ Min. Estimated Pore Pressure (Open Hole): _____ @ _____

Max. Estimated Pore Pressure (Open Hole): _____ @ _____ Estimated Fracture Pressure at TD: _____

Comments: Drill to 3900.3m; 12796m - TD for Tilana No.1.
Drag to 100 klbs while circulating - Wiper trip to 3617m, minor drag only (10-15 klbs) Ream 3895.6 - 3900.3m - 4.5m fill. Spot 30 bbls Hi-vis mud & circulate out. Circulate to condition hole - increase mud density to 9.9 ppg.
POOH - drag to 60 klbs at one spot.

Run Wire line Logs.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329416

EXLOG (SM) GEMDAS LOGGING REPORT NO. 51

COMPANY AMOCO AUST. WELL Tilana No.1

DATE 1 Nov. 1985 (30-31 Oct) TIME 0500 Hrs

DEPTH 3900.3m - 12796 ft LAST REPORT DEPTH 3900.3m / 12796'

RIG OPERATIONS Reaming and circulating near 3900m.

REPORT BY _____ REPORT RECEIVED BY S. Maxwell (OPERATOR)

DRILLING REPORT

Bit No.: 21 Type: Smith SVH Size: 12.25" Jets: 15, 15, 15

On Bit: Footage: - Hours: - ROP: - WOB: - RPM: 100-110

Pump Press: 2200 psi SPM: 104 Torque: To 7.5 TBR: - CP I:$ - CP B:$ -

HYDRAULICS REPORT

Mud Density In: 10.0 ppg Mud Density Out: 10.2 ppg ECD: 10.1-10.2 PV/YP: 23/13

Gels: 3/14 Salinity: 2100 PPM Cl Solids: 8.4 %

Hole Volume: 1937 bbl Annular Volume: 1604 bbl Tubing Volume: 218 bbl Displaced Volume: 115 bbl

Carbide Lag—Calculated Lag: ± 900 stks. Flowrate: 515 gpm

Drillpipe Annular Vel (Max. Dia. Sec.): 39 ft/min Drillpipe Annular Vel (Open Hole): 101 ft/min

Drill Collar Annular Vel (Open Hole): 147 " Critical Vel: 301 "

Pressure Loss System: Calc: 2250 psi Pressure Loss Bit: 910 psi % Pressure Loss: 41

Nozzel Vel: 319 ft/sec Jet Impact Force: 851 HHP: 273

PRESSURE PARAMETERS

Drilling Exponent: - Flowline Temperature: 59°C

Shale Density: _____ Shale Factor: _____

Background Gas: - Max. Formation Gas: - @ _____ Trip Gas: ±100u @ 3900.3m.

Other Gas: Nil

Fill: _____ Tight Hole: To 150 klbs

Cavings: Est %: Minor, < 5% Average Size: Small, blocky.

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: 11.9 ppg / 1.9 ppg Min. Estimated Fracture Pressure (Open Hole): 13 ppg

Estimated Pore Pressure: 8.7 ppg Min. Estimated Pore Pressure (Open Hole): 8.7 ppg @ _____

Max. Estimated Pore Pressure (Open Hole): 9.4 ppg @ 3570m. Estimated Fracture Pressure at TD: ±16 ppg

Comments: Run Wireline Logs. Hole ~~and~~ diameter 2850 - 3900m - 14";
Circ. at casing shoe, ream at 3402m, 3630m; and 3879 - 3900m.
Pipe stuck with bit at 3898m - work pipe and free pipe - circulate and ream near 3900m - drag to 150 klbs when lifting up.
Some cavings to 50 / 13 mm - none when hi-vis pill pumped.

Corrected Hole Vol: 2052 bbl / Corrected Annulus: 1719 bbl - 14580 stks
(Calc. Lag: 13580 stks)
Surface HHP: 661 - 2.32 /sq in of bit.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329417

EXLOG (SM) GEMDAS LOGGING REPORT NO. 52

COMPANY AMOCO AUST. WELL Tilana No.1

DATE 2 Nov. 1985 TIME 0500 Hrs

DEPTH 3900.3m - 12796ft LAST REPORT DEPTH 3900.3m - 12796m

RIG OPERATIONS Pumping cement plugs.

REPORT BY Gary Hodge. REPORT RECEIVED BY S. Maxwell SIGNED (OPERATOR)

DRILLING REPORT

Bit No.: 21 Type: Smith SVH Size: 12.25" Jets: 15,15,15.

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: _____ Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: _____ Flowline Temperature: _____

Shale Density: _____ Shale Factor: _____

Background Gas: _____ Max. Formation Gas: _____ @ _____ Trip Gas: 35u @ 3900m.

Other Gas: _____

Fill: _____ Tight Hole: To 100 klbs during reaming & circulating.

Cavings: Est %: _____ Average Size: _____

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: _____ Min. Estimated Fracture Pressure (Open Hole): _____

Estimated Pore Pressure: _____ Min. Estimated Pore Pressure (Open Hole): _____ @ _____

Max. Estimated Pore Pressure (Open Hole): _____ @ _____ Estimated Fracture Pressure at TD: _____

Comments: Circulate & ream near 3900m; drag to 100 klbs, put up to 200 klbs onto drill string.
Pull out of hole after circulating hi-vis mud pills; 35 klb drag on first stand - clean after this.

Run in openended drillpipe - circulate bottoms up, 35u trip gas, pump cement plugs.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329418

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 53

COMPANY Amoco Aust. WELL Tiana No.1

DATE 3 Nov. 1985 TIME 0500

DEPTH 12796 ft - 3900.3m. LAST REPORT DEPTH 3900.3m.

RIG OPERATIONS Circulating returns after dressing cement.

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (OPERATOR)

DRILLING REPORT

Bit No.: Rerun Type: Smith F2 Size: 12.25" Jets: 15,15,15

On Bit: Footage: ≈55m Hours: 0.6 ROP: ≈ 90 m/hr WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: 10 ppg Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: Pump cement plugs at 3893m and 3552m; Pull out drillpipe - run in rerun bit and dress top cement plug from ≈ 3260 - 3315m in 0.6 hours.

Circulate returns at ≈ 3315m.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329419

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 54

COMPANY Amoco Aust. WELL Tilana No.1

DATE 4 Nov. '85 TIME 0500 Hrs

DEPTH 3900m - 3315m. LAST REPORT DEPTH 3900m.

RIG OPERATIONS Running 9.625" casing prior to DST's.

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: _____ Type: _____ Size: _____ Jets: _____

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: _____ Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: _____ Flowline Temperature: _____

Shale Density: _____ Shale Factor: _____

Background Gas: _____ Max. Formation Gas: _____ @ _____ Trip Gas: _____ @ _____

Other Gas: _____

Fill: _____ Tight Hole: _____

Cavings: Est %: _____ Average Size: _____

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: _____ Min. Estimated Fracture Pressure (Open Hole): _____

Estimated Pore Pressure: _____ Min. Estimated Pore Pressure (Open Hole): _____ @ _____

Max. Estimated Pore Pressure (Open Hole): _____ @ _____ Estimated Fracture Pressure at TD: _____

Comments: Drill cement from 3261 - 3315m, circulate hole.
Pull out drill pipe.
Run 9.625" casing (47 lb/ft) - shoe at 3300m.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329420

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 55

COMPANY Amoco Australia WELL Tiana No.1

DATE 5 November 1985 TIME 0500

DEPTH 3900m - 12796m LAST REPORT DEPTH 3900 m

RIG OPERATIONS Testing seal assembly etc.

REPORT BY Gary Hodge REPORT RECEIVED BY S. Maxwell (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: _____ Type: _____ Size: _____ Jets: _____

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: _____ Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: _____ Flowline Temperature: _____

Shale Density: _____ Shale Factor: _____

Background Gas: _____ Max. Formation Gas: _____ @ _____ Trip Gas: _____ @ _____

Other Gas: _____

Fill: _____ Tight Hole: _____

Cavings: Est %: _____ Average Size: _____

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: _____ Min. Estimated Fracture Pressure (Open Hole): _____

Estimated Pore Pressure: _____ Min. Estimated Pore Pressure (Open Hole): _____ @ _____

Max. Estimated Pore Pressure (Open Hole): _____ @ _____ Estimated Fracture Pressure at TD: _____

Comments: Run 9 5/8" casing - shoe at 3300m - wash last 5.8m down. Cement shoe, good returns while displacing cement. Problems with seal assembly - rerun - Test seal assembly etc.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329421

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 56

COMPANY Amoco Aust. WELL Tilana No.1

DATE 6 November 1985. TIME 0500

DEPTH _____ LAST REPORT DEPTH 3900m

RIG OPERATIONS _____

REPORT BY P. New REPORT RECEIVED BY S. Maxwell (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: _____ Type: _____ Size: _____ Jets: _____

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: _____ Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: _____ Flowline Temperature: _____

Shale Density: _____ Shale Factor: _____

Background Gas: _____ Max. Formation Gas: _____ @ _____ Trip Gas: _____ @ _____

Other Gas: _____

Fill: _____ Tight Hole: _____

Cavings: Est %: _____ Average Size: _____

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: _____ Min. Estimated Fracture Pressure (Open Hole): _____

Estimated Pore Pressure: _____ Min. Estimated Pore Pressure (Open Hole): _____ @ _____

Max. Estimated Pore Pressure (Open Hole): _____ @ _____ Estimated Fracture Pressure at TD: _____

Comments: TEST STACK. LAY DOWN 8" D.C.'s. RIH WITH CASING SCRAPER. TAG PLUG AT 10,618' CIRCULATE BOTTOMS UP. TEST CASING TO 3000 psi. MIX COMPLETION FLUID.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329422

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 57

COMPANY AMOCO AUST WELL TILANA No 1

DATE 7TH NOVEMBER 1985. TIME 05:00

DEPTH _____ LAST REPORT DEPTH _____

RIG OPERATIONS POOH WITH CASING SCRAPER

REPORT BY D. NOW REPORT RECEIVED BY S. MAXWELL (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: _____ Type: _____ Size: _____ Jets: _____

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: _____ Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: _____ Flowline Temperature: _____

Shale Density: _____ Shale Factor: _____

Background Gas: _____ Max. Formation Gas: _____ @ _____ Trip Gas: _____ @ _____

Other Gas: _____

Fill: _____ Tight Hole: _____

Cavings: Est %: _____ Average Size: _____

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: _____ Min. Estimated Fracture Pressure (Open Hole): _____

Estimated Pore Pressure: _____ Min. Estimated Pore Pressure (Open Hole): _____ @ _____

Max. Estimated Pore Pressure (Open Hole): _____ @ _____ Estimated Fracture Pressure at TD: _____

Comments: POOH WITH CASING SCRAPER - RIG UP AND RIH WITH HALIBURTON TEST TOOL FOR DST No1. LEAK IN DRILL STRING. POOH 10 STANDS AT A TIME CHECKING FOR LEAKS.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329423

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 58

COMPANY AMOCO AUST WELL TILANA No 1

DATE 8TH NOVEMBER 1985. TIME 05:00

DEPTH 3236.3m P.B. LAST REPORT DEPTH

RIG OPERATIONS RIM FOR DST No 1

REPORT BY D. NEW REPORT RECEIVED BY J. GILLROY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: FIND LEAK IN DRILL PIPE, CHANGE OUT DAMAGED D.P. RIM FOR DST No 1

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329424

EXLOG (SM) GEMDAS LOGGING REPORT NO. 59

COMPANY AMOCO AUST. WELL TILANA No.1

DATE 9/11/85 TIME 05:00

DEPTH 3236.3m P.B LAST REPORT DEPTH

RIG OPERATIONS POOH.

REPORT BY D. NEW REPORT RECEIVED BY J. GILROY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: RIG SURFACE TREE. RIH WITH OTIS GAUGE RINGS BUT COULD NOT GET BELOW 3038m. POOH WITH TEST STRING.

EL P/N 18429 MAY 1980

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329425

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 60

COMPANY AMOCO AUST. WELL TILANA No1

DATE 10TH NOV 1985 TIME 05:00

DEPTH 3236m LAST REPORT DEPTH

RIG OPERATIONS RIH WITH TEST STRING FOR DST No1A.

REPORT BY D. NEW REPORT RECEIVED BY J. GILORY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: FINISH POOH. FIND 5' OF PIPE SCALE AT BOTTOM OF COLLARS. DRESS TEST TOOLS AND RIH FOR DST No1A.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329426

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 61

OMPANY AMOCO AUST. WELL TILANA No1

ATE 11/11/85 TIME 05:00

EPTH 3236m LAST REPORT DEPTH

IG OPERATIONS WAITING ON DAYLIGHT.

EPORT BY REPORT RECEIVED BY SIGNED (OPERATOR)

RILLING REPORT

No.: Type: Size: Jets:

n Bit: Footage: Hours: ROP: WOB: RPM:

ump Press: SPM: Torque: TBR: CP I: $ CP B: $

YDRAULICS REPORT

ud Density In: Mud Density Out: ECD: PV/YP:

ls: Salinity: PPM Cl Solids: %

e Volume: Annular Volume: Tubing Volume: Displaced Volume:

bide Lag—Calculated Lag: Flowrate:

llpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

ll Collar Annular Vel (Open Hole): Critical Vel:

essure Loss System: Pressure Loss Bit: % Pressure Loss:

zzel Vel: Jet Impact Force: HHP:

RESSURE PARAMETERS

ling Exponent: Flowline Temperature:

le Density: Shale Factor:

ckground Gas: Max. Formation Gas: @ Trip Gas: @

her Gas:

: Tight Hole:

vings: Est %: Average Size:

STIMATED PORE AND FRACTURE PRESSURE

k Tolerance: Min. Estimated Fracture Pressure (Open Hole):

mated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

omments: RIH FOR DST No1A SET PACHER AT 3139.7m RUN GAUGE RINGS, COULD NOT GET BELOW 3129.1m WITH 2-1/8 GAUGE RING. RUN PERFORATING GUN BUT COULD NOT GET ~~BELOW~~ CORRALATION WITH DRILLERS DEPTH. RUN CCL-GR. WAIT ON DAYLIGHT.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329427

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 62

COMPANY AMOCO AUST. WELL TILANA No 1

DATE 12/11/85. TIME 05:00

DEPTH 3236m. LAST REPORT DEPTH

RIG OPERATIONS RIH FOR DST No 2

REPORT BY D. NEW REPORT RECEIVED BY J. GOLLORY (SIGNED) (OPERATOR)

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: PERFORATE INTERVAL 3179m - 3185m AT 4 SPF. WHEN PERFORATED JUNK CAUSED THE APR-N2 VALVE TO SHEAR AND THIS CLOSED ON WIRELINE CUTTING IT. CCL, PER GUN AND SINKER BARS LEFT IN HOLE. POOH WITH TEST STRING. DRESS TEST TOOLS. RIH FOR DST No 2.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329428

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 63

COMPANY AMOCO AUST. WELL TILANA No 1

DATE 13/11/85 TIME 05:00

DEPTH ~~326~~ 3236m. LAST REPORT DEPTH

RIG OPERATIONS RIH FOR DST No 3.

REPORT BY D. NEW REPORT RECEIVED BY J. GULLORY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: RIG UP SURFACE TEST GEAR. ~~OPEN~~ PRESSURE ANNULUS TO OPEN WELL - NO BLOW. RIH WITH CCL FIND LPR-N VALVE STILL CLOSED (WELL STILL SHUT IN) UNABLE TO OPEN LPR-N VALVE TO FLOW WELL POOH DRESS TEST TOOLS. RIH FOR DST No 3.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329429

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 64

COMPANY AMOCO AUST. WELL TILANA No 1

DATE 14 Nov 1985 TIME 05:00

DEPTH 3236m LAST REPORT DEPTH

RIG OPERATIONS RIH TO REPERFORATE.

REPORT BY D. NEW REPORT RECEIVED BY J. GULLROY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: FINISH RIH RIG UP SURFACE EQUIPMENT. FLOW WELL VERY WEEK BLOW. RIG UP SCHLUMBERGER AND REPERFORATE INTERVAL 3179m - 3185m AT 4 SPF. STILL NO BLOW. ~~FLOW WELL. RUN OTIS PRESSURE GAUGES~~

EL P/N 18429 MAY 1980

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329430

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 65

COMPANY AMOCO AUST WELL TILANA No1

DATE 15TH NOV. 1985. TIME 05:00

DEPTH 3236m. LAST REPORT DEPTH

RIG OPERATIONS POOH AFTER DST No3.

REPORT BY D. NEW REPORT RECEIVED BY J. GOLLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: FLOW WELL ON DST No3 (NO BLOW) RIH WITH OTIS CCL-PRESSURE GAUGE FOR PRESSURE GRADIENT. RUN OTIS BOTTOM HOLE SAMPLER AND OBTAIN SAMPLE FROM 7500' (2286m) - SAMPLE SEAWATER FROM CUSHION NO HYDROCARBONS. SHEARED APR-A AND REVERSED OUT. NO INDICATION OF HYDROCARBONS IN DRILLSTRING. CONTINUED REVERSING UNTILL MUD BALANCED. POOH

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329431

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 66

COMPANY AMOCO AUST WELL TILANA No 1

DATE 16TH NOV 1985. TIME 05:00

DEPTH 3176m P.B LAST REPORT DEPTH 3236m

RIG OPERATIONS RIH WITH BIT AND CASING SCRAPER.

REPORT BY D. NEW REPORT RECEIVED BY J. GALLORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: _____ Type: _____ Size: _____ Jets: _____

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: _____ Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: _____ Flowline Temperature: _____

Shale Density: _____ Shale Factor: _____

Background Gas: _____ Max. Formation Gas: _____ @ _____ Trip Gas: _____ @ _____

Other Gas: _____

Fill: _____ Tight Hole: _____

Cavings: Est %: _____ Average Size: _____

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: _____ Min. Estimated Fracture Pressure (Open Hole): _____

Estimated Pore Pressure: _____ Min. Estimated Pore Pressure (Open Hole): _____ @ _____

Max. Estimated Pore Pressure (Open Hole): _____ @ _____ Estimated Fracture Pressure at TD: _____

Comments: FINISH POOH WITH TEST STRING. RUN GAUGE RING AND JUNK BASKET. RUN EZSV ON WIRELINE AND SET AT 3176m (10,420'). RIH WITH CEMENT STINGER. ESTABLISH EJECTION RATE AT 1/4 BBL/MIN AT 5000PSI. MIX AND PUMP 100SX CLASS G CEMENT. SQUEEZED 20BBL AT 1BBL/MIN DECREASING TO 1/4BBL/MIN AT 5000PSI REVERSE OUT. POOH WITH STINGER. PICK UP BIT AND CASING SCRAPER. RIH.

EL P/N 18429 MAY 1980

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329432

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 67

COMPANY AMOCO AUST. WELL TILANA No1

DATE 17TH NOV 1985 TIME 05:00

DEPTH 3176m LAST REPORT DEPTH

RIG OPERATIONS RIG UP SURFACE TREE FOR DST No4.

REPORT BY D. NEW REPORT RECEIVED BY J. GUILORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: RIH WITH BIT AND CASING SCRAPER. TAG CMNT AT 3168.7m (10,396') CIRCULATE AND CONDITION MUD POOH. MAKE UP TESTING STRING AND RIH FOR DST No4. (TOP OF WATER CUSHION AT 1192m (3913'). SET PACKER AT 3001.7m (9848') RIG UP SURFACE EQUIPMENT.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329133

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 68

COMPANY _____ WELL TILANA No1

DATE 18TH NOVEMBER 1985 TIME 05:00

DEPTH 3176m LAST REPORT DEPTH _____

RIG OPERATIONS POOH WITH TEST STRING

REPORT BY D. NEW REPORT RECEIVED BY J. GUILLORY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: _____ Type: _____ Size: _____ Jets: _____

On Bit: Footage: _____ Hours: _____ ROP: _____ WOB: _____ RPM: _____

Pump Press: _____ SPM: _____ Torque: _____ TBR: _____ CP I: $ _____ CP B: $ _____

HYDRAULICS REPORT

Mud Density In: _____ Mud Density Out: _____ ECD: _____ PV/YP: _____

Gels: _____ Salinity: _____ PPM Cl Solids: _____ %

Hole Volume: _____ Annular Volume: _____ Tubing Volume: _____ Displaced Volume: _____

Carbide Lag—Calculated Lag: _____ Flowrate: _____

Drillpipe Annular Vel (Max. Dia. Sec.): _____ Drillpipe Annular Vel (Open Hole): _____

Drill Collar Annular Vel (Open Hole): _____ Critical Vel: _____

Pressure Loss System: _____ Pressure Loss Bit: _____ % Pressure Loss: _____

Nozzel Vel: _____ Jet Impact Force: _____ HHP: _____

PRESSURE PARAMETERS

Drilling Exponent: _____ Flowline Temperature: _____

Shale Density: _____ Shale Factor: _____

Background Gas: _____ Max. Formation Gas: _____ @ _____ Trip Gas: _____ @ _____

Other Gas: _____

Fill: _____ Tight Hole: _____

Cavings: Est %: _____ Average Size: _____

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: _____ Min. Estimated Fracture Pressure (Open Hole): _____

Estimated Pore Pressure: _____ Min. Estimated Pore Pressure (Open Hole): _____ @ _____

Max. Estimated Pore Pressure (Open Hole): _____ @ _____ Estimated Fracture Pressure at TD: _____

Comments: RUN GAUGE RINGS, MINOR TIGHT SPOT. RIG UP LUBRICATOR AND RIH TO PERFORATE. STICK GUN. LOOSE GUN. FISH FOR PERFORATING GUN. BUT FAIL TO RETRIEVE IT. POOH WITH TEST STRING

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329434

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 69

COMPANY AMOCO AUST WELL TILAND No1

DATE 19/11/85. TIME 05:00

DEPTH 3176m P.B. LAST REPORT DEPTH

RIG OPERATIONS RIH WITH WIRELINE PERFORATING GUN.

REPORT BY D. NEW REPORT RECEIVED BY J. GALLORY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: FINISH POOH WITH TEST STRING. DRESS HALLIBURTON TOOLS. RABBIT DRILL COLLARS. RIH WITH TEST STRING FOR DST No4 WAIT ON DAYLIGHT.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329135

EXLOG (SM) GEMDAS LOGGING REPORT NO. 70

COMPANY AMOCO AUST WELL TILANA NO 1

DATE 20th NOV 1985 TIME 05:00

DEPTH 3176m P.B. LAST REPORT DEPTH

RIG OPERATIONS RUN OTIS HP CCL HB

REPORT BY T. FOONG REPORT RECEIVED BY J. GULLCORY (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: DST #4. PERFORATE 3071-3075m.
FLOW WELL: V. WEAK - INTERMITTANT BUBBLES. THEN NOTHING
RUN PERFORATING GUN, COULD NOT GET DOWN.
POOH, dressed tool for 2nd attempt.
PERFORATE 3042 - 3048 m.
FLOW WELL: NO FLOW. TEST SAMPLE FROM BUBBLE HOSE - NO GAS
RUN OTIS HP CCL HB.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329436

EXLOG (SM)

GEMDAS LOGGING REPORT NO. 71

COMPANY AMOCO AUST WELL TILANA NO 1.

DATE 21ST NOV 1985 TIME 05:00

DEPTH 3176 P.B. LAST REPORT DEPTH

RIG OPERATIONS Run Wireline to set EZSV

REPORT BY T. FOONG REPORT RECEIVED BY J. GULLCORY. (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: Recovered sample from OTIS tool - HP CCL HB. at interval (3071 - 3075 m). Gas sample + Dissolve gas from mud sample analyse as: C_1 = 99 ppm, C_2 = 15 ppm; C_1 = 109 ppm, C_2 = 15 ppm, C_3 = 8 ppm.

Rerun OTIS Tool for more pressure readings. Reverse circulate. Mex gas = 5.26%. CO_2 = 6%. Break down otis. POOH.

Run wireline to set EZSV for squeeze job

*Sample obtained not enough for H_2S + CO_2 analysis.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329437

EXLOG (SM) GEMDAS LOGGING REPORT NO. 72

COMPANY AMOCO AUST WELL TILANA No 1

DATE 22nd November 1985 TIME 05:00

DEPTH 3176 P.B. LAST REPORT DEPTH

RIG OPERATIONS PLUG & ABANDON

REPORT BY T. FOONG REPORT RECEIVED BY _____ (OPERATOR)
SIGNED

DRILLING REPORT

Bit No.: Type: Size: Jets:

On Bit: Footage: Hours: ROP: WOB: RPM:

Pump Press: SPM: Torque: TBR: CP I: $ CP B: $

HYDRAULICS REPORT

Mud Density In: Mud Density Out: ECD: PV/YP:

Gels: Salinity: PPM Cl Solids: %

Hole Volume: Annular Volume: Tubing Volume: Displaced Volume:

Carbide Lag—Calculated Lag: Flowrate:

Drillpipe Annular Vel (Max. Dia. Sec.): Drillpipe Annular Vel (Open Hole):

Drill Collar Annular Vel (Open Hole): Critical Vel:

Pressure Loss System: Pressure Loss Bit: % Pressure Loss:

Nozzel Vel: Jet Impact Force: HHP:

PRESSURE PARAMETERS

Drilling Exponent: Flowline Temperature:

Shale Density: Shale Factor:

Background Gas: Max. Formation Gas: @ Trip Gas: @

Other Gas:

Fill: Tight Hole:

Cavings: Est %: Average Size:

ESTIMATED PORE AND FRACTURE PRESSURE

Kick Tolerance: Min. Estimated Fracture Pressure (Open Hole):

Estimated Pore Pressure: Min. Estimated Pore Pressure (Open Hole): @

Max. Estimated Pore Pressure (Open Hole): @ Estimated Fracture Pressure at TD:

Comments: Run in hole w/ open ended drill pipe
squeeze cmt to perforate zones.
Set cement plug
Plug & Abandon.

THIS REPORT IS GOVERNED BY THE TERMS AND CONDITIONS AS SET FORTH ON THE REVERSE SIDE

329438

3. WEEKLY GEOLOGICAL-ENGINEERING REPORTS

EXLOG

EXPLORATION
LOGGING
OF AUSTRALIA INC.
The liability of members is limited
Inc. in Nevada, U.S.A.

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Carlisle
West Australia 6101

Phone: (09) 361 4437, 361 4963
Telex: AA 92372

GEOLOGICAL-ENGINEERING REPORT No.1 — 5th - 13th September 1985
Tilana No.1 / AMOCO AUSTRALIA — Spud - 5452 ft
EXLOG UNIT 216 / DIAMOND M "EPOCH" — Spud - 1662 m

Report by : D.New , J.Strautins

OPERATION SUMMARY

The semi-submersible rig Diamond M "Epoch" arrived on location on the 2nd September 1985, and Tilana No.1 was spudded at 2030 hrs on the 5th September 1985.

NB#1, a HTC DGJ 26", was run in (see Table #1) in tandem with a 36" Hole-Opener, and tagged seabed at 104.5m (343') below the rotary table. This section was drilled to 208.8m (685') at which point a survey was run and a wiper trip performed. Deviation was only 0.5 degrees, and no fill was recorded on the trip in. The hole was displaced with hi-vis mud prior to tripping out.

Casing (30", 8 joints) was run and the shoe landed and cemented at 203.3m (667') (see Table #4). Cement returns were noted at the sea-floor.

RRB#1, the HTC DGJ 26", was run in and drilled cement, the shoe and new formation to 281.9m (925') where a survey was run (deviation 0 degrees). Drilling continued to 413.3m (1365') where another survey was run and retrieved at the 30" shoe. The survey was a misrun. The bit was run in again, but a bridge was noted at 403.8m (1325'). This interval to bottom was worked with the bit, a high-vis pill spotted, and another survey dropped and recovered during a short trip (0.5 degrees). No fill was recorded on the trip back to bottom. The hole was displaced with high-vis mud and the bit tripped.

Casing (20", 26 joints) was run and the shoe landed at 413.3m (1356'). Cement returns were observed at the sea-floor.

NB#2 SMITH DSJ 17.5" drilled the shoe and new formation to 418.2m (1372') at which point an FIT was performed. The formation was seen to fracture at 15.3 ppg EMW. The bit was tripped to continue drilling with a 12.25" pilot hole.

NB#3 SMITH SDT 12.25" drilled at a variable ROP to 1292.3m (4240') where the bit was tripped due to decreasing rate of penetration. Surveys taken at 500' intervals indicated hole angle to be less than a maximum of 1.5 degrees. Drag on the trip out was only apparent in one location at 640m (2100').

NB#4, a SMITH F2CE 12.25", was run in and encountered a bridge at 987.9m (3738') and reamed/washed to 1123.4m (3686'). Reaming/washing was also required over the interval 1267.9m (4160') to bottom. Trip gas was 32u. Drilling continued to 1383.7m (4540') where a steady mud loss was noted, and the flow rate was decreased

GEOLOGICAL-ENGINEERING REPORT No.1 cont'd ...

to minimise these losses. Drilling continued to 1416m (4636') where returns were circulated after a drill break, but no apparent lithology change was found. Drilling continued to 1647.9m (5407') where ROP increased again, with returns being circulated at 1661.7m (5452'). Again the lithology did not fundamentally vary. It was then decided to TD this section of hole at this depth. A wiper trip was made to the casing shoe. While drilling, up to 20 klb of drag was noted on connections from 937.8m (3077') and tight hole was experienced during the wiper trip over a similar interval. Up to 50 klb drag was noted on the first 20 stands up to 1085m (3560'). The bit was then run back in, but reaming was required over the interval from 1286.8m (4222') to bottom. Returns were circulated, with 31u trip gas. The bit was tripped to run wireline logs. Drag to 30 klb was noted from bottom to 1143.5m (3750'), with minor to nil drag for the remainder of the trip.

Current operations at 2400hrs 13-9-85: complete trip out with NB#4.

LITHOLOGY

Table #6

DEPTH (m) INTERVAL	LITHOLOGY;	ROP (ft/hr) max	ROP (ft/hr) avg	GAS (units) max	GAS (units) avg
104 - 413	Returns to seabed.	-	-	No Returns	
413 - 800	Biocalcarenite,calcarenite	400	200	nil to trace	
800 -1165	Claystone, siltstone, coal	500	200	19	2
1260 -1390	Volcanics	200	50	5	3
1390 -1525	Sandstone,silt and minor claystone	420	80	10	3
1525 -1662	Claystone, minor siltstone	400	50	13	8

HOLE CONDITION

Neither the 36" nor the 26" hole sections presented problems while drilling. Both were completed in minimal time, with the drill rate not having any constraints applied.

Hole angle was never above a maximum of 0.5 degrees.

The 12.25" hole presented few problems while drilling except for the minor drag noted on connections below 937.8m (3077') down to Total Depth. This section consisted primarily of hydratable claystones which, when given sufficient time did swell sufficiently to cause tight hole during trips.

PORE PRESSURE

Formation pore pressure was estimated to be normal at 8.6-8.7 ppg EQMW.

BIT DATA

Table #1

BIT#	SIZE inch	TYPE	JETS	DEPTH IN	DEPTH OUT	BIT DIST	BIT TIME	AVG ROP ft/hr	WOB klbs	RPM	TORQUE kft-lb avg to max	BIT REVS	CONDITION T : B : G
NB1	26	HTC DGJ	3x14	342	685	342	4.5	76	8-10	50-60	0.8 - 1.8	17400	1 1 0
with	36	Hole-Opener	3x20										
RRB1.1	26	HTC DGJ	3x14	685	1365	680	7.0	97	8-10	70-90	1.0 - 1.9	19700	2 2 0
NB2	17.5	SMITH DSJ	3x18	1365	1372	7	0.5	14	5-10	50-60	1.0 - 1.9	1800	1 1 0
NB3	12.25	SMITH SDT	15,15,18	1372	4240	2868	20.3	141	5-25	100	1.5 - 2.5	116200	4 4 4
NB4	12.25	SMITH F2CE	11,3x13	4240	5452	1212	26.0	47	15-42	90-110	1.0 - 2.8	167300	6 2 4

HYDRAULICS DATA

Table #2

BIT#	SIZE	START DEPTH feet	JETS	FLOW IN gpm	SPM	PUMP PRESS psi	MUD WT. ppg	ECD ppg	PV/YP	ANNULAR VELOCITIES ft/mn riser	pipe	collar	crit	JET VEL ft/sc	BIT PRESS psi/ %	HHP hp	IMPACT FORCE lbs
NB3	12.25	1372	15,15,18	764	150	2400	8.8	9.0	8/18	57	150	217	381	413	1340/68	597	1436
NB4	12.25	4240	11,3x13	703	142	2720	9.1	9.4	8/32	53	138	288	563	468	1782/66	731	1551

Casing/Cementing

Table #4

Hole Depth ft	Hole Size inches	Casing Depth ft	Casing OD/ID inches	Casing # jts	Casing Weight ppf	Cement # sx	Cement Type	Cement Slurry density	Remarks
685	36	667	30/28	8	310	2000	Class G w/ 1% CaCl2	15.8	Returns to seabed
1365	26	1356	20/ 18.73	26	133	1500 500	Class G w/ P.H.Gel + NF-1 Class G neat	12.8 15.8	Returns to seabed Returns to seabed

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GEOLOGICAL-ENGINEERING REPORT No.2 — 14th - 20th September 1985
Tilana No.1 / AMOCO AUSTRALIA — 5452 ft
EXLOG UNIT 216 / DIAMOND M "EPOCH" — 1662 m

Report by : G.Hodge , J.Strautins

OPERATION SUMMARY

The following wireline log was run: ISF-BHC-GR-Cal-SP.

Drill-pipe was laid out and NB#5, a SMITH SDGH 17.5", was run in to open out the 12.25" pilot hole from 418-1661.7m (1372-5452'). The shallow calcarenites and clays were drilled rapidly at 300-500 ft/hr, but the progress slowed to 10-40 ft/hr through the volcanics. Minor mud losses to the formation were noted below 1326.7m (4353'), similar to the original pilot hole. But these never exceeded 20 bbl/hr, and were generally 10-15 bbl/hr. The torque became extremely high and erratic upon entering these volcanics. The gas increased at 1554m (5100') from 7 units to maximum of 44 units at 1597m (5240'). After circulating at 1662m (5452') for carbide returns, the bit was pulled with up to 80klb of drag. The bit was run in the hole with no tight sections. 1.5m (5') of fill was tagged. After circulating the hole, the bit was trippeded out with only minor drag (to 20klb).

The 13.375" casing was run with the shoe set at 1651m (5418').

Cement (1607 sx Lead, 500 sx Tail) was pumped and displaced with the rig pumps. However, the wiper plug was seated early and 1036.6m (3401') of cement remained in the casing.

NB#6, a SMITH SDGH 12.25" (no jets), was run in and tagged soft cement at 614.8m (2017'), washed this to 639.1m (2097'), and drilled soft to firm cement to the float collar at 1624m (5329'). This was drilled with seawater which was dumped. There appeared to be no cement below the float. The casing was displaced with mud and a trip begun. After 15 stands, the well was seen to flow, the trip was reversed and heavier mud (9.1 ppg) was circulated and the trip completed.

Circulation was not possible through the casing and up the 17.5/13.375" annulus until the casing shoe was drilled with NB#7 (SMITH SDT 12.25"). After the casing had been circulated, a wireline bridge plug was set at 1624m (5320').

Current operations at 2400 hrs 20-9-85: RIH to sting into bridge plug.

HOLE CONDITION

No major problems presented themselves while opening the 12.25" pilot hole to 17.5". Torque was erratic and excessive in some sections, particularly the hydratable clays below 945m (3100'), and the volcanics below 1259m (4130').

Caliper data indicated that the average open hole was washed out to 17-22" from surface to the volcanics, but was stable at 15" below this zone.

Attempts were made to determine the average hole diameter of the 17.5" hole but these were inconclusive (a estimated minimum of 22" was not confirmed).

PORE PRESSURE

Formation pore pressure was estimated to be normal at 8.6-8.7 ppg EQMW.

BIT DATA

Table #1

BIT#	SIZE inch	TYPE	JETS	DEPTH IN	DEPTH OUT	BIT DIST	BIT TIME	AVG ROP ft/hr	WOB klbs	RPM	TORQUE kft-lb avg to max	BIT REVS	CONDITION T : B : G
NB5	17.5	SMITH SDGHC	12,3x15	1372	5452	Open 12.25" hole			5-35	85-130	1.0 - 8.0	219000	6 3 8
NB6	12.25	SMITH SDGH	Open	-	-	Drill cement,float							n/a
NB7	12.25	SMITH SDT	Open	-	-	Drill casing shoe							n/a

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GEOLOGICAL-ENGINEERING REPORT No.3 — 21st - 27th September 1985
Tilana No.1 / AMOCO AUSTRALIA — 5452 - 7173 ft
EXLOG UNIT 216 / DIAMOND M "EPOCH" — 1662 - 2186 m

Report by : G.Hodge, D.New

OPERATION SUMMARY

The 13.375" casing was successfully cemented and after a BOP stack test the EZSV plug was drilled out in approximately 14.8 hours. Cement was drilled to 1652m (5422') and a leak-off test was conducted to an equivalent mud density of 14.3ppg. After drilling to 1664m (5460') a leak-off test was conducted and the formation broke down at an equivalent mud density of 14.6ppg. The bit was then pulled and a reverse circulation junk-sub was run in and 1' of new hole was drilled with this assembly. The bit was then pulled to cut Core #1 at 1664m - 1682m (5461-5519'), the recovery was 10m (33'), 57%.

NB#9 was run in and reamed the cored rat-hole. Flow checks at 1712m (5619'), 1749m (5740'), 1768m (5802') and 1881m (6173'), following drill breaks, were all negative. Surveys at 1860m (6102') and 1926m (6320') were 1 and 0.5 degrees respectively. The bit was pulled at 1926m (6320') due to low ROP. Drag to 50-60 klbs was noted.

NB#10 was run in, there was no trip gas and fill was approximately 5'. Very high torque occurred over much of the bit run and the bit was pulled at 2002m (6568') due to low ROP (no drag on the trip out). The deviation at 2000m (6561') was 0.75.

NB#11 was run in and after surging for junk drilled ahead. High torque occurred from 2012m (6604'). Volcanics were intersected at 2011m (6600') and continued to 2186m (7173'). A flow check at 2066m (6778') was negative. The deviation at 2164m (7099') was 1.25 degrees. The bit was tripped at 2186m (7173') due to low ROP. There was no drag on the trip out.

Current operations at 2400hrs 27th September: completed trip in with NB#12 and commencing drilling.

HOLE CONDITION

The only hole problem while drilling was drag to 50-60klb on the trip out at 1926m (6320'). This section gave no further problems on subsequent trips. Hole deviation was a maximum of 1.25 degrees at 2164m (7099'). Carbide lag data showed the hole diameter to be 13.3" at 1889m (6198') and 12.8" at 2097m (6879').

PORE PRESSURE

The formation pore pressure was estimated to be normal at 8.6-8.7 ppg EQMW. No indicators of abnormal pore pressure were detected in this interval. The mud density while drilling was 9.0-9.1 ppg.

Lithology Summary : Tilana No.1

Depth (m) Interval	Lithology	ROP (ft/hr) max	ROP (ft/hr) avg	GAS (units) max	GAS (units) avg
1647 - 1722	Sandstone, minor siltstone and coal	320	60	11	1
1722 - 1752	Siltstone, minor sandstone and coal	100	45	4	2
1752 - 1859	Sandstone, minor siltstone and coal	200	50	2	0.5
1859 - 2012	Sandstone and siltstone, minor coal and volcanics	200	40	1	Trace
2012 - 2186	Volcanics	25	15	0.5	Trace

BIT DATA

BIT#	SIZE	TYPE	JETS	DEPTH	DEPTH	BIT	BIT	AVG ROP	WOB	RPM	TORQUE kft-lb	BIT	CONDITION
	inch			IN	OUT	DIST	TIME	ft/hr	klbs		avg to max	REVS	T : B : G
NB7	12.25	SMITH SDT	Open			Drill shoe, cement, EZSV plug							
RRB7	"	" "	"	5452	5460	8	0.1	80	17-20	60-80	2.0 - 4.3	1000	
NB8	12.25	DB CD 502	1" TFA	5461	5519	58	2.0	29	12-20	80-110	1.9 - 3.7	12000	
NB9	12.25	SMITH SDGH	15,15,15	5519	6320	801	16.1	50	20-30	75-120	1.6 - 7.6	95000	6 3 4
NB10	12.25	SMITH SVH	15,15,15	6320	6568	248	6.3	39	30-40	95-120	2.0 - 7.7	42000	4 2 0
NB11	12.25	SMITH F2	15,15,15	6568	7173	605	41.0	15	30-38	80-100	3.2 - 7.9	213000	1 2 0
NB12	12.25	SMITH F3	15,15,15	7173									

HYDRAULICS DATA

BIT#	SIZE	START DEPTH feet	JETS	FLOW IN gpm	SPM	PUMP PRESS psi	MUD WT. ppg	ECD ppg	PV/YP	ANNULAR VELOCITIES ft/mn riser	pipe	collar	crit	JET VEL ft/sc	BIT PRESS psi/ %	HHP hp	IMPACT FORCE lbs
NB7	12.25	5452	Open	815	164	1800	8.9	9.0	20/13	61	157*	232	321	111	100/6	47	417
NB8	8.5	5461	3x19 eq	220	44	400	8.9	9.0	14/12	17	42*	654+	769	88	60/15	8	89
												63#					
NB9	12.25	5519	15,15,15	618	125	2000	9.0	9.2	14/12	46	121	176	290	383	1180/59	425	1103
NB10	12.25	6320	15,15,15	614	124	2200	9.0	9.2	16/12	46	120	175	293	380	1170/53	418	1092
NB11	12.25	6568	15,15,15	618	125	2370	9.1	9.2	21/15	46	121	176	345	383	1195/50	431	1117

* In 13.375" casing
\+ 8.5"/8" annulus
\# 12.25/8" annulus

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GEOLOGICAL-ENGINEERING REPORT No.4 — 28th Sept - 4th Oct 1985
Tilana No.1 / AMOCO AUSTRALIA — 7173 ft - 9149 ft
EXLOG UNIT 216 / DIAMOND M "EPOCH" — 2186 m - 2788 m

Report by : D.New, J.Strautins

OPERATION SUMMARY

NB#12 drilled ahead through dolerite/gabbro at ROP's of between 2 and 5 m/hr (5-15ft/hr). At 2336.9m (7339') a drilling break occurred and bottoms-up was circulated at 2238.8m (7345') with a minor increase in gas. The drilling break appears to have been due to a fracture/fault within the gabbro. At 2256m (7401'), 2260m (7414') and at 2265m (7431') torque increased and became erratic but became normal again by 2268m (7441') where the ROP decreased to 3m/hr (10ft/hr). At 2299m (7542') the ROP increased to 45m/hr (150ft/hr) and a negative flow check was made at 2300.6m (7548') with bottoms-up being circulated at 2303m (7557'). After a negative flow check at 2321m (7616') bottoms-up was circulated at 2323.3m (7625') prior to a 10 stand wiper trip. A maximum of 330u (6.6%) of gas was recorded from a coal just before bottoms-up and circulation continued until the hole was clean. The wiper trip was made with no problems. After a connection at 2334m (7656') the torque became high and very erratic and continued to increase until bottoms-up was circulated and the bit pulled at 2429.5m (7971'), by which time the ROP had decreased to 1m/hr (3.2 ft/hr). The high torque and low ROP were found to be due to the cones on the bit being locked. No hole problems were noted.

After succesfully testing the BOP's, NB#13, a SMITH F3, was run with one nozzle being partially plugged during the trip in. Because of this, the pump rate had to be reduced resulting in low annular velocites and poor bit hydraulics. After a connection at 2542m (8340') torque increased and became very erratic indicating a locked cone. Drilling continued to 2566.5m (8420') where a high-vis pill was circulated, a survey dropped and the bit pulled. Drag of 20 klbs was noted from stand 8 on the trip out. All three cones were loose and the bit was graded as T1 B8 G0.

NB#14 was run and drilled to 2788.6m (9149') where bottoms-up was circulated, a survey dropped and the bit pulled to cut core No.2. Drilling breaks were flow checked at 2615m (8579'), 2675m (8776'), 2708m (8884') and at 2783.5m (9132'). Returns were circulated at 2623.5m (8607'), 2678m (8675'), 2783.5m (9132') and at 2788.6m (9149') prior to pulling out of the hole.

Surveys gave inclinations of 0.5 deg at 2324m (7627'), 0.75 deg at 7971') 1.5 deg at 2566m (8420') and 2 deg at 2713.3m (8901').

Current operation at 2400hrs 4-10-85: POOH with NB#14 prior to cutting core No.2.

HOLE CONDITION

The hole condition over the interval 2186m - 2788m (7173'-9149') was generaly very good with carbide and other lag data indicating an average hole diameter of 13.3". Minor drag of up to 20 klbs was noted on most trips out from 2310m to 2255m (7578'-7398'), possibly due to a fracture within the gabbro.

PORE PRESSURE

The formation pore pressure was estimated to be normal at 8.6-8.7 ppg EQMW. No indicators of abnormal pore pressure were detected in this interval. The mud density while drilling was 9.2-9.6 ppg which gives an overbalance of 300psi at 2788m (9149').

Lithology Summary : Tilana No.1

Depth (m) Interval	Lithology	ROP (ft/hr) max	ROP (ft/hr) avg	GAS (units) max	GAS (units) avg
2186 - 2260	Gabbro	50	15	4	Trace
2260 - 2298	Claystone with siltstone sandstone and minor coal	50	25	21	Trace
2298 - 2319	Siltstone and sandstone	400	50	9	1
2319 - 2325	Coal	100	75	440	300
2325 - 2434	Siltstone with sandstone and coal.	65	15	62	1-2
2434 - 2614	Claystone and siltstone with sandstone and coal	100	10	70	1-2
2614 - 2788	Siltstone and sandstone with minor claystone and coal	120	15	25	0.5-2

No hydrocarbon shows were recorded with all the gas peaks being due to coals.

329450

BIT DATA

Table #1

BIT#	SIZE inch	TYPE	JETS	DEPTH IN	DEPTH OUT	BIT DIST	BIT TIME	AVG ROP ft/hr	WOB klbs	RPM	TORQUE kft-lb avg to max	BIT REVS	CONDITION T : B : G
NB12	12.25	SMITH F3	15,15,15	7173	7971	798	43.1	18.5	35-45	70-85	2.5 - 7.9	211380	8 8 0
NB13	12.25	SMITH F3	14,14,14*	7971	8420	449	31.9	14.1	40-43	80-85	2.5 - 6.0	163766	1 8 0
NB14	12.25	SMITH F2 CE	3x13,1x8	8420	9149	729	40.5	18.0	40-45	85-90	2.7 - 7.2	212412	

* NB13 one nozzle partially blocked.

HYDRAULICS DATA

Table #2

BIT#	SIZE	START DEPTH feet	JETS	FLOW IN gpm	SPM	PUMP PRESS psi	MUD WT. ppg	ECD ppg	PV/YP	ANNULAR VELOCITIES ft/mn riser	pipe	collar	crit	JET VEL ft/sc	BIT PRESS psi/ %	HHP hp	IMPACT FORCE lbs
NB12	12.25	7173	15,15,15	610	120	2390	9.2	9.2	17/7	45	119	173	211	378	1174/49	418	1098
NB13	12.25	7971	14,1414*	490	100	2900	9.6	9.7	22/12	37	96	139	294	491	2071/69	592	1197
NB14	12.25	8420	3x13,1x8	611	120	2860	9.3+	9.4	21/13	46	120	174	313	448	1664/58	593	1316

* NB13 one nozzle partially blocked.

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GEOLOGICAL-ENGINEERING REPORT No.5 — 5th - 11th Oct 1985

Tilana No.1 / AMOCO AUSTRALIA — 9149 ft - 10059 ft

EXLOG UNIT 216 / DIAMOND M "EPOCH" — 2788 m - 3066 m

Report by : G.Hodge, J.Strautins

OPERATION SUMMARY

The trip out with NB#14 was completed trouble-free.

RRB#8.1, a D/B CD 502 8.5" core bit, was run in and cut Core No.2 from 2788m - 2807m (9149 ft - 9210 ft). Recovery of 18.7m (61 ft) was 100%.

NB#15, a SMITH F2 12.25", was run in and drilled the core rat-hole in 2.3 hrs, and produced trip gas of 19 units. Flow checks following drill breaks all proved negative. Returns were circulated at 2964m (9723'), 2988m (9805'), 3015m (9892'), 3041m (9977') and finally at Total Depth of 3066m (10059'). No significant hydrocarbons were detected from these breaks. A multi-shot survey was run on the trip out. Only minor over-pull (maximum 10 klbs) was noted.

The following Wireline-Logs were run: ISF-DDBHC-MSFL-GR-SP
LDL-CNL-GR
HDT
WST
CST

A trip was made prior to completing logging to condition the hole and re-run the multishot survey. The trip gas was 34u.

A decision was made to extend the Total Depth and continue drilling. The BOP's and surface equipment were tested to Amoco specifications.

Current operation at 2400hrs 11-10-85: RIH with NB#16 SMITH F2 12.25".

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HOLE CONDITION

The hole condition over the interval 2788 - 3066m (9149' - 10059') was generally very good with carbide and other lag data indicating an average hole diameter of 12.6". Minor drag of up to 20 klbs was noted on most trips out of the hole.

The caliper log run at 3066m indicated relatively severe but localised washouts in the upper portion of this section (above 2340m / 7677'). The average hole size was in the region of 14-15" (maximum 21"), but in the lower section the average hole size was 12.5" (maximum 15").

PORE PRESSURE

The formation pore pressure was estimated to be normal at 8.6-8.7 ppg EQD. No indicators of abnormal pore pressure were detected in this interval. The mud density while drilling was 9.3 - 9.4 ppg.

Lithology Summary

Depth (m) Interval	Lithology	ROP (ft/hr) max	ROP (ft/hr) avg	GAS (units) max	GAS (units) avg
2786 - 2886	Sandstone, minor siltstone, claystone and coal	100	40	10	3
2886 - 2962	Claystone, siltstone, minor coal	20	10	27	3
2962 - 3066	Siltstone and sandstone, minor claystone, coal and volcanics	100	15	24	5

BIT DATA

Table #1

BIT#	SIZE	TYPE	JETS	DEPTH	DEPTH	BIT	BIT	AVG ROP	WOB	RPM	TORQUE kft-lb	BIT	CONDITION
	inch			IN	OUT	DIST	TIME	ft/hr	klbs		avg to max	REVS	T : B : G
NB14	12.25	SMITH F2 CE	3x13,1x8	8420	9149	729	40.5	18.0	40-45	85-90	2.7 - 7.2	212400	2 2 4
RR8.1	8.5	DB CD 502	1" TFA	9149	9210	61	2.1	29.0	3-11	55-95	2.8 - 5.3	11100	15% worn
NB15	12.25	SMITH F2	3x14	9210	10059	849	66.6	12.7	40-44	85-90	2.7 - 6.2	364000	2 8 0
NB16	12.25	SMITH F2	3x14	10159									

HYDRAULICS DATA

Table #2

BIT#	SIZE	START DEPTH	JETS	FLOW IN	SPM	PUMP PRESS	MUD WT.	ECD	PV/YP	ANNULAR VELOCITIES ft/mn				JET VEL	BIT PRESS	HHP	IMPACT FORCE
		feet		gpm		psi	ppg	ppg		riser	pipe	collar	crit	ft/sc	psi/ %	hp	lbs
NB14	12.25	8420	3x13,1x8	611	120	2860	9.3+	9.4	21/13	46	120	174	313	448	1664/58	593	1316
RRB8.1	8.5	9149	3x21 eq	190	38	360	9.3	9.4	24/14	14	37	54	334	61	31/15	3	56
NB15	12.25	9210	3x14	615	124	2950	9.3	9.4	25/18	46	121	175	387	438	1610/55	578	1311

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GEOLOGICAL-ENGINEERING REPORT No.6 — 11th Oct - 17th Oct 1985

Tilana No.1 / AMOCO AUSTRALIA — 10059 - 10998ft

EXLOG UNIT 216 / DIAMOND M "EPOCH" — 3066 - 3352m

Report by : G.Hodge, D.New

OPERATION SUMMARY

NB#16 drilled to 3311.7m where bottoms up were circulated, a survey dropped (0.75 deg) and the bit pulled due to high bit hours. Negative flow checks were made at 3068.5m, 3081m, 3165m, 3176m, 3210m and 3221m. Bottoms up were circulated at 3178m with no shows. At 3216m returns were circulated for 20 min and a survey dropped (dev = 0.75 deg.). Minor drag of 20klbs was recorded from stand 34 (bit depth 2340m) on the trip out.

NB#17 was run in and tight sections at 2300 - 2315m, 2577 - 2590m, 2798 - 2813m, 2836 - 2859m, 2865 - 2877m, 2877 -2880m and 2895 - 2914m had to be reamed. The drill-string was stuck at 2743m and in the interval 2865 - 2877m. The mud density was increased to 9.5ppg while working the stuck pipe at 2865 - 2877m. Several high viscosity and high density mud slugs were pumped to clean the hole. No significant increase in cuttings was associated with these pills. After freeing the pipe the trip in continued to 3288m with the section 3288 - 3311.7m being reamed prior to drilling ahead. The trip gas was 40u. At 3352m a wiper trip was made, which gave drag to 90klb at approximately 2550 - 2520m. The tight spot was reamed.

The rig operation at 2400hrs 17th October 1985 was completing the wiper trip.

GEOLOGICAL-ENGINEERING REPORT No.6 cont'd ....

HOLE CONDITION

The hole condition, over the interval 3066 - 3311.7m (10059 - 10865'), was generally very good, with carbide and other lag data indicating an average hole diameter of 12.9". Minor drag of up to 20 klbs was noted at approximately 2340m on the trip out at 3311.7m. Tight hole problems, probably due to the volcanic sections collapsing, meant several sections below the volcanics at 2000m-2250m had to be heavily reamed on the trip in at 3311.7m. Drag to 90klb occurred on the wiper trip at 3352m. The average hole diameter from carbide data following the stuck pipe and reaming had increased to 13.4".

PORE PRESSURE

The formation pore pressure was estimated to be normal at 8.6-8.7 ppg EMD. No indicators of abnormal pore pressure were detected while drilling this interval. The only large cavings followed trips and reaming. The mud density while drilling was 9.3 - 9.4 ppg to 3312m and was then increased to 9.5 - 9.6 ppg while reaming.

Lithology Summary

Depth (m) Interval	Lithology	ROP (ft/hr) max	ROP (ft/hr) avg	GAS (units) max	GAS (units) avg
2962 - 3114	Siltstone and sandstone, minor claystone, coal and volcanics	100	8	40	6
3114 - 3164	Volcanics	25	12	10	5
3164 - 3340	Volcanics with minor siltstone, sandstone and coal	50	12	128	12

The volcanics seen below 3114m appear to have been dominantly extrusive (tuffaceous) flows and intrusives.

329456

BIT DATA

Table #1

BIT#	SIZE inch	TYPE	JETS	DEPTH IN	DEPTH OUT	BIT DIST	BIT TIME	AVG ROP ft/hr	WOB klbs	RPM	TORQUE kft-lb avg to max	BIT REVS	CONDITION T : B : G
NB16	12.25	SMITH F2	3x14	10059	10865	806	71.8	11.2	40-45	85-90	2.7 - 5.0	378000	4 6 0
NB17	12.25	SMITH F2	3x14	10865	In hole								

HYDRAULICS DATA

Table #2

BIT#	SIZE	START DEPTH feet	JETS	FLOW IN gpm	SPM	PUMP PRESS psi	MUD WT. ppg	ECD ppg	PV/YP	ANNULAR VELOCITIES ft/mn riser	pipe	collar	crit	JET VEL ft/sc	BIT PRESS psi/ %	HHP hp	IMPACT FORCE lbs
NB16	12.25	10059	3x14	617	124	2910	9.3	9.5	27/21	46	121	176	432	439	1600/55	576	1304
NB17	12.25	10865	3x14	In hole													

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GEOLOGICAL-ENGINEERING REPORT No.7 — 17th Oct - 24th Oct 1985

Tilana No.1 / AMOCO AUSTRALIA — 10998ft - 12292ft

EXLOG UNIT 216 / DIAMOND M "EPOCH" — 3352m - 3746.6m

Report by : D.New, T.Fell

OPERATION SUMMARY

A wiper trip was made at 3352m with up to 90klbs drag being recorded and the interval 2550m - 2520m being reamed on the trip out. Further tight hole was noted on the trip in with up to 90klbs drag being recorded and the interval 2870m - 2900m being reamed, however tight hole, noted between 2685m and 2679m, did not require reaming. During the wiper trip one of the nozzles became blocked and drilling continued at reduced pump flow. The wiper trip gas was 2u (0.04%). At 3426m a negative flow check was made. At 3456m the torque increased and the rate of penetration decreased to less than 1m/hr, bottoms up were circulated, a survey dropped (Dev =0.75 deg) and the bit pulled. No hole problems occurred on the trip.

After testing the stack, NB#18, a SMITH F3, was run with the last 2 singles being washed to bottom. Between 3530m and 3570m gas values indicated that pore pressure had increased to an estimated maximum of 9.4ppg EMW. Occasional high torque, noted on this bit run was probably due to fractured volcanics caving. Up to 50klbs drag was noted while making a connection at 3665m and a high vis. pill circulated with no significant change in the cuttings observed. At 3694.3m bottoms up were circulated, a survey dropped (dev = 1.25 deg) and the bit pulled due to bit hours and low rate of penetration.

NB#19, a SMITH F2, was run in with the last two singles being washed to bottom (trip gas 65u). Tight hole to 80klbs was noted on the connection at 3718m. A steady increase in ROP began at 3741 and continued to 3746m where returns were circulated. The increased ROP was due to a sandstone and the bit was pulled to cut core No.3

Current operations as at 24:00 hrs 24/10/85 is POOH with NB#19.

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HOLE CONDITION

The general hole condition over the interval 3352m - 3746m was good with carbide and other lag data indicating that the average hole diameter was 12.9". However due to possible channelling effects in the annulus, allowing gas and cuttings to bypass larger hole washouts, it is possible that the actual average hole size will be larger than this. Surveys indicated deviations of Ø.75 deg at 3456m and 1.25 deg at 3694m.

Tight hole recorded on the wiper trip at 3552m was probably due to either fractured volcanics collapsing or to clays in the tuffaceous sediments swelling slightly. High torque was recorded intermittently between 3352m and 3746m and was often sufficently high to necessitate pulling off bottom and working the string. Tight hole was also noted on connections at 3618m, 3694m and at 3718m with a high vis. pill being circulated at 3694m. This did not significantly increase the amount of cutting on bottoms up.

PORE PRESSURE

Pore pressure was normal at 8.7 ppg EMW to 353Øm where it appeared to increase to an estimated maximum of 9.3 - 9.4 ppg EMW. This was indicated by the following:

1) Connection gases were seen at 3542m (16u), 3551m (18u), 3561m (44u) and 3570m (30u).
2) Background gas increased from 2 - 4u to over 25u and significant gas peaks of up to 160u were seen from coals.
3) Gas values were very slow to decrease after peaks.
4) A slight increase in the amount of splintery cavings and a moderate increase in the amount of coal cavings was noted.

The abnormal pressuring appeared to be local and restricted to carbonaceous rich sediments between 3530m and 3570m, and was probably caused by the rapid burial of organic rich sediments by impermeable basalts and tuffs.

It is unlikely that this abnormal pressuring will cause any serious hole problems and pore pressure appears to have returned to normal (8.7 ppg) below 3570m.

Lithology Summary

Depth (m) Interval	Lithology	ROP (ft/hr) max	ROP (ft/hr) avg	GAS (units) max	GAS (units) avg
334Ø - 3552	Volcanics with minor siltstone, sandstone and coal	5Ø	12	128	12
3552 - 3582	Siltstone and sandstone with common coal.	45	15	16Ø	5Ø
3582 - 3652	Volcanics with minor siltstone and coal	35	12	6Ø	1Ø
3652 - 3683	Dolerite	25	15	17	5
3683 - 3738	Volcanics with minor siltstone.	2Ø	1Ø	7	4
3738 - 3747	Sandstone	31	25	9	7

The volcanics seen in this section appear to be dominantly extrusive tuffs with common flows (basalt) and occasional intrusives (dolerite).

GEOLOGICAL-ENGINEERING REPORT No.7 cont'd....

BIT DATA

Table #1

BIT#	SIZE inch	TYPE	JETS	DEPTH IN	DEPTH OUT	BIT DIST	BIT TIME	AVG ROP ft/hr	WOB klbs	RPM	TORQUE kft-lb avg to max	BIT REVS	CONDITION T : B : G
NB17	12.25	SMITH F2	3x14*	10865	11342	477	41.9	11.4	42-46	85-90	3.4 - 7.8	227100	8 6 8
NB18	12.25	SMITH F3	3x14	11342	12120	780	64.3	12.1	40-48	80-95	3.8 - 7.8	331000	5 5 0
NB19	12.25	SMITH F2	3x14	12120	12292	172	14.6	11.8	40-45	85-90	3.5 - 7.6	76590	

HYDRAULICS DATA

Table #2

BIT#	SIZE	START DEPTH feet	JETS	FLOW IN gpm	SPM	PUMP PRESS psi	MUD WT. ppg	ECD ppg	PV/YP	ANNULAR VELOCITIES ft/mn riser	pipe	collar	crit	JET VEL ft/sc	BIT PRESS psi/ %	HHP hp	IMPACT FORCE lbs
NB17	12.25	10865	3x14*	473	95	3010	9.6	9.7	28/23	36	93	135	447	505	2185/73	603	1186
NB18	12.25	11342	3x14	595	120	3000	9.8	9.9	24/22	45	114	169	420	423	1568/51	554	1277
NB19	12.25	12120	3x14	600	121	3020	9.8	10.0	23/21	45	118	171	448	428	1609/53	564	1312

* NB17 one nozzle blocked after wiper trip.

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GEOLOGICAL-ENGINEERING REPORT No.8 — 24th - 31st Oct 1985

Tilana No.1 / AMOCO AUSTRALIA — 12292 - 12796ft

EXLOG UNIT 216 / DIAMOND M "EPOCH" — 3746.6 - 3900.3m

Report by : T.Foong , G.Hodge

OPERATION SUMMARY

NB#19 was pulled with no hole problems being encountered. The deviation was 2 degrees.

Bit #8 was rerun to cut Core #3, which was cut from 3746.6 - 3752m, the recovery was 100%. The trip gas was 24u.

NB#20 was run in and drilled the cored rat-hole prior to drilling ahead. Minor drill-breaks occurred at 3782 - 3784m and 3789 - 3792m. Drag to 80 - 100 klb was recorded on the connection at 3807m and 40 klb on the connection at 3832m. Minor drillbreaks between 3846 and 3865m gave a maximum gas of 26u in sandstone at 3854m. The well was drilled to 3900.3m (12796') and returns circulated prior to running wireline logs. Drag to 60 klb was recorded while circulating. A wiper trip was run to 3617m, drag was minor at 10 - 15 klb. There was 4.5m of fill on bottom, the trip gas was 7u. After reaming the fill the hole was repeatedly circulated and drag to 100 klb was recorded. The mud weight was increased from 9.7 - 9.9 ppg while circulating. After running a multi-shot survey the bit was pulled. Drag on the trip out was mostly minor with 60 klb at one spot. The deviation at 3888m was 2.3 degrees.

Wireline logs were then run as follows: ISF-MSFL-BHC-GR-SP; LDL-CNL-GR; HDT; WST; CST; RFT. No gas or oil was recovered from the RFT, 4.75 litres of mud filtrate was recovered.

NB#21 was run in and the mud was conditioned at the casing shoe. Tight spots at 3402m and 3630m had to be reamed on the trip in. After reaming from 3879m the drill-string became stuck with the bit at 3898m, the pipe was worked free and the hole was circulated. The mud density was raised to 10.0 ppg and consistantly high torque, and drag to 150 klb, was recorded while reaming and circulating. The trip gas was approximately 100u.

The rig operation at 2400 hrs 31 Nov. 1985 was circulating with the well at 3900.3m.

GEOLOGICAL-ENGINEERING REPORT No.8 cont'd ....

HOLE CONDITION

The general hole condition over the interval 3746 - 3900.3m was good with carbide and gas peaks indicating the average hole diameter to be aproximately 13". However, due to possible channelling effects in the annulus, it is possible that the actual average hole size was larger. Surveys indicated deviations of 2.0 deg at 3747m and 2.3 deg at 3888m. Tight hole recorded while circulating at 3900.3m was probably due to fractured volcanics collapsing. The connections at 3807m and 3832m were tight, with up to 100 klb and 40 klb of drag being recorded respectively. Tight hole also occurred when running in NB#21 and when near bottom, again probably due to the volcanics collapsing, but maybe also due to a siltstone bed at 3875m causing the stabilizer to hang up. Some splintery siltstone cavings, to 50x13mm, were noted on the first circulation from bottom at 3900m but were not noted in later circulations.

The average open hole diameter, from the wireline logs, for the interval 2850 - 3900m was 14".

PORE PRESSURE

No abnormal pore pressure indicators were recorded while drilling this interval and the estimated formation pore pressure was 8.7 ppg EMD. The mud density while drilling was 9.7 - 9.9 ppg.

Lithology Summary

Depth (m) Interval	Lithology	ROP (ft/hr) max	ROP (ft/hr) avg	GAS (units) max	GAS (units) avg
3683 - 3900	Dominantly volcanics with siltstone, sandstone and coal	75	12	26	6

BIT DATA

Table #1

BIT#	SIZE	TYPE	JETS	DEPTH IN	DEPTH OUT	BIT DIST	BIT TIME	AVG ROP	WOB	RPM	TORQUE	BIT	CONDITION
	inch			ft	ft	ft	hrs	ft/hr	klbs		kft-lb avg to max	REVS	T : B : G
NB19	12.25	SMITH F2	3x14	12120	12292	172	14.6	11.8	40-45	85-90	3.5 - 7.6	76590	2 3 0
RR8.2	8.5	DB CD 502	1 sq" TFA	12292	12310	18	4.9	3.7	10-30	60-120	3.0 - 5.8	29700	70% worn
NB20	12.25	SMITH F2	3x14	12310	12796	486	40.1	12.1	40-46	85-95	4.5 - 7.5	216000	3 6 4

HYDRAULICS DATA

Table #2

BIT#	SIZE	START DEPTH	JETS	FLOW IN	SPM	PUMP PRESS	MUD WT.	ECD	PV/YP	ANNULAR VELOCITIES ft/mn				JET VEL	BIT PRESS	HHP	IMPACT FORCE
		feet		gpm		psi	ppg	ppg		riser	pipe	collar	crit	ft/sc	psi/ %	hp	lbs
NB19	12.25	12120	3x14	600	121	3020	9.8	10.0	23/21	45	118	171	448	428	1609/53	564	1312
RR8.2	8.5	12292	3x21 eq	250	50	700	9.8	9.9	19/16	19	49	71	362	80	56/8	8.2	102
NB20	12.25	12310	3x14	600	121	2900	9.7	9.8	19/16	45	118	171	339	427	1580/54	553	1286

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GEOLOGICAL-ENGINEERING REPORT No.9 — 31st Oct - 7th Nov 1985

Tilana No.1 / AMOCO AUSTRALIA — 12796ft - 10865' (P.B.)

EXLOG UNIT 216 / DIAMOND M "EPOCH" — 3900.3m - 3311.6m (P.B.)

Report by : T.Foong , D. New

OPERATION SUMMARY

After circulating a high vis pill further attempts were made to get back to bottom with the interval 3867m - 3900.2m (12785' - 12796') being extensively reamed. It then became impossible to rotate on bottom and the sting was stuck for 2.5hrs and had to be jared free. The mud was further treated with the weight being increased and kwik seal and gilsonite being added. It was then decided to plug back and the bit pulled.

RIH open ended to 3878m (12723') and set first cement plug. POOH to 3554.6m, circulate bottoms up, with no visible cement returns, and set the second cement plug. POOH, laying down excess drillpipe. RIH with RRB#26, a SMITH F2 and dress cement from 3261m (10699') to 3315m (10875'), circulate, and POOH.

268 joints of N-80, 47lb/ft, 9.625' casing were then run and cemented with the shoe at 3311.6m (10865'). The BOP's were sucessfully tested as per Amoco's requirements, the 8.5" collars laid down and a SMITH JD3 8.5" run with a casing scraper. The casing scraper was worked from 2990m - 3185m (9810' - 10450'), bottoms up circulated and the casing displaced with seawater. The mud pits were dumped and a completion fluid mixed and used to displace the seawater in the casing. After POOF a wireline CBL was run indicating a good to fair bond over the interval 2585m - 2885m (8481' - 9465') and a poor bond over the interval 2885m - 3241m (9465' - 10633')

The test tools were made up for DST No.1 and run in the hole but when pressure tested the drillstring it was found to be leaking and the string was pulled, pressure testing every 10 stands. A washout was found on the 29th stand out and the damaged drill pipe replaced.

Current operation as at 24:00 hrs 7/11/85 is RIH for DST No.1.

HOLE CONDITION

The general hole condition over the interval 3746 - 3900.3m was good with carbide and gas peaks indicating the average hole diameter to be aproximately 13". However, due to possible channelling effects in the annulus, it is possible that the actual average hole size was larger. Surveys indicated deviations of 2.0 deg at 3747m and 2.3 deg at 3888m. Tight hole recorded while circulating at 3900.3m was probably due to fractured volcanics collapsing. The connections at 3807m and 3832m were tight, with up to 100 klb and 40 klb of drag being recorded respectively. Tight hole also occurred when running in NB#21 and when near bottom, again probably due to the volcanics collapsing, but maybe also due to a siltstone bed at 3875m causing the stabilizer to hang up. Some splintery siltstone cavings, to 50x13mm, were noted on the first circulation from bottom at 3900m but were not noted in later circulations.

The average open hole diameter, from the wireline logs, for the interval 2850 - 3900m was 14".

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Casing/Cementing

Table #1

Hole		Casing				Cement			
epth M	Size inches	Depth M	OD/ID inches	# jts	Weight ppf	# sx	Type	Slurry density	Remarks
3901	12.25	Plug#1				560	Class G w/- 2.5% gel,0.4% CFR2 and 0.12% HR-12	12.8	Plug back prior to testing
3554	12.25	Plug#2				630	Class G w/- 2.5% gel,0.75%CFR2 0.8% Halad 22	12.8	
3314	12.25	3311.6	9.62/ 8.68	268	47	630	Class G w/- 2.5% gel,0.75%CFR2 0.8% Halad 22	12.8	Cement 9.625" casing. Lead slurry
						1500	Class G w/- 35% silica flour 0.75% CFR2,0.8% Halad 22, 0.4% HR-12	15.8	Tail slurry

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GEOLOGICAL-ENGINEERING REPORT No.10 — 7th Nov - 15th Nov 1985

Tilana No.1 / AMOCO AUSTRALIA — 10618' (P.B.)

EXLOG UNIT 216 / DIAMOND M "EPOCH" — 3236.3m (P.B.)

Report by : D. New

OPERATION SUMMARY

Finish RIH with test tools on drill pipe. Set packer at 3139.7m (10,301'), rig up and test surface equipment. Open LPR-N valve and run in with gauge rings but could not get below 3038m (9967'), with 1.687" gauge rings. Rig down surface equipment and POOH with test string. 1.5m (5') of compacted pipe scale was found at the bottom of the 6.5" drill collars and from the top of the LPR valve.

Redress Haliburton test tools and run in hole with test string but could not get packers through BOP's. Change out packers and run in hole but could not get a pressure test on the test tools, POOH and find leak in Full-Flo safty valve change out O-ring but still could not get a succesfull pressure test. Test RTTS sucessfully, run in with 6.5" drill collars and slip joint and find leak in #2 slip joint which waschanged out. Run in hole with test string and set packer at 3139.7m (10,301'), rig up and pressure test surface lines. Open LPR-N tester and run in with Otis 2.125" gauge ring but could not get below LPR-N tester, POOH with 2.125" gauge ring and run in with 2.0" gauge ring which had to be jarred down from the LPR-N tester untill out of the tail pipe. POOH with Otis gauge ring and run in with perforating guns. Could not get a corralation between wireline depths and drill pipe depths, POOH with perforating gun and run in with CCL-GR for correlation but GR tool failed. POOH and repair GR tool, run in hole and get corralation. Run in with perforating gun and, after waiting on daylight, perforate the interval 3179m - 3185m (10,429 - 10449.3') at 4 shots/ft with 0 deg phasing. However when perforated the annulus pressure flashed from 1420psi to 1800-1900psi and then fell to 0psi and the fluid in the annulus droped by the volume of the empty drill pipe. POOH with schlumberger and find that the CCL tool, perforating gun, 4 sinker bars and some wireline had been left in the hole. Unseat RTTS packer reverse circulate drillstring contents, rig down surface equipment and POOH with test string. It was found that the APR-M2 was plugged with debris and had sheared the wireline.

Make up Haliburton test tools and run in for DST No.2. Set packer at 3137.4m (10,294') and open well with no flow. Run in with Otis CCL and found LPR-N valve still closed. All attempts to open this failed and after reverse circulating the seawater cushion the test string was pulled.

After dressing the test tool, run in for DST No.3. The packer was set at 3137.4m (10294') and the top of the water cushion at 917.4m (3010'). The well was opened with no flow and it was decided to reperforate. Run in with perforating gun but could not get below 3035m (9958'). Otis 2" and 2.125" gauge rings were then run to 3185.0m (10,450') with no problems. Run in with perforating gun and reperforate the interval 3179m - 3185m (10,430 - 10450'). Still no observable flow from well. Run in with CCL and pressure gauge and obtain a pressure gradient, then run in with bottom hole sampler and obtained a sample from 2286m (7,500'). No hydrocarbons were noted from the sampler. The APR-A valve was sheared and the drillstring contents reverse circulated. No hydrocarbons, CO2 or H2S were recorded while reversing. Mud weight and mud resistivity indicated that only the seawater cushion was recovered from the drillpipe.

Current operation, as at 24:00 hrs 14/11/85 is reverse circulating the casing contents.

TEST RESULTS

DST No.1: Misrun, could not get perforating gun past collars.
DST No.1A: Misrun, APR valve sheared.
DST No.2: Misrun, LPR-N valve failed to open.
DST No.3: No hydrocarbons recovered.

DST N.3 Pressure Data.

Gauge depth:	3131.9m (10276')	3131.9m (10276')
Initial Hydrostatic:	4724.0 psi	4733.0 psi
1st Flow, Initial Pr.:	3148.2 psi	3125.0 psi
Final Pr.:	3179.1 psi	3183.3 psi
1st Shut in Pr.:	3407.5 psi	3387.5 psi
2nd Flow, Initial Pr.:	3209.9 psi	3193.8 psi
Final Pr.:	3308.7 psi	3300.0 psi
Final Shut in Pr.:	4447.6 psi	4402.6 psi
Final Hydrostatic:	4730.1 psi	4757.8 psi

Note: The very small pressure build up during the main flow period indicates that the formation is very tight.

Recovery: No oil to surface. No gas to surface. Only seawater from the cushion was recovered.

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GEOLOGICAL-ENGINEERING REPORT No.11 — 15th Nov - 21st Nov 1985

Tilana No.1 / AMOCO AUSTRALIA — 10420' (P.B.)

EXLOG UNIT 216 / DIAMOND M "EPOCH" — 3176m (P.B.)

Report by : T.Foong

OPERATION SUMMARY

When completed reverse circulating the casing contents after DST#3, the test tool was POOH and laid down. A EZSV plug was run in with wireline and set at 3175.9m (10420'). Open ended pipes were run in and a 100 sx. of class G. cement was squeezed at 20 bbl/min decreasing to 0.25 bbl/min at 5000 psi. The tubing contents was reverse circulated out and the string POOH. A bit run with a casing scrapper was RIH and dressed cement at 3168.5m (10396'). Bottom ups was circulated and mud conditioned prior POOH.

The test tools were made up and run in for DST No.4 with packer set at 3001.5m (9848'). Otis gauge rings were run in without problem but the Schlumberger's perforating gun got stuck and was broken while attempting to free tool. POOH with wireline and Otis fishing tool was run in to fish for perforating gun without success. The test string was then pulled. Haliburton tools and all rabit collars were dressed and cleaned.

The test tools were again make up and run in for DST No.4. Packer was set at 301.5m (9848'). After perforation at interval 3071m (10075') - 3075m (10088') The well was opened initially with a very weak, intermittant bubbles at the which ceased rapidly. It was decided then to perforate the next zone at interval 3042m - 3048m (9980'-10000') but the tool was unable to get below 2950m. The tool was POOH and dressed for a second attempt. After perforation, the well was opened with no flow. Run in with Otis HP CCL HB and samples were recovered from interval 3071m-3075m (see below for test result). Otis CCL HP was run in for more pressure readings. Otis tools were then rig down and the drillstring contents reversed circulated and the string POOH. Maximum gas recorded while circulating was 5.26%; also 6% of Co2 was recorded. After a squeeze job was done over the two perforated zones, open ended drillpipes were run in and the well plugged and abandoned on the 21st November 1985.

TEST RESULT

DST No.4.: No hydrocarbon recovered

DST N.4 Pressure Data.

Gauge depth:	9829.83	9829.83
Initial Hydrostatic:	4493.8	4515.6
1st Flow, Initial Pr.:	2558.3	2906.9
Final Pr.:	2892.7	3775.1
1st Shut in Pr.:	3723.4	3775.1
2nd Flow, Initial Pr.:	2892.7	2906.9
Final Pr.:	3822.2	3825.1
Final shut in Pr.:	4203.8	4220.3
Final Hydrostatic.:	4493.9	4515.6

Chromatograph analysis of gases recovered from Otis HP CCL HB tool:

gas sample
C1 = 99 ppm 86.5822%
C2 = 15 ppm 13.4178%

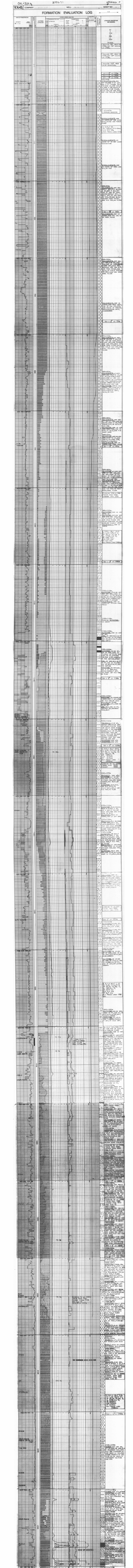
*Not enough gas sample were obtained for H2S and Co2 analysis.

dissolve gas sample obtained from mud sample through blender
C1 = 109 ppm 82.5698%
C2 = 15 ppm 11.6328%
C3 = 8 ppm 5.7974%

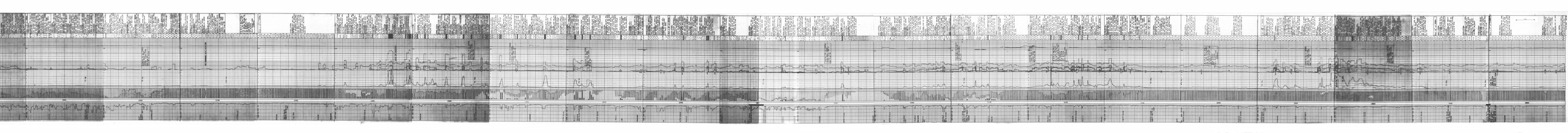
*Not enough sample were obtained for H2S and Co2 analysis.

Recovery: No oil to surface. No gas to surface.
Only traces of gas and dissolved gas form mud sample were recovered from Otis tool HP CCL HB.

APPENDIX F. FORMATION EVALUATION LOG



FORMATION EVALUATION LOG



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APPENDIX G. DRILLING PROGRESS GRAPHS
DAILY REPORTS

126 5-69 OR-331A

(1)

DRILLING GRAPH

5 cm

DRILLING TIME (DAYS)

0 10 20 30 40 50 60 70 80

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Bbls. Mud
Bbls. Water
Cement
Csg. Press.
Coring
Drill Pipe
Drill Stem Test
Fish For
Gas Cut Mud
Oil Cut Mud
Plug Back
Repair Rig
Sidetrack
Tbg. Press.
Loss of Circ.

WELL DEPTH (THOUSANDS OF FEET)

0 1 2 3 4 5 6 7 8 9 10 11 12

DRILLING PROGRESS IN FEET/DAY

FIELD T-14P WELL NAME Tilana #1

PROJECTED T.D. 7762' FORMATION Top of Cretaceous

MUD Seawater ; ML TO 5690'

Freshwater/Gel ; 5690' TO 7762'

CSG. 30" @ 648' ; 13-3/8" @ 5690'

20" @ 1333' ; 9-5/8" @ 7762'

RIG Epoch CONT'R. Diamond M

GRND. EL. 73' RDB. WL. Sea Level

WL. MUDLINE 260' RDB. ML. 333'

EST. COST (GROSS) $7,306,250 U.S.

REMARKS

All Depths are RKB

30" Casing

20" Casing & BOP

Open 12¼" Pilot Hole to 17½"

13-3/8" Casing

9-5/8" Casing, DST, P & A.

VR=0.57

VR=4.93

VR=3.53

VR=0.73

VR=0.62

VR=0.69

VR=0.74

VR=0.53

VR=0.92

VR=0.94

VR=1.57

DATE

SEP 3 SEP 13 SEP 23 OCT 3 OCT 13 OCT 23 NOV 2 NOV 12 NOV 22

OR- 331 A 329474 TILANA #1 (2)

5 cm

VITRINITE REFLECTENCE	PROGNOSED Stratigraphy	PROGNOSED Lithology	DRILLED Stratigraphy	DRILLED Lithology	CASING	Depth m RKB	Depth ft RKB
	TORQUAY GROUP		TORQUAY GROUP	NO RETURNS	30" 198m; 20" 406m; 30" 203m; 20" 412m; 13 3/8" 1734m; 13 3/8" 1662m	0	0
0.57	DEMONS BLUFF FM.		Demons Bluff Fm.			500	1000
4.93	EASTERN VIEW COAL MEASURES		EASTERN VIEW COAL MEASURES			1000	2000
3.53						1500	3000
0.73						2000	4000
0.62						2500	5000
0.69						3000	6000
0.74						3500	7000
0.83						4000	8000
		REVISED PTD 3050m			3050 m	4500	9000
0.92						5000	10000
0.94						5500	11000
1.59						6000	12000

20-5 ± 1 Ma

Middle M. diversus

Lower M. diversus

Upper L. balmei

Lowermost L. balmei

L. balmei

T. longus

OR-381A 329475 (3)

WELL: TILANA #1 DRILLED FOR: Amoco

PERMIT: T/14P BASIN: Bass

WELL TYPE: Wildcat

CONTRACTOR: Diamond M

DRILLING VESSEL OR RIG: Diamond M 'Epoch'

FINAL CO-ORDINATES: 39° 53' 36.7346" S
145° 58' 41.969" E

ELEVATION REFERENCE: WD _____ KB _____

	PROPOSED	ACTUAL (Hi/low)
SPUD DATE:	September 5	September 5
LOG AT:	Casing Pt, TD	Tert. units at 3600m
DRILLING TIME (Days):	47	82
COST:	US $7,306,250	US $10,679,635
OBJECTIVES (FM)/DEPTH(M):	EVCM	
TOTAL DEPTH (FM)/DEPTH (M):	2375m	3900m

STRUCTURE: N-trending anticline with four-way dip closure.

TESTS: DST 1 3179 - 3185 m
DST 2 3071 - 3075 m
DST 2A 3042 - 3048 m

Unable to obtain any formation fluids
formation damage suspected.

HYDROCARBON SHOWS: 3573-4 m - Very dull yellow flour
Gas shows

BOTTOMED IN (FM/AGE): Cret. volcanics RATING: ? Discovery

STATUS: P & A RIG RELEASED: 25 November 1985

(1)

OR-331A

329476 10.45

SEPTEMBER 4, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: D.B. WILKIE MC 4502
B.G. NEWTON MC 4703
CH-AUP-145-T-933.2-CWW/SCB/CDC

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-581-T-933.2-CWW/SCB/CDC

CC: AMOCO PRODUCTION COMPANY - HOUSTON TX: 020/236868237+
ROBERT L. BLANTON - ROOM NO. 2.490
ATTN: F.J. ALLEN, JR. - ROOM NO. 6.155
J.C. STRICKLAND - ROOM NO. 2.470
W.R. MOEHL - ROOM NO. 2.232
HO-AUP-407-T-933.2-CWW/SCB/CDC/GMK/BFW

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-116-T-933.2-CWW/SCB/CDC/GMK

DATE : 4 SEPTEMBER 1985
REPORT NO. : 1
PRESENT OPERATION : PREPARING TO RUN REMAINING ANCHORS.
OPERATIONS SUMMARY : TOW ONTO LOCATION - DROP NO. 6 ANCHOR ON BOTTOM AT 08:25 HRS. WITH 4110 FT. CHAIN OUT. RUN NO. 2 ANCHOR WITH 4150 FT. CHAIN OUT. INSTALL PIGGY BACK. RUN NO. 7 ANCHOR WITH 4110 FT. CHAIN OUT. RUN NO. 3 ANCHOR WITH 4000 FT. CHAIN OUT - RELEASED ATLAS VAN DIEMEN FROM TOW BRIDLE AT 1500 HRS. SET PIGGY BACK ON NO. 6. INSTALL PENDANTS ON NO. 4 AND NO. 5 ANCHORS. ATLAS VAN DIEMEN ATTEMPT TO SET PIGGYBACK ON NO. 3 ANCHOR. UNABLE TO COMPLETE DUE TO SEA STATE. W.O.W. BOATS ON REST PERIOD.

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE

OR-331A

329477

SEPTEMBER 5, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: D.B. WILKIE MC 4502
B.G. NEWTON MC 4703
CH-AUP-147-T-933.2-CWW/SCB/CDC

DEPARTMENT OF MINES
RECEIVED/SENT
-5 SEP 1985
10.45 AM/PM
OPERATOR ABA

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

10.45

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-590-T-933.2-CWW/SCB/CDC

CC: AMOCO PRODUCTION COMPANY - HOUSTON TX: 020/236868237+
ROBERT L. BLANTON - ROOM NO. 2.490
ATTN: F.J. ALLEN, JR. - ROOM NO. 6.155
J.C. STRICKLAND - ROOM NO. 2.470
W.R. MOEHL - ROOM NO. 2.232
HO-AUP-416-T-933.2-CWW/SCB/CDC/GMK/BFW

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-122-T-933.2-CWW/SCB/CDC/GMK

DATE : 5 SEPTEMBER 1985
REPORT NO. : 2
DAILY COST (USD) : 79,540 CUM. COST : 2,105,271
PRESENT OPERATION : BALLASTING DOWN RIG.
OPERATIONS SUMMARY : RUN AND SET ANCHORS, PLUS OR MINUS 6 M FROM LOCATION. TO BE CONFIRMED AFTER BALLASTING DOWN.

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

AAAA*
TASROK AA58276

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SEPTEMBER 6, 1985 OR-331A

RECEIVED 6 SEP 1985 11.30 OPERATOR

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: D.B. WILKIE MC 4502
B.G. NEWTON MC 4703
CH-AUP-150-T-933.2-CWW/SCB/CDC

329478

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-598-T-933.2-CWW/SCB/CDC

CC: AMOCO PRODUCTION COMPANY - HOUSTON TX: 020/236868237+
ROBERT L. BLANTON - ROOM NO. 2.490
ATTN: F.J. ALLEN, JR. - ROOM NO. 6.155
J.C. STRICKLAND - ROOM NO. 2.470
W.R. MOEHL - ROOM NO. 2.232
HO-AUP-422-T-933.2-CWW/SCB/CDC/GMK/BFW

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-123-T-933.2-CWW/SCB/CDC/GMK

DATE : 6 SEPTEMBER 1985
REPORT NO. : 2
DAYS FROM SPUD : 1
TD : 685 FT. (209 M)
PROGRESS : 342 FT. (104.5 M)
MUD PROPERTIES : MW - 8.8, VIS - 110, API FL - SEA WATER HI-VIS SWEEPS
DAILY COST (USD) : 85,300 CUM. COST : 2,190,571
PRESENT OPERATION : WIPER TRIP PRIOR TO RUNNING 30 IN. CASING
OPERATIONS SUMMARY : COMPLETE BALLAST RIG TO DRILLING DRAFT. POSITION RIG WITH ANCHORS AT DRILLING TENSION - TAKE FINAL POSITION READING LAT. 39 DEG. 53 MIN. 36.7346 SEC. SOUTH, LONG. 145 DEG. 58 MIN. 41.969 SEC. EAST. DISTANCE TO PROPOSED LOCATION 9 METERS, BEARING 141 DEGREES. MAKE UP T.G.B. RUNNING TOOL, RUN T.G.B. LAND SAME - RELEASE TOOL, POOH. MAKE UP SPUD BHA. R.I.H. WASH 343 FT. TO 357 FT. (104.5 M TO 108.8 M). DRILL AND OPEN HOLE TO 685 FT. (209 M). CIRC. AND SWEEP HOLE WITH 60 BBL HI-VIS PILL. T.V. UMBILICAL PARTED NEAR SURFACE - JUMP MINI-SUB TO RETRIEVE SAME. DISPLACE HOLE WITH HI-VIS MUD. DROP SURVEY - WIPER TRIP - FOUND T.V. UMBILICAL WRAPPED AROUND D.P. RECOVERED SAME. R.I.H.

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

SEPTEMBER 9, 1985

329479

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: D.B. WILKIE MC 4502
B.G. NEWTON MC 4703
CH-AUP-153-T-933.2-CWW/SCB/CDC

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-618-T-933.2-CWW/SCB/CDC

CC: AMOCO PRODUCTION COMPANY - HOUSTON TX: 020/236868237+
ROBERT L. BLANTON - ROOM NO. 2.490
ATTN: F.J. ALLEN, JR. - ROOM NO. 6.155
J.C. STRICKLAND - ROOM NO. 2.470
W.R. MOEHL - ROOM NO. 2.232
HO-AUP-428-T-933.2-CWW/SCB/CDC/GMK/BFW

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-125-T-933.2-CWW/SCB/CDC/GMK

SEPTEMBER 7, 1985

DATE : 7 SEPTEMBER 1985
REPORT NO. : 4
DAYS FROM SPUD : 2
TD : 685 FT (209 M)
PROGRESS : 0
MUD PROPERTIES : MW - 8.8, VIS -110, API FL - SEAWATER HI VIS SWEEP
LAST CASING : 30'' AT 667 FT (203 M),
DAILY COST (USD) : 203,494 CUM. COST :2,393,461
PRESENT OPERATION : DRILLING CEMENT
OPERATIONS SUMMARY : POH WITH 36'' HOLE OPENER. POSITION GUIDE BASE IN MOON POOL. RIG UP AND RUN 30'' CASING WITH INNER CEMENT STRING - MAKE UP RUNNING TOOL RUN AND SET PGB MADE UP CEMENT LINE CIRC WITH SEAWATER. TEST LINES - CEMENT 30'' W.O.C. BACK OUT RUNNING TOOL WASH HOUSING AND PGB. POH - LAY DOWN RUNNING TOOL W.O.C. MAKE UP 26'' B.H.A. RIH TAG CEMENT AT 653 FT (199 M)

OR-331A

SEPTEMBER 8, 1985

329479

DATE : 8 SEPTEMBER 1985
REPORT NO. : 5
DAYS FROM SPUD : 3
TD : 1365 FT (416 M)
PROGRESS : 680 FT (207 M)
MUD PROPERTIES : SEA WATER - HI - VIS SWEEPS
LAST CASING : 30'' AT 667 FT (203 M),
DAILY COST (USD) : 211,407 CUM. COST :2,604,868
PRESENT OPERATION : RUNNING 5'' D.P. STINGER INSIDE 20'' CASING.
OPERATIONS SUMMARY : TAG CEMENT AT 653 FT (199 M) DRILL SOFT AND FIRM CEMENT TO SHOE AT 667 FT (203 M) FIRM CEMENT TO 685 FT (209 M). DRILL 26'' HOLE 685' TO 925' (209 - 282 M) SURVEY - 0 DEG DRILL 26'' HOLE 925' TO 1365' (282 - 416 M) SWEEP HOLE WITH HI VIS PILL - DROPED SURVEY - PULLED TO 30'' SHOE. R.I.H. - WASH AND REAM TO BOTTOM CIRC WITH SEAWATER - SPOT 80 BBLS HI-VIS MUD SURVEY - WIPER TRIP - NO FILL. DISPLACE HOLE WITH 500 BBLS MUD SURVEY .5 DEG AND P.O.H. TO RUN CASING. RIG UP TO RUN CASING - RUNNING CASING.

SEPTEMBER 9, 1985

DATE : 9 SEPTEMBER 1985
REPORT NO. : 6
DAYS FROM SPUD : 4
TD : 1365 FT (416 M)
PROGRESS : 0
MUD PROPERTIES : SEA WATER
LAST CASING : 20'' AT 1353 FT (412 M),
DAILY COST (USD) : 104,522 CUM. COST :2,709,390
PRESENT OPERATION : TEST BOP
OPERATIONS SUMMARY : FINISH RUNNING 25 JTS 20'', 94 PPF, X-56 CASING CEMENT CASING WITH 2000 SACK CLASS 'G' CEMENT RUN BOP AND RISER. PRESSURE TEST BOP.

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE

OR-331A

OPERATOR

329480

SEPTEMBER 10, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: D.B. WILKIE MC 4502
B.G. NEWTON MC 4703
CH-AUP-156-T-933.2-CWW/SCB/CDC

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-625-T-933.2-CWW/SCB/CDC

CC: AMOCO PRODUCTION COMPANY - HOUSTON TX: 020/236868237+
ROBERT L. BLANTON - ROOM NO. 2.490
ATTN: F.J. ALLEN, JR. - ROOM NO. 6.155
J.C. STRICKLAND - ROOM NO. 2.470
W.R. MOEHL - ROOM NO. 2.232
HO-AUP-436-T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-128-T-933.2-CWW/SCB/CDC/GMK

DATE : 10 SEPTEMBER 1985
REPORT NO. : 7
DAYS FROM SPUD : 5
TD : 1528 FT (466 M)
PROGRESS : 163 FT (50 M)
MUD PROPERTIES : SEAWATER
LAST CASING : 20'' AT 1353 FT (412 M),
FCCT -15.3 PPG
DAILY COST (USD) : 83,149 CUM. COST :2,792,539
PRESENT OPERATION : REPLACE KELLY HOSE
OPERATIONS SUMMARY : TEST BOP AND CASING. DRILL OUT SHOE W/ 17-1/2'' BIT. RUN CCCT (LEAK OFF AT 15.8 PPG). DRILL FORMATION TO 1372 FT (418 M). RUN FCCT (LEAK OFF AT 15.3 PPG). POH. RIH WITH 12-1/4'' DRLG ASSY. DRILL TO 1528 FT (466 M). CHANGE OUT KELLY HOSE.

GEOLOGICAL REPORT

LITHOLOGIC SUMMARY

418-455M (1371'-1493')

BIOCLASTIC CALCARENITE: LT-MED GRY-TAN AND WHITE, DOM FOSS AND SHELL DEBRIS 0.1MM TO 2MM: CORAL, BRYAZOA, SPICULES, FORAMS, STROMATOLITES, PELECYPODS ALL UNCONSOL WITH MTRX MAT LOST/TR FREE GLAUC.

GAS SUMMARY

BACKGROUND GAS: ABSENT
CONNECTION GAS: ABSENT
TRIP GAS: ABSENT

MAX ROP: 101/M/HR (330') AT 458M (1503')
MIN ROP: 15/M/HR (50') AT 462M (1516')
AV ROP: 46/M/HR (150')

PRESSURE PARAMETERS

DXC: 0.25-0.91
SHALE.DENSITY: SHALE ABSENT
TEMP. OUT: 16DEG C (61 DEG F)
MW IN/OUT: 8.6/8.7 PPG (SEAWATER)
ESTIMATED PORE PRES: 8.7 PPG
FRAC GRADIENT: 20'' CSNG SHOE 412M (1353'): 15.8 PPG

REGARDS
C W WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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85-09-11 1229 ST *
TASROK AA58276
STBY BCAST 176199 CLG

85-09-11 1230 ST *
TASROK AA58276
STBY BCAST 176199 CLG

DEPARTMENT OF MINES
RECEIVED
11 SEP
12.45 PM
OPERATOR

SEPTEMBER 11, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: D.B. WILKIE MC 4502
B.G. NEWTON MC 4703
CH-AUP-158-T-933.2-CWW/SCB/CDC

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-629-T-933.2-CWW/SCB/CDC

CC: AMOCO PRODUCTION COMPANY - HOUSTON TX: 020/236868237+
ROBERT L. BLANTON - ROOM NO. 2.490
ATTN: F.J. ALLEN, JR. - ROOM NO. 6.155
J.C. STRICKLAND - ROOM NO. 2.470
W.R. MOEHL - ROOM NO. 2.232
HO-AUP-441-T-933.2-CWW/SCB/CDC/GMK/BFW

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-130-T-933.2-CWW/SCB/CDC/GMK

DATE	: 11 SEPTEMBER 1985
REPORT NO.	: 8
DAYS FROM SPUD	: 6
TD	: 3603 FT (1098 M)
PROGRESS	: 2075 FT (632 M)
MUD PROPERTIES	: MW -8.8 , VIS - 48, API FL -18.5
LAST CASING	: 20'' AT 1353 FT (412 M), FCCT - 15.3 PPG
DAILY COST (USD)	: 85,944 CUM. COST :2,878,533
PRESENT OPERATION	: DRILLING
OPERATIONS SUMMARY	: DRILL TO 1923 FT (586,M). SURVEY (.75 DEG). DRILL TO 2409 FT (734 M). SURVEY (.5 DEG). DRILL TO 2926 FT (891 M) SURVEY (.5 DEG). REPAIR SWIVEL. DRILL TO 3424 FT (1044 M) SURVEY (.5 DEG) DRILL TO 3603 FT (1098 M)

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GEOLOGICAL REPORT
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LITHOLOGIC SUMMARY

455-860M (1493'-2625') BIOCLASTIC CALCARENITE: LT TO M TAN TO GRY-WH, WITH ABUN FOSS FRAG - CORALS, BRYOZOA, SPICULES AND SHELL FRAG. ABUN PELL GLAUC BELOW 535M. INCR IN CLY MTRX BELOW 690M. ROCK GRDS TO A BIOCLASTIC CALCILUTITE BELOW 760M WITH AN INCR IN CLY CONTENT AND THE RARE APPEAR OF QTZ SLT AND VF SND.

800-1065M (2625'-3494') CALCAREOUS CLYST INTBD WITH CALC SHALE : M GRY-GRN, MOD TO V SFT, BLKY TO FIS, DOM V CALC BUT OCC TO TR CALC, ABUN MICRO FOSS FRAG, TR TO ABUN QTZ SLT ND VF SND.

GAS SUMMARY

MAX GAS: 6 UNITS (975M/3199') : C-1=331, C-2=5 PPM)
BACKGROUND GAS : 3 UNITS (C-1=200, C-2=2 PPM)
CONNECTION GAS : ABSENT
TRIP GAS : NO TRIPS

MAX ROP: 137M/HR (450') AT 532M (1745')
MIN ROP: 20M/HR (65') AT 1040M (3412')
AVG ROP: 37M/HR (120')

PRESSURE PARAMETERS

DXC: 0.75-1.07 (CALCARENITE-CLAYSTONE)
SHALE DENSITY: 'SHALE' TOO INCOMPETENT
TEMP (FLOWLINE): 33 DEG C (91 DEG F)
MW IN/OUT 8.6/8.8 PPG (ECD:9.0 PPG)
ESTIMATED PORE PRES: 8.7 PPG
FRAG GRAD (20'' SHOE AT 412M): 15.3 PPG

REGARDS
C W WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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85-09-12 1626 ST *
TASROK AA58276
AMDRIL AA176199

SEPTEMBER 12, 1985

DEPARTMENT OF MINES
RECEIVED/SENT
12 SEP 1985
4.45 AM/PM
OPERATOR

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: D.B. WILKIE MC 4502
B.G. NEWTON MC 4703
CH-AUP-162-T-933.2-CWW/SCB/CDC

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-640-T-933.2-CWW/SCB/CDC

CC: AMOCO PRODUCTION COMPANY - HOUSTON TX: 020/236868237+
ROBERT L. BLANTON - ROOM NO. 2.490
ATTN: F.J. ALLEN, JR. - ROOM NO. 6.155
J.C. STRICKLAND - ROOM NO. 2.470
W.R. MOEHL - ROOM NO. 2.232
HO-AUP-446-T-933.2-CWW/SCB/CDC/GMK/BFW

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-136-T-933.2-CWW/SCB/CDC/GMK

DATE : 12 SEPTEMBER 1985
REPORT NO. : 9
DAYS FROM SPUD : 7
TD : 4370 FT (1332 M)
PROGRESS : 767 FT (234 M)
MUD PROPERTIES : MW - 9.0, VIS - 48, API FL - 18.5
LAST CASING : 20'' AT 1353 FT (412 M),
FCCT - 15.3 PPG
DAILY COST (USD) : 100,052 CUM. COST :2,978,585
PRESENT OPERATION : DRILLING
OPERATIONS SUMMARY : DRILL TO 4240 FT (1292 M). TRIP FOR BIT. WASH AND REAM BRIDGE AT 3241 FT (988 M). DRILL 4240' - 4370'. SURVEYS: 3931 FT (1198 M) - .5 DEG, 4240 FT (1292 M) - .25 DEG. (9)

LITHOLOGIC SUMMARY

1065-1140M (3494' - 3740') : CALCAREOUS CLYST (80 - 100 PERCENT): GRY TO GRN, V SFT, BLKY TO SUB FIS, ABUN MICRO FOSS, OCC SLT, GLAUC 10-20 PERCENT TAN DOL, VHD, DNSE, BRIT BETWEEN 1130M AND 1135M.

1140-1185M (3740' - 3888') : INTERVAL OF INTBD SST, COAL, CLYST, SLTST AND LMST.
SST (70-100 PERCENT): CLR TO FRSTED, M TO C GR ANG TO SUB ANG, PR SRT, UNCONSOL DRLG RESID. CUTS ABSENT.
COAL (20-30 PERCENT, BEDS .5-1M THICK): BRNSH BLK TO BLK, V HD, RESINOUS TO GLOSSY, BLKY TO SUB CONCH FRAC, TR PY.
CLYST (20-30 PERCENT): GRN-TAN, V SFT, V CALC, MICROFOSS, TR SLT.
SLTST (TR- 10 PERCENT): MOD HD, V CALC, V CLYEY, ABUN MICROFOSS.
LMST (TR-10 PERCENT): RD-BRN, V HD, DNSE, BRIT, CRYPTOXTLN.

1185-1240M (3888' - 4068') : INTERVAL OF INTBD SST AND CLYST WITH MINOR LMST AND COAL.
SST (50-60 PERCENT): AS ABOVE.
CLYST (30-40 PERCENT): GRY-TAN, V CALC.
LMST (TR - 10 PERCENT): AS ABOVE
COAL (TR - 10 PERCENT): AS ABOVE (POSS SLOUGH).

1240-1305M (4068' - 4281') : INTERVAL TOPPED BY PUMICE, OBSIDIAN AND RHYOLITE WITH INTBD SST AND CLYST BETWEEN 1240-1245M THEN GRD TO OBSIDIAN THROUGH 1265M AND THEN AS RHYOLITE TO 1305M.

PUMICE: DK GRY, SUB METALLIC, V HD, BRIT, HIGHLY VESICULAR.
OBSIDIAN: MULTICOLORED, V PORPHYRIC TO GLASSY,

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GAS SUMMARY

BACKGROUND GAS: 4U (C-1=600, C-2=2 PPM)
MAX GAS (1165M/3822'): 19U (C-1=3600, C-2=5 PPM)

CONNECTION GAS: ABSENT

TRIP GAS (1292M/4239'): 32U (C-1=6000, C-2=6 PPM)

MAX ROP: 152M/HR (500')) AT 1141M (3743')
MIN ROP: 2.4M/HR (8') AT 1293M (4242')
AV ROP: 30M/HR (100')

PRESSURE PARAMETERS

DXC: 0.58 - 1.30 (SAND - VOLCANICS)
SHALE DENSITY: NO SHALE
TEMP (FLOWLINE) 39.4 DEG. C (103 DEG. F.)
MW IN/OUT: 9.0/9.0 PPG ECD: 9.2 PPG)

ESTIMATED PORE PRES: 8.7 PPG
FRAC GRAD (20'' SHOE AT 412M (1353'): 15.3 PPG

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

*
TASROK AA58276
AMDRIL AA176199

(10)

MESSAGE TELEX MESSAGE TELEX MESSAGE TELI

OR-331A

SEPTEMBER 13, 1985

329485

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO
ATTN: T.D. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-163-T-933.2-CWW/SCB/CDC

TX: 020/234991785+

BUREAU OF MINERAL RESOURCES
THE DIRECTOR
ATTN: J. WHITE

TX: AA62109

TASMANIAN DEPARTMENT OF MINES
ATTN: H. MURCHIE

TX: AA58276

MISC-AUP-645-T-933.2-CWW/SCB/CDC

CC: AMOCO AUSTRALIA PETROLEUM COMPANY - HOBART ATTN: W.C. COWAN
A8B-AUP-139-T-933.2-CWW/SCB/CDC/GMK

TX: AA58162

DATE	: 13 SEPTEMBER 1985
REPORT NO.	: 10
DAYS FROM SPUD	: 8
TD	: 1605 M (5267 FT)
PROGRESS	: 273 M (897 FT)
MUD PROPERTIES	: MW -9.1 , VIS - 42, API FL - 11
LAST CASING	: 20'' AT 412 M (1353 FT), FCCT -15.3 PPG
DAILY COST (USD)	: 86,126 CUM. COST :3,064,711
PRESENT OPERATION	: DRILLING
OPERATIONS SUMMARY	: DRILL TO 1417 M (4650 FT). CIRCULATE FOR SAMPLE. DRILL TO 1605 M (5267 FT) SURVEY AT 4957 FT (1511 M) - .25 DEG

GEOLOGICAL REPORT

LITHOLOGIC SUMMARY

1305-1398M (4281'-4586'): RHYOLITE (100PCNT): DOM TAN AND GRY-GRN BUT BECOMING DARKER GRN BELOW 1385M (ANDESITIC?), GLASSY GRNDMASS WITH ABUN GRY-TAN MICROSPHERULITES.

1398-1480M (4586'-4856'): INTERVAL DOM CLYST WITH 0.5-1 M THICK INTBD SST (THICKER SST AT 1408-10M AND 1412-17M) AND LMST ESP BETWEEN 1445-1480M.

CLYST (60-80PCNT): LT TO M TAN, V SFT, V HYDRATABLE, MOD CALC, TR SLTY AND SNDY, TR MICROFOSS.
SST: CLR TO FRSTD, V F, ANG, MODWSRT, UNCONSOL, TR FELD, GLAUC, MICA AND BK MAFICS.
LMST: LT TO M RD-TAN, V HD, DNSE, BRIT, CRYPTOXTLN, V SNDY, TR M GRN GLAUC.

1480-1545M (4856'-5069'): INTERVAL DOM CLYST WITH 0.5-1M THICK SST ESP AT 1500M, 1511M AND 1513M.
CLYST (80-90PCENT): DK TO M BRN, V SFT, MOD CALC, TR QTZ SLT AND V F SND, TR MICROFOSS FRAG, TR GLAUC AND BK MATICS.
SST: LT TAN TO TAN-WHT, V F GR, ANG, MOD W SRT, MOD SFT AND FRI, CLR TO FRSTD QTZ WITH MINOR FELD, TR GLAUC, LT TAN MOD CALC KAOLINITIC MTX, TR BK MAFICS, 15-25PC VIS POR.

GAS SUMMARY

BACKGROUND GAS: 5U (C-1 = 850, C-2 = 1 PPM)

MAX GAS (1410M/4626'): 11U (C-1 = 1560, C-2=9, C-3=2 PPM)

CONNECTION GAS: ABSENT

TRIP GAS: NO TRIP

MAX ROP: 137M/HR (450') AT 1413M (4636')
MIN ROP: 1.8M/HR (6') AT 1385M (4544')
AV ROP: 24M/HR (80')

PRESSURE PARAMETERS:

DXC: 0.95-1.45
SHALE DENSITY: ARGILLACEOUS FRAGS TOO INCOMPETENT
TEMP (FLOWLINE): 45 DEG C
MW IN/OUT = 9.1/9.1 PPG (ECD: 9.4 PPG)
ESTIMATED PORE PRES: 8.7 PPG
FRAC GRAD: 15.3 PPG (AT 20'' SHOE AT 412M (1353')

REGARDS
C W WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

17 SEP 1985
8:45 AM
OPERATOR AB

SEPTEMBER 16, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.D. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-165-T-933.2-CWW/SCB/CDC

329486

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-658-T-933.2-CWW/SCB/CDC

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-141-T-933.2-CWW/SCB/CDC/GMK

SEPTEMBER 14, 1985

DATE	: 14 SEPTEMBER 1985
REPORT NO.	: 11
DAYS FROM SPUD	: 9
TD	: 1662 M (5452 FT)
PROGRESS	: 56 M (185 FT)
MUD PROPERTIES	: MW - 9.2, VIS - 45, API FL - 8.0
LAST CASING	: 20'' AT 412 M (1353 FT), FCCT - 15.3 PPG
DAILY COST (USD)	: 85,045 CUM. COST :3,149,756
PRESENT OPERATION	: RIG DOWN SCHLUMBERGER
OPERATIONS SUMMARY	: DRILL TO 1662 M (5452 FT). SHORT TRIP TO SHOE. CONDITION HOLE FOR LOGS. RIG UP SCHLUMBERGER AND RUN ISF-BHC-GR-SP-CAL FROM 1662 M (5452 FT) TO 412 M (1353 FT)

SEPTEMBER 15, 1985

DATE	: 15 SEPTEMBER 1985
REPORT NO.	: 12
DAYS FROM SPUD	: 10
TD	: 1662 FEET (5452 METERS)
PROGRESS	: 0
MUD PROPERTIES	: MW -9.2, VIS - 41, API FL - 7.5
LAST CASING	: 20'' AT 412 METERS (1353 FEET), FCCT - PPG 15.3
DAILY COST (USD)	: 140,342 CUM. COST :3,290,098
PRESENT OPERATION	:OPEN HOLE
OPERATIONS SUMMARY	:MAKE UP 17.5''DRILLING ASSY. OPEN HOLE TO 17.5'' FROM 412 M (1353') TO 984 M (3227').

SEPTEMBER 16, 1985

OR-331A

DATE	: 16 SEPTEMBER 1985
REPORT NO.	: 13
DAYS FROM SPUD	: 11
TD	: 1662 METERS (5452 FT).
PROGRESS	: 0
MUD PROPERTIES	: MW -8.9 , VIS -42 , API FL - 9.5
LAST CASING	: 20'' AT 412 METERS (1353 FT), FCCT - 15.3 PPG
DAILY COST (USD)	: 85,075 CUM. COST :3,375,173
PRESENT OPERATION	:OPENING 12-1/4'' HOLE TO 17-1/2''
OPERATIONS SUMMARY	:OPENING 12-1/4'' HOLE TO 17-1/2'' HOLE FROM 983.6M (3227 FT) 1426 M (4680 FT) 983.6M.

GEOLOGICAL REPORT

LITHOLOGIC SUMMARY

1545 - 1662M
(5069' - 5453')

INTERVAL DOM DK RD-BRN, SLTY AND SNDY CLYST WITH TR SST INTBDS. CLYST: M TO DK RD-BRN TO OCC RD-BK, VAR SLTY AND SNDY, TR TO ABUN PY AND PYRITIZED MICROFOSS, TR TO ABUN MICAS AND BK MICROCARB, MOD HD, BLKY TO SUB-FIS, MOD CALC.

GAS SUMMARY

BACKGROUND GAS: 4UNITS(C-1=600, C-2=40, C-3=20 PPM)

MAX GAS AT 1610M : 10UNITS (C-1=1455, C-2=51, C-3=100, IC4=10, NC4 =10 PPM)

MIN GAS AT 1660M : 2UNITS (C1=300, C2=20, C3=10 PPM)
CONN GAS: ABSENT
TRIP GAS AT 1662M :15UNITS (C1=2106, C2=60, C3=70, IC4=10, NC4=10PPM)

MAX ROP: 96M/HR (316') AT 1610M (5282')

MIN ROP: 4M/HR (13') AT 1660M (5446')

AV ROP: 16M/HR (54')

PRESSURE PARAMETERS

DXC: 0.87 - 1.46
TEMP (FLOW LINE): 48 DEG C (118 DEG F)
MW IN/OUT: 9.1/9.1 PPG (ECD = 9.34PPG)
EST PORE PRESS : 8.7 PPG
FRAC GRAD : 15.3 PPG AT 20'' CSG SHOE.

REGARDS,
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

(12)

OR-331A P Baillie 329487

DEPARTMENT OF MINES
RECEIVED/
17 SEP 1985
345 AM/PM
OPERATOR A.B.

85-09-17 1535 ST
TASROK AA58276
STBY BCAST 176199 CLG

3.45 AB

SEPTEMBER 17, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: D.B. WILKIE MC 4502
B.G. NEWTON MC 4703
CH-AUP-169-T-933.2-CWW/SCB/CDC

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-671-T-933.2-CWW/SCB/CDC

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-146-T-933.2-CWW/SCB/CDC/GMK

DATE	:17 SEPTEMBER 1985
REPORT NO.	: 14
DAYS FROM SPUD	: 12
TD	: 1662 METERS (5452 FT.)
PROGRESS	: 0
MUD PROPERTIES	: MW - 9.2 , VIS - 46 , API FL - 10.2
LAST CASING	: 20 AT 412 METERS (1353 FT) FCCT -15.3 PPG
DAILY COST (USD)	: 84,483 CUM. COST :3,460,688
PRESENT OPERATION	:RIH WITH 17-1/2'' BIT
OPERATIONS SUMMARY	:OPEN 12-1/4'' HOLE TO 17-1/2'' HOLE FROM 1426M (4680 FT) TO 1662 M (5452 FT) CIRC BOTTOMS UP.SPOT HI-VIS PILL. DROP MULTI-SHOT, SLUG PIPE POOH M/U 13-3/8'' CASING HANGER ON RUNNING TOOL STAND IN DERRICK. RIH WITH 17-1/2'' BIT.

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

(13)

OR-331A

329488

85-09-18 1126 ST *
TASROK AA58276
STBY BCAST 176199 CLG

SEPTEMBER 18, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA
==========

AMOCO CORPORATION - CHICAGO TX: 820/234991 AMOCO+
ATTN: T.O. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-172-T-933.2-CWW/SCB/CDC

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-677-T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-149-T-933.2-CWW/SCB/CDC/GMK

DATE	: 18, SEPTEMBER 1985
REPORT NO.	: 15
DAYS FROM SPUD	: 13
TD	: 1662 METERS (5452 FT.)
PROGRESS	: 0
MUD PROPERTIES	: MW -9.5 , VIS -47 , API FL - 8.0
LAST CASING	: 13-3/8 AT 1652 METERS (5420 FT)
DAILY COST (USD)	: 206,388 CUM. COST :3,667,026
PRESENT OPERATION	: CIRCULATING 13-3/8'' CASING
OPERATIONS SUMMARY	: RIH TO 1662M (5452 FT)
	CIRC COND. HOLE.
	SLUG PIPE POOH.
	RETRIEVE WEAR BUSHING
	RIG UP AND RUN 13-3/8 CASING
	SHOE AT 1652M (5452 FT)
	CIRC PRIOR TO CEMENTING

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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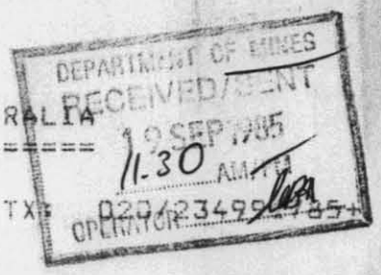

SEPTEMBER 19, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/23499
ATTN: D.B. WILKIE MC 4502
B.G. NEWTON MC 4703
CH-AUP-174-T-933.2-CWW/SCB/CDC

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-685-T-933.2-CWW/SCB/CDC

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-152-T-933.2-CWW/SCB/CDC/GMK

DATE	:SEPTEMBER 19, 1985
REPORT NO.	: 16
DAYS FROM SPUD	: 14
TD	: 1662 METERS (5452 FT)
PROGRESS	: 0
MUD PROPERTIES	: SEAWATER
LAST CASING	: 13-3/8 AT 1652 METERS (5420 FT)
DAILY COST (USD)	: 100,208 CUM. COST :3,767,306
PRESENT OPERATION	:DRILLING CEMENT INSIDE 13-3/8'' CASING.
OPERATIONS SUMMARY	:CIRC 13-3/8'' CASING PRIOR TO CEMENTING TEST CEMENT LINES - REPAIR CEMENT UNIT MIX AND PUMP LEAD SLURRY AND TAIL SLURRY ATTEMPT TO RELEASE TOP PLUG DART DISPLACE WITH 14 BBLS WITH HOWCO AND 2024 STROKES RIG PUMP. PRESSURE INCREASE TO 2400PSI APPEARS BOTH PLUGS RELEASED BEFORE PUMPING CEMENT. BREAK OUT RUNNING TOOLS LAY DOWN CEMENT HEAD P.O.H. MAKE UP 12-1/4'' BIT RIH TAG CEMENT AT 614M (2017FT). WASH OUT CEMENT FROM 614M (2017FT) TO 1310M (4300FT)

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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TASROK AA58276

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SEPTEMBER 20, 1985 OR-331A

DEPARTMENT OF MINES
RECEIVED/SENT
20 SEP 1985
10.40 AM/PM
OPERATOR 329490

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 329490
ATTN: T.O. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-177-T-933.2-CWW/SCB/CDC

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-691-T-933.2-CWW/SCB/CDC

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-154-T-933.2-CWW/SCB/CDC/GMK

DATE : SEPTEMBER 20, 1985.
REPORT NO. : 17
DAYS FROM SPUD : 15
TD : 1662 METERS (5452FT)
PROGRESS : 0
MUD PROPERTIES : MW -9.0 , VIS - 54, API FL -22.0
LAST CASING : 13-3/8''AT 1652 METERS (5420FT)
DAILY COST (USD) : 99,762, CUM. COST :3,867,068
PRESENT OPERATION : ATTEMPT TO CIRCULATE THROUGH CASING
OPERATIONS SUMMARY : DRILL CEMENT FROM 1310-1624M (4300-5329FT)
DRILL FLOAT COLLAR WITH CAUTION
RIH. TAG SHOE - DISPLACE SEAWATER WITH MUD.
SLUG PIPE POOH 5 STANDS
GAIN 3 BBLS - PULLED 5 MORE STANDS
GAIN 3 MORE BBLS. PULLED 5 MORE STANDS
TOTAL GAIN 8 BBLS. GAIN SUSPECTED TO BE
U-TUBE THROUGH FLOAT SHOE W/CASING HANGER
PACKED OFF WITH CEMENT CUTTINGS.
RIH. CIRC AND RAISE MUD WEIGHT TO 9.0 PPG
POOH - MAKE CASING HANGER RUNNING TOOL.
AND RIH ATTEMPT TO CIRC THRU SHOE NO SUCCESS

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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TASROK AA58276
AMDRIL AA176199

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DATE : 22 SEPTEMBER 1985
REPORT NO. : 19
DAYS FROM SPUD : 17
TD : 1662 METERS (5452 FT).
PROGRESS : 0
MUD PROPERTIES : MW - 8.9, VIS - 47, API FL - 13
LAST CASING : 13-3/8 AT 1652 METERS (5420 FT.)
DAILY COST (USD) : 96,813 CUM. COST : 4,074,777
PRESENT OPERATION : DRILLING EZSV
OPERATIONS SUMMARY : P.O.H. WITH STINGER ASSEMBLY. LAY DOWN EXCESS D.P. AND TOOLS. FUNCTION B.O.P. FLUSH RISER. R.I.H. WASH WELLHEAD. P.O.H. R.I.H. WITH SEAL ASSEMBLY. SET SAME. TEST SEAL ASSEMBLY TO 5000 PSI. TEST B.O.P. - CHOKE AND KILL LINES. RUN AND SET 13-3/8 WEAR BUSHING. R.I.H. WITH DRILLING ASSEMBLY. TAG CEMENT AT 1616.6 M (5304'). DRILL CEMENT FROM 1616.6 M (5304') TO 1619.1 M (5312'). DRILLING EZSV.

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DATE : 23 SEPTEMBER 1985
REPORT NO. : 20
DAYS FROM SPUD : 18
TD : 1663.6 METERS (5458 FT).
PROGRESS : 1.82 M (6 FT.)
MUD PROPERTIES : MW - 8.9, VIS - 45, API FL - 4.0
LAST CASING : 13-3/8 AT 1652 METERS (5420 FT.)
FCCT - 14.6 PPG
DAILY COST (USD) : 89,035 CUM. COST : 4,163,812
PRESENT OPERATION : R.I.H. WITH CORE BARREL
OPERATIONS SUMMARY : DRILL EZSV AND CEMENT TO 1652.6 M (5422'). CIRC. BOTTOMS UP AND PERFORM C.C.C.T. TO 14.3 PPG EMW, NO LEAK OFF. DRILL CEMENT AND 1.52 M (5') OF FORMATION FROM 1652.6-1663.3 M (5422' TO 5457'). CIRC. BOTTOMS UP AND PERFORM F.C.C.T. TO 14.6 PPG EMW TO LEAK OFF. P.O.H. PICK UP REVERSE CIRCULATING JUNK BASKET. R.I.H., WORK BASKET FROM 1663.3 TO 1663.6 M (5457' TO 5458'). P.O.H. RECOVER 3 LB. JUNK FROM EZSV. PICK UP CORE BARREL, R.I.H. FOR CORE NO. 1.

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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TASROK AA58276

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PLEASE DISREGARD PREVIOUS TELEX
HEREWITH COMPLETE TELEX (GEOLOGY ATTACHED)
//

SEPTEMBER 24, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA
==========

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.O. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-182-T-933.2-CWW/SCB/CDC/GMK

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-710-T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
AB8-AUP-158-T-933.2-CWW/SCB/CDC/GMK

DATE : 24 SEPTEMBER 1985
REPORT NO. : 21
DAYS FROM SPUD : 19
TD : 1794 METERS (5885 FT).
PROGRESS : 130 M (427 FT)
MUD PROPERTIES : MW - 9.0, VIS - 45, API FL - 4
LAST CASING : 13-3/8 AT 1652 METERS (5420 FT.)
FCCT - 14.6 PPG
DAILY COST (USD) : 96,418 CUM. COST : 4,260,230
PRESENT OPERATION : DRILLING
OPERATIONS SUMMARY : CUT CORE NO. 1 1664-1682 M (5458'-5519').
RECOVER 10.7 M (35 '). RIH WITH DRILLING
ASSEMBLY. OPEN 8-15/32'' CORE HOLE. DRILL TO
1794 M (5885')

SEPTEMBER 24, 1985

DAILY GEOLOGICAL REPORT, TILANA NO.1
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DRILLED INTERVAL (TO 0600HRS): 1664.5 - 1794M (5519-5885FT)
SAMPLED INTERVAL (TO 0600HRS): 1664.5M -1779M (5461-5837FT)
CORRELATION/FORMATION TOPS: DRILLING IN EVCM.

SHOW SUMMARY

SHOWS ABSENT. NO CUTS OR CRUSH CUTS.

LITHOLOGY SUMMARY

CORE NO.1 CUT: 1664.5 - 1682.5M, REC. 10M 57%
CORE CHIPS INSPECTED EVERY 1M
1664.5 - 1668.5M: SST: VF GR, W SRT, TOP V CLEAN BCMG CLAYEY W/
DEPTH TO 30-40%, VIS POR 30% TO 10% AT DEPTH
1668.5 - 1670.3M: SLTST: GRDS TO VF SAND, 30-40% CLY, ABNT MICA.
1670.3 - 1674.5M: SST: V F GR, W SRTD, 20-30% CLY MTX, 0.5-2CM CLY
LAM, LOCAL CARB BANDS, VIS POR 15-25%.
ONLY TR SPOTTY DK BRN PYROBITUMEN (?) IN CORE.

1683-1695M: 70-90% SST: V F GR, W SRTD, 30-40% WH CLY MTX, 0-15%
VIS POR, GRDS TO SLTST AT BASE.
10-30% CLST: ABNT SLT AND VF SANDS.
1695-1779M: INTERBEDDED VF GR CLAYEY SST, M TO VC UNCONSOL SST,
CLST AND COALS.
10-85% SST: VF GR, W SRTD, V FRI, 30-40% CLY, 0-15%
VIS POR.
0-100% SST: M- VC GR, OCC GRAN, V PR SRTD,
UNCONSOL, 30% VIS POR, OC BLK PYROBIT(?)
0-80% CLST: AS THIN INTERBEDS IN SST, LOCALLY SLTY
AND SNDY, ABNT PY AND MICA, SFT-V SFT.
0-50% COAL:

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GAS SUMMARY

BACKGROUND GAS: 1.5 U (0.03%)
COMPOSITION C1 = 162PPM C2 = 28PPM C3 = 0-2PPM
MAXIMUM GAS: DEPTH 1712M (5613 FT) 11 UNITS (0.22%)
COMPOSITION C1 = 2484PPM C2 = 350PPM C3 = 14PPM
TRIP GAS: DEPTH 1664M (5460 FT) 31 UNITS (0.06%)
COMPOSITION C1= 4074, C2= 164, C3 = 137, IC4 = 12, NC = 19
CONNECTION GAS: NIL

RATES OF PENETRATION

MAXIMUM ROP: DEPTH 1752M (5749FT) 70.4 M/HR (231 FT/HR)
MINIMUM ROP: DEPTH 1757M (5765FT) 6.1 M/HR (20 FT/HR)
AVERAGE ROP: 14.4 (AVE FOR BIT RUN)M/HR (47.3 FT/HR)

PRESSURE PARAMETERS

DXC,RANGE: 0.76 - 1.37 DXC AVERAGE: 1.2
SHALE DENSITY, RANGE: AVERAGE:
.SHALE FACTOR, RANGE: AVERAGE:
TEMP OUT: 37.8(MAX) DEG C TEMP IN: 15 (MAX) DEG C
MUD WT. IN: 9.0 PPG MUD WT. OUT: 9.2 PPG ECD: 9.2 PPG
EST PORE PRESSURE:8.7PPG EMW EST FRACTURE PRESSURE: 13PPG EMW

COMMENTS

1/ A CARBIDE RUN AT 1765M (5791') INDICATED AN IN GAUGE HOLE.
2/ A MAXIMUM GAS WHILE REAMING RAT HOLE 3U, (C1 TO C3) NO SHOWS. (20)
3/ SAMPLE QUALITY GOOD.

REGARDS,
C.W.WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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TASROK AA58276

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85-09-25 1415 ST *
TASROK AA58276
STBY BCAST 176199 CLG

DEPARTMENT OF MINES
RECEIVED/SENT
25 SEP 1985
OPERATOR

SEPTEMBER 25, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.D. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-187-T-933.2-CWW/SCB/CDC/GMK

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-727-T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-164-T-933.2-CWW/SCB/CDC/GMK

DATE	: 25 SEPTEMBER 1985
REPORT NO.	: 22
DAYS FROM SPUD	: 20
TD	: 1977 METERS (6485 FT).
PROGRESS	: 182.8 M (600 FT)
MUD PROPERTIES	: MW - 9.0, VIS - 45, API FL - 3.8
LAST CASING	: 13-3/8 AT 1652 METERS (5420 FT.) FCCT - 14.6 PPG
DAILY COST (USD)	: 96,900 CUM. COST : 4,357,130
PRESENT OPERATION	: DRILLING
OPERATIONS SUMMARY	: DRILL 1926 M (6320 FT). TRIP FOR BIT AND CHANGE BHA. DRILL TO 1977 M (6485 FT)

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DAILY GEOLOGICAL REPORT, TILANA NO.1

LITHOLOGY SUMMARY

1779 -1875M (5837' -6152') INTERVAL DOM M TO VC UNCONSOL SST WITH THIN INTERBDS OF SLTST (ESP AT 1848-51M (35%), 1854-57M (30%), 1860-63M (50%), 1869-75M (35%), THIN COALS ESP AT 1806-12M (35%) AND 1857-60M (30%)AND THIN CLYST ESP AT 1815-18M (70%) AND 1818-21M (40%). ABUN MUSC THROUGHOUT.

1875-1893M (6152'-6211') INTERVAL DOM VF GR SST WITH INTBD CLYST ESP AT 1884-87M (40%).

1893-1950M 6211'-6398') INTERVAL DOM VF TO F GR SST WIT INTERBD COAL ESP AT 1908-11M (40%), 1929-38M (10%), SLTST ESP AT 1911-14M (40%), 1914-17M (60%), 1917-26M (30%), 1929-41M (15%), CLYST ESP AT 1938-44M (30%) AND DOL LMST ESP AT 1941-50M (30-40%).

1950-1962M (6398'-6437') INTERVAL DOM F TO VC UNCONSOL SST WITH THIN INTERBD COAL AS ABOVE ESP AT 1950-53M (15%), 1953-56M (10%) AND CLYST AS ABOVE ESP AT 1950-53 (10%).

GAS SUMMARY

BACKGROUND GAS: 0.1U - 0.5U (0.002 - 0.01%)
COMPOSITION: C1, RARE C2
MAXIMUM GAS: DEPTH 1806M (5925'), 1.5 UNITS (0.03%)
COMPOSITION: C1, C2, C3
TRIP GAS: DEPTH 1926.4M (6320'), 0 UNITS (0%)
COMPOSITION: -
CONNECTION GAS: NIL

RATES OF PENETRATION

MAXIMUM ROP: DEPTH 1936M (6352FT), 78M/HR (257 FT/HR)
MINIMUM ROP: DEPTH 1926M (6318FT), 2.4M/HR (8 FT/HR)
AVERAGE ROP: 17.7M/HR (58.2 FT/HR)

PRESSURE PARAMETERS

DXC, RANGE: 0.8 - 1.51 DXC AVERAGE: (NB NO.10) 1.25
SHALE DENSITY, RANGE: - AVERAGE:
SHALE FACTOR, RANGE: - AVERAGE:
TEMP OUT: 38 DEG C TEMP IN: 22 DEG C
MUD WT.IN: 9.0 PPG MUD WT.OUT: 9.1-9.4 PPG ECD: 9.2 PPG
EST PORE PRESSURE: 8.7 PPG EMW. EST FRACTURE PRESSURE: 13.2 PPG EMW

COMMENTS

1. SAMPLE QUALITY GOOD.

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MAIN HEATING EVENT IS NOT RECENT, ALTHOUGH MORE INFORMATION IS NECESSARY TO VALIDATE THIS INTERPRETATION.

1836-45 METRES

THE MAJORITY OF THE ORGANIC MATTER IN THIS SAMPLE OCCURS IN THE COALS AND COKES WHICH ARE ESTIMATED TO OCCUPY CA1-2% OF THE SAMPLE. THESE COALS AND COKES CONSIST ALMOST ENTIRELY OF VITRINITE BUT CONTAIN TRACE AMOUNTS OF EXINITE (LIPTODETRINITE)AND INERTINITE.

3. PRELIMINARY CORE ANALYSIS RESULTS

SAMPLE NO.	DEPTH METERS	PERMEABILITY MILLIDARCYS	HELIUM POROSITY PERCENT	GRAIN DENSITY	REMARKS
1	1665.2	1430	29.3	2.65	
2	1665.5	550	28.3	2.65	
3	1665.8	520	27.1	2.66	
4	1666.1	2.2	22.9	2.67	
5	1666.4	7.5	23.1	2.64	
6	1666.7	2.5	22.3	2.67	
7	1667.0	1.3	21.6	2.67	
8	1667.3	5.6	23.7	2.67	
9	1667.6	6.0	24.4	2.66	
10	1667.9	42	25.4	2.66	FRACTURE
11	1668.2	4.7	24.4	2.66	
12	1668.5	67	26.1	2.66	FRACTURE
13	1668.8	9.1	25.6	2.66	
14	1669.1	13	26.5	2.66	
15	1669.4	30	28.1	2.66	
16	1669.7	4.5	25.6	2.66	
17	1670.0	1.2	22.5	2.73	
18	1670.3	95	28.4	2.65	
19	1670.6	340	28.1	2.66	FRACTURE
20	1670.9	84	27.9	2.65	
21	1671.2	BROKEN CORE			
22	1671.5	16	25.8	2.66	
23	1671.8	160	26.9	2.66	FRACTURE
24	1672.1	BROKEN CORE			
25	1672.4	130	27.0	2.65	
26	1672.7	350	32.0	2.65	FRACTURE
27	1673.0	830	28.2	2.64	
28	1673.3	9.6	26.5	2.64	
29	1673.6	230	25.6	2.65	
30	1673.9	210	25.6	2.68	FRACTURE
31	1674.2	BROKEN CORE			
32	1674.5	750	28.7	2.66	
33	1674.8	30	29.9	2.66	FRACTURE
34	1675.0	220	21.5	2.69	FRACTURE

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85-09-30 1500 ST *
TASROK AA58276
STBY BCAST 176199 CLG



85-09-30 1520 ST *
TASROK AA58276
STBY BCAST 176199 CLG

SEPTEMBER 30, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.D. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-196-T-933.2-CWW/SCB/CDC/GMK

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-751-T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
AB8-AUP-170-T-933.2-CWW/SCB/CDC/GMK

SEPTEMBER 28, 1985

DATE	:	28 SEPTEMBER 1985
REPORT NO.	:	25
DAYS FROM SPUD	:	23
TD	:	2206.4 METERS (7239 FT.)
PROGRESS	:	47.5 METERS (156 FT.)
MUD PROPERTIES	:	MW - 9.1, VIS - 52, API FL - 3.8
LAST CASING	:	13-3/8 AT 1652 METERS (5420 FT.) FCCT - 14.6 PPG
DAILY COST (USD)	:	91,721 CUM. COST : 4,631,235
PRESENT OPERATION	:	DRILLING
OPERATIONS SUMMARY	:	DRILL 12-1/4'' HOLE 2158.9 M TO 2163.4 M (7083 FT. TO 7098 FT.). SURVEY. DRILL 2163.4 M TO 2186.3 M (7098 FT. TO 7173 FT.). CIRC. BOTTOMS UP, SLUG PIPE. POH, RIH WITH BIT NO. 14. DRILL 2186.3 M TO 2206.4 M (7173 FT. TO 7239 FT.)

SEPTEMBER 29, 1985

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SEPTEMBER 29, 1985
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DATE : 29 SEPTEMBER 1985
REPORT NO. : 26
DAYS FROM SPUD : 24
TD : 2324 METERS (7626 FT).
PROGRESS : 118 M (387 FT)
MUD PROPERTIES : MW -9.1 , VIS - 47, API FL - 3.6
LAST CASING : 13 3/8''AT 1652 METERS (5420 FT.)
FCCT -14.6 PPG
DAILY COST (USD) : 87,330 CUM. COST :4,718,565
PRESENT OPERATION : SHORT TRIP TO RETRIEVE SURVEY
OPERATIONS SUMMARY : DRILL TO 2324 M (7626 FT). CIRCULATE BOTTOMS UP. DROP SURVEY. SHORT TRIP TO RETRIEVE SURVEY. SURVEY AT 2324 M (7626 FT) - 1/2 DEGREES S 38 W

SEPTEMBER 30, 1985
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DATE : 30 SEPTEMBER 1985
REPORT NO. : 27
DAYS FROM SPUD : 25
TD : 2426 METERS (7971 FT).
PROGRESS : 0
MUD PROPERTIES : MW - 9.2, VIS - 50, API FL - 3.8
LAST CASING : 13 3/8'' AT 1652 METERS (5420 FT.)
FCCT - 14.6PPG
DAILY COST (USD) : 87,315 CUM. COST :4,805,880
PRESENT OPERATION : TRIP FOR BIT
OPERATIONS SUMMARY : DRILL 2324 M (7626 FT) TO 2426 M (7971 FT). CIRC B/U. POH.

GEOLOGICAL REPORT
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LITHOLOGIC SUMMARY

2148 - 2237M (7047'-7339') DOLERITE (100%): C GR GRD TO GABBRO, GRN AND GRY-GRN, EQUIGRANULAR

2237 - 2259M (7339'-7411') WELDED TUFF INTBD WITH PORPHYRITIC BASIC ROCK AND ORTHOQTZITE.

2259 - 2298M (7411'-7539') INTERBEDDED SST - WH, VF GR, W SRT, MOD CALC AND DOL, SIL (0-15% VIS POR) - AND CLYST - GRY-BK, V MICMICA, TR MICROCARB, HD - AND MINOR ANTHRACITE - BK, V HD, V BRIT, HIGH REFLECTANCE (MAJOR BEDS AT 2264-65M, 2278-80, 2287-88).

2298 - 2316M (7539'-7598') SST (100%): CLR TO WH, V F TO M GR UNCONSOL AND F GR AS FRAG, SUBANG-SUBRND, MOD SRT, VAR CLY AND SIL CMT, TR MICA AND CARB MAT, FRI TO HD, 5-20% VIS POR.

2316 - 2325M (7598'-7629') ANTHRACITE (100%): BK, V HD, V BRIT, HIGH GLOSS, CONCH FRAC.

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2325 - 2430M (7629'-7971') THINLY INTBD AND INTERGRADATIONAL SST, SLT, CLYST AND ANTHRACITE.
SST: PALE YEL-BRN, VF GR GRD TO SLT AND CLYST, SUBANG, MOD SRT, WH AND BRN CLY AND SIL CMT, TR DOL CMT, HD 0-10% VIS POR.

CLYST: YEL-BRN TO DK GRY, MICMICA, MIC CARB, TR QTZ SLT, GRDS TO SLTST, FRI TO FIRM.

ANTHRACITE (MAJOR BEDS AT 2338-51M, 2356-58M, 2366-67M, 2372-73M, 2375-77M, 2393-95M, 2412-17M, 2426-27M): BK, V HD, V BRIT, HIGH GLOSS.

GAS SUMMARY

BACKGROUND GAS: 1-5UNITS (0.02-0.1%) C1, C2, TR C3.
MAXIMUM GAS AT 2348M (7703'): 413UNITS (8.26%) C1 = 71760, C2=2221, C3=444, IC4=300, NC4=50 PPM.
CONNECTION GAS: ABSENT
TRIP GAS AT 2324M (7627'): 2UNITS (0.04%) C1 AND C2.

MAXIMUM ROP AT 2301M (7549'): 79M/HR (259')
MINIMUM ROP AT 2429M (7971'): 1M/HR (3')
AVERAGE ROP : 4M/HR (13')

PRESSURE PARAMETERS

DXC: 0.8 - 2.1
TEMP OUT: 51 DEG C TEMP IN: 43 DEG C
MW IN/OUT: 9.2/9.2 PPG (ECD = 9.24 PPG)
EST PORE PRESS: 9.2 PPG
FRAC GRAD: 15 PPGE.

REGARDS,
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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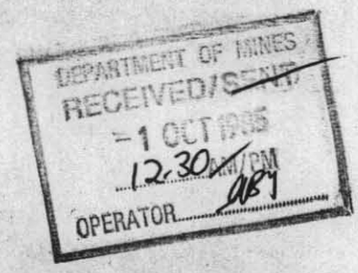
85-10-01 1157 ST *
TASROK AA58276
STBY BCAST 176199 CLG



OCTOBER 1, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.O. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-197-T-933.2-CWW/SCB/CDC/GMK

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-767-T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-172-T-933.2-CWW/SCB/CDC/GMK

DATE	: 1 OCTOBER 1985
REPORT NO.	: 28
DAYS FROM SPUD	: 26
TD	: 2472 METERS (8109 FT).
PROGRESS	: 42 METERS (138 FT).
MUD PROPERTIES	: MW -9.3 , VIS - 49, API FL -3.8
LAST CASING	: 13 3/8' AT 1652 METERS (5420 FT.) FCCT - 14.6 PPG
DAILY COST (USD)	: 89,392 CUM. COST :4,898,038
PRESENT OPERATION	: DRLG
OPERATIONS SUMMARY	: POH FOR BIT. TEST BOP. RIH. DRILL 2430 M (7971 FT) TO 2472 M (8109 FT)

DAILY GEOLOGICAL REPORT

DRILLED INTERVAL (TO 0600HRS): 2430 - 2472M (7971-8109FT)
SAMPLED INTERVAL (TO 0600HRS): 2430 - 2460M (7971-8070FT)
CORRELATION/FORMATION TOPS: WITHIN EVCM - APPROX 2350-2400M YOLLA NO1

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SHOW SUMMARY

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NO SHOWS (NO CUT OR CRUSH CUTS)

LITHOLOGY SUMMARY

2430 - 2460M (7971'-8070') FINELY INTERBD AND INTERGRADATIONAL SST, SLTST, CLYST, AND THIN ANTHRACITE BEDS WITH TRACES OF DOL LMST.

SST: WH TO PL ORNG TO YEL BRN, VF GR GRD TO SLTST, SUBANG, MOD W SRT, ABUN CLY, CALC AND SIL CMT. 0-10% VIS POR.

CLYST: YEL-BRN TO DK GRY, MICMICA, F DISSEM PY, MICCARB, OCC SLTY GRD TO SLTST, NON CALC, BLKY TO SUBFIS .

DOL LMST: WH TO M RED AND DK RD-BRN, CRYPTOXTLN, V HD, BRIT, TR MICCARB.

ANTHRACITE: BK, V HD, V BRIT, HIGH GLOSS, CONCH FRAC.

GAS SUMMARY

BACKGROUND GAS: 1 - 2UNITS (0.05 - 0.04%)
COMPOSITION: C1, C2, C3 TRACE C4
MAXIMUM GAS: DEPTH 2447 M (8028 FT), 13.5 UNITS (0.27%)
COMPOSITION:C1= 2208, C2= 54, C3= 21, NC4= TR
TRIP GAS: DEPTH 2429.6M (7971 FT), 16 UNITS (0.32%)
COMPOSITION:C1= 3094, C2= 77, C3= 29, C4= TR
CONNECTION GAS: NIL

RATES OF PENETRATION

MAXIMUM ROP: DEPTH 2466 M (8090FT), 30.4 M/HR (100 FT/HR)
MINIMUM ROP: DEPTH 2468.6M (8099FT), 2.6 M/HR (8 FT/HR)
AVERAGE ROP: 4.7 M/HR (15.4 FT/HR)

PRESSURE PARAMETERS

DXC, RANGE: 1.1 - 1.9 DXC AVERAGE: 1.7
SHALE DENSITY, RANGE: - AVERAGE:
SHALE FACTOR, RANGE: - AVERAGE:
TEMP OUT: 47.0 DEG C TEMP IN: 41.0 DEG C
MUD WT. IN: 9.3 PPG MUD WT. OUT: 9.3 PPG ECD: 9.38 PPG
EST PORE PRESSURE: 8.7 PGG EMW EST FRACTURE PRESSURE: 14.8 PPG EMW

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DEPARTMENT OF MINES
RECEIVED/SENT
-2 OCT 1985
11.15 AM/PM
OPERATOR

85-10-02 1108 ST *
TASROK AA58276
STBY BCAST 176199 CLG

OCTOBER 2, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.D. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-203-T-933.2-CWW/SCB/CDC/GMK

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-774-T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-177-T-933.2-CWW/SCB/CDC/GMK

DATE	: 2 OCTOBER 1985
REPORT NO.	: 29
DAYS FROM SPUD	: 27
TD	: 2566.4 METERS (8420 FT).
PROGRESS	: 94.7 M (311 FT)
MUD PROPERTIES	: MW - 9.6, VIS - 48, API FL - 3.9
LAST CASING	: 13 3/8'' AT 1652 METERS (5420 FT.) FCCT - 14.6 PPG
DAILY COST (USD)	: 84,135 CUM. COST :4,982,173
PRESENT OPERATION	: DRILLING
OPERATIONS SUMMARY	: DRILL 12 1/4'' HOLE FROM 2471.6 M TO 2566.4 M (8109 - 8420 FT)

GEOLOGICAL REPORT

DRILLED INTERVAL TO 0600HRS: 2472 - 2566.5M (8109-8420FT)
SAMPLED INTERVAL TO 0600HRS: 2460 - 2566.5M (8070-8420FT)

SHOW SUMMARY

NO OIL SHOWS - NO NATURAL FLUOR, STAIN, CUT OR CUT FLUOR.

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DEPARTMENT OF MINES
RECEIVED
-3 OCT 1985
12-30 PM
OPERATOR

85-10-03 1214 ST *
TASROK AA58276
STBY BCAST 176199 CLG

OCTOBER 3, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.D.STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-205-T-933.2-CWW/SCB/CDC/GMK

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-776-T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-179-T-933.2-CWW/SCB/CDC/GMK

DATE	: 3 OCTOBER 1985
REPORT NO.	: 30
DAYS FROM SPUD	: 28
TD	: 2613 METERS (8573 FT).
PROGRESS	: 46.6 M (153 FT)
MUD PROPERTIES	: MW - 9.4, VIS - 50, API FL - 3.6
LAST CASING	: 13 3/8'' AT 1652 METERS (5420 FT.) FCCT - 14.6 PPG
DAILY COST (USD)	: 94,468 CUM. COST :5,076,641
PRESENT OPERATION	: DRILLING
OPERATIONS SUMMARY	: PUMP HI-VIS PILL, CIRC BOTTOMS UP. DROP SURVEY, SLUG PIPE POH, NO DRAG. CHANGE BITS. RIH TO 13 3/8 SHOE. CUT DRILLING LINE. RIH TO 2566.4 M (8420 FT) NO FILL. CIRC WORK JUNK BASKET. DRILL 12 1/4'' HOLE 2566.4 - 2613 M (8420 - 8573 FT).

NOTE: THE RESULT OF THE 3RD POSITION SATELLITE COMFIRMATION SHOWS THE LOCATION TO BE. LAT. 39 DEG 53 MIN 36.8573 SEC. SOUTH. LONG 145 DEG 58 MIN 38.517 SEC EAST.

DAILY GEOLOGICAL REPORT

DRILLED INTERVAL (TO 0600HRS): 2566 - 2613M (8420-8573FT)
SAMPLED INTERVAL (TO 0600HRS): 2566 - 2607M (8420-8553FT)
CORRELATION/FORMATION TOPS: DRILLING IN EVCM.

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SHOW SUMMARY

NO OIL SHOWS (NO NATURAL FLUOR, STAIN, CUT OR CUT FLUOR)

LITHOLOGY SUMMARY:

2566 - 2579M (8420-8461') CLYST: BRN TO GRY-BRN, SFT TO SL FIRM, VAR SLTY, NON CALC, VAR CARB WITH OCC THIN BD COAL.

COAL: BLK, BRIT, ANTHRACITIC - POSS DEC GRADE.

2579 - 2584M (8461-8478') COAL: BLK, BRIT, HD WITH THIN INTBD CLYST.

CLYST: BRN, AS ABOVE, IN PT SLTY AND RARE THIN SLTST.

SLTST: BRN-GY, FIRM V ARG, SL CARB.

2584 - 2607M (8478-8553') CLYST: BRN TO BRN-GRY INC GRY BELOW 2595M, SFT TO FIRM, NONCALC, VAR SLTY AND CARB, THIN COAL BDS IN TOP OF INTERVAL. RARE THIN SLTST. RARE V THIN SST BDS BELOW 2592M.

SST: WH, VF GR, GRD TO SLTST, FIRM TO FRI, SIL IN PT AND ARG IN PT, PR VIS POR. APPROX 10%.

SLTST: GRY-BRN, ARG, FIRM.

GAS SUMMARY

BACKGROUND GAS: 1-2 UNITS (0.02 - 0.04%)
COMPOSITION: C1, TR C2, TR C3
MAXIMUM GAS: DEPTH 2583M (8420 FT), 27 UNITS (0.54%)
COMPOSITION: C1 = 4140 C2 = 230 C3 = 25
TRIP GAS: DEPTH 2566.6M (8420 FT), 2 UNITS (0.04%)
COMPOSITION: C1 = 350 C2 = 21 C3 = 15
CONNECTION GAS: NIL

RATES OF PENETRATION

MAXIMUM ROP: DEPTH 2569 M (8428 FT), 35 M/HR (115 FT/HR)
MINIMUM ROP: DEPTH 2597.5M (8521FT), 3 M/HR (10 FT/HR)
AVERAGE ROP: 4.4 M/HR (14 FT/HR)

PRESSURE PARAMETERS

DXC, RANGE: 1.1 - 1.8 DXC AVERAGE: 1.65
SHALE DENSITY, RANGE: AVERAGE:
SHALE FACTOR, RANGE: 2 - 8 AVERAGE:
TEMP OUT: 45 DEG C TEMP IN: 37 DEG C
MUD WT. IN: 9.4 PPG MUD WT. OUT: 9.45 PPG ECD: 9.5 PPG
EST PORE PRESSURE: 8.7 PPG EMW EST FRACTURE PRESSURE: 14.9 PPG EMW

COMMENTS

1. ALL GAS PEAKS ARE ASSOC WITH COAL BEDS AND ARE DECREASING IN MAGNITUDE WITH DEPTH.
2. PALEONTOLOGY

PRELIMINARY PALEONTOLOGIC ANALYSES HAVE DETERMINED THE FOLLOWING AGES IN TILANA - 1:

DEPTH (M)	SYSTEM
700	MIDDLE MIOCENE
990	TOP EARLY MIOCENE
1250-60	FIRST INDICATIONS OF VOLCANICS
1400	OLIGOCENE (UNDERFINED)
1530 +	TOP LATE EOCENE

REGARDS,
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

OR-331A

329511

TELEX MESSAGE TELEX MESSAGE TELEX MESSAGE

DEPARTMENT OF MINES
RECEIVED/SENT
-4 OCT 1985
2.00 AM/PM
OPERATOR

85-10-04 1259 ST *
TASROK AA58276
STBY BCAST 176199 CLG

OCTOBER 4, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.D. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-207-T-933.2-CWW/SCB/CDC/GMK

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-799-T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-182-T-933.2-CWW/SCB/CDC/GMK

DATE	: 4 OCTOBER 1985
REPORT NO.	: 31
DAYS FROM SPUD	: 29
TD	: 2726 METERS (8945 FT).
PROGRESS	: 110 M (362 FT)
MUD PROPERTIES	: MW - 9.3, VIS - 50, API FL - 3.9
LAST CASING	: 13 3/8''AT 1652 METERS (5420 FT.) FCCT - 14.6 PPG
DAILY COST (USD)	: 85,153 CUM. COST :5,161,794
PRESENT OPERATION	: DRILLING
OPERATIONS SUMMARY	: DRILL 2616 M (8583 FT) TO 2726 M (8945 FT). CIRCULATE DRILLING BREAKS AT PLUS OR MINUS 2621 M (8600 FT) AND PLUS OR MINUS 2678 M (8785 FT). SURVEY AT 2708 M (8883 FT) - 2 DEGREES N 21 E

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GEOLOGICAL REPORT

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LITHOLOGIC SUMMARY

2607 - 2721M (8553-8927') INTERVAL OF INTBD SST AND CLYST WITH OCC THIN COAL BDS AND STRKS.

SST: DOM WH, V F TO F GR WITH OCC TO ABUN M AND C GR UNCONSOL ESP. BELOW 2668M. SUBANG TO SUBRND, W TO PR SRT,FIRM TO FRI, SL SIL AT TOP TO W CMT WITH WH CLY, VIS POR 8-12%.NO SHOWS - SST DOM AT 2614-20M, 2644-54M, 2668-85M (BECOMES C GR), 2710-21M.

CLYST: BRN, SFT, VAR CARB, VAR SLTY, NONCALC.

COAL: BK, HD, BRIT, CONCH FRAC, ANTHRACITIC. SL LESS MATURE AND LESS HD BELOW 2691M.

GAS SUMMARY

BACKGROUND GAS: 2 UNITS (0.04%)
COMPOSITION: C1 220, C2 20, C3 10
MAXIMUM GAS: DEPTH 2702 M (8865 FT), 16 UNITS (0.32%)
COMPOSITION: C1, 3036PPM, C2 133, C3 93, IC4, 10, NC4, TR
TRIP GAS: NIL
CONNECTION GAS: NIL

RATES OF PENETRATION

MAXIMUM ROP: DEPTH 2707M (8881 FT), 43 M/HR (141 FT/HR)
MINIMUM ROP: DEPTH 2699M (8854 FT), 1.8 M/HR (6 FT/HR)
AVERAGE ROP: 5.4 M/HR (18 FT/HR)

PRESSURE PARAMETERS

DXC, RANGE: 1.00 - 1.95 DXC, AVERAGE: 1.60
SHALE DENSITY, RANGE: AVERAGE:
SHALE FACTOR, RANGE: 1 - 3 AVERAGE: 2
TEMP OUT: 51 DEG C TEMP IN: 44 DEG C
MUD WT. IN: 9.3 PPG MUD WT. OUT: 9.3 PPG ECD: 9.4 PPG
EST PORE PRESSURE: 8.7 PPG EMW EST FRACTURE PRESSURE: 14.7 PPG EMW

COMMENTS

PALYNOLOGY OF TILANA - 1

2043-52M, 2295-2304M: TOTALLY BARREN OF PALYNOMORPHS
2394-2403M, 2493-2502M: MIDDLE M. DIVERSUS ZONE: EARLY EOCENE: MARINE : MATURE FOR LIQUID HYDROCARBONS

REGARDS
C.W.WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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OCTOBER 5, 1985

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DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.D. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP- -T-933.2-CWW/SCB/CDC/GMK

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP- -T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58276
- HOBART ATTN: W.C. COWAN
ABB-AUP- -T-933.2-CWW/SCB/CDC/GMK



DATE : 5 OCTOBER 1985
REPORT NO. : 32
DAYS FROM SPUD : 30
TD : 2789 METERS (9149 FT).
PROGRESS : 62 METERS (204 FT)
MUD PROPERTIES : MW - 9.4, VIS - 51, API FL - 3.9
LAST CASING : 13 3/8''AT 1652 METERS (5420 FT.)
FCCT - 14.6 PPG
DAILY COST (USD) : 91,626 CUM. COST :5,253,420
PRESENT OPERATION : RIH WITH CORE BARREL
OPERATIONS SUMMARY : DRILL TO 2787 M (9149 FT). CIRCULATE DRILLING BREAKS AT 2783 M (9132 FT) AND 2789 M (9149 FT). NO SHOWS. SURVEY AT 2789 M (9149 FT) - 1.75 DEGREES AT N 17 E. TRIP FOR CORE BARREL.

GEOLOGICAL DATA TO BE SENT AT A LATER DATE.

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AMOCO AUSTRALIA PETROLEUM COMPANY

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TASROK AA58276
AMOCO AA58162

DEPARTMENT OF MINES
RECEIVED/SENT
7 OCT 1985
2.45 AM/PM
OPERATOR

OCTOBER 6, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA
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AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.O. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP- -T-933.2-CWW/SCB/CDC/GMK

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP- -T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP- -T-933.2-CWW/SCB/CDC/GMK

DATE : 6 OCTOBER 1985
REPORT NO. : 33
DAYS FROM SPUD : 31
TD : 2835 METERS (9300 FT).
PROGRESS :
MUD PROPERTIES : MW - 9.3, VIS -52 , API FL - 4.5
LAST CASING : 13-3/8 AT 1652 METERS (5420 FT.)
FCCT - 14.6 PPG
DAILY COST (USD) : 79,778 CUM. COST :5,333,198
PRESENT OPERATION : DRLG.
OPERATIONS SUMMARY : RIH WITH CORE BARREL. CORE FROM 2789M (9149') TO 2807M (9210'). POH. RECOVER 100 PERCENT OF CORE.
RIH W/ DRILLING ASSY. OPEN HOLE FROM 2789M (9149') TO 2807M (9210'). DRILL FROM 2807M (9210') TO 2835M (9300')

GEOLOGICAL DATA TO BE FORWARDED LATER.

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

GEOLOGICAL DATA TO BE FORWARDED [illegible]

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REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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OCTOBER 7, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA

AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.D. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP- -T-933.2-CWW/SCB/CDC/GMK

BUREAU OF MINERAL RESOURCES TX: AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP- -T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
A88-AUP- -T-933.2-CWW/SCB/CDC/GMK

DATE : 7 OCTOBER 1985
REPORT NO. : 34
DAYS FROM SPUD : 32
TD : 2934 METERS (9626 FT).
PROGRESS : 99 M (326FT)
MUD PROPERTIES : MW - 9.3, VIS -52 , API FL - 5.3
LAST CASING : 13-3/8 AT 1652 METERS (5420 FT.)
FCCT -14.6 PPG
DAILY COST (USD) : 89,029 CUM. COST :5,422,227
PRESENT OPERATION : DRILLING
OPERATIONS SUMMARY : DRILL 2835M (9300') TO 2934M (9626')

GEOLOGICAL DATA TO BE FORWARDED LATER.

REGARDS
C.W. WARING
AMOCO AUSTRALIA PETROLEUM COMPANY

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OCTOBER 8, 1985

DRILLING WIRE - TILANA NO. 1 - BASS BASIN, AUSTRALIA
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AMOCO CORPORATION - CHICAGO TX: 020/234991785+
ATTN: T.D. STACY MC 4502
B.G. NEWTON MC 4703
CH-AUP-211-T-933.2-CWW/SCB/CDC/GMK

DEPARTMENT OF MINES
RECEIVED/SENT
- 8 OCT 1985
8am AM/PM
OPERATOR

BUREAU OF MINERAL RESOURCES AA62109
THE DIRECTOR
ATTN: J. WHITE

TASMANIAN DEPARTMENT OF MINES TX: AA58276
ATTN: H. MURCHIE

MISC-AUP-816-T-933.2-CWW/SCB/CDC/GMK

CC: AMOCO AUSTRALIA PETROLEUM COMPANY TX: AA58162
- HOBART ATTN: W.C. COWAN
ABB-AUP-185-T-933.2-CWW/SCB/CDC/GMK

DATE	: 8 OCTOBER 1985 (TUES.)
REPORT NO.	: 35
DAYS FROM SPUD	: 33
TD	: 2991.9 METERS (9816 FT).
PROGRESS	: 57.9M
MUD PROPERTIES	: MW - 9.3, VIS -54 , API FL -4.8
LAST CASING	: 13-3/8 AT 1652 METERS (5420 FT.) FCCT -14.6 PPG
DAILY COST (USD)	: 95,766 CUM. COST :5,517,993
PRESENT OPERATION	:DRILLING 12-1/4'' HOLE
OPERATIONS SUMMARY	:DRILL 12-1/4' HOLE 2934-2964.2M (9626'-9725')
	CIRC BOTTOMS UP MAX GAS 0.14 PERCENT.
	DRILL 12-1/4' HOLE 2964.2M-2990.7M (9725'-9812')
	CIRC BOTTOMS UP MAX GAS 0.14 PERCENT.
	DRILL 12-1/4' HOLE 2990.7M-2991.9M (9812'-9816')

DAILY GEOLOGICAL REPORT

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DAILY GEOLOGICAL REPORT

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OCTOBER 5, 1985

LITHOLOGY

2721 - 2732M (8927-8963') PREDOM SST WITH MINOR CLST INTERBEDS AND RARE COAL STREAKS AND BEDS.

SST: VF-F GR, W/ C-VC GRS, WH CLY MTX, POOR VIS POR., TRACES OF AMBER.

CLST: VAR. CARBONACEOUS, SFT
COAL: BLK, ANTHRACITIC.

2732 - 2748M (8963-9016') MAINLY SST WITH THICK COAL BEDS IN UPPER 3M.

SST: F-OCC M GR, WH CLY MTX, POOR VIS POR.
COAL: A/A.

2748 - 2758M (9016-9048') PREDOM CLST WITH COMMON SST INTERBEDS.

CLST: SLTY, SFT
SST: F-M GR, OCC C GR, LSE TO PRLY CMTD BY WH CLY, POOR - FAIR VIS POR.

2758 - 2769M (9048-9085') INTERBEDDED SST AND CLST, WITH MINOR COAL.

SST: VF-F, COMMON C GRS, LOOSE TO PRLY CMTD W/ WH CLY MTX, FRI, POOR-FAIR VIS POR.

CLST: SL SLTY, VAR CARBONAC, SFT - SL FIRM

COAL: BLK, ANTHRACITIC WITH SOFTER BRN-BLK, FROM 2777-78M

2769 - 2786M (9085-9140') CLST WITH OCC. THIN SST BEDS
CLST: A/A.

SST: VF-F WITH COMMON C GRS, LOOSE-PRLY CMTD WITH WH CLY MTX, FRI, POOR VIS POR.

2786 - 2789M (9140-9149') SST: F-C GR, GEN. LOOSE, SOME WKLY CMTD WITH WH CLY, POOR-FAIR VIS POR.

OCTOBER 6, 1985

2789 - 2820M (9149-9252') DOM SST WITH THIN IGNEOUS BODY AT TOP AND BASAL CLYST AT BOTTOM 4M.

SST: VF-F GR, WH CLY MTX, POOR VIS POR, WITH ABNT MICA ON FRACTURE SURFACES WITH THIN BEDS AT 2790M, 2799M AND 2807M OF SST: F-C GR, WH CLY MTX AND WEAKLY CMTD WITH SILICA, POOR VIS POR

IGNEOUS ROCK: LESS THAN 1M THICK, MAFIC, SL CALC, V HARD.

CLST: VAR CARBONAC AND SL SLTY, SFT-SL FIRM.

OCTOBER 7, 1985

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OCTOBER 7, 1985

2820 - 2889M (9252-9478') PREDOM SST WITH RARE THIN CLST AND CARB INTERBEDS, COAL PRESENT AT 2825M AND 2834-35M.

SST: F-VC GR AND PEBBLY, LOOSE TO WKLY CMTD BY WH CLY MTX, VAR CARBONAC, SLTY, POOR TO FAIR VIS POR.

CLST: VAR. CARBONAC, SL SLTY, SFT.

COAL: IN STREAKS AND THIN BEDS, ANTHRACITIC BUT ALSO OF LESSER GRADE.

2889 - 2928M (9478-9606') DOM CLST WITH RARE THIN BEDS OF COAL AT 2910-11M, AND THIN IGNEOUS BODY AT 2928M.

CLST: SL CARBONAC, SL SLTY, SFT
COAL: A/A
IGNEOUS ROCK: AS IN CORE NO.2

OCTOBER 8, 1985

2928 - 2964M (9606-9721') CLST WITH POSSIBLY RARE VERY THIN IGNEOUS INTRUSIVES.

CLST: SL CARBONAC AND SL SLTY, FIRM.
IGNEOUS ROCK: AS NOTED BEFORE, AS VERY THIN VEINS.

2964 - 2991M (9721-9813') SST WITH CLST BEDS PREDOMINANT OVER INTERVAL 2976 - 2988.5M.

SST: VF-M OCC CGR, WKLY CMTD BY WH CLY MTX, FRI, V POOR TO OCC FAIR VIS POR.

CLST: SL CARBONAC, OCC SL SLTY, FIRM.

COMMENTS

1. VITRINITE REFLECTANCE

DEPTH (M)	MEAN MAX. REFLECT (%)	% EXINITE (IN COAL)

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