WOODSIDE

THA04, Well Completion Report, Basic Data

T/L2, Otway Basin, September 2007

WELL COMPLETION REPORT

THA04
Basic Data

(T/L2, Otway Basin)

Document Control No.: A6300RG3568898
CONFIDENTIAL

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1 INTRODUCTION

The Thylacine field is located in Production Licence T/L2 in the offshore Otway Basin, some 70 km south of Port Campbell, Victoria (Figure 1). One deviated and three horizontal gas production wells, THA01, THA02, THA03 and THA04, respectively, were drilled and completed from the Thylacine platform from the 17 March 2006 to the 24 September 2006.

The slot used from the Thylacine platform for each well is given below:

Well Name	Internal Well Name	Slot #
THA01	TA1	1
THA02	TA3	5
THA03	TA4	3
THA04	TA2	2

Operations were carried out by the jackup drilling rig “Maersk Guardian”; water depth at the well location was 99.3 metres at Lowest Astronomical Tide (LAT), and the rig’s rotary table elevation was 50.5 metres (LAT). Depth measurements in this report are with reference to the rotary table elevation and are indicated by mRT.

The Maersk Guardian came on contract on 17 March 2006 and spudded an exploration well Thylacine South-1 from the platform on the same day. The top hole section of this well (to the 473mm (18.625”) casing shoe) was subsequently used for the THA04 production well, and the 17 March 2006 is considered the spud date for the THA04 well.

Once operations on the exploration well were complete, the rig was skidded to the THA01 development well slot on 12 April 2006, which was spudded on the following day. A total depth (TD) of 2634mRT was reached on 13 May 2006. The THA01 well was suspended and the rig was skidded to the THA02 well on 20 May 2006; this well was spudded and the 660mm (26”) conductor was run on the same day. The rig was then skidded to the THA03 well, which was spudded on 22 May 2006 and drilled to the 473mm (18.625”) casing shoe. The rig was then skidded back to the THA02 slot on 26 May 2006. The THA02 well was drilled to a TD of 4101mRT, which it reached on 15 June 2006. The THA02 well was perforated on 27 June 2006 and, following a clean up flow, drilling and completion operations were finished on this well on 07 July 2006.

The rig was then skidded to the THA01 well on 7 July 2006. The well was perforated on 11 July 2006 and, following a clean up flow, drilling and completion operations were finished for THA01 on 19 July 2006. The rig was then skidded back to the THA03 well location, where the well had been suspended at the 473mm (18.625”) casing shoe. The THA03 well reached a TD of 3780mRT on 2 August 2006. THA03 was displaced to brine and suspended while the rig was skidded to the THA04 location on 10 August 2006.

The cement plug from the Thylacine South exploration well at the 473mm (18.625”) casing shoe was drilled and the THA04 well was drilled to a TD of 3987mRT which it reached on 26 August 2006. The THA04 well was perforated on 2 September 2006 and the completion was run; operations were suspended on the well on 10 September 2006 when the rig was skidded back to THA03. THA03 was perforated on 13 September 2006, completion was run, and following a clean up flow, the well was handed over to production on 22 September 2006. The rig then returned to finish operations on the THA04 well, which was handed over to production on 24 September 2006. From 24 September to 31 October 2006, the rig was used for production operations prior to leaving the platform.

The total time on the THA04 well was 39.5 days, and the estimated final cost is A$29.7MM.

Table 1: Well Data Sheet, THA04

Well:	THA04 (NB: the internal designation for this well is TA2.)
Permit:	T/L 2, Otway Basin, Western Australia
Name and Address of Operator:	Woodside Energy Ltd. 240 St Georges Terrace Perth WA 6000 Australia
Name and Address of Joint Venturers:	Woodside Energy Ltd. 240 St Georges Terrace Perth WA 6000 Australia Origin Energy Ltd. 339 Coronation Drive Milton QLD 4064 CalEnergy Gas (Australia) Limited 185 Great Eastern Highway Belmont, WA 6104 Benaris Exploration (Otway) Pty Ltd Unit 23, 25 Claremont Street South Yarra VIC 3141
Final Well Co-ordinates:	Latitude: 39° 14' 14.56" S Longitude: 142° 54' 7.58" E Datum: GDA 94 Easting: 664161.0 m Northing: 5 655 156.8 m Zone 54 South
Seismic Reference:	Investigator 3D PreSDM
Water Depth:	99.3 metres (LAT)
Drilling Rig:	Maersk Guardian (Jackup)
Rotary Table:	50.5 metres (LAT)
Date Rig Contract Commenced:	1200 hrs, 17 March 2006
Rig on Location:	1200 hrs, 17 March 2006
Spud Date:	2000 hrs, 17 March 2006
Total Depth:	3987 mMDRT / 2353.8 mTVDRT
Date Total Depth Reached:	1930 hrs, 26 August 2006
Rig Released:	0500 hrs, 24 September 2006
Well Status:	Complete Gas Producer
Total Time on Well:	39.5 days (including completion)
Estimated Final Cost:	A$29.7 MM

2 OPERATIONS SUMMARY

The top hole section of THA04 was the first in the sequence to be drilled and commenced at 12:00hrs on 17th March 2006 with the rig skidding over slot #2. No problems were experienced skidding the rig or making up the 762mm (30") BHA.

The well was spudded and drilled to 217mMDRT with a 445mm (17.5") bit and 762mm (30") hole opener assembly. Bit walk was monitored with the remote operating vehicle's (ROV's) sonar system due to lack of visibility. The hole was displaced to pre-hydrated hi-vis gel mud prior to pulling out, running and cementing the 660mm (26") conductor in place, with the shoe at 217mMDRT. The ROV confirmed cement returns at seabed.

A low pressure riser and diverter system was installed in preparation for drilling the 584mm (23") hole section. Problems were experienced achieving a seal between the Maersk overshot and riser; the seal had to be changed out prior to achieving a seal. The diverter element also failed to close and test on the first attempt. A successful test on the diverter system was achieved after the lower flowline diverter seals were replaced.

The 584mm (23") hole section was directionally drilled to 638mMDRT with a Varel ETRIG bit using a mid stand Guar and connection Gel mud sweep regime. The hole was displaced with unweighted Pre-Hydrated Bentonite/ Drispac SL/R and a 1.15sg Kcl/ Drispac SL/R inhibitive pill prior to pulling out of the hole and retrieving the starter head wearbushing. Difficulty was experienced latching on to and pulling the wearbushing, resulting in the wearbushing being jammed on the running tool. As a contingency measure (due to the jammed wearbushing) the riser was drained and the diverter and riser retrieved and laid out prior to running and landing out the 473mm (18.625") casing in the starter head.

An inner string cementing stinger was made up and run in the hole complete with an AGE expandable packer. The expandable packer was included in the design to enable 500psi to be applied to and maintained on the inner diameter (ID) of the casing during the cement job, eliminating the risk of collapsed 473mm (18.625") casing due to the hole packing off. Cement was then pumped with cement returns confirmed at surface via the wellhead outlets. The pressure below the AGE packer was vented off prior to deflating the packer. At this point the drillpipe was forced up the hole and buckled. The drillpipe was buckled again when the stinger was stung out of the shoe resulting in 2 joints being bent and laid out along with the cement stinger. The compact wellhead housing incorporating landing shoulders for 340mm (13.375"), 273mm (10.75") and 178mm (7") casing and tubing hangers was then installed and tested on the rig critical path prior to the Thylacine South-1 appraisal well being drilled and plugged back from the same top hole / slot.

The rig was skidded back to THA04 after the 178mm (7)" liner had been run and cemented in THA03. The middle stage wear bushing was installed prior to nippling up the high pressure (HP) riser system, blow out preventor (BOP) and low pressure (LP) riser system c/w a Ball Joint Overshot (BJOS). The BJOS was incorporated in the system to mitigate the requirement to unlatch the BOP due to excessive movement in adverse weather conditions.

The BOP and wellhead connection was pressure tested, the BOP test tool run and a full BOP test carried out on the rig critical path prior to making up and running the 311mm (12.25") BHA which included a 309mm (12.125") GeoPilot and Security/DBS FMF3653Z PDC bit.

The well was displaced to SBM and the 311mm (12.25") section successfully kicked off from the top cement plug at 602.5mMDRT with the GeoPilot set at 85% deflection and 90deg azimuth. A formation integrity test was conducted to 2.0SG EMW prior drilling ahead to section TD at 2751mMDRT with one bit run (two were planned). Pyritic sandstone stringers, which were encountered throughout this interval, were drilled with varying weight on bit (WOB) and revolutions per minute (RPM) parameters. The well was circulated clean

prior to pulling out of the hole in preparation for running 244mm (9.625”) casing. The hole required wiping and back reaming at a number of areas due to tight hole and the BHA was pumped out the hole from 1334m to 610m due to the hole swabbing. Some tightly packed clay was found in one of the bit breakout slots with no other evidence of balling observed on the bit or BHA.

Difficulties were experienced running the wearbushing running tool and the wearbushing was tight to pull through the high pressure riser and BOPs. However, no debris was found on the tools or wearbushing at surface. A dedicated jetting run was made through the BOP and HP riser and the rams cycled prior to running, landing off and cementing in place the 244mm (9.925”) casing without any further hole related problems. The wellhead was then jetted with SBM prior to pumping out the riser, installing and pressure testing the 273mm (10.75”) casing hanger pack off.

A successful formation integrity test to an EMW of 2SG was conducted at 3m out from the 244mm (9.625”) casing shoe, prior to drilling ahead horizontally in the 216mm (8.5”) hole section. At 3194mMDRT a trip was made to the surface due to loss of signal from the FEWD and GeoPilot directional tools. After repairs, drilling ahead in the 216mm (8.5”) hole continued, using the same Security/DBS FMF3653Z bit. Tight hole at connections was experienced closer to the total depth (TD) of the well, which required each stand drilled to be reamed up to five times prior to making connections. TD was called by the subsurface team at a depth of 3987mMDRT as the hole was no longer in the reservoir sands and sufficient reservoir sands had been intersected. This TD was 892m less than was planned.

The mud system was treated and the rheology reduced in preparation for running the 178mm (7”) liner prior to back reaming out of the hole to the casing shoe, circulating bottoms up and pulling out of the hole to surface.

The 178mm (7”) liner was then installed and cemented in place. Circulation and rotation were required both to work past a tight spot at 3503m and at TD, after the cement head had been made up. Rotation was not maintained during the cement job due to the TDS torque limiter failing. The liner top packer was set prior to releasing the liner running tools and reverse circulating the excess cement from above the liner top out of the hole. The liner lap and casing was successfully pressure tested to 3000psi prior to pulling out of the hole and laying down the cement head and liner hanger running tools.

The BOPs were tested prior to running a dedicated clean up string (152mm (6”) bit, 178mm (7”) scraper, 102mm (4”) drill pipe, MFCT and 244mm (9.625”) casing scraper) and cleaning the well up in preparation for a dedicated clean up pill train being pumped, and displacing the SBM out of the hole with seawater. The well was inflow tested and circulated with seawater until the NTU readings dropped to 53 prior to the liner being displaced to Perflow and the 244mm (9.625”) casing to filtered brine. Integrity of the well was further confirmed with a 4000psi pressure test against the shear rams.

The well was then completed and cleaned up after THA03 had been cleaned up.

3 FORMATION SAMPLING

3.1 Ditch Cuttings

Approximately 830g samples of ditch cuttings were collected at five to twenty metre intervals from THA04 as detailed in Table 2 below. The washed and dried samples were split into four sets of 200 grams each and placed in bags and one thirty gram set of FIS sampels. One set of cuttings were also collected in "samplex" trays.

Table 2: Sampling Intervals

Sample Rate (m)	Depth from (mMDRT)	Depth to (mMDRT)
5	640	670
10	670	1530
20	1530	1560
5	1560	1670
10	1670	2720
5	2725	3987 TD

All samples were despatched to Core Laboratories Australia Pty. Ltd., 44 Belmont Avenue, Kewdale, WA for distribution (Appendix 6, Mudlogging FWR). Set 1 was despatched to Geoscience Australia, c/o Australian Geological Survey Organisation (AGSO), Symonston, ACT, and Set 2 to WA DoIR, Geological Survey Stores and Transport Depot, Carlisle WA. The remaining sets were retained by Woodside and are located at Core Laboratories Australia Pty. Ltd., 44 Belmont Avenue, Kewdale, WA.

3.2 Sidewall Cores

No sidewall samples were taken in THA04.

3.3 Conventional Cores

No cores were cut in THA04.

3.4 Mud Gas Samples

Twenty two Mud Gas Isotope Logging (MGIL) samples were collected from 1100 to 3842 mMDRT in THA04. The samples were sent to Isotech Laboratories, Champaign, Illinois and results of the analyses are given in Appendix 8.

4 FORMATION EVALUATION

4.1 Mudlogging

Geoservices provided mudlogging services for the drilling of THA04. This included conventional mudlogging, formation evaluation, drill monitoring, drill gas summaries and pressure evaluation services. Geoservices' End of Well Report and Formation Evaluation Log, Drilling Data Plot and Pressure Evaluation Log are contained in Appendix 6. The digital mudlogging data are also attached.

4.2 Lithological Logging

Lithology and hydrocarbon shows are described in the Daily Geological Reports (Appendix 4). THA04 cuttings were described by the Wellsite Geologists from 638 to 3987 mMDRT and these descriptions are recorded on the Wellsite Lithology Log (Appendix 5).

4.3 Hydrocarbon Indications

Chromatographic breakdown of the ditch gas, total gas and trip gas was recorded over the sampled intervals as shown in Table 3 and Appendix 6.

Table 3: Gas Summary

Gas	Depth Interval (mMDRT)	Range (%)	Depth Max Gas (mMDRT)
C1	638 – 3987	0.000 – 8.121	3544
C2	638 – 3987	0.000 – 0.343	3569
C3	638 – 3987	0.000 – 0.072	3569
iC4	638 – 3987	0.000 – 0.012	3052
nC4	638 – 3987	0.000 – 0.008	3569
iC5	638 – 3987	0.000 – 0.003	3591.5
nC5	638 – 3987	0.000 – 0.001	3591.5
TG	638 – 3987	0.000 – 12.59	3544

A maximum peak gas reading of 12.59%, C1 to C5, was recorded at a depth of 3544 mMDRT in THA04. No hydrocarbon fluorescence was observed during the drilling of THA04.

4.4 Logging While Drilling (MWD)

Logging While Drilling was performed by Sperry Drilling Services as summarised in Table 4.

Table 4: LWD Data Acquired

Hole Size	Tools	Depth Interval (mMDRT)	Notes
762 mm	ESS surveys	149.8 – 217.0	
584 mm	Directional surveys	217.0 – 638.0	
311 mm	ABG-PWD-EWR-P4-DGR-DM	638.0 – 2751.0	
216 mm	ABG-DM-DGR-EWR-P4-ALD-ACAL-CTN-PWD	2751.0 – 3194.0	MWD tool failure.
216 mm	ABG-DM-DGR-EWR-P4-ALD-CTN-PWD-ACAL	3194.0 – 3987.0	

Full details of the LWD operations are contained in Sperry's End of Well Report (Appendix 7).

4.5 Wireline Logging

No wireline logs were acquired in THA04.

4.6 Vertical Seismic Profiling (VSP)

No VSP data was acquired in THA04.

4.7 Biostratigraphy

No palynological analysis was performed on the THA04 cuttings.

4.8 Geochemistry

No geochemical analyses were performed on the THA04 samples.

4.9 Petrology

No petrological analyses were performed on the THA04 samples.

5 TESTING

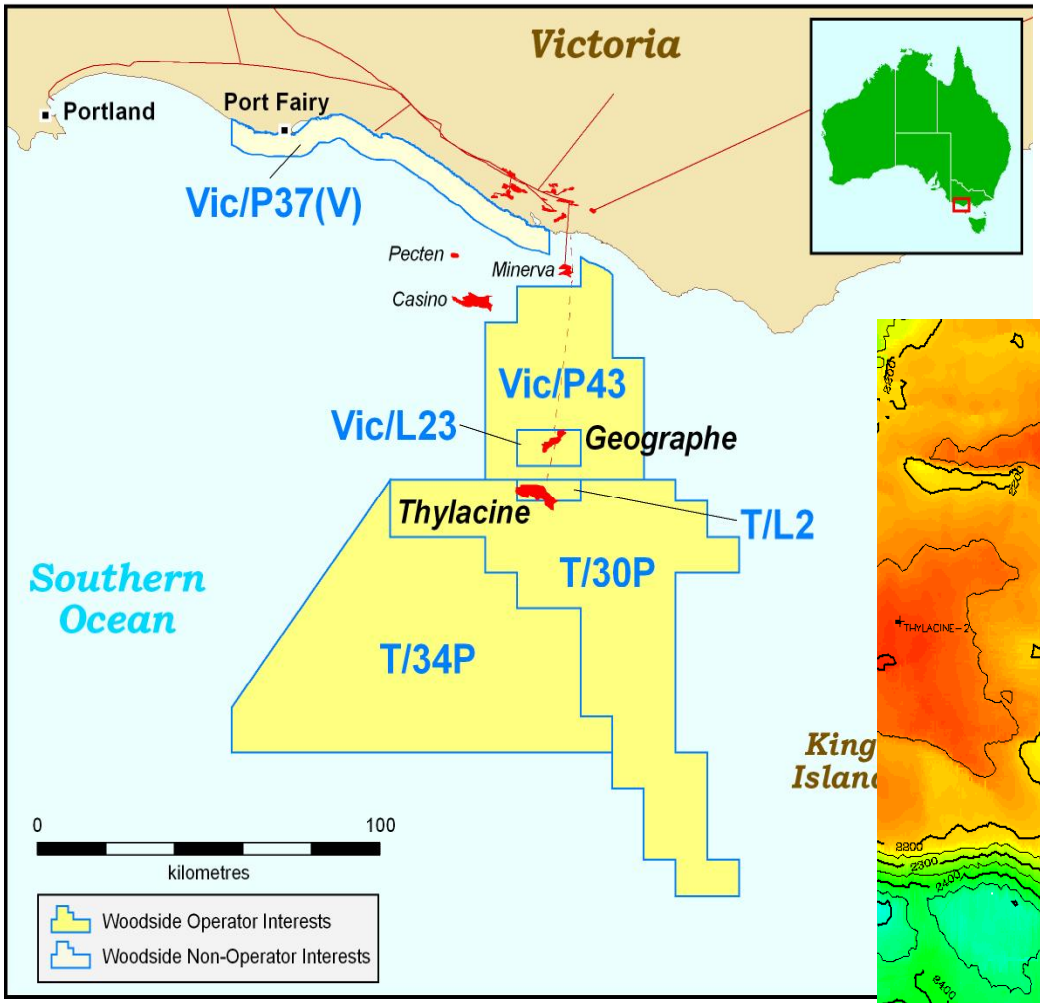
5.1 Pressure Testing and Fluid Sampling

No formation pressure data or fluid samples were obtained from THA04.

5.2 Production Testing

Production testing was carried out during the completion of THA04. The well was perforated at 2743.17 – 2798.51 mMDRT, 2812.35 – 2936.88 mMDRT, 2992.48 – 3068.57 mMDRT, 3151.41 – 3165.25 mMDRT, 3213.90 – 3310.75 mMDRT, 3338.42 – 3601.30 mMDRT, 3670.80 – 3712.31 mMDRT and 3833.78 – 3881.90 mMDRT. The well flowed 18.43 MMscf/d with a CGR of 4 bbl/MMscf on a 64/64” choke.

Thylacine Development Location Map



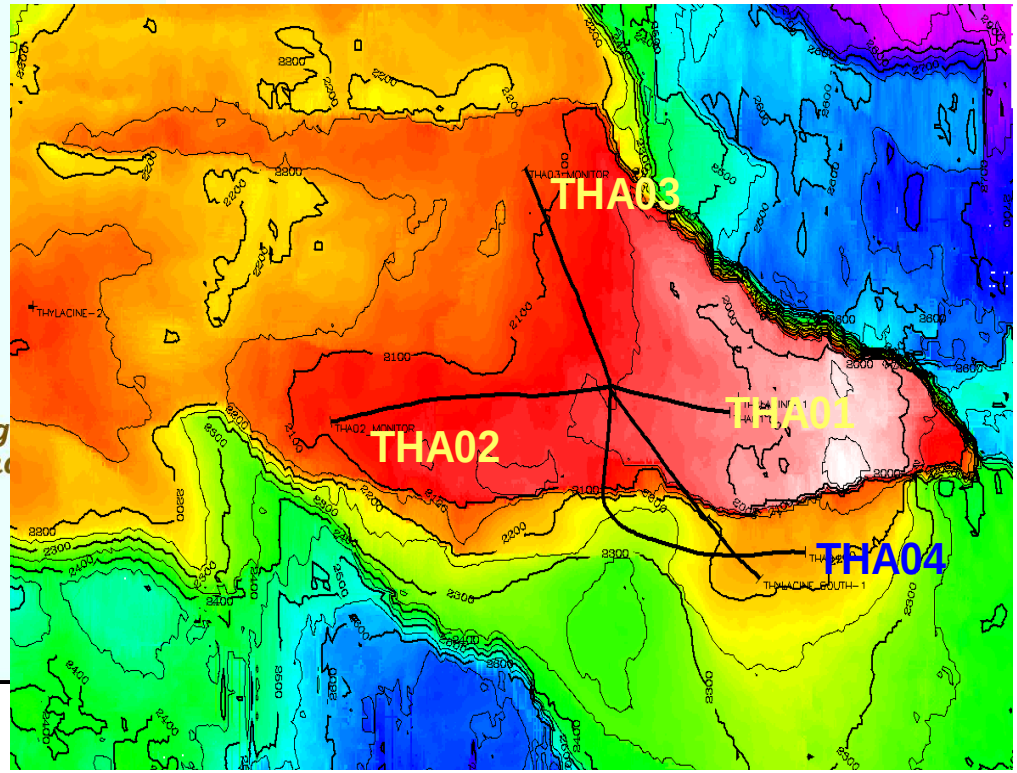


Figure 1

Figure 2: THA04 Days vs Depth Chart

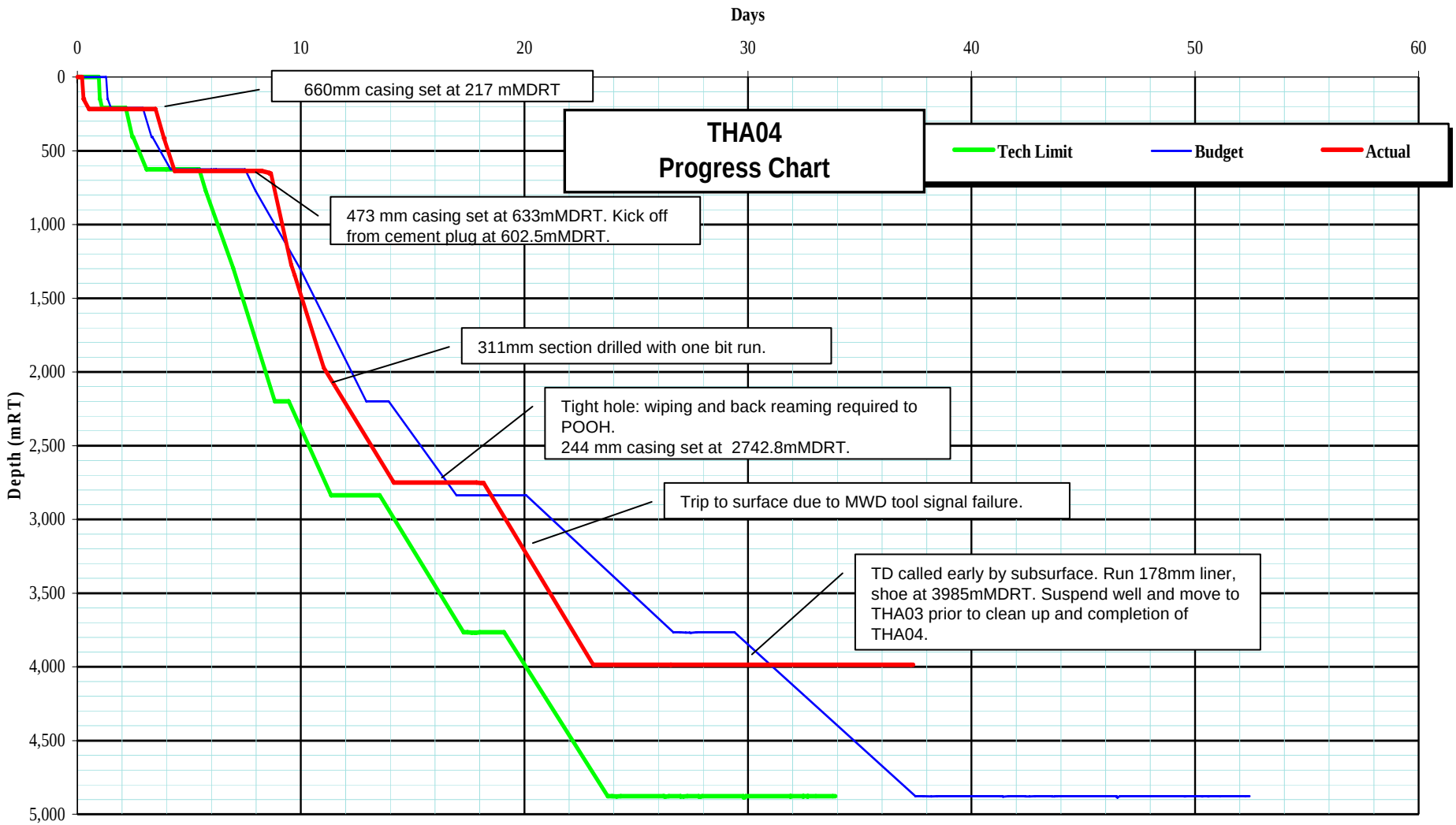
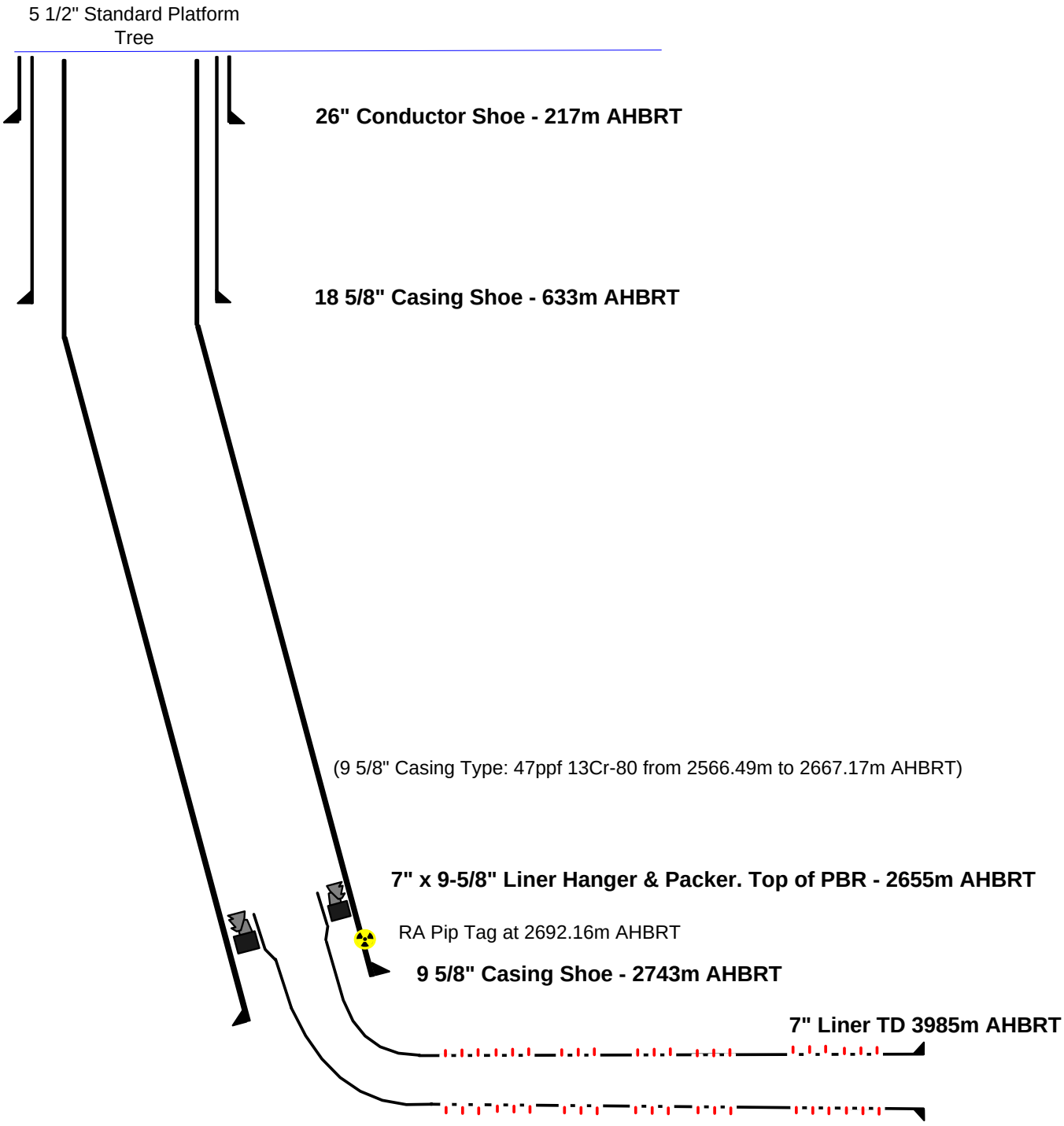


Figure 3: THA04 Well Schematic



Daily Drilling Reports

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 1 **Report Date: 17/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	0.50	MD (m):	190.00	Supervisor:	Stuart Job / Shaughan Corless
DFS:	0.17	Planned Depth (m):	4,870.00	Engineer:	
Budget Days:	52.40	TVD (m):	190.00	Rig OIM:	Lars Lovenholdt
Progress Days:	1.44	Progress (m):	40.00	RT-SL (m):	50.46
AFE Cost:	34,382,567.00 ($)				
Cumulative Total:	5,820,506.00 ($)				

Ops 00:00 to 06:00 : Drilled 762mm (30") hole from 190m - 217mRT (section TD). Circulated PHG sweep. POH.

Ops Summary : Made up and RIH 762mm (30") BHA. Spudded at 20:00 hrs. Drilled 762mm (30") hole from 150m - 190mRT.

Ops Look Ahead : Run and cement 660mm (26") conductor.

From	Dur. (hr)	Phase	Code	Class	Operation
12:00	1.50	MIRU	25	P	Pressure tested lines from mud pumps to lower TDS IBOP to 1.7MPa / 5 mins, 34.5MPa / 10 mins. Leak identified on port standpipe manifold. Starboard tested ok.
13:30	5.00	DRLCON	25	P	Made up and RIH 762mm (30") BHA.
18:30	1.50	DRLCON	25	P	Continued RIH BHA on 140mm DP. Tagged seabed at 150mRT.
20:00	1.50	DRLCON	02	P	Spudded well at 20:00 hrs. Drilled 762mm hole from 150m - 160mRT with low flow and rotary (1514 lpm, 10-35 RPM).
21:30	2.50	DRLCON	02	P	Drilled 762mm (30") hole from 160m - 190mRT (4165 lpm, 75 RPM).

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	150.00	190.00			N	Open Hole	30.000

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
SPUD MUD	1060	19.00	50.000	46.00	

CASING

Last Casing:	Next Casing:	Last BOP:

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	0.00
TRCs:		Stop/Start Cards		0.00
DSLTI		Stop/Start Tours		0.00

Safety Comments

Pre-spud meetings held for all rig personnel at three sessions : Sun 12/3 13:00, Thur 16/3 13:00, Fri 17/3 01:00.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 1 **Report Date: 17/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

PERSONNEL DATA

Company	No. People	Company	No. People
AGE	2	SPERRY SUN	4
VARCO	2	GEOSERVICES	3
MAERSK	50	WEATHERFORD	1
HALCO	2	WOODSIDE	4
Oil States	2	TMT	6
BHDF	4	TECHNIP	12
CAMERON	2	Keppel Prince	1
		Total POB :	95

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	Standby at Location		
Invincible Tide	ETD Portland 12:00 hrs		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.13							

REMARKS

- 30" BHA : 17-1/2" bit, 30" hole opener, float sub, 2 x 9-3/4" DC's, 29-3/4" stab, 1 x 9-3/4" DC, X/O, 3 x 8-1/4" DC's, X/O, 3 x HWDP.
- Report refers to THA04, as the 660 mm conductor casing and 473 mm surafce casing will be used for the THA04 production well.
- AFE and cost is based on Nov 2005 controlled cost estimate, and includes 1/5 split of the Campaign cost estimate.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 2 **Report Date: 18/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	1.50	MD (m):	217.00	Supervisor:	Stuart Job / Shaughan Corless
DFS:	1.17	Planned Depth (m):	4,870.00	Engineer:	
Budget Days:	52.40	TVD (m):	217.00	Rig OIM:	Lars Lovenholdt
Progress Days:	2.11	Progress (m):	27.00	RT-SL (m):	50.46
AFE Cost:	34,382,567.00 ($)				
Cumulative Total:	6,607,698.00 ($)				

Ops 00:00 to 06:00 : Cemented 660 mm (26") conductor (returns to seabed). POH with cementing stinger. Rigged up, rough cut and laid out conductor.

Ops Summary : Drilled 762mm (30") hole to section TD at 217m. POH. Ran 660mm (26") conductor and set on bottom. Ran DP cementing string to cement conductor.

Ops Look Ahead : Final cut conductor above sub-cellar deck. Install Sliip Lock housing and diverter. Pick up drillpipe.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	2.00	DRLCON	02	P	Drilled 762mm (30") hole from 190m - 217mRT (762mm section TD).
2:00	0.50	DRLCON	05	P	Displaced hole to 64m3 high vis PHG.
2:30	1.50	DRLCON	06	P	POH 5 stands DP. Intermittent problems with PRS.
4:00	1.00	DRLCON	06	P	POH 1 stand HWDP and 1 stand 210mm (8-1/4") DC's.
5:00	1.00	DRLCON	25	D	Unable to rack back DC's (PRS lowering function not responding). Traced problem to trip-out in control computer and rectified same.
6:00	1.50	DRLCON	06	P	Continued POH with BHA. Laid out 756mm (29.76") stabiliser
7:30	1.50	CSGCON	12	P	Rigged up to run 660mm (26") conductor. Held pre-job meeting.
9:00	7.50	CSGCON	12	P	Picked up shoe joint and checked float. Continued RIH with 660mm (26"), 25mm WT, R3, X56, Merlin Dif conductor. Total joints run : Uncoated shoe joint, 3 x uncoated intermediate joints, 9 x System 13 coated joints, 2 x System 12 coated joints, 1 x System 1a coated landing joint.
16:30	1.00	CSGCON	12	P	Changed from 660mm (26") conductor elevators to 140mm DP elevators.
17:30	1.00	CSGCON	12	P	Continued RIH with 660mm (26") conductor on DP. Landed conductor on bottom with shoe at 217mRT. Released running tool from landing joint.
18:30	0.50	CSGCON	12	P	POH with DP and running tool.
19:00	1.00	CSGCON	12	P	Rigged down casing running equipment.
20:00	2.00	CSGCON	12	P	Made up stab-in cement stinger and centraliser on DP and ran inside conductor to 203m. Broke circulation.
22:00	0.50	CSGCON	12	P	Laid out DP single. Picked up cementing stand. Stabbed cementing stinger into stab-in float shoe.
22:30	1.50	CSGCON	12	P	Established circulation down DP. Filled DP-conductor annulus with sea water. Confirmed returns at seabed and cement stinger not leaking.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	150.00	217.00			N	Open Hole	30.000

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
SPUD MUD	1060	18.00	50.000	43.00	

CASING

Last Casing:	Next Casing:	Last BOP:

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 2 **Report Date: 18/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports		0.00
TRCs:		Stop/Start Cards	4.00	4.00
DSLTI		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
AGE	2	SPERRY SUN	3
GEOSERVICES	3	MAERSK	50
WEATHERFORD	2	HALCO	2
WOODSIDE	4	Oil States	2
TMT	6	BHDF	5
TECHNIP	13	CAMERON	2
Keppel Prince	1		
		Total POB :	95

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	Standby at Location		
Invincible Tide	ETD Portland 12:00 hrs		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.13							

REMARKS

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 3 **Report Date: 19/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	2.50	MD (m):	217.00	Supervisor:	Stuart Job / Shaughan Corless
DFS:	2.17	Planned Depth (m):	4,870.00	Engineer:	
Budget Days:	52.40	TVD (m):	217.00	Rig OIM:	Lars Lovenholdt
Progress Days:	2.74	Progress (m):	0.00	RT-SL (m):	50.46
AFE Cost:	34,382,567.00 ($)				
Cumulative Total:	7,074,033.00 ($)				

Ops 00:00 to 06:00 : Continued rigging up diverter. Filled riser and commenced function testing diverter. Connection between overshot and riser joint leaking. Pulled back & replaced seal. Re-ran riser (holding HSP ok). P/U stand DP & RIH to pressure test diverter.

Ops Summary : Cemented 660mm (26") conductor. POH inner string cementing stinger. Rough cut and laid out conductor running jt. Final cut and dressed conductor stub. P/U DP whilst installing sliplock housing on conductor. M/U low pressure riser, overshot and diverter.

Ops Look Ahead : Make up and RIH 584mm (23") BHA. Drill out conductor and drill ahead.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.50	CSGCON	12	P	Held pre-job meeting. Tested lines to 21MPa. Pumped 1.6m3 DW ahead.
0:30	1.00	CSGCON	12	P	Mixed and pumped single cement slurry : 630sx class G mixed with 12.3m3 mix fluid (1% BWOC CaCl2) to give 20.5m3 of 1.90SG slurry. Displaced slurry with 2.1m3 DW. Bled off - float held. Estimated 5m3 cement returns to seabed based on ROV observations.
1:30	1.50	CSGCON	12	P	Rigged down cement line. Stung out of shoe and racked back cementing stand. Circulated cementing string clean with SW. POH with cementing stinger. Laid out cementing stinger and stabiliser.
3:00	3.50	CSGCON	12	P	Cut holes and rigged slings to top of conductor. Rough cut and laid out upper conductor running joint. Performed TDS inspection whilst cutting conductor.
6:30	5.50	CSGCON	12	P	Final cut and dressed conductor stump to 0.445m above top of sub-cellar deck steel. Rigged up to run sliplock housing. Continued commissioning work on PRS and PLS.
12:00	6.00	CSGCON	12	P	Lowered and installed slip lock housing onto conductor. Tested seals to 3.5MPa / 5 minutes. Picked up and racked back 12 stands DP whilst installing sliplock housing. Top of sliplock housing 1.158m above sub-cellar deck top of steel - Acceptance criteria #1 satisfied.
18:00	2.50	CSGCON	12	P	Lowered and made up WEL low pressure riser onto sliplock housing.
20:30	3.50	CSGCON	12	P	Made up Maesk overshot, riser and diverter onto WEL low pressure riser.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	150.00	217.00			N	Open Hole	30.000

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
SPUD MUD	1060	19.00	55.000	45.00	

CASING

Last Casing:	Next Casing:	Last BOP:

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 3 **Report Date: 19/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports		0.00
TRCs:		Stop/Start Cards	5.00	9.00
DSLTI		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
AGE	2	SPERRY SUN	3
GEOSERVICES	3	MAERSK	50
WEATHERFORD	2	HALCO	2
WOODSIDE	4	Oil States	2
TMT	6	BHDF	5
TECHNIP	13	CAMERON	2
Keppel Prince	1		
		Total POB :	95

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	Standby at Location		
Invincible Tide	ETD Portland 12:00 hrs		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.13							

REMARKS

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 4 **Report Date: 20/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	3.50	MD (m):	217.00	Supervisor:	Stuart Job / Shaughan Corless
DFS:	3.17	Planned Depth (m):	4,870.00	Engineer:	
Budget Days:	52.40	TVD (m):	217.00	Rig OIM:	Lars Lovenholdt
Progress Days:	2.90	Progress (m):	0.00	RT-SL (m):	50.46
AFE Cost:	34,382,567.00 ($)				
Cumulative Total:	7,266,679.00 ($)				

Ops 00:00 to 06:00 : RIH. Drilled out conductor shoe. Directionally drilled 584mm (23") hole from 218m - 301mMD RT.

Ops Summary : Function tested diverter. Pulled diverter to change failed riser seal. Investigated oil leak from diverter - changed out lower flowline seal. Pressure tested diverter. Made up and RIH 584mm (23") BHA.

Ops Look Ahead : Drill ahead.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	1.50	AH	BPR	P	Continued rigging up diverter.
1:30	1.00	AH	BPT	P	Filled riser and function tested diverter. Connection between Maersk overshot and riser leaking.
2:30	2.50	AH	REP	D	Retrieved diverter/riser. Changed out connector seal and re-ran diverter/riser. Refilled riser - holding static pressure ok.
5:00	0.50	AH	BPT	D	Picked up one stand DP and ran into diverter.
5:30	2.00	AH	REP	D	Closed diverter and attempted to pressure test. Element not sealing. Opened diverter - hydraulic oil leaked from inside diverter system onto rig floor and platform below. Investigated source of oil leak.
7:30	6.00	AH	REP	D	Retrieved diverter to rig floor. Tested insert packer lines and flowline seals. Lower flowline seals found to be source of leak. Replaced same.
13:30	1.00	AH	REP	D	Installed diverter. Tested seals and flushed system.
14:30	1.00	AH	BPT	P	Closed diverter. Tested diverter element and diverter valves to 1.0MPa (150psi) ok.
15:30	1.50	AH	DRT	P	Rigged up to pick up DP. Rearranged DC's in derrick. Picked up and racked back DP. Total of 22 stands racked back in derrick.
17:00	6.00	AH	TRP	P	Made up and RIH 584mm (23") BHA and 2 stands DP to 204m. Set PDM angle to 1.15deg. Scribed PDM/DWD offset (314deg).
23:00	0.50	AH	TRP	P	Installed hydraulic slips.
23:30	0.50	AH	TRP	P	Shallow tested PDM/DWD. Recorded flow parameters.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	150.00	217.00			N	Open Hole	30.000

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
SPUD MUD	1051	21.00	53.000	45.00	

CASING

Last Casing:	Next Casing:	Last BOP: 15/03/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 4 **Report Date: 20/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	1.00	1.00
TRCs:		Stop/Start Cards	3.00	12.00
DSLTI		Stop/Start Tours		0.00

Safety Comments

Incident report in progress in relation to hydraulic oil leak from diverter. Preliminary classification E3 (E) D3 (A).

PERSONNEL DATA

Company	No. People	Company	No. People
AGE	2	SPERRY SUN	5
GEOSERVICES	3	MAERSK	50
WEATHERFORD	2	HALCO	2
WOODSIDE	7	BHDF	8
SCHLUMBERGER	1	TECHNIP	15
CAMERON	2	Keppel Prince	1
		Total POB :	98

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
GEL, FRESH	MT		45.00	DIESEL	MT		147.00
BARITE BULK	MT		129.00	WATER, POTABLE	MT		308.00
WATER, DRILLING	MT		216.00	CEMENT	MT		117.00

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	Standby at Location		
Invincible Tide	Arrived location 22:40		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.13							

REMARKS

* 23" BHA : Bit, PDM, Float sub w/ float, 9-1/2"DWD, 9-1/2"NMDC, 23" stab, 9-3/4"DC, X/O, 3 x 8-1/4"DC, 8" Jars, 2 x 8-1/4"DC, X/O, 6 x 5-1/2"HWDP.
* Bit : 23" Varel ETR 16 (115). S/N 218184, nozzles - 22/22/16 & 20 CJ.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 5 **Report Date: 21/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	4.50	MD (m):	638.00	Supervisor:	Stuart Job / Shaughan Corless
DFS:	4.17	Planned Depth (m):	4,870.00	Engineer:	
Budget Days:	52.40	TVD (m):	637.40	Rig OIM:	Lars Lovenholdt
Progress Days:	4.23	Progress (m):	421.00	RT-SL (m):	50.50
AFE Cost:	34,382,567.00 ($)				
Cumulative Total:	7,595,260.00 ($)				

Ops 00:00 to 06:00 : POH. Took 9T (20klb) overpull at 293m. Worked through tight spot from 293m - 291mMD several times until pulling freely. Hole in good condition otherwise with negligable overpull. L/O DC and stab. R/B BHA. RIH to retrieve wear bushing.

Ops Summary : Continued RIH. Drilled out 660mm (26") shoe. Drilled 584mm (23") hole from 217mMD - 638mMD, nudging well to the south. Circulated sweeps and spotted weighted pill. POH to run 473mm (18-5/8") casing.

Ops Look Ahead : Run and cement 473mm (18-5/8") casing.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.50	D23	TRP	P	Continued RIH. Tagged TOC at 216.5mRT.
0:30	1.00	D23	DCP	P	Drilled out cement and shoe to 217mRT.
1:30	20.50	D23	DRM	P	Directionally drilled 584mm (23") hole from 217m - 638mMD RT (section TD). Average on bottom ROP 28m/hr. Drilled 249m in rotary mode, 172m in slide mode. Drilling parameters at end of section : 100RPM (surface), WOB 7 - 16T (15 - 35klb), Torque 407 - 814 daN.m (3 - 6 kft-lb), 4315 lpm (1140 gpm), 15.2MPa (2200psi). Drilled with seawater, 12m3 (75bbl) guar gum sweeps on the first two singles of each stand and 16m3 (100bbl) PHG spotted around BHA prior to connections. Based on return flow readings there were no losses during drilling.
22:00	1.00	D23	PCD	P	Swept hole with 32m3 (200bbls) PHG. Spotted 80m3 (500bbls) unweighted Type 1 PHG / Drispac SL/R then 80m3 (500bbls) 1.15SG Type 3 KCl / Drispac SL/R on bottom.
23:00	1.00	D23	TRP	P	Flow checked 10 mins (negative). POH to 503mMD.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	150.00	217.00			N	Casing	30.000
584mm (23")	217.00	638.00	26.000	217.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
SPUD MUD	1051	22.00	54.000	48.00	

CASING

Last Casing:	Next Casing:	Last BOP: 15/03/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R
218184	584.00	Varel	ETR1G	NEW				217.00	638.00	- - - - - -

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 5 **Report Date: 21/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
TRCs:		Stop/Start Cards	0.00	12.00
DSLTI		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
AGE	2	SPERRY SUN	5
GEOSERVICES	2	MAERSK	50
WEATHERFORD	2	HALCO	2
WOODSIDE	6	BHDF	8
SCHLUMBERGER	1	TECHNIP	15
		Total POB :	95

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
GEL, FRESH	MT	10.00	35.00	WATER, POTABLE	MT	35.00	291.00
CEMENT	MT		170.00	BARITE BULK	MT		129.00
WATER, DRILLING	MT	86.00	225.00	DIESEL	MT	9.00	132.00

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Invincible Tide	Standby at Location		
Maersk Supporter	Departed location 20:25, ETA 07:00.		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.13							

REMARKS

* 23" BHA : Bit, PDM, Float sub w/ float, 9-1/2"DWD, 9-1/2"NMDC, 23" stab, 9-3/4"DC, X/O, 3 x 8-1/4"DC, 8" Jars, 2 x 8-1/4"DC, X/O, 6 x 5-1/2"HWDP.
* Bit : 23" Varel ETR 16 (115). S/N 218184, nozzles - 22/22/16 & 20 CJ.

Totals for bit :
421m drilled,15.2 hrs on bottom, 18.8 circ hrs, 173 krevs.

Final survey : 602.04mMD, 3.46 deg inc, 176.60 deg azi, 601.53mTVD, 21.24mS, 0.97mE, 18.24m VS.
Proj to TD : 638.00mMD, 4.50 deg inc, 176.60 deg azi, 637.40mTVD, 23.73mS, 1.12mE, 20.40m VS.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 6 **Report Date: 22/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	5.50	MD (m):	638.00	Supervisor:	Stuart Job / Shaughan Corless
DFS:	5.17	Planned Depth (m):	4,875.00	Engineer:	
Budget Days:	52.40	TVD (m):	637.40	Rig OIM:	George Clark
Progress Days:	4.65	Progress (m):	0.00	RT-SL (m):	50.50
AFE Cost:	34,382,567.00 ($)				
Cumulative Total:	8,234,811.00 ($)				

Ops 00:00 to 06:00 : Continued running 473mm (18-5/8") casing. Made up casing hanger. Ran and landed casing hanger in sliplock housing with casing shoe set at 633mMD RT. Retrieved and laid out hanger running tool. R/B csg running tool.

Ops Summary : Continued POH with 584mm (23") BHA. Retrieved wear bushing (3.5hrs downtime due to jammed wear bushing). Retrieved diverter and riser. Made up casing running tool and casing hanger running tool. Commenced running 473mm (18-5/8") casing.

Ops Look Ahead : Cement casing. Nipple up compact housing wellhead, BOP's and riser.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	1.50	D23	TRP	P	Continued POH with DP. Took 9T (20klb) overpull at 293m. Worked through tight spot from 293m - 291m several times until pulling freely.
1:30	3.00	D23	TRP	P	Continued POH racking back BHA. Laid out 584mm (23") stabiliser and 248mm (9-3/4") DC. Bit grade : 1-1-BU-A-E-I-WT-TD.
4:30	0.50	C23	WHM	P	RIH with retrieval tool to retrieve wear bushing.
5:00	3.50	C23	REP	D	Unable to rotate drillstring (with chain tong) to J into wear bushing. Attempted to pick back up - unable to move or rotate retrieval tool. Attempted to work free with up to 9T (20klb) overpull without success. Continued attempting to work tool free. Succeeded in gaining limited rotation. Running tool and wear bushing then came free with 12T (26klb) overpull. Retrieved same to surface. Observed wear bushing jammed onto running tool. Inspected 26" sliplock housing : Minor scoring on landing shoulder and scratching on environmental seal area (repaired). Main seal area ok.
8:30	5.50	C23	REP	U	Drained riser. Retrieved diverter and riser (contingency measure due to jammed wear bushing).
14:00	1.00	C23	CLC	P	Made up the 473mm (18-5/8") DW-2 running tool to a stand and racked back.
15:00	2.50	C23	CLC	P	Made up the 473mm (18-5/8") casing hanger to the casing hanger running tool and laid out.
17:30	0.50	C23	CLC	P	Held pre-job meeting. Rigged up to run casing.
18:00	6.00	C23	CLC	P	Picked up shoe joint. Continued RIH with 473mm (18-5/8"), 140.9kg/m (94.5ppf), X56, Swift DW2, R3 casing to 370mMD.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	150.04	217.04			N	Casing	30.000
584mm (23")	217.04	638.04	26.000	217.04		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
SPUD MUD	1040	15.00	13.000	5.00	

CASING

Last Casing: 26.000 in @ 217.04 m	Next Casing:	Last BOP: 15/03/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R
218184	584.00	Varel	ETR1G	NEW				217.04	638.04	- - - - - -

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 6 **Report Date: 22/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
TRCs:		Stop/Start Cards	4.00	16.00
DSLTI		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
AGE	2	SPERRY SUN	5
GEOSERVICES	3	MAERSK	51
WEATHERFORD	2	HALCO	2
WOODSIDE	6	BHDF	8
SCHLUMBERGER	1	TECHNIP	15
		Total POB :	97

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
WATER, POTABLE	MT	38.00	298.00	WATER, DRILLING	MT	76.00	149.00
CEMENT	MT		170.00	DIESEL	MT		120.00
BARITE BULK	MT		129.00	GEL, FRESH	MT		30.00

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Invincible Tide	Standby at Location		
Maersk Supporter	In transit to Guardian.		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.13							

REMARKS

* Bit : 23" Varel ETR 16 (115). S/N 218184, nozzles - 22/22/16 & 20 CJ.
Totals for bit :
421m drilled,15.2 hrs on bottom, 18.8 circ hrs, 173 krevs.
Bit grading : 1-1-BU-A-E-I-WT-TD.

Pressure tested BOP's whilst running casing.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 7 **Report Date: 23/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	6.50	MD (m):	638.00	Supervisor:	Stuart Job / Shaughan Corless
DFS:	6.17	Planned Depth (m):	4,875.00	Engineer:	
Budget Days:	52.40	TVD (m):	637.40	Rig OIM:	George Clark
Progress Days:	5.23	Progress (m):	0.00	RT-SL (m):	50.50
AFE Cost:	34,382,567.00 ($)				
Cumulative Total:	8,716,372.00 ($)				

Ops 00:00 to 06:00 : POH cementing stinger. Ran compact wellhead. Tested environmental seals. Nippled up wellhead valves.

Ops Summary : Coninued running 473mm (18-5/8") casing. Made up hanger, ran and landed in sliplock housing. Ran inner string cementing stinger on DP with AGE packer. Cemented casing. Damaged two joints DP after singing out with cementing stinger. Laid out damaged DP.

Ops Look Ahead : Complete N/U and testing wellhead. Nipple up riser and BOP's. Pressure test.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	2.50	C23	CLC	P	Continued RIH with 473mm (18-5/8"), 140.9kg/m (94.5ppf), X56, Swift DW2, R3 casing to 600mMD. Total of 52 joints run including shoe joint.
2:30	1.00	C23	CLC	P	Picked up and made up 473mm hanger joint / running tool. Changed out hanger seals.
3:30	1.00	C23	CLC	P	Changed to DP elevators. Made up casing running tool. RIH casing on DP and landed hanger in sliplock housing. 473mm (18-5/8") shoe set at 633mRT.
4:30	0.50	C23	CLC	P	Pressure tested hanger seals to 3.5/13.8MPa (500/2000psi) for 5 / 15 minutes.
5:00	1.00	C23	CLC	P	Retrieved running tools to rig floor. Broke out casing running tool and racked back. Laid out hanger running tool. Cleared rig floor of casing running equipment. Note : Acceptance Criteria #3 satisfied - Top of 473mm (18-5/8") casing hanger measured as 59mm above top sliplock housing.
6:00	3.00	C23	CLC	P	Made up inner string cementing stinger and centraliser on DP and RIH to 578m.
9:00	4.00	C23	CLC	P	Made up AGE packer to DP. Connected control lines to packer. RIH to 611m and broke circulation. Made up cementing stand. Stabbed cementing stinger into stab-in float shoe.
13:00	2.00	C23	CLC	P	Established circulation down DP. Energised AGE packer inside 473mm (18-5/8") casing. Pressured up below packer to 3.5MPa (500psi).
15:00	3.00	C23	CLC	P	Held pre-job meeting. Cemented casing as follows : Lead - 1408sx class G with 64m3 (400bbls) mix fluid to give 89.4m3 (559bbls) of 1.50SG slurry. Tail - 1176sx class G with 23.2bbls (145bbls) mix fluid to give 39.2m3 (245bbls) of 1.91SG slurry. Cement returns observed at surface during late stages of pumping lead slurry. Note : Acceptance Criteria #4 satisfied - approx 40m3 (250bbls) cement returns to surface during cement job.
18:00	0.50	C23	CLC	P	Broke out side entry sub and inserted drillpipe wiper plug. Displaced plug with 0.8m3 (5bbls) cement followed by 6.3m3 (39bbls) seawater. Final displacement pressure 4.0MPa (580psi) at 0.10m3/min (0.6BPM). Bumped plug to 7.1MPa (1030psi) for 5 minutes. Bled off - float held.
18:30	0.50	C23	CLC	P	Bled off pressure below AGE packer and bled off AGE packer inflation pressure. Drillpipe was forced upwards causing it to buckle during this operation.
19:00	1.00	C23	CLC	P	Rigged down cementing lines. Stung out of shoe with cementing stinger and broke circulation. Drillstring was forced upward buckling the DP again.
20:00	4.00	C23	REP	D	Made up pups to enable racking back of cementing stand. Rigged up, broke out and laid out two joints bent DP. Inspected TDS and PRS.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	150.00	217.00			N	Casing	30.000
584mm (23")	217.00	638.00	26.000	217.00		Open Hole	23.000

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 7 **Report Date: 23/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

CASING

Last Casing:	Next Casing:	Last BOP: 23/03/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
TRCs:		Stop/Start Cards	2.00	18.00
DSLTI		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
FUGRO	3	AGE	2
SPERRY SUN	5	GEOSERVICES	4
MAERSK	51	HALCO	2
WOODSIDE	9	BHDF	8
SCHLUMBERGER	1	TECHNIP	12
CAMERON	2	Keppel Prince	1
		Total POB :	100

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
GEL, FRESH	MT		30.00	WATER, POTABLE	MT		319.00
BARITE BULK	MT		129.00	DIESEL	MT		108.00
CEMENT	MT	115.00	55.00	WATER, DRILLING	MT	22.00	127.00

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Invincible Tide	Departed location 22:20. ETA Portland 07:00.		
Maersk Supporter	On location 03:00hrs. On standby.		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.13							

REMARKS

Completed stump testing BOP's : Blind rams, pipe rams and annular to 1.7 / 17.3 MPa (250 / 2500 psi) for 5 / 10 minutes.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 8 **Report Date: 24/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	7.50	MD (m):	638.00	Supervisor:	Stuart Job / Shaughan Corless
DFS:	7.17	Planned Depth (m):	4,875.00	Engineer:	
Budget Days:	52.40	TVD (m):	637.40	Rig OIM:	George Clark
Progress Days:	5.36	Progress (m):	0.00	RT-SL (m):	50.50
AFE Cost:	34,382,567.00 ($)				
Cumulative Total:	9,078,337.00 ($)				

Ops 00:00 to 06:00 : Suspended THA04 operations from 10:00hrs (for daily reporting aspects), 24 Mar 2006. Thylacine South-1 operations commenced from start of nippling up Cameron HP riser and 540mm (21-1/4") BOP's.

Ops Summary : POH cementing string. Installed and tested compact wellhead. Laid out cementing stand.

Ops Look Ahead : Pressure test casing / wellhead. Complete welding LP riser whilst picking up DP. Nipple up LP riser and diverter.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	1.50	C23	CLC	P	Continued POH with DP cementing string. Laid out centraliser and stinger.
1:30	2.00	C23	WHM	P	Picked up compact wellhead to rig floor and made up running tool / stand. Cleaned 473mm (18-5/8") hanger neck and void. Ran and landed compact wellhead with valve orientation 32 deg to platform north (Acceptance Criteria #6 satisfied re valve orientation).
3:30	1.00	C23	WHM	P	Made up compact wellhead lock ring. Tested environmental seals to 3.5 / 13.8 MPa (500 / 2000psi) for 5 / 15 minutes.
4:30	3.00	C23	WHM	P	Made up compact wellhead valves. Energised P seals with plastic packing. Retrieved wellhead running tool. Tested P seals to 3.5 / 20.7 MPa (500 / 3000 psi) for 5 / 15 minutes (satisfying Acceptance Criteria #7).
7:30	1.00	C23	WHM	P	Confirmed measurement from RT to wellhead : RT - top sliplock housing = 29.24m. RT - top compact housing = 27.624m (Acceptance Criteria #5 satisfied - top of compact housing 1.616m above top of sliplock housing). Installed platform hatch covers.
8:30	1.50	C23	CLC	P	Laid out cementing stand from derrick. Cleared rig floor.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	50.00	217.00			N	Casing	30.000
584mm (23")	217.00	638.00	26.000	217.00		Open Hole	23.000

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)

CASING

Last Casing:	Next Casing:	Last BOP: 23/03/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 8 **Report Date: 24/03/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
TRCs:		Stop/Start Cards	10.00	28.00
DSLTI		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
FUGRO	2	SPERRY SUN	5
GEOSERVICES	6	MAERSK	50
HALCO	2	WOODSIDE	8
BHDF	8	TECHNIP	14
CAMERON	2	Keppel Prince	1
		Total POB :	98

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
GEL, FRESH	MT		53.00	CEMENT	MT		55.00
DIESEL	MT	12.00	96.00	WATER, DRILLING	MT	32.00	215.00
BARITE BULK	MT	75.00	54.00	WATER, POTABLE	MT	26.00	338.00

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby.		
Invincible Tide	ETA 07:00 hrs to Berth Portland		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.13							

REMARKS

SBM awareness sessions presented at both pretour meetings.
Drilling Superintendent (John Dickson) management visit to rig conducted over last two days.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 9 **Report Date: 10/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	7.92	MD (m):	638.00	Day WSM:	Shaughan Corless
DFS:	7.59	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	637.00	Rig OIM:	George Clark
Progress Days:	6.20	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 10,570,506.00 ($)

Ops 00:00 to 06:00 : Pressure tested BOP's. Pulled BOP test tool. Installed BJOS and Diverter.

Ops Summary : Skidded rig over well. Ran HP Riser. Installed 340mm (13 3/8") Dummy Hanger. Nippled up BOPs. Pressure tested wellhead connection, shear rams against 473mm (18 5/8") casing. Fine tuned rig over well. Ran BOP test tool.

Ops Look Ahead : Complete installation of BJOS and diverter. Slip & cut drilling line. Make up 311mm (12 1/4") BHA. RIH. Displace to SBM. Drill cement inside casing.

From	Dur. (hr)	Phase	Code	Class	Operation
14:00	0.50	D12	SAF	P	Held toolbox talk in preparation for skidding to THA04. Completed pre skid check list.
14:30	1.50	D12	RMV	P	Skidded rig over THA04.
16:00	1.00	D12	BPR	P	Removed main deck hatch cover. Installed HP riser.
17:00	1.50	D12	TRP	P	Made up and ran in hole with 340mm (13 3/8") dummy casing hanger on stand HWDP. Set dummy casing hanger. Pulled back to top of HP riser and checked rig alignment to well. Rig off center by 15cm Port and 10cm Aft. Pulled back and laid out running tool.
18:30	0.25	D12	SAF	P	Held tool box talk in preparation for nippling up BOPs.
18:45	1.25	D12	BPR	P	Nippled up BOPs to HP riser.
20:00	2.50	D12	PRE	P	Filled riser and BOPs. Closed shear rams. Pressure tested 473mm (18 5/8") casing, wellhead connector and BOP shear rams 1.7MPa (250psi) 5mins and 14.5MPa (2100psi) 1hr - good tests. Concurrently completed TDS major service. Stripped down and cleaned BJOS and diverter.
22:30	0.25	D12	SAF	P	Held toolbox talk in preparation for skidding the rig.
22:45	0.25	D12	RMV	P	Skidded the rig 15cm starboard and 10cm forward to centralise rig over well.
23:00	1.00	D12	TRP	P	Made up BOP test tool and ran in hole.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
Sea water	1030				

CASING

Last Casing:	Next Casing:	Last BOP:

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 9 **Report Date: 10/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	12.00	40.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	4	_Others	6
GEOSERVICES	6	OMS	40
MAERSK	19	HALCO	2
WOODSIDE	10	BHDF	7
TECHNIP	3	CAMERON	1
		Total POB :	98

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
WATER, POTABLE	MT	0.00	393.00	DIESEL	m3	0.00	150.00
BARITE BULK	MT	0.00	163.00	BRINE	BBLs	0.00	1,005.00
GEL, FRESH	MT	0.00	49.00	CEMENT HTB	MT	0.00	46.00
CEMENT	MT	0.00	117.00	HELI FUEL	ltrs	0.00	5,770.00
WATER, DRILLING	MT	0.00	261.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	8.50	1.800	2.500				11.00

REMARKS

No accidents or incidents over past 24hrs.

NOPSA audit team onboard for audit of Guardian and Thylacine platform.

Weather Forecast: HS 3.5 - 2m untill Sunday PM then picking up to 7.5m by Tuesday AM. Winds gusting to 25 - 15kn, picking up to 40kn gusts on Sunday AM.

THA02 'A' Annulus: 19:30hrs - 'A' annulus pressure 6,000kpa. Opened Tree valves THP 18,000kpa. Closed tree valves and vented off above.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 10 **Report Date: 11/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	9.50	MD (m):	638.00	Day WSM:	Shaughan Corless
DFS:	9.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	637.00	Rig OIM:	George Clark
Progress Days:	6.50	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 10,765,911.00 ($)

Ops 00:00 to 06:00 : Displaced to SBM. Commenced drilling cement inside casing.

Ops Summary : Pressure tested BOP's. Pulled BOP test tool. Installed BJOS and Diverter. Slipped & Cut drilling line. Made up 311mm (12 1/4") BHA. RIH.

Ops Look Ahead : Dress off cement. Kick off cement plug. Drill 311mm (12 1/4") hole.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.50	D12	TRP	P	Landed BOP test plug. Flushed kill and choke lines.
0:30	5.50	D12	PRE	P	Pressure tested BOP Pipe Rams and Annular. 1.7MPa (250psi) 5mins and 24.1MPa (3500psi) 10mins.
5:00	0.50	D12	TRP	P	Laid out BOP test tool.
5:30	3.50	D12	BPR	P	Picked up and assembled Diverter and BJOS. Installed new seals on each connection.
9:00	0.50	D12	BPR	P	Installed Diverter and BJOS.
9:30	1.00	D12	TRP	P	Installed middle stage wearbushing.
10:30	1.50	D12	PSI	P	Slipped and cut drill line.
12:00	0.25	D12	SAF	P	Held toolbox talk in preparation for making up BHA#3.
12:15	3.25	D12	TRP	P	Made up 311mm (12 1/4") bit, GeoPilot and MWD assembly.
15:30	0.50	D12	TRP	P	Plugged in and powered up MWD tools.
16:00	2.00	D12	TRP	P	RIH 2 stands 203mm (8") DC's. Laid out 3 x 203mm (8") DC's and 1 x Jar.
18:00	0.50	D12	TRP	P	Picked up and RIH with 4 x HWDP singles from cantilever.
18:30	1.00	D12	PCD	P	Made up TDS and carried out shallow pulse test. Inspected flowline and trip tank line for leaks. Flowline leaking.
19:30	1.50	D12	TRP	P	Continued RIH with HWDP (total of 12 extra singles picked up).
21:00	1.50	D12	TRP	P	Ran in hole 140mm (5 1/2") drillpipe from 264m to 582m filling every 10 stands.
22:30	1.00	D12	PCD	P	Made up TDS and established circulation. Washed down and tagged top of cement 602.5m. Concurrently: Checked flowline for leaks, required further work to stop leaks.
23:30	0.50	D12	TRP	P	Broke in GeoPilot seals. Completed sealing flowlines.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (AusCF2004)	1250	38.00	9.576	9.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 10 **Report Date: 11/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	2.00	42.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	4	_Others	2
GEOSERVICES	6	OMS	39
MAERSK	17	HALCO	2
WOODSIDE	6	BHDF	7
		Total POB :	86

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
HELI FUEL	ltrs	225.00	5,545.00	DIESEL	m3	11.00	239.00
GEL, FRESH	MT	0.00	49.00	WATER, DRILLING	MT	9.00	472.00
CEMENT HTB	MT	0.00	46.00	WATER, POTABLE	MT	30.00	401.00
CEMENT	MT	0.00	117.00	BARITE BULK	MT	5.00	158.00
BRINE	BBLs	0.00	1,005.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	8.58	2.500	1.800				12.00

REMARKS

No accidents or incidents over past 24hrs.

BHA #3: 311mm (12-1/4") Bit #3, Geopilot; NM flex jt; MWD; Feed thru stab; HOC; Float sub; NMDC; 1 x 203mm (8") NMDC; 2 x 209mm (8-1/4") drill collars; X/Over Reg x DSTJ (OTWY-5); 15 X HWDP; Jars; 5 X HWDP. Total BHA length 264.5m.

Bit #3: Security DBS FMF 3565Z s/n 10866299, Nozzles 6 x 18. TFA = 1.491"

Weather Forecast: HS 3 - 2m until Sunday PM then picking up to 7m by Tuesday AM. Winds gusting to 15 - 25kn, picking up to 35kn gusts on Sunday AM.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 11 **Report Date: 12/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	10.50	MD (m):	1,046.00	Day WSM:	Shaughan Corless
DFS:	10.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	1,006.56	Rig OIM:	George Clark
Progress Days:	7.97	Progress (m):	408.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 11,305,700.00 ($)

Ops 00:00 to 06:00 : Drilled 311mm (12 1/4") hole from 1046m to 1223m.

Ops Summary : Displaced to SBM. Dressed off cement to 650m. Kicked off cement plug. Drilled 311mm (12 1/4") hole to 1046m.

Ops Look Ahead : Drill 311mm (12 1/4") hole.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.25	D12	TRP	P	Completed breaking in GeoPilot seals.
0:15	0.25	D12	SAF	P	Held toolbox talk in preparation for displacing to SBM.
0:30	1.00	D12	PSI	P	Carried out final checks on lines in preparation for SBM displacement. Isolated mud pump #3 suction lines due to leak in expansion joint. Expansion joint replaced offline.
1:30	1.50	D12	PCD	P	Displaced well to SBM. Pumped 7.95m3 (50bbl) High Vis SBM pill followed by SBM at 1.1m3/min (300gpm) until SBM above BHA. Increased pump rate to 3.6m3/min (950gpm) with mud pumps #1 and #2. Discharged seawater returns overboard. Caught and diverted interface and High Vis pill to pit 9 (slug pit). Established drilling parameters with 3.6m3/min (950gpm) 60 RPM 0.1 - 0.3 kdaNm (1-2 kflbs) off bottom torque. 74T (163klbs) up and 71T (156klbs) down.
3:00	5.00	D12	DCP	P	Drilled cement plug from 602.5m to 650m. Maintained zero GeoPilot deflection until GeoPilot and stabilisers clear of 473mm (18 5/8") casing shoe at 633m, then increased deflection to 85%, turning to 90° azimuth to kick off from the Thylacine South 1 wellbore. 100% formation returns by 650m. Drilling parameters : 3.6 - 4.3m3/min (940 - 1125gpm) (2 - 3 mud pumps), 15 - 20.1MPa (2190 - 2940psi), 60 RPM, 2.3 - 5.5T (5 - 12 klb) WOB, 542 - 949 daN.m (4 - 7kft-lb) torque. Rotating weight 74T (163klb), pickup 81.8T (180klb), slackoff 70.9T (156klb). Mud pump #3 back brought online when repaired.
8:00	0.50	D12	DRS	P	Time drilled at 0.5m/hr (3min per inch) from 650m to 650.5m to maintain kick off.
8:30	1.00	D12	DRS	P	Time drilled at 3m/hr (30sec per inch) from 650.5m to 655m. 100% formation. Kick off confirmed.
9:30	8.00	D12	DRS	P	Directionally drilled 311mm (12 1/4") hole from 655m to 823m - Mid Miocene formation. Drilling parameters: 4.4m3/min (1150gpm), 21.4MPa (3100psi), 175 RPM, 2.3 - 6.8 T (5 - 15 klb) WOB, 271 - 406 daN.m (2 - 3kft-lb) torque. ROP: Instantaneous 20-45m/hr, Including connections 21m/hr. Rotating weight 77.3T (170klb), pickup 80.5T (177klb), slackoff 78.2T (172klb). Survey at 804m, Inc 20.86deg, Az 194.83deg, TVD 799.52m
17:30	6.50	D12	DRS	P	Directionally drilled 311mm (12 1/4") hole from 823m to 1046m - Oligocene formation. Drilling parameters: 4.4m3/min (1150gpm), 21.4MPa (3100psi), 175 RPM, 2.7 - 4.5 T (6 - 10 klb) WOB, 542 - 949 daN.m (4 - 7kft-lb) torque. ROP: Instantaneous 60-77m/hr, Including connections 34.3m'hr. Rotating weight 80T (176klb), pickup 54T (185klb), slackoff 80.5T (177klb). Survey at 1035.71m, Inc 31.56deg, Az 189.35deg, TVD 997.79m

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 11 **Report Date: 12/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20
311mm (12 1/4")	638.00	1,652.00	473.07	633.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (AusCF2004)	1250	43.00	9.097	12.00	

CASING

Last Casing: 473.07 mm @ 633.00 m	Next Casing: 244.47 mm	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	16.00	58.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	4	_Others	2
GEOSERVICES	6	OMS	39
MAERSK	17	HALCO	2
WOODSIDE	6	BHDF	7
		Total POB :	86

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
BARITE BULK	MT	24.00	134.00	BRINE	BBLs	0.00	1,005.00
GEL, FRESH	MT	0.00	49.00	WATER, DRILLING	MT	15.00	457.00
HELI FUEL	ltrs	20.00	5,525.00	CEMENT HTB	MT	0.00	46.00
WATER, POTABLE	MT	23.00	418.00	DIESEL	m3	12.00	227.00
CEMENT	MT	0.00	117.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	6.00	1.100	1.800				13.00

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 11			**Report Date: 12/08/2006**
Block: T/L2	**Rig: Maersk Guardian**	**Water Depth(m): 99.30**	**Start Date: 17/03/2006**

REMARKS

No accidents or incidents over past 24hrs.

Held weekly Muster and Fire Drills (N2 spillage Port deck)

BHA #3: 311mm (12-1/4") Bit #3, Geopilot; NM flex jt; MWD; Feed thru stab; HOC; Float sub; NMDC; 1 x 203mm (8") NMDC; 2 x 209mm (8-1/4") drill collars; X/Over Reg x DSTJ (OTWY-5); 15 X HWDP; Jars; 5 X HWDP. Total BHA length 264.5m.

Bit #3: Security DBS FMF 3565Z s/n 10866299, Nozzles 6 x 18. TFA = 1.491"
Daily bit data : 408m, 16 IADC hrs, 10.1 hrs on bottom, 15.65 hrs circulating, 35 m/hr avg on bottom ROP. 19.4 m/hr IADC ROP.
Total bit data : 408m, 16 IADC hrs, 10.1 hrs on bottom, 15.65 hrs circulating, 35 m/hr avg on bottom ROP. 19.4 m/hr IADC ROP.

Crossover rotating hours : WEL OTWY-5: 11.62 hrs.
Jars rotating hrs (s/n 12286E) : 107.22 hrs.

Metal Recovery from Ditch Magnet:

00:00 - 12:00 hrs	4300 gms
12:00 - 24:00 hrs	3050 gms
Cumulative:	7350 gms

Weather Forecast: HS 2 - 3 m until Sunday Midnight then picking up to 5.5 - 6m by Tuesday Midday. Winds gusting to 35kn, dropping off to 25kn gusts on Monday AM prior to picking back up to 40kn on Wednesday PM.

THA02 'A' annulus: 20:30hrs 8000kpa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 12 **Report Date: 13/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	11.50	MD (m):	1,652.00	Day WSM:	Shaughan Corless
DFS:	11.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	1,517.75	Rig OIM:	George Clark
Progress Days:	11.87	Progress (m):	606.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 11,678,428.00 ($)

Ops 00:00 to 06:00 : Drilled 311mm (12 1/4") hole from 1652m to 1766m.

Ops Summary : Drilled 311mm (12 1/4") hole from 1046m to 1652m.

Ops Look Ahead : Drill 311mm (12 1/4") hole.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	7.00	D12	DRS	P	Directionally drilled 311mm (12 1/4") hole from 1046m to 1270m - Oligocene formation. Drilling parameters: 4.4m3/min (1150gpm), 22MPa (3200psi), 175 RPM, 4.5 - 6.8 T (10 - 15 klb) WOB, 814 - 1084 daN.m (6 - 8kft-lb) torque. ROP: Instantaneous 55-75m/hr, Including connections 32m/hr. Rotating weight 88T (194klb), pickup 93.6T (206klb), slackoff 87.7T (193klb).
7:00	3.75	D12	DRS	P	Directionally drilled 311mm (12 1/4") hole from 1270m to 1345m - Narrawaturk Marl formation. Drilling parameters: 4.4m3/min (1150gpm), 23MPa (3350psi), 175 RPM, 6.8 - 9 T (15 - 20 klb) WOB, 1220 - 1627 daN.m (9 - 12kft-lb) torque. ROP: Instantaneous 55-75m/hr, Including connections 20m/hr. Rotating weight 89.5T (197klb), pickup 96.8T (213klb), slackoff 88.1T (194klb).
10:45	8.75	D12	DRS	P	Directionally drilled 311mm (12 1/4") hole from 1345m to 1560m - Mepunga Sandstone formation. Drilling parameters: 4.4m3/min (1150gpm), 25.5MPa (3700psi), 170 RPM, 3.2 - 11.4T (7 - 25 klb) WOB, 1627 - 1220 daN.m (7 - 9kft-lb) torque. ROP: Instantaneous 5-75m/hr, Including connections 24.6m/hr. Rotating weight 95.9T (211klb), pickup 105.4T (232klb), slackoff 93.6T (206klb). Drilled cemented pyrite stringer 1370m. Worked through with 3.6m3/min (950gpm), 85RPM and 9 - 13.6T (20 - 30klbs) WOB. ROP 1-3m/hr
19:30	3.50	D12	DRS	P	Directionally drilled 311mm (12 1/4") hole from 1560m to 1644m - Dilwyn and Pember Mudstone formations. Drilling parameters: 4.4m3/min (1150gpm), 25.9MPa (3750psi), 170 RPM, 3.2 - 11.4T (7 - 25 klb) WOB, 1627 - 1220 daN.m (7 - 9kft-lb) torque. ROP: Instantaneous 5-75m/hr, Including connections 24m/hr. Rotating weight 95.9T (211klb), pickup 105.4T (232klb), slackoff 93.6T (206klb). Drilled cemented pyrite stringer 1575m. Worked through with 3.6m3/min (950gpm), 90RPM and 9 - 13.6T (20 - 30klbs) WOB. ROP 1-4m/hr
23:00	1.00	D12	DRS	P	Directionally drilled 311mm (12 1/4") hole from 1644m to 1652m - Paaratte formation. Drilling parameters: 4.4m3/min (1150gpm), 25.9MPa (3750psi), 170 RPM, 6.8 - 9 T (15 - 20 klb) WOB, 1627 - 1220 daN.m (7 - 9kft-lb) torque. ROP: Instantaneous 5-60m/hr Drilled cemented pyrite stringer 1646m. Worked through with 3.6m3/min (950gpm), 85RPM and 9 - 13.6T (20 - 30klbs) WOB. ROP 1-4m/hr

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 12 **Report Date: 13/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20
311mm (12 1/4")	638.00	1,652.00	473.07	633.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (AusCF2004)	1250	43.00	13.885	13.00	

CASING

Last Casing: 473.07 mm @ 633.00 m	Next Casing: 244.47 mm	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	12.00	70.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	4	_Others	2
GEOSERVICES	6	OMS	39
MAERSK	17	HALCO	2
WOODSIDE	6	BHDF	7
		Total POB :	86

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
CEMENT HTB	MT	0.00	46.00	WATER, DRILLING	MT	28.00	429.00
BRINE	BBLs	0.00	1,005.00	CEMENT	MT	0.00	117.00
GEL, FRESH	MT	0.00	49.00	WATER, POTABLE	MT	18.00	438.00
BARITE BULK	MT	6.00	170.00	HELI FUEL	ltrs	20.00	5,505.00
DIESEL	m3	17.00	210.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	6.50	1.400	1.400				14.50

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 12			**Report Date: 13/08/2006**
Block: T/L2	**Rig: Maersk Guardian**	**Water Depth(m): 99.30**	**Start Date: 17/03/2006**

REMARKS

No accidents or incidents over past 24hrs.

Held fortnightly safety meetings with all crews.

BHA #3: 311mm (12-1/4") Bit #3, Geopilot; NM flex jt; MWD; Feed thru stab; HOC; Float sub; NMDC; 1 x 203mm (8") NMDC; 2 x 209mm (8-1/4") drill collars; X/Over Reg x DSTJ (OTWY-5); 15 X HWDP; Jars; 5 X HWDP. Total BHA length 264.5m.

Bit #3: Security DBS FMF 3565Z s/n 10866299, Nozzles 6 x 18. TFA = 1.491"
Daily bit data : 606m, 24 IADC hrs, 14.35 hrs on bottom, 21.2 hrs circulating, 42 m/hr avg on bottom ROP. 25.25 m/hr IADC ROP.
Total bit data : 1014m, 40 IADC hrs, 24.45 hrs on bottom, 36.85 hrs circulating, 41.5 m/hr avg on bottom ROP. 25.4 m/hr IADC ROP.

Crossover rotating hours : WEL OTWY-5: 25.97 hrs.
Jars rotating hrs (s/n 12286E) : 121.57 hrs.

Metal Recovery from Ditch Magnet:
00:00 - 12:00 hrs 800 gms
12:00 - 24:00 hrs 650 gms
Cumulative: 8800 gms

Weather Forecast: HS 4 m picking up to 5.5 - 6m by Tuesday Midday. Winds gusting 25 - 30kn picking up to 50kn on Wednesday PM.

THA02 'A' annulus: 9000kpa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 13 **Report Date: 14/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	12.50	MD (m):	2,081.00	Day WSM:	Shaughan Corless
DFS:	12.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	1,881.30	Rig OIM:	George Clark
Progress Days:	14.17	Progress (m):	429.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 12,049,905.00 ($)

Ops 00:00 to 06:00 : Drilled 311mm (12 1/4") hole from 2081m to 2143m.

Ops Summary : Drilled 311mm (12 1/4") hole from 1652m to 2081m.

Ops Look Ahead : Drill 311mm (12 1/4") hole.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	13.50	D12	DRS	P	Directionally drilled 311mm (12 1/4") hole from 1652m to 1896m. Drilling parameters: 4.4m3/min (1150gpm), 26.1MPa (3800psi), 170 RPM, 6.8 - 15.9T (15 - 35 klb) WOB, 678 - 1492 daN.m (5 - 11kft-lb) torque. ROP: Instantaneous 5-50m/hr, Including connections 18m/hr. Rotating weight 105T (231klb), pickup 118T (260klb), slackoff 100.9T (222klb). Drilled cemented pyrite stringers 1716 - 1719m, 1746 - 1749m, 1771 - 1773m, 1805 - 1810m, 1833 - 1839m, 1855 - 1859m. Worked through with 2.8 - 3.6m3/min (750 - 950gpm), 70 - 100RPM and 6.8 - 15.9T (15 - 35klbs) WOB. ROP 1-5m/hr
13:30	3.75	D12	DRS	P	Directionally drilled 311mm (12 1/4") hole from 1896m - 1972m. Drilling parameters: 4.4m3/min (1150gpm), 27.2MPa (3950psi), 170 RPM, 4 - 13.6T (9 - 30 klb) WOB, 814 - 1492 daN.m (6 - 11 kft-lb) torque. ROP: Instantaneous 2-50m/hr, Including connections 20m/hr. Rotating weight 107.7T (237klb), pickup 121.8T (268klb), slackoff 103.6T (228klb).
17:15	6.75	D12	DRS	P	Directionally drilled 311mm (12 1/4") hole from 1972m to 2081m. Drilling parameters: 4.4m3/min (1150gpm), 27.2MPa (3950psi), 170 RPM, 3.2 - 13.6T (7 - 30 klb) WOB, 949 - 1763 daN.m (7 - 13kft-lb) torque. ROP: Instantaneous 5-35m/hr, Including connections 16m/hr. Rotating weight 110.5T (243klb), pickup 124T (273klb), slackoff 106.8T (235klb).

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20
311mm (12 1/4")	638.00	1,652.00	473.07	633.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	43.00	13.885	12.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 13 **Report Date: 14/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	18.00	88.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	4	_Others	2
GEOSERVICES	6	OMS	39
MAERSK	17	HALCO	2
WOODSIDE	7	BHDF	7
		Total POB :	87

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
WATER, DRILLING	MT	21.00	408.00	DIESEL	m3	20.00	190.00
BARITE BULK	MT	0.00	170.00	CEMENT HTB	MT	0.00	46.00
CEMENT	MT	0.00	117.00	BRINE	m3	0.00	1,005.00
GEL, FRESH	MT	0.00	49.00	WATER, POTABLE	MT	48.00	427.00
HELI FUEL	ltrs	25.00	5,480.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	4.50	1.200	3.600				11.00

REMARKS

No accidents or incidents over past 24hrs.

BHA #3: 311mm (12-1/4") Bit #3, Geopilot; NM flex jt; MWD; Feed thru stab; HOC; Float sub; NMDC; 1 x 203mm (8") NMDC; 2 x 209mm (8-1/4") drill collars; X/Over Reg x DSTJ (OTWY-5); 15 X HWDP; Jars; 5 X HWDP. Total BHA length 264.5m.

Bit #3: Security DBS FMF 3565Z s/n 10866299, Nozzles 6 x 18. TFA = 1.491"
Daily bit data : 429m, 24 IADC hrs, 17.15 hrs on bottom, 21.93 hrs circulating, 164 Krevs, 25 m/hr avg on bottom ROP. 17.8 m/hr IADC ROP.
Total bit data : 1443m, 64 IADC hrs, 41.62 hrs on bottom, 58.78 hrs circulating, 413 Krevs, 34.6 m/hr avg on bottom ROP. 22.5 m/hr IADC ROP.

Crossover rotating hours : WEL OTWY-5: 43.12 hrs.
Jars rotating hrs (s/n 12286E) : 138.72 hrs.

Metal Recovery from Ditch Magnet:
00:00 - 12:00 hrs 142 gms
12:00 - 24:00 hrs 360 gms
Cumulative: 9302 gms

Weather Forecast: HS 5.5 m dropping to 3m by Wednesday PM, picking back up to 6.5m Friday PM. Winds gusting 15 - 25kn picking up to 50kn gusts on Wednesday PM.

THA02 'A' annulus: Vented pressure from 9500kpa to 500kpa.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 14 **Report Date: 15/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	13.50	MD (m):	2,394.00	Day WSM:	Shaughan Corless
DFS:	13.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,119.61	Rig OIM:	George Clark
Progress Days:	15.30	Progress (m):	313.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 12,524,153.00 ($)

Ops 00:00 to 06:00 : Drilled 311mm (12 1/4") hole from 2394m to 2477m.

Ops Summary : Drilled 311mm (12 1/4") hole from 2081m to 2394m. Repaired pumps. Circulated hole clean.

Ops Look Ahead : Drill 311mm (12 1/4") hole.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	21.00	D12	DRS	P	Directionally drilled 311mm (12 1/4") hole from 2081m to 2394m. Drilling parameters: 4.4m3/min (1150gpm), 28.5MPa (4130psi), 130 RPM, 4.1 - 13.6T (9 - 30 klb) WOB, 1084 - 2441 daN.m (8 - 18kft-lb) torque. RPM limited by high torque peaks. ROP: Instantaneous 5-50m/hr, including connections 14.9m/hr. Rotating weight 115.9T (255klb), pickup 137.3T (302klb), slackoff 109T (240klb). Drilled through stringers / hard formation at 2100 - 2103m, 2150 - 2155m, 2172 - 2176m and 2230 - 2242m.
21:00	1.50	D12	DRS	D	Maintained circulation with Pump #2 due to Pumps #1 and #3 being down at the same time. 1.8m3/min (480gpm) 6.7MPa (980psi) 70RPM, reciprocated pipe on last stand drilled. Pump #1 down due to plug working free on suction dampener. Drilled out hole, re-tapped thread installed replacement bull plug. Pump #3 down due to lost seal at bleed off valve bonnet. Removed valve and body, replaced full assembly.
22:30	1.50	D12	PCD	D	Circulated untill shakers cleaned up with Pumps #1 and #2 - 1.5 x bottoms up. 3.8m3/min (1000gpm), 21.6MPa (3130psi), 170RPM, 1084 daN.m (8kft-lb) torque.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20
311mm (12 1/4")	638.00	1,652.00	473.07	633.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	45.00	12.449	13.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 14 **Report Date: 15/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	10.00	98.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	4	_Others	2
GEOSERVICES	6	OMS	38
MAERSK	17	HALCO	2
WOODSIDE	7	BHDF	7
		Total POB :	87

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
HELI FUEL	ltrs	580.00	4,900.00	WATER, POTABLE	MT	28.00	399.00
CEMENT	MT	0.00	117.00	GEL, FRESH	MT	0.00	49.00
CEMENT HTB	MT	0.00	46.00	BRINE	m3	0.00	1,005.00
DIESEL	m3	18.00	172.00	WATER, DRILLING	MT	44.00	402.00
BARITE BULK	MT	23.00	147.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	7.00	1.400	3.400				12.00

REMARKS

No accidents or incidents over past 24hrs.

Carried out manual handling training with rig personnel onboard.

BHA #3: 311mm (12-1/4") Bit #3, Geopilot; NM flex jt; MWD; Feed thru stab; HOC; Float sub; NMDC; 1 x 203mm (8") NMDC; 2 x 209mm (8-1/4") drill collars; X/Over Reg x DSTJ (OTWY-5); 15 X HWDP; Jars; 5 X HWDP. Total BHA length 264.5m.

Bit #3: Security DBS FMF 3565Z s/n 10866299, Nozzles 6 x 18. TFA = 1.491"
Daily bit data : 313m, 21 IADC hrs, 14.22 hrs on bottom, 22.33 hrs circulating, 120 Krevs, 22 m/hr avg on bottom ROP. 14.9 m/hr IADC ROP.
Total bit data : 1756m, 85 IADC hrs, 55.84 hrs on bottom, 81.11 hrs circulating, 533 Krevs, 31.4 m/hr avg on bottom ROP. 20.7 m/hr IADC ROP.

Crossover rotating hours : WEL OTWY-5: 57.34 hrs.
Jars rotating hrs (s/n 12286E) : 152.94 hrs.

Metal Recovery from Ditch Magnet:
00:00 - 12:00 hrs 232 gms
12:00 - 24:00 hrs 215 gms
Cumulative: 9749 gms

Weather Forecast: HS 4 m dropping to 3m by Wednesday PM, picking back up to 6m Friday PM. Winds gusting to 45kn, gradually dropping down to 15kn by Saturday PM.

THA02 'A' annulus: 1740hrs : 3000kpa.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 15 **Report Date: 16/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	14.50	MD (m):	2,635.00	Day WSM:	Shaughan Corless
DFS:	14.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,245.53	Rig OIM:	George Clark
Progress Days:	15.67	Progress (m):	241.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 13,293,323.00 ($)

Ops 00:00 to 06:00 : Continued drilling 311mm (12-1/4") hole from 2635m to 2676m. Average ROP 6.8 m/hr.

Ops Summary : Directionally drilled 311mm (12-1/4") hole from 2394m to 2635m. Average ROP 10.4 m/hr.

Ops Look Ahead : Drill 311mm (12 1/4") hole to section TD, building to 90 deg. Circulate well clean. POOH and run 244mm (9-5/8") casing.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	24.00	D12	DRS	P	Directionally drilled 311mm (12-1/4") hole from 2394m to 2635m. Average ROP 10 m/hr. Drilling parameters: 4.45 - 5.23m3/min (980 - 1150gpm), 22.1 - 28.6MPa (3200 - 4150psi), 130 RPM, 2.3 - 11.3T (5 - 25 klb) WOB, 813 - 3389 daN.m (6 - 25kft-lb) torque. RPM limited by high torque and stick/slip. ROP: Instantaneous 2-69m/hr, including connections 10.4m/hr. Background gas: 0.13 - 0.24%. Rotating weight 116.2T (256klb), pickup 137.9T (304klb), slackoff 109T (240klb). Slow drilling at 2450 - 2475m, 2551 - 2554m, 2599 - 2605m. No change in formation to account for ROP change.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20
311mm (12 1/4")	638.00	1,652.00	473.07	633.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	46.00	15.322	15.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	20.00	118.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 15 **Report Date: 16/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	4	_Others	7
GEOSERVICES	6	OMS	39
MAERSK	15	WEATHERFORD	6
HALCO	2	WOODSIDE	7
BHDF	7	TECHNIP	3
		Total POB :	96

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
DIESEL	m3	17.00	155.00	WATER, DRILLING	MT	20.00	400.00
BRINE	m3		1,005.00	CEMENT	MT		117.00
GEL, FRESH	MT		49.00	HELI FUEL	ltrs		4,200.00
BARITE BULK	MT	16.00	131.00	WATER, POTABLE	MT	28.00	388.00
CEMENT HTB	MT		46.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	14.40	2.100	1.800				11.60

REMARKS

No accidents or incidents over past 24hrs.

Continued manual handling training with rig personnel onboard.

Cassandra corrections (Alaskan alorgithm) have been applied to survey data from 1527.01mMD.

BHA #3: 311mm (12-1/4") Bit #3, Geopilot; NM flex jt; MWD; Feed thru stab; HOC; Float sub; NMDC; 1 x 203mm (8") NMDC; 2 x 209mm (8-1/4") drill collars; X/Over Reg x DSTJ (OTWY-5); 15 X HWDP; Jars; 5 X HWDP. Total BHA length 264.5m.

Bit #3: Security DBS FMF 3565Z s/n 10866299, Nozzles 6 x 18. TFA = 1.491"
Daily bit data : 241m, 24 IADC hrs, 17.22 hrs on bottom, 22.77 hrs circulating, 143 Krevs, 14 m/hr avg on bottom ROP. 10.04 m/hr IADC ROP.
Total bit data : 1997m, 109 IADC hrs, 73.06 hrs on bottom, 103.88 hrs circulating, 676 Krevs, 27.33 m/hr avg on bottom ROP. 18.32 m/hr IADC ROP.

Crossover rotating hours : WEL OTWY-5: 74.56 hrs.
Jars rotating hrs (s/n 12286E) : 170.16 hrs.

Metal Recovery from Ditch Magnet:
00:00 - 12:00 hrs 140 gms
12:00 - 24:00 hrs 166 gms
Cumulative: 10055 gms

Weather Forecast: HS currently 4 m increasing to a max of 6.6m by Saturday 19/08/06, then dropping to 3m by Monday 21/08/06. Winds currently 28kn, gusting to 40+ kn. Winds forecast to ease during 18/08/06 and 19/08/06 to below 20kn, with gusts below 30kn, remaining low through to Monday 21/08/06.

THA02 'A' annulus: 21:00hrs : 5400kpa
17/08/06 03:30hrs : 6000kps

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 16 **Report Date: 17/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	15.50	MD (m):	2,751.00	Day WSM:	Shaughan Corless
DFS:	15.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,282.06	Rig OIM:	George Clark
Progress Days:	17.19	Progress (m):	116.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 13,764,548.00 ($)

Ops 00:00 to 06:00 : Flowchecked - OK. POOH 8 stands wet. Tight at 2623m & 2588m. Made up TDS and circulated and reamed tight area. Continued POOH. Pumped slug after 8th stand. POOH. Tight at 1930m.

Ops Summary : Directionally drilled 311mm (12-1/4") hole from 2635m to 2751m. Average ROP 6.4 m/hr. Circulated bottoms up for samples. Circulated hole clean with 2 further circulations.

Ops Look Ahead : POOH and run 244mm (9-5/8") casing.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	21.00	D12	DRS	P	Directionally drilled 311mm (12-1/4") hole from 2635m to 2751m. Average ROP 6.4 m/hr. Drilling parameters: 4.45 - 5.23m3/min (980 - 1150gpm), 21.1 - 28.6MPa (3070 - 4150psi), 80 - 130 RPM, 10.8 - 15.8T (24 - 35 klb) WOB, 542 - 3389 daN.m (5 - 25kft-lb) torque. ROP: Instantaneous 0-15m/hr, including connections 6.4m/hr. Background gas: 0.23%. Rotating weight 116.2T (256klb), pickup 136.1T (300klb), slackoff 108T (238klb). Drilling break at 2743m. ROP increased to 20-40 m/hr. RPM 140. 4.45 m3/min (980 gpm), 28 MPa (3050 psi), no torque variation, 1220 daN.m (9 kft/lbs).
21:00	3.00	D12	PCD	P	Circulated bottoms-up for samples to confirm penetration of Thylacine Unit 1. Maximum gas 13.23%. Circulated a further 2x bottoms up until shakers clear of cuttings.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20
311mm (12 1/4")	638.00	1,652.00	473.07	633.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	41.00	15.322	14.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 16 **Report Date: 17/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	14.00	132.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	4	_Others	5
GEOSERVICES	6	OMS	39
MAERSK	15	WEATHERFORD	6
HALCO	2	WOODSIDE	7
BHDF	7	TECHNIP	7
		Total POB :	99

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
WATER, POTABLE	MT	31.00	394.00	CEMENT HTB	MT		46.00
HELI FUEL	ltrs	325.00	3,875.00	GEL, FRESH	MT		49.00
WATER, DRILLING	MT	41.00	359.00	BRINE	m3		1,005.00
CEMENT	MT		117.00	DIESEL	m3		125.00
BARITE BULK	MT	8.00	123.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	19.54	2.800	4.900				13.30

REMARKS

No accidents or incidents over past 24hrs.

Cassandra corrections (Alaskan algorithm) have been applied to survey data from 1527.01mMD.

BHA #3: 311mm (12-1/4") Bit #3, Geopilot; NM flex jt; MWD; Feed thru stab; HOC; Float sub; NMDC; 1 x 203mm (8") NMDC; 2 x 209mm (8-1/4") drill collars; X/Over Reg x DSTJ (OTWY-5); 15 X HWDP; Jars; 5 X HWDP. Total BHA length 264.5m.

Bit #3: Security DBS FMF 3565Z s/n 10866299, Nozzles 6 x 18. TFA = 1.491"
Daily bit data : 116m, 24 IADC hrs, 18.04 hrs on bottom, 23.12 hrs circulating, 127 Krevs, 6.4 m/hr avg on bottom ROP. 10.04 m/hr IADC ROP.
Total bit data : 2113m, 109 IADC hrs, 91.1 hrs on bottom, 127 hrs circulating, 803 Krevs, 23.19 m/hr avg on bottom ROP. 18.32 m/hr IADC ROP.

Crossover rotating hours : WEL OTWY-5: 92.6 hrs.
Jars rotating hrs (s/n 12286E) : 188.82 hrs.

Metal Recovery from Ditch Magnet:
00:00 - 12:00 hrs 138 gms
12:00 - 24:00 hrs 343 gms
Cumulative: 10536 gms

Weather Forecast: HS remaining above 6m until pm Saturday 19/08/06, then dropping steadily to less than 3m by Monday 21/08/06. Winds currently 24kn, gusting to 36kn. Winds forecast to ease during 19/08/06 to below 20kn, remaining low through to Tuesday 22/08/06.

THA02 'A' annulus: 16:00hrs : 6600kpa
18/08/06 03:30hrs : 8100kps

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 17 **Report Date: 18/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	16.50	MD (m):	2,751.00	Day WSM:	Shaughan Corless
DFS:	16.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,282.10	Rig OIM:	George Clark
Progress Days:	17.73	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 14,175,514.00 ($)

Ops 00:00 to 06:00 : Pulled wear bushing. Jetted wellhead, HP riser, BOP and LP riser. Rigged up to run 244mm (9-5/8") casing. Picked up and threadlocked shoetrack. Filled shoetrack with mud and checked floats. Rigged up 500T elevators and Tam packer.

Ops Summary : POOH with 311mm (12-1/4") drilling assembly, working through tight spots as required (pumped out due to swabbing). Racked BHA. Laid down bit, MWD and Geopilot tools.

Ops Look Ahead : Run 244mm (9-5/8") casing.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.50	D12	PCD	P	Continued circulating until shakers clean. Flowchecked 15 mins - OK.
0:30	1.00	D12	TRP	P	POOH from 2751m to 2587m. Tight spot at 2632m, 13.6T (30 klbs) overpull. Worked back through tight spot 3 times - no overpull. Tight at 2588m. Pulled 13.6T (30 klbs) overpull, slacked off 11.4T (25 klbs). Worked up and down 4 times, no progress up or down.
1:30	0.50	D12	REM	D	Made up TDS, staged up pumps to 4.54 m3/min (1000 gpm), 23.1 MPa (3350 psi). Brought rotary up to 60 RPM. Set Geolpilot to zero deflection, and increased rotary to 165 RPM. Reamed to 2606m without resistance. Backreamed full stand to 2577m - no overpull. Stopped pumps and rotary, and ran stand down without resistance. Pulled full stand to 2577m with no overpull.
2:00	0.50	D12	TRP	P	Continued POOH from 2577m to 2519m.
2:30	0.50	D12	PCD	P	Flowchecked 15 mins - static. Pumped 4 m3 (25 bbl) slug.
3:00	2.00	D12	TRP	P	Continued POOH from 2519m to 1930m. Worked through tight spot from 1950m to 1940m. Tight at 1930, overpull 11.4T (25 klbs). Slacked off additional 11.4T (25 klbs). Worked up and down 3 times, no progress up or down.
5:00	1.50	D12	REM	D	Made up TDS. Staged pumps up to 4.54 m3/min (1000 gpm), 25.3 MPa (3670 psi). Brought rotary up to 165 RPM, 813 daN.m (6 kft/lbs). Reamed down to 1913m without resistance. Backreamed full stand to 1942m - no overpull. Stopped pumps and rotary, and ran stand down without resistance. Pulled full stand with no overpull. Circulated bottoms up.
6:30	1.50	D12	TRP	P	Continued POOH from 1913m to 1624m. Tight hole at 1624m. Unable to work up or down.
8:00	0.50	D12	REM	D	Made up TDS and circulated hole.
8:30	0.50	D12	REP	D	Continued circulating whilst investigating trip tank. Hole fill-up line from trip tank found blocked.
9:00	3.00	D12	REM	P	Back reamed out of hole to 1334m whilst unblocking hole fill-up line from trip tank.
12:00	0.50	D12	TRP	D	Trip tank line blockage rectified. Attempted to POOH on elevators without pumps. Hole swabbed approx 0.16m3 (1 bbl) over less than one stand.
12:30	4.00	D12	PCD	U	Continued pumping out of hole from 1334m to 610m. Made three attempts to POOH on elevators - hole swabbing each time.
16:30	1.00	D12	PCD	P	Flowchecked 15 mins - static. Pumped slug.
17:30	1.00	D12	TRP	P	Continued POOH from 610m to 264m
18:30	0.25	D12	PCD	P	Flowchecked 15mins at BHA - static.
18:45	0.50	D12	REP	D	Changed out dies in PRS.
19:15	1.75	D12	TRP	P	Continued POOH with BHA from 264m.
21:00	3.00	D12	TRP	P	Held toolbox talk. Changed out elevators and slips. Racked back BHA. Broke out bit, and laid down MWD and Geopilot. Note: Some tightly packed clay found in one of the bit breakout slots. No other evidence of balling observed on the bit or BHA.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 17 **Report Date: 18/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20
311mm (12 1/4")	638.00	1,652.00	473.07	633.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	42.00	14.843	14.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	12.00	144.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	4	_Others	5
GEOSERVICES	6	OMS	39
MAERSK	15	WEATHERFORD	6
HALCO	2	WOODSIDE	6
BHDF	6	TECHNIP	7
		Total POB :	97

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
CEMENT HTB	MT		46.00	DIESEL	m3		121.00
GEL, FRESH	MT		49.00	WATER, POTABLE	MT		388.00
BARITE BULK	MT	12.00	111.00	BRINE	m3		1,005.00
WATER, DRILLING	MT	14.00	345.00	CEMENT	MT		117.00
HELI FUEL	ltrs	425.00	3,450.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	10.30	2.300	5.800				11.60

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 17			**Report Date: 18/08/2006**
Block: T/L2	**Rig: Maersk Guardian**	**Water Depth(m): 99.30**	**Start Date: 17/03/2006**

REMARKS

No accidents or incidents over past 24hrs.

BHA #3: 311mm (12-1/4") Bit #3, Geopilot; NM flex jt; MWD; Feed thru stab; HOC; Float sub; NMDC; 1 x 203mm (8") NMDC; 2 x 209mm (8-1/4") drill collars; X/Over Reg x DSTJ (OTWY-5); 15 X HWDP; Jars; 5 X HWDP. Total BHA length 264.5m.

Bit #3: Security DBS FMF 3565Z s/n 10866299, Nozzles 6 x 18. TFA = 1.491"

Total bit data: 2113m, 109 IADC hrs, 91.1 hrs on bottom, 133.9 hrs circulating, 803 Krevs, 23.19 m/hr avg on bottom ROP. 18.32 m/hr IADC ROP.
Bit graded: 2-2-WT-S-X-IN-CT,ER-TD

Crossover rotating hours : WEL OTWY-5: 99.5 hrs.
Jars rotating hrs (s/n 12286E) : 195.7 hrs.

Metal Recovery from Ditch Magnet:

00:00 - 12:00 hrs	0 gms
12:00 - 24:00 hrs	541 gms
Cumulative:	11077 gms

Weather Forecast: HS remaining at >5m until pm Saturday 19/08/06, then dropping steadily to less than 3m by Monday 21/08/06. Winds currently 20kn, gusting to 27kn. Winds forecast to ease during 20/08/06 to below 15kn, remaining low through to Wednesday 23/08/06.

THA02 'A' annulus: 21:00hrs : 7900kpa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 18 **Report Date: 19/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	17.50	MD (m):	2,751.00	Day WSM:	Shaughan Corless
DFS:	17.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,282.10	Rig OIM:	George Clark
Progress Days:	18.55	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 14,587,778.00 ($)

Ops 00:00 to 06:00 : RIH 244mm (9-5/8") casing. Average 12 joints per hour. Rigged down FMS. Picked up pup joint and casing hanger. RIH and landed casing with shoe at 2742.8m. Circulated casing.

Ops Summary : Retrieved wear bushing. Jetted wellhead. Rigged up to run 244mm (9-5/8") casing. Ran and threadlocked shoetrack and tested floats. Rigged up 500T elevators and TAM packer. RIH 244mm (9-5/8") casing joints.

Ops Look Ahead : Circulate and cement casing. Release running tool and lay down. Jet casing hanger neck and seal area. Run seal assembly. Pressure test casing. Lay out 311mm BHA. Commence picking up 216mm BHA.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.25	C12	BPR	P	Made up wear bushing running tool. Functioned shear rams.
0:15	1.25	C12	WHM	P	RIH with wear bushing running tool - tool moving down very slowly after entering HP riser. Stopped moving 1.5m above wear bushing. POOH to check tool for debris - none found. RIH with running tool and engaged wear bushing. Pulled wear bushing. Pulled 6.8T (15 klbs) overpull until tool was above BOP then no further overpull. Inspected tool at surface for debris - none found. Laid out wear bushing and running tool.
1:30	1.50	C12	WHM	P	Made up 203mm (8") OD nylon jetting tool. RIH 2 stands. Functioned pipe rams and annular preventer. Jetted wellhead, HP riser, BOP and LP riser. Laid down jetting tool.
3:00	1.00	C12	RUD	P	Rigged up to run 244mm (9-5/8") casing. Held toolbox talk for running casing.
4:00	1.00	C12	CLR	P	Picked up and threadlocked shoe joint, intermediate joint and float collar joint. Filled shoetrack with mud, picked up and checked float operation - OK. Threadlocked and RIH 4th joint.
5:00	2.00	C12	RUD	P	Rigged up casing bails, 500T slip-type elevators and TAM packer.
7:00	0.50	C12	CLR	P	Continued to RIH to 575m with 69.9kg/m (47ppf), R3, Vam Top, 244mm (9-5/8") casing joints. Installed RA pip tag on pin end of joint # 234 (planned landing depth 2692.09m).
7:30	0.50	C12	REP	D	Discovered loose bolt in PLS. Replaced bolt and safety pin.
8:00	16.00	C12	CLR	P	Continued RIH with 244mm (9-5/8") casing joints from 575m to 2104m, filling each joint. Average 12 joints per hour. Broke circulation at 473mm (18-5/8") shoe at 633m and at 1500m. Note: each casing collar tagged the top of the 339mm (13-3/8") dummy hanger.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20
311mm (12 1/4")	638.00	1,652.00	473.07	633.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	42.00	14.364	14.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 18 **Report Date: 19/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	3.00	147.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	4	_Others	5
GEOSERVICES	6	OMS	39
MAERSK	15	WEATHERFORD	6
HALCO	2	WOODSIDE	6
BHDF	6	TECHNIP	7
		Total POB :	97

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
WATER, POTABLE	MT	30.00	358.00	GEL, FRESH	MT		49.00
BRINE	m3		1,005.00	HELI FUEL	ltrs		3,430.00
CEMENT	MT		117.00	WATER, DRILLING	MT		308.00
CEMENT HTB	MT		46.00	BARITE BULK	MT		111.00
DIESEL	m3	9.00	112.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	6.17	1.900	4.300				12.60

REMARKS

No accidents or incidents over past 24hrs.
Held emergency fire and evacuation drills with all crews.

BJ commenced platform pressure testing program.

Weather Forecast: Max HS decreasing to below 3m by Monday 21/08/06 then increasing to 5m by Tuesday 22/08/06. Winds currently 18kn, gusting to 27kn. Winds forecast to increase slightly during 21/08/06 and 22/08/06 to 25kn, gusting to 35kn. Thereafter decreasing to <15kn through Thursday 24/08/06.

THA02 'A' annulus: 23:00hrs : 8900kpa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 19 **Report Date: 20/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	18.50	MD (m):	2,751.00	Day WSM:	Shaughan Corless
DFS:	18.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,282.10	Rig OIM:	George Clark
Progress Days:	19.52	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 15,501,112.00 ($)

Ops 00:00 to 06:00 : Continued making up BHA. Conducted shallow test for FEWD and directional tools. Continued RIH with 139mm (5-1/2") drillpipe.

Ops Summary : Continued RIH with 244mm (9-5/8") casing. Made up casing hanger and landed casing. Cemented casing. Jetted wellhead. Set and tested seal assy. Rigged down casing tools. Laid down 203mm (8") drill collars and jars. M/U 216mm (8-1/2") BHA.

Ops Look Ahead : Continue RIH with 216mm (8-1/2") drilling assembly. Tag cement. Pressure test 244mm (9-5/8") casing. Drill cement and shoetrack. Drill 3m new formation. Perform FIT. Drill ahead 216mm hole building angle as per directional plan.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	4.50	C12	CLR	P	Continued RIH with 244mm (9-5/8") casing joints from 2104m to 2705m, filling each joint. Average 12 joints per hour. Note: each casing collar tagged the top of the 339mm (13-3/8") dummy hanger.
4:30	1.00	C12	CLR	P	Rigged down FMS. Installed master bushings, inserts and hand slips.
5:30	0.50	C12	CLR	P	Picked up and made up 4m pup joint and casing hanger. RIH 2 landing joints, and landed casing hanger. Noted wellhead subsidence 40mm.
6:00	3.00	C12	PCD	P	Inflated TAM packer. Circulated casing. Held TBT for cement job.
9:00	1.50	C12	CLC	P	Pumped 9.6m3 (60bbls) tuned spacer. Stung out TAM packer. Inserted bottom wiper plug in casing. Made up cement head and lines. Tested lines to 24.2MPa (3500psi) / 5 minutes. Pumped 2.6m3 (16bbls) drillwater.
10:30	0.50	C12	CLC	P	Cemented 244mm (9-5/8") casing as follows : Lead : 180sx HTB mixed with 8.0m3 (50bbls) mix fluid to give 10.6m3 (66bbls) of 1.50SG slurry. Tail : 405sx HTB mixed with 7.8m3 (49bbls) mix fluid to give 13.4m3 (84bbls) of 1.87SG slurry.
11:00	2.50	C12	CLC	P	Released top wiper plug. Displaced with 1.6m3 (10bbls) drillwater followed by 105m3 (660bbls) SBM. Final circulating pressure 7.6MPa (1100psi). Bumped plug to 11.2MPa (1625psi) for 10 minutes. Bled off. Floats held. Note: Theoretical SBM displacement to bump plug based on nominal casing ID was 102.2m3 (643bbls). The lower wiper plug was observed to land and shear 106.7m3 (671bbls) after the start of its displacement.
13:30	0.50	C12	RUD	P	Rigged down cement head and lines.
14:00	1.50	C12	RUD	P	Released casing hanger running tool with 6 turns to the right. POOH and laid out landing joints and hanger running tool.
15:30	1.00	C12	RUD	P	Rigged down casing handling equipment. Removed TAM packer and 500T slip type elevators and bails. Drained riser, BOP and wellhead from B section side outlet valve.
16:30	0.50	C12	WHM	P	Made up Cameron jetting tool. RIH on 139mm HWDP. Tagged 273mm (10-3/4") casing hanger. Jetted wellhead with seawater. POOH.
17:00	1.00	C12	WHM	P	Made up 476mm x 273mm (18-3/4" x 10-3/4") seal assembly. RIH on 139mm (5-1/2") HWDP. Strapped in, and slowly landed seal assembly with 'B' section side outlet valve open. Set down 4.55T (10 klbs) and made 1/4 turn to the left - 406 daN.m (3000 ft/lbs) torque to ensure anti-rotation dogs engaged. Turned running string 4 turns to the right to release snap ring. Pulled 9.1T (20 klbs) overpull to check seal assembly engagement. Slacked off weight.
18:00	0.50	C12	WHM	P	Pressure tested seals through the test port on the compact housing to 3.44 / 34.4 MPa (500 psi / 5000 psi) for 5 mins and 15 minutes respectively. Good test. Note: Met acceptance criteria # 12, 273mm (10-3/4") hanger seal integrity.
18:30	1.00	C12	WHM	P	POOH and laid down seal assembly running tool.
19:30	0.50	C12	WHM	P	Made up wear bushing running tool with upper wear bushing. RIH and installed wear bushing. POOH and laid down running tool.
20:00	1.50	C12	DRT	P	Laid down 2 x 203mm (8") drill collars and 1 x NMDC. Laid down jars and 5 x 139mm (5-1/2") HWDP.
21:30	2.50	D09	DRT	P	Held toolbox talk for making up BHA. Picked up Geopilot, and made up 216mm (8-1/2") PDC bit. Made up FEWD tools and RIH to 41.72m.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 19 **Report Date: 20/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20
311mm (12 1/4")	638.00	1,652.00	473.07	633.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	41.00	13.406	12.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	10.00	157.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	5	_Others	5
GEOSERVICES	6	OMS	39
MAERSK	15	HALCO	2
WOODSIDE	6	BHDF	6
TECHNIP	7	CAMERON	1
		Total POB :	92

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
BARITE BULK	MT	4.00	107.00	HELI FUEL	ltrs	30.00	3,400.00
DIESEL	m3	6.00	248.00	GEL, FRESH	MT		49.00
CEMENT HTB	MT	28.00	18.00	WATER, POTABLE	MT	26.00	332.00
WATER, DRILLING	MT	85.00	373.00	BRINE	m3		1,005.00
CEMENT	MT		117.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	15.43	1.400	1.500				14.80

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 19			**Report Date: 20/08/2006**
Block: T/L2	**Rig: Maersk Guardian**	**Water Depth(m): 99.30**	**Start Date: 17/03/2006**

REMARKS

No accidents or incidents over past 24hrs.

BJ continued preparation for second nitrogen test on Thylacine platform.

Weather Forecast: Max HS ranging from 4.5m to 2.3m to Friday 25/08/06. Winds currently 35kn, gusting to 40kn. Winds forecast to decrease during 22/08/06 through to 25/08/06 to <20kn.

THA02 'A' annulus: 21:00hrs : 9200kpa
21/08/06 06:00hrs : 10000kpa
Bled off THA02 'A' annulus from 10000kpa to 1000kpa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 20 **Report Date: 21/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	19.50	MD (m):	2,773.00	Day WSM:	Shaughan Corless
DFS:	19.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,286.95	Rig OIM:	George Clark
Progress Days:	20.08	Progress (m):	22.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 15,257,636.00 ($)

Ops 00:00 to 06:00 : Continued drilling 216mm (8-1/2") hole from 2773m to 2857m at an average ROP of 21 m/hr. Building angle to 91.7 deg as per directional plan.

Ops Summary : M/U FEWD tools and 216mm (8-1/2") BHA. RIH. Tested casing. Drilled cement, float, shoe and rathole. Drilled 3m new formation. Circulated bottoms up - max gas 1.6%. Performed FIT to 2.0 SG EMW. Drilled 216mm (8-1/2") hole from 2754m to 2773m.

Ops Look Ahead : Drill ahead 216mm (8-1/2") directional hole as per directional plan.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	1.00	D09	DRT	P	Uploaded MWD tools. Installed Radioactive sources.
1:00	1.00	D09	DRT	P	Continued making up and RIH with 216mm (8-1/2") BHA.
2:00	0.50	D09	PCD	P	Conducted shallow pulse test for MWD tools at 1.89 m3/min (500 gpm), 7.58 MPa (1100 psi). Broke-in Geopilot seals.
2:30	1.00	D09	DRT	P	Continued making up and RIH with 216mm (8-1/2") BHA. Installed PS-21 slips.
3:30	7.50	D09	DRT	P	Continued RIH on 139mm (5-1/2") drillpipe from 139m to 2683m, filling every 10 stands.
11:00	0.50	D09	PCD	P	Made up TDS. Worked in Geolpilot seals and set Geopilot tool to zero deflection.
11:30	0.50	D09	PCD	P	Washed down from 2683m to 2712m.
12:00	2.00	D09	PRE	P	Held toolbox talk. Lined up to pump down drillstring and kill line simultaneously. Spaced out and closed upper pipe ram. Pressure tested 244mm (9-5/8") casing to 24.1 MPa (3500 psi) with 1.24 SG mud in the casing. Held final pressure for 1 hour - good test. Note: Acceptance criteria # 11 met, 244mm (9-5/8") casing integrity.
14:00	4.50	D09	DCP	P	Washed / reamed down and tagged cement plugs at 2715m. Drilled plugs and float collar. Drilled out shoe at 2743m.
18:30	1.00	D09	DCP	P	Cleaned out rathole to 2751m. Worked bit back through shoe with and without pumps and rotary.
19:30	0.50	D09	DRS	P	Drilled 3m new formation from 2751m to 2754m.
20:00	1.00	D09d	PCD	P	Circulated bottoms up - maximum gas 1.6%. Took SCR's and pick up/slack-off weights. Racked back 1 stand and broke off 1 single to put bit inside 244mm (9-5/8") casing shoe.
21:00	1.00	D09	FST	P	Lined up to perform FIT test. Shut-in well on upper pipe rams. Performed FIT to 2.0 SG EMW using 1.24 SG mud and 18.2 MPa (2460 psi) imposed pressure. Pumped a total of 1.27 m3 (8 bbl) at .047 m3/min (0.25 bbl/min). Allowed final pressure to stabilise for 8 mins. Bled-off back to cement unit. Returned 1.27 m3 (8 bbls) - no losses. Acceptance criteria # 13 met: 244mm (9-5/8") Shoe integrity.
22:00	2.00	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 2754m to 2773m building angle at 5.5 deg/30m. Drilling parameters: 2.27 m3/min (600 gpm), 16.2 MPa (2350psi), 75 RPM, 1085 - 1762 kdN.m (8 - 13 kft/lbs), 2.3 - 9.1T (5 - 20 klbs). Total gas 6 - 11%. ROP 14.7 m/hr (8.8 m/hr with connections). Max DLS 5.17 deg/30m Survey at 2760.53m, Inc 76.93 deg, Az 103.74 deg, TVD 2284.26m.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20
311mm (12 1/4")	638.00	1,652.00	473.07	633.00		Open Hole	
216mm (8-1/2")	2,751.00	2,773.00				Open Hole	

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 20 **Report Date: 21/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1240	39.00	14.364	14.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	9.00	166.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	5	_Others	7
GEOSERVICES	6	OMS	39
MAERSK	15	HALCO	2
WOODSIDE	6	BHDF	6
		Total POB :	95

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
CEMENT HTB	MT		18.00	BRINE	m3		1,005.00
CEMENT	MT		117.00	BARITE BULK	MT		107.00
WATER, POTABLE	MT	28.00	328.00	GEL, FRESH	MT		49.00
WATER, DRILLING	MT	28.00	345.00	DIESEL	m3	4.00	244.00
HELI FUEL	ltrs	20.00	3,380.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	20.60	1.500	2.300				13.30

REMARKS

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 20			Report Date: 21/08/2006
Block: T/L2	Rig: Maersk Guardian	Water Depth(m): 99.30	Start Date: 17/03/2006

No accidents or incidents over past 24hrs.

BHA #4: 216mm (8-1/2") Bit #4, Geopilot; NM flex jt; RLL W/DGR + EWR, ALT + CTN, PWD, HOC w/P4M Pulser; Float sub w/ported float; NMDC; NM Flex Joint; x/o (OTWY-11); 6 x 139mm (5-1/2") HWDP; Jars (12885E); 2 x 139mm (5-1/2") HWDP.
Total BHA length 139.14m.

Bit #4: Security DBS FMF 3653Z s/n 10860872, Nozzles 3 x 16, 3 x 15. TFA = 1.107"
Daily bit data: 22m, 2.5 IADC hrs, 1.5 hrs on bottom, 9.1 hrs circulating, 7 Krevs, 14.6 m/hr avg on bottom ROP. 8.8m/hr IADC ROP.

Crossover rotating hours : WEL OTWY-11: 6 hrs.
Jars rotating hrs (s/n 12285E) : 6 hrs.

BJ performed second nitrogen test on Thylacine platform process pipework.

Weather Forecast: Max HS currently 4.5m, reducing to <2.0m by Saturday 26/08/06. Winds currently 35kn, gusting to 45kn. Winds forecast to decrease during 22/08/06 through to 26/08/06 to <20kn.

THA02 'A' annulus: 06:00hrs : 1000kpa
22/08/06 05:00hrs : 3900kpa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 21 **Report Date: 22/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	20.50	MD (m):	3,108.00	Day WSM:	Shaughan Corless
DFS:	20.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,245.80	Rig OIM:	George Clark
Progress Days:	22.40	Progress (m):	335.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 15,439,132.00 ($)

Ops 00:00 to 06:00 : Continued drilling 216mm (8-1/2") hole from 3108m to 3193m at an average ROP of 21 m/hr.

Ops Summary : Continued drilling 216mm (8-1/2") hole from 2773m to 3108m as per directional plan. Average ROP 22.8 m/hr.

Ops Look Ahead : Drill ahead 216mm (8-1/2") directional hole as per directional plan.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	9.00	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 2773m to 2915m as per directional plan. Took directional survey after each stand, and took check shots at each single for Cazandra azimuthal calibration. Drilling parameters: Flow 2.65 m3/min (700 gpm), P Press 22.5 MPa (3260psi), 116 RPM, Torque 1356 - 1898 kdN.m (10 - 14 kft/lbs), WOB 8.2 - 10.4T (18 - 23 klbs). Maximum gas 12%. ROP 18.7 m/hr (15.7 m/hr with connections). Max DLS 5.9 deg/30m Survey at 2905.33m, Inc 101.06 deg, Az 113.86 deg, TVD 2285.67m.
9:00	2.00	D09	DVC	P	Circulated while waiting for Cazandra azimuthal analysis results from Alaska.
11:00	0.50	D09	DVM	P	Took check shot surveys at each single on the working stand.
11:30	6.00	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 2915m to 3028m as per directional plan. Drilling parameters: Flow 2.65 m3/min (700 gpm), P Press 22.5 MPa (3260psi), 116 RPM, Torque 1356 - 1898 kdN.m (10 - 14 kft/lbs), WOB 8.2 - 10.4T (18 - 23 klbs). Maximum gas 11%. ROP 22.6 m/hr (18.8 m/hr with connections). Max DLS 4.33 deg/30m Survey at 3021.10m, Inc 100.84 deg, Az 108.83 deg, TVD 2261.56m.
17:30	1.00	D09	PCD	D	Lost signal from Sperry FEWD tools. Picked up off bottom. Cycled pumps and worked string. Re-established signal with FEWD tools. No response from density tool.
18:30	5.50	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 3028m to 3108m as per directional plan. Drilling parameters: Flow 2.84 m3/min (750 gpm), P Press 25.44 MPa (3690psi), 125 RPM, Torque 1491 - 2169 kdN.m (11 - 16 kft/lbs), WOB 8.2 - 11.3T (18 - 25 klbs). Total gas 11%. ROP 23 m/hr (14.54 m/hr with connections). Max DLS 2.02 deg/30m Survey at 3107.89m, Inc 100.67 deg, Az 108.92 deg, TVD 2245.58m.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	50.00	217.00	9.625	2,743.00	N	Casing	30.000
584mm (23")	217.00	638.00	26.000	217.00		Casing	23.000
311mm (12 1/4")	638.00	2,751.00	18.625	633.00		Open Hole	
216mm (8-1/2")	2,751.00	3,108.00				Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
SBM (SYN-TEQ)	1250	49.00	36.000	16.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 21 **Report Date: 22/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	8.00	174.00
TRCs:	1	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	5	_Others	7
GEOSERVICES	6	OMS	39
MAERSK	17	HALCO	2
WOODSIDE	6	BHDF	7
		Total POB :	98

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
BARITE BULK	MT	6.00	101.00	CEMENT	MT		117.00
GEL, FRESH	MT		49.00	WATER, DRILLING	MT		308.00
WATER, POTABLE	MT	46.00	332.00	DIESEL	m3	19.00	225.00
CEMENT HTB	MT		18.00	HELI FUEL	ltrs		2,900.00
BRINE	m3		1,005.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	At Rig		
Invincible Tide	En route to Portland		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	0.60	2.300	1.500				13.30

REMARKS

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 21 **Report Date: 22/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

I medical treatment case. Laundry person cut finger on a safety knife left in pocket of coveralls. Person treated by medic.

BHA #4: 216mm (8-1/2") Bit #4, Geopilot; NM flex jt; RLL W/DGR + EWR, ALT + CTN, PWD, HOC w/P4M Pulser; Float sub w/ported float; NMDC; NM Flex Joint; x/o (OTWY-11); 6 x 139mm (5-1/2") HWDP; Jars (12885E); 2 x 139mm (5-1/2") HWDP.
Total BHA length 139.14m.

Bit #4: Security DBS FMF 3653Z s/n 10860872, Nozzles 3 x 16, 3 x 15. TFA = 1.107"
Daily bit data: 313m, 20.5 IADC hrs, 13.7 hrs on bottom, 22.3 hrs circulating, 101 Krevs, 22.8 m/hr avg on bottom ROP. 15.26m/hr IADC ROP.
Total bit data: 335m, 23 IADC hrs, 15.2 hrs on bottom, 31.4 hrs circulating, 108 Krevs, 22.04 m/hr avg on bottom ROP. 14.56m/hr IADC ROP.

Crossover rotating hours : WEL OTWY-11: 19.7 hrs.
Jars rotating hrs (s/n 12285E) : 19.7 hrs.

Metal Recovery from Ditch Magnet:

00:00 - 12:00 hrs	920 gms
12:00 - 24:00 hrs	170 gms
Cumulative:	1090 gms

BJ completed test pack #3, and preparing for test pack #4 on Thylacine platform process pipework.
Total of 34 leaks found during test pack #2.
Supply of liquid N2 exhausted.

Weather Forecast: Max HS currently 3.2m, steadily reducing to <2.0m by Saturday 26/08/06. Winds currently 20kn, gusting to 25kn. Winds forecast to decrease during 22/08/06 through to 26/08/06 to <20kn.

THA02 'A' annulus: 05:00hrs : 3900kpa
23/08/06 03:00hrs : 5900kpa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 22 **Report Date: 23/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	21.50	MD (m):	3,194.00	Day WSM:	Stuart Job
DFS:	21.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,233.80	Rig OIM:	George Clark
Progress Days:	23.80	Progress (m):	86.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 16,002,459.00 ($)

Ops 00:00 to 06:00 : Continued to make up BHA. Installed RA sources in MWD tool. Conducted shallow pulse test and broke-in Geopilot seals. Set tool deflection to zero. Continued RIH with 139mm (5-1/2") drillpipe to 1268m, filling string every 10 stands.

Ops Summary : Drilled 216mm hole from 3108m to 3194m as per directional plan. Lost communication with FEWD and directional tools. Circulated bottoms up. POOH to 3098m. Backreamed from 3098m to 2741m. POOH to surface. L/D BHA. M/U new BHA.

Ops Look Ahead : RIH. Take check-shot surveys in open hole for Cazandra azimuthal corrections. Drill ahead 216mm (8-1/2") directional hole as per directional plan.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	5.50	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 3108m to 3194m as per directional plan. Drilling parameters: Flow 2.84 m3/min (750 gpm), P Press 25.44 MPa (3690psi), 125 RPM, Torque 1491 - 2169 kdN.m (11 - 16 kft/lbs), WOB 8.2 - 11.3T (18 - 25 klbs). Total gas 9.4% ROP 20.5 m/hr (15.6 m/hr with connections). Max DLS 3.77 deg/30m Survey at 3165.84m, Inc 96.81 deg, Az 104.34 deg, TVD 2236.94m.
5:30	1.00	D09	NGI	D	Lost comminucations with Sperry FEWD and directional tools. Picked up off bottom. Good signal from pulser, no signal from below PWD sub. Cycled pumps and mode switched. Response from density tool only. No further communication below PWD.
6:30	1.75	D09	PCD	D	Circulated 3x bottoms up.
8:15	0.25	D09	NOA	D	Flowchecked 15 minutes - static.
8:30	1.00	D09	DRT	D	POOH on elevators from 3139m to 3098m. Swabbing observed while pulling a stand at 3098m. Maximum overpull 13.6T (30 klbs).
9:30	3.00	D09	REM	D	Made up TDS. Pumped and backreamed out of hole from 3098m to 2741m. No overpull or erratic torque experienced.
12:30	0.50	D09	PCD	D	Circulated bottoms up inside shoe.
13:00	0.50	D09	PCD	D	Flowchecked 15 minutes - static. Pumped slug.
13:30	5.00	D09	DRT	D	POOH from 2741m to 139m. Flowchecked 15 minutes before pulling BHA - hole static.
18:30	1.00	D09	RUD	D	Changed out PS21 slips for manual handling equipment. Racked back HWDP and jars. Changed to manual elevators.
19:30	1.00	D09	DRT	D	Cleared personnel from rig floor and platform. Removed radioactive sources from FEWD toolstring. Broke off bit. Plugged in FEWD tool in the rotary table and attempted to download recorded data. Unable to communicate with the FEWD toolstring. Bit dull grade: 0-0-NO-A-X-I-NO-MWD.
20:30	1.00	D09	DRT	D	Held toolbox talk for handling BHA. Laid down BHA.
21:30	0.50	D09	PSI	D	Cleared and cleaned rig floor.
22:00	0.50	D09	DRT	D	Continued laying down BHA.
22:30	1.50	D09	DRT	D	Picked up and made up new BHA as Sperry instructions.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Open Hole	584.20
311mm (12 1/4")	638.00	1,652.00	473.07	633.00		Open Hole	
216mm (8-1/2")	2,751.00	2,773.00				Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 22 **Report Date: 23/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1260	52.00	16.279	16.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	9.00	183.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	5	_Others	8
GEOSERVICES	6	OMS	39
MAERSK	16	HALCO	2
WOODSIDE	6	BHDF	7
		Total POB :	98

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
HELI FUEL	ltrs		7,400.00	CEMENT HTB	MT		46.00
WATER, DRILLING	MT	35.00	273.00	BRINE	m3		1,315.00
CEMENT	MT		117.00	GEL, FRESH	MT		49.00
WATER, POTABLE	MT	22.00	348.00	DIESEL	m3	8.00	217.00
BARITE BULK	MT	8.00	88.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	2.05	1.500	1.800				12.30

REMARKS

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 22			Report Date: 23/08/2006
Block: T/L2	Rig: Maersk Guardian	Water Depth(m): 99.30	Start Date: 17/03/2006

No accidents or incidents for last 24 hours.
CHC Helicopters held after-dark landing and take-off training exercise on Maersk Guardian helideck.

Surveys have been corrected using Cazandra azimuthal calibration.

BHA #4: 216mm (8-1/2") Bit #4, Geopilot; NM flex jt; RLL W/DGR + EWR, ALT + CTN, PWD, HOC w/P4M Pulser; ACAL; Float sub w/ported float; NMDC; NM Flex Joint; x/o (OTWY-11); 6 x 139mm (5-1/2") HWDP; Jars (12885E); 2 x 139mm (5-1/2") HWDP.
Total BHA length 139.14m.

Bit #4: Security DBS FMF 3653Z s/n 10860872, Nozzles 3 x 16, 3 x 15. TFA = 1.107"
Daily bit data: 86m, 5.5 IADC hrs, 4.27 hrs on bottom, 10 hrs circulating, 33 Krevs, 20.5 m/hr avg on bottom ROP. 15.6m/hr IADC ROP.
Total bit data: 443m, 28.5 IADC hrs, 19.4 hrs on bottom, 41.4 hrs circulating, 141 Krevs, 22.8 m/hr avg on bottom ROP. 15.54m/hr IADC ROP.
Bit Grade: 0-0-NO-A-X-I-NO-MWD

BHA #5: 216mm (8-1/2") Bit #4 RR, Geopilot; NM flex jt; RLL W/DGR + EWR, ALT + CTN, PWD, HOC w/P4M Pulser; ACAL; Float sub w/ported float; NMDC; NM Flex Joint; x/o (OTWY-11); 6 x 139mm (5-1/2") HWDP; Jars (12885E); 2 x 139mm (5-1/2") HWDP.
Total BHA length 140.54m.

Crossover rotating hours : WEL OTWY-11: 28 hrs.
Jars rotating hrs (s/n 12285E) : 28 hrs.

Metal Recovery from Ditch Magnet:

00:00 - 12:00 hrs	250 gms
12:00 - 24:00 hrs	- gms
Cumulative:	1340 gms

BJ completed test pack #4 on Thylacine platform process pipework. Pressure bled down to zero. Technip commenced repairing leaks on test pack #2.
Nitrogen tanks backloaded to Portland for re-filling.

Weather Forecast: Max HS currently 2m, steadily reducing to <2.0m by Saturday 26/08/06. Winds currently 3kn, gusting to 4kn. Winds forecast to increase during 24/08/06 to 20kn, with gusts of 30kn, then decrease to <10kn on Friday pm 25/08/06 through to 27/08/06.

THA02 'A' annulus: 15:00hrs : 6700kpa
24/08/06 02:30hrs : 7100kpa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 23 **Report Date: 24/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	22.50	MD (m):	3,350.00	Day WSM:	Stuart Job
DFS:	22.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,220.80	Rig OIM:	George Clark
Progress Days:	23.74	Progress (m):	156.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 16,370,234.00 ($)

Ops 00:00 to 06:00 : Continued drilling 216mm (8-1/2") hole from 3350m to 3437m as per directional plan. ROP 30 m/hr. Reduced ROP to 15 m/hr and reduced RPM from 165 to 120 from 3380m to 3400m as precaution against collision with Thylacine South 1.

Ops Summary : M/U new FEWD and Geopilot tools. Shallow tested MWD and broke-in Geopilot seals. RIH. Took check-shot surveys in open hole. Tagged bottom. Drilled 216mm (8-1/2") hole from 3194m to 3350m as per directional plan.

Ops Look Ahead : Drill ahead 216mm (8-1/2") directional hole as per directional plan.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.50	D09	DRT	D	Uploaded MWD tool.
0:30	0.50	D09	DRT	D	Held toolbox talk for handling RA sources. Cleared personnel from rigfloor and installed Radioactive sources in FEWD tools.
1:00	1.00	D09	DRT	D	Continued to RIH with BHA to 111m. Restricted personnel access to platform until radioactive sources were below sea level.
2:00	0.50	D09	PCD	D	Made up TDS. Shallow tested MWD tools. Broke-in Geopilot seals as per Sperry instructions.
2:30	8.00	D09	DRT	D	RIH with 139mm (5-1/2") drillpipe from 111m to 2830m. Filled drillpipe every 10 stands.
10:30	2.00	D09	DVM	D	Made up TDS. RIH taking check shot surveys at each single from 2830m to 2956m. Took a total of 12 surveys for Cazandra correlation for new BHA.
12:30	0.50	D09	DRT	D	RIH from 2956m to 3194m. Washed last stand down and tagged bottom at 3194m.
13:00	0.50	D09	PCD	D	Recorded SCR's and checkshot surveys prior to drilling ahead.
13:30	2.50	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 3194m to 3216m as per directional plan. Drilling parameters: Flow 2.84 m3/min (750 gpm), SPP 26.9 MPa (3902psi), 125-165 RPM, Torque 2033 - 2169 kdN.m (15 - 16 kft/lbs), WOB 6.8 - 11.3T (15 - 25 klbs). Connection parameters: P/U wt: 136T (300 klbs), S/O wt: 89.8T (198 klbs) ROT wt: 90.7T (200 klbs). Total gas 9.4% ROP 20 - 30 m/hr (15.6 m/hr with connections). Max DLS 3.1 deg/30m Last Survey at 3195.21m, Inc 95.81 deg, Az 101.40 deg, TVD 2233.73m.
16:00	0.50	D09	NGI	D	Poor detection from FEWD toolstring. Picked up off bottom and investigated. Pump #1 had minor leak on swab, and Sperry pump stroke counter needed adjustment. Checked FEWD detection using pumps 2 & 3. Good detection.
16:30	7.50	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 3216m to 3350m as per directional plan. Drilling parameters: Flow 2.84 m3/min (750 gpm), SPP 25.2 MPa (3660psi), 165 RPM, Torque 2304 - 2440 kdN.m (17 - 18 kft/lbs), WOB 5.4 - 8.2T (12 - 18 klbs). Connection parameters: P/U wt: 137.9T (304 klbs), S/O wt: 90.7T (200 klbs) ROT wt: 93.9T (207 klbs). Total gas 6.5 - 9.6% ROP 30 m/hr (17.8 m/hr with connections). Max DLS 2 deg/30m Last Survey at 3339.94m, Inc 92.66 deg, Az 101.22 deg, TVD 2220.76m. Replaced swab on pump#1 offline.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,350.00	244.00	2,743.00		Open Hole	

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 23 **Report Date: 24/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	40.00	12.928	13.00	

CASING

Last Casing: 244.00 mm @ 2,743.00 m	Next Casing: 178.00 mm @ 4,250.00 m	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	1.00
DSLTI		Stop/Start Cards	7.00	190.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	5	_Others	2
GEOSERVICES	6	OMS	38
MAERSK	16	HALCO	2
WOODSIDE	8	BHDF	7
		Total POB :	93

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
GEL, FRESH	MT		49.00	BRINE	m3		1,315.00
DIESEL	m3	8.00	209.00	WATER, DRILLING	MT	54.00	219.00
CEMENT	MT		117.00	BARITE BULK	MT		64.00
CEMENT HTB	MT		46.00	WATER, POTABLE	MT		357.00
HELI FUEL	ltrs	985.00	6,415.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	12.86	1.600	1.600				9.90

REMARKS

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 23			Report Date: 24/08/2006
Block: T/L2	Rig: Maersk Guardian	Water Depth(m): 99.30	Start Date: 17/03/2006

No accidents or incidents for last 24 hours.

Surveys have been corrected using Cazandra azimuthal calibration.

Bit #4RR: Security DBS FMF 3653Z s/n 10860872, Nozzles 3 x 16, 3 x 15. TFA = 1.107"
Daily bit data: 156m, 10 IADC hrs, 6.5 hrs on bottom, 12.2 hrs circulating, 65 Krevs, 24 m/hr avg on bottom ROP. 15.6m/hr IADC ROP.
Total for this run: 156m, 10 IADC hrs, 6.5 hrs on bottom, 12.2 hrs circulating, 65 Krevs, 24 m/hr avg on bottom ROP. 15.6m/hr IADC ROP.
Total for the bit: 599m, 38.5 IADC hrs, 26 hrs on bottom, 53.6 hrs circulating, 206 Krevs, 23 m/hr avg on bottom ROP. 15.54m/hr IADC ROP.

BHA #5: 216mm (8-1/2") Bit #4 RR, Geopilot; NM flex jt; RLL W/DGR + EWR, ALT + CTN, PWD, HOC w/P4M Pulser; ACAL; Float sub w/ported float; NMDC; NM Flex Joint; x/o (OTWY-11); 6 x 139mm (5-1/2") HWDP; Jars (12885E); 2 x 139mm (5-1/2") HWDP.
Total BHA length 140.54m.

Crossover rotating hours : WEL OTWY-11: 40.2 hrs.
Jars rotating hrs (s/n 12285E) : 40.2 hrs.

Metal Recovery from Ditch Magnet:

00:00 - 12:00 hrs	370 gms
12:00 - 24:00 hrs	470 gms
Cumulative:	2180 gms

Weather Forecast: Max HS currently 2m, remaining steady at 2.0m until Monday 28/08/06. Winds currently 20kn, gusting to 25kn. Winds forecast to decrease during 25/08/06 to 10-12kn, with gusts of 18-20kn, then decrease to <10kn on Saturday 26/08/06 through to 28/08/06.

THA02 'A' annulus:		15:15hrs : 7500kpa
		20:00hrs : 8000kpa
	25/08/06	04:00hrs : 8300kpa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 24 **Report Date: 25/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	23.50	MD (m):	3,697.00	Day WSM:	Stuart Job
DFS:	23.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,224.24	Rig OIM:	George Clark
Progress Days:	26.05	Progress (m):	347.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 16,754,523.00 ($)

Ops 00:00 to 06:00 : Continued drilling 216mm (8-1/2") hole from 3697m to 3792m as per directional plan. ROP 30 m/hr (instantaneous).

Ops Summary : Continued drilling 216mm (8-1/2") hole from 3350m to 3697m as per directional plan. ROP 30 m/hr (instantaneous).

Ops Look Ahead : Drill ahead 216mm (8-1/2") directional hole as per directional plan.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	15.50	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 3350m to 3610m as per directional plan. Controlled ROP to 20 m/hr and reduced RPM to 120 from 3380 - 3400m as a precaution for possible collision with Thylacine South 1 wellbore. Reamed and wiped each stand once at connections. Drilling parameters: Flow 2.8 m3/min (740 gpm), SPP 25.2 - 26.75MPa (3650 - 3880psi), 120 - 165 RPM, Torque 1898 - 2711 kdN.m (14 - 20 kft/lbs), WOB 6.8 - 10.8T (15 - 24 klbs). Connection parameters: P/U wt: 136.9 - 140.6T (302 - 310 klbs), S/O wt: 90.7T (200 klbs) ROT wt: 93.9T (207 klbs). Total gas 4.3 - 10.5% ROP 14 - 30 m/hr (16.7 m/hr with connections). Last Survey at 3600.24m, Inc 86.18 deg, Az 94.28 deg, TVD 2215.34m.
15:30	1.00	D09	PCD	P	Tight hole prior to connection at 3610m. P/U weight 156T (345 klbs), S/O weight 79.4T (175 klbs). Reamed stand and circulated 2x bottoms up. After reaming, P/U weight 140 T (310 klbs), S/O weight 90.7T (200klbs).
16:30	1.50	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 3610m to 3639m as per directional plan. Reamed and wiped each stand 3 times at connections due to additional drag observed. Drilling parameters: Flow 2.8 m3/min (740 gpm), SPP 26.9MPa (3910psi), 165 RPM, Torque 2305 - 2711 kdN.m (17 - 20 kft/lbs), WOB 6.35 - 9.1T (14 - 20 klbs). Connection parameters: P/U wt: 140.6T (310 klbs), S/O wt: 89.8T (198 klbs) ROT wt: 92.5T (204 klbs). Total gas 0.4 - 0.9% ROP 25 - 30 m/hr (19.3 m/hr with connections). Last Survey at 3629.18m, Inc 85.43 deg, Az 94.07 deg, TVD 2217.45m.
18:00	1.50	D09	PCD	P	Tight hole prior to connection at 3639m. P/U weight 156T (345 klbs), S/O weight 79.4T (175 klbs). Reamed stand and circulated 3x bottoms up. P/U and S/O weight returned to 140.6T (310 klbs) up, 90.7T (200 klbs) down.
19:30	4.50	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 3639m to 3697m as per directional plan. Reamed and wiped each stand 3 times at connections due to additional drag observed. Drilling parameters: Flow 2.8 m3/min (740 gpm), SPP 25.8MPa (3750psi), 165 RPM, Torque 2305 - 2576 kdN.m (17 - 19 kft/lbs), WOB 4.53 - 7.26T (10 - 16 klbs). Connection parameters: P/U wt: 139 - 142.8T (308 - 315 klbs), S/O wt: 90.7T (200 klbs) ROT wt: 93.9T (207 klbs). Total gas 0.2 - 0.5% ROP 26 - 30 m/hr (12.8 m/hr with connections). Last Survey at 3687.12m, Inc 79.76 deg, Az 93.37 deg, TVD 2224.80m.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Open Hole	

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 24 **Report Date: 25/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	45.00	14.364	15.00	

CASING

Last Casing: 244.00 mm @ 2,743.00 m	Next Casing: 178.00 mm @ 4,250.00 m	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	2.00
DSLTI		Stop/Start Cards	6.00	196.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	5	GEOSERVICES	6
OMS	38	MAERSK	18
WEATHERFORD	1	HALCO	2
WOODSIDE	6	BHDF	7
		Total POB :	92

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
DIESEL	m3	12.00	197.00	WATER, DRILLING	MT	19.00	200.00
GEL, FRESH	MT		49.00	WATER, POTABLE	MT		378.00
CEMENT HTB	MT		46.00	BRINE	m3		1,315.00
BARITE BULK	MT		116.00	CEMENT	MT		117.00
HELI FUEL	ltrs	500.00	7,915.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	4.11	1.600	1.700				9.70

REMARKS

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 24			Report Date: 25/08/2006
Block: T/L2	Rig: Maersk Guardian	Water Depth(m): 99.30	Start Date: 17/03/2006

No accidents or incidents for last 24 hours.

Surveys have been corrected using Cazandra azimuthal calibration.
Drilled through new Target 1 (on Plan 12). Distance from centre of new Target 1 0.5m to the North.

Bit #4RR: Security DBS FMF 3653Z s/n 10860872, Nozzles 3 x 16, 3 x 15. TFA = 1.107"
Daily bit data: 347m, 21.5 IADC hrs, 14 hrs on bottom, 22.4 hrs circulating, 137 Krevs, 24.7 m/hr avg on bottom ROP. 16.1m/hr IADC ROP.
Total for this run: 503m, 31.5 IADC hrs, 20.5 hrs on bottom, 34.6 hrs circulating, 202 Krevs, 24.5 m/hr avg on bottom ROP. 15.96m/hr IADC ROP.
Total for the bit: 946m, 60 IADC hrs, 40 hrs on bottom, 76 hrs circulating, 408 Krevs, 23.65 m/hr avg on bottom ROP. 15.76m/hr IADC ROP.

BHA #5: 216mm (8-1/2") Bit #4 RR, Geopilot; NM flex jt; RLL W/DGR + EWR, ALT + CTN, PWD, HOC w/P4M Pulser; ACAL; Float sub w/ported float; NMDC; NM Flex Joint; x/o (OTWY-11); 6 x 139mm (5-1/2") HWDP; Jars (12885E); 2 x 139mm (5-1/2") HWDP.
Total BHA length 140.54m.

Crossover rotating hours : WEL OTWY-11: 62.6 hrs.
Jars rotating hrs (s/n 12285E) : 62.6 hrs.

Metal Recovery from Ditch Magnet:

00:00 - 12:00 hrs	330 gms
12:00 - 24:00 hrs	342 gms
Cumulative:	2852 gms

Weather Forecast: Max HS currently 1.8m, slowly building to 3.4 by Wednesday 30/08/06. Winds currently 5kn, gusting to 7kn. Winds forecast to increase to 10-15 through to Wednesday 30/08/06, gusting to 28kn on Sunday 27/08/06.

THA02 'A' annulus:	14:00hrs : 8600kpa
	23:45hrs : 9000kpa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 25 **Report Date: 26/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	24.50	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	24.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,253.80	Rig OIM:	George Clark
Progress Days:	26.80	Progress (m):	290.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 17,153,685.00 ($)

Ops 00:00 to 06:00 : Backreamed out of hole from 3987m to 3291m.

Ops Summary : Drilled 216mm (8-1/2") hole from 3697m to 3987m as per directional plan. Circulated 2x bottoms up. Functioned BOP. Continued circulating and conditioning mud to reduce rheology for running 179mm (7") liner.

Ops Look Ahead : Continue backreaming out of hole to 244mm (9-5/8") casing shoe. Ream at 50 m/hr for FEWD data from 3208 - 2982m. Circulate bottoms up. Flow check. POOH on elevators. Rack BHA. Rig up and run 179mm (7") liner.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	10.00	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 3697m to 3871m as per directional plan. Reamed and wiped each stand 2 or 3 times at connections due to additional drag observed. Drilling parameters: Flow 2.8 m3/min (740 gpm), SPP 25.8 - 26.3MPa (3750 - 3815psi), 165 RPM, Torque 2305 - 2711 kdN.m (17 - 20 kft/lbs), WOB 5.4 - 10.4T (12 - 23 klbs). Connection parameters: P/U wt: 139 - 142.8T (308 - 315 klbs), S/O wt: 90.7T (200 klbs) ROT wt: 93.9T (207 klbs). Total gas 0.6 - 11.9% ROP 20 - 30 m/hr (17.4 m/hr with connections). Last Survey at 3860.59m, Inc 86.73 deg, Az 99.69 deg, TVD 2244.86m.
10:00	1.00	D09	REM	P	Reamed stand 5 times due to increasing drag and torque. Drag increased by 4.5 - 6.8T (10-15 klbs), torque increased to 2711 kdN.m (20 kft/lbs). Took SCR's.
11:00	8.50	D09	DRS	P	Continued drilling 216mm (8-1/2") hole from 3871m to 3987m as per directional plan. Reamed and wiped each stand 2 or 3 times at connections due to additional drag observed. Drilling parameters: Flow 2.65 - 2.8 m3/min (700 - 740 gpm), SPP 25.8MPa (3815psi), 165 RPM, Torque 2305 - 2711 kdN.m (17 - 20 kft/lbs), WOB 5.4 - 9.9T (12 - 22 klbs). Connection parameters: P/U wt: 139 - 142.8T (308 - 315 klbs), S/O wt: 90.7T (200 klbs) ROT wt: 93.9T (207 klbs). Total gas 0.13 - 1% ROP 26 - 30 m/hr (13.6 m/hr with connections). Last Survey at 3976.36m, Inc 88.03 deg, Az 99.5 deg, TVD 2253.83m. Reduced flow rate to 2.65 m3/min (700 gpm) due to reduced return flow from 74% - 70%. PWD indicated ECD at 1.55 SG EMW.
19:30	4.50	D09	PCD	P	TD confirmed by onshore team. Circulated 2x bottoms up. Built new pre-mix and began bleeding into active pit system to reduce rheology for 7" liner running. Functioned upper and lower pipe rams and annular preventer. Continued circulating and conditioning mud. 6 RPM reading reduced to 10. Shakers clean

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	35.00	11.970	10.00	

CASING

Last Casing: 244.00 mm @ 2,743.00 m	Next Casing: 178.00 mm @ 4,250.00 m	Last BOP: 11/08/2006 12:00:00AM

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 25 **Report Date: 26/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	2.00
DSLTI		Stop/Start Cards	12.00	208.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	5	GEOSERVICES	6
OMS	38	MAERSK	18
WEATHERFORD	6	HALCO	3
WOODSIDE	6	BHDF	7
		Total POB :	98

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
HELI FUEL	ltrs	365.00	7,550.00	CEMENT	MT		117.00
WATER, DRILLING	MT	4.00	501.00	WATER, POTABLE	MT	28.00	397.00
DIESEL	m3	13.00	184.00	BARITE BULK	MT	17.00	139.00
CEMENT HTB	MT		46.00	BRINE	m3		1,315.00
GEL, FRESH	MT		49.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	2.06	0.700	1.300				11.20

REMARKS

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 25			Report Date: 26/08/2006
Block: T/L2	**Rig: Maersk Guardian**	**Water Depth(m): 99.30**	**Start Date: 17/03/2006**

No accidents or incidents for last 24 hours.

Surveys have been corrected using Cazandra azimuthal calibration.

FRC launch exercise conducted. All appropriate planning and pre-job checks conducted. Misunderstanding of PTW requirements resulted in FRC being launched without correct PTW documentation in place. PTW refresher to be held for all personnel on rig to reinforce PTW requirements. Otherwise, launch and recovery conducted satisfactorily.

Bit #4RR: Security DBS FMF 3653Z s/n 10860872, Nozzles 3 x 16, 3 x 15. TFA = 1.107"
Daily bit data: 290m, 18.5 IADC hrs, 13 hrs on bottom, 22.2 hrs circulating, 133 Krevs, 22.3 m/hr avg on bottom ROP. 15.7m/hr IADC ROP.
Total for this run: 793m, 50 IADC hrs, 33.5 hrs on bottom, 56.8 hrs circulating, 335 Krevs, 23.7 m/hr avg on bottom ROP. 15.86m/hr IADC ROP.
Cumulative for the bit: 1236m, 78.5 IADC hrs, 53 hrs on bottom, 98.2 hrs circulating, 541 Krevs, 23.32 m/hr avg on bottom ROP. 15.74m/hr IADC ROP.

BHA #5: 216mm (8-1/2") Bit #4 RR, Geopilot; NM flex jt; RLL W/DGR + EWR, ALT + CTN, PWD, HOC w/P4M Pulser; ACAL; Float sub w/ported float; NMDC; NM Flex Joint; x/o (OTWY-11); 6 x 139mm (5-1/2") HWDP; Jars (12885E); 2 x 139mm (5-1/2") HWDP.
Total BHA length 140.54m.

Crossover rotating hours : WEL OTWY-11: 84.8 hrs.
Jars rotating hrs (s/n 12285E) : 84.8 hrs.

Metal Recovery from Ditch Magnet:

00:00 - 12:00 hrs	170 gms
12:00 - 24:00 hrs	270 gms
Cumulative:	3292 gms

Weather Forecast: Max HS currently 1.3m, slowly building to 4m by Wednesday 30/08/06. Winds currently 3kn, gusting to 4kn. Winds forecast to increase to 10-15 through to Wednesday 30/08/06, gusting to 28kn on Sunday 27/08/06.

THA02 'A' annulus:	16:00hrs	: 9300kpa
27/08/06	04:00hrs	: 9800kpa

Held emergency fire and abandon rig drills with all personnel at 10:30 hrs.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 26 **Report Date: 27/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	25.50	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	25.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,253.80	Rig OIM:	George Clark
Progress Days:	27.25	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 17,508,401.00 ($)

Ops 00:00 to 06:00 : Continued racking BHA. Removed RA sources from FEWD tool and racked back. Broke off bit. Laid down Geopilot tool. M/U cement head stand and racked back. R/U to run 179mm (7") liner. Ran and bakerlocked shoetrack (tested floats). RIH 179mm (7") liner.

Ops Summary : Conditioned mud to reduce rheology. Backreamed out of hole from 3987m to 3208m. Backreamed and logged from 3228m to 3000m. Cont backreaming to 244mm (9-5/8") casing shoe. Circulated bottoms up. POOH. Racked BHA.

Ops Look Ahead : Continue RIH with 179mm (7") liner. Make up Liner hanger. RIH on 139mm (5-1/2") drillpipe. Wash to bottom as required. Circulate bottoms up. Drop ball and set liner hanger. Release running tool. Cement liner. Set liner top packer.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	1.00	D09	PCD	P	Continued circulating and treating active mud system to reduce rheology. 6 RPM value reduced to 10 as per program. Took final survey, and recorded parameters for running liner. Held toolbox talk for backreaming and flowchecked well for 15 minutes - static.
1:00	5.50	D09	REM	P	Backreamed out of hole from 3987m to 3208m with 2.64 m3/min (700 gpm), 22.1 MPa (3200 psi), 120 RPM, 1765 kdNm (13 kft/lbs) torque. At 3616m, drag increased by 5.44T (12 klbs) and torque increased to 2169 (16 kft/lbs). Reamed stand back down once until drag and torque normalised. At 3322m, pick up weight increased to 150 T (330 klbs). Reamed and wiped stand again and pick up weight reduced to 136T (300 klbs).
6:30	4.50	D09	REM	D	Backreamed out of hole while re-logging interval from 3228m to 3000m at 50 m/hr, to obtain density log data, previously lost due to tool failure. Parameters: 2.64 m3/min (700 gpm), 21.4 (3100psi), 120 rpm, 1629 kdNm (12 kft/lbs) torque.
11:00	3.00	D09	REM	P	Continued to backream out of hole from 2982m to 2739m, with 2.64 m3/min (700 gpm), 20.7 (3000psi), 120 rpm, 1356 - 1629kdNm (11-12 kft/lbs) torque.
14:00	0.50	D09	REM	P	Pulled into 244mm (9-5/8") shoe, pick up weight increased by 18.1T (40 klbs), torque increased by 542 kdNm (4 kft/lbs), and pressure increased by 2.76 MPa (400 psi). Worked and reamed across shoe from 2770m to 2715m until parameters returned to previous values.
14:30	1.50	D09	PCD	P	Circulated bottoms up and recorded torque and drag readings to calibrate model for running 179mm (7") liner.
16:00	0.50	D09	PCD	P	Flowchecked well 15 minutes - static. Pumped slug. Dropped hollow rabbit.
16:30	6.50	D09	DRT	P	POOH on elevators from 2742m to 131m. Flowchecked before pulling BHA for 15 minutes - well static.
23:00	1.00	D09	DRT	P	Racked back 139mm (5-1/2") HWDP and BHA.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	37.00	11.970	10.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 26 **Report Date: 27/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	2.00
DSLTI		Stop/Start Cards	5.00	213.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	5	GEOSERVICES	6
OMS	38	MAERSK	18
WEATHERFORD	6	HALCO	3
WOODSIDE	6	BHDF	7
		Total POB :	98

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
DIESEL	m3	12.00	172.00	GEL, FRESH	MT		49.00
CEMENT	MT		117.00	HELI FUEL	ltrs		7,530.00
BRINE	m3		1,315.00	WATER, POTABLE	MT		408.00
BARITE BULK	MT	14.00	125.00	CEMENT HTB	MT		46.00
WATER, DRILLING	MT	29.00	472.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	11.30	1.800	2.100				11.80

REMARKS

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 26			Report Date: 27/08/2006
Block: T/L2	**Rig: Maersk Guardian**	**Water Depth(m): 99.30**	**Start Date: 17/03/2006**

No accidents or incidents for last 24 hours.
Held bi-weekly safety meetings with all crews.
Commenced Permit to Work refresher training.

CAR Summary:
97% closed out.
CAR items 165, 182, 199, 189 and 191 closed out last week.
7 CAR items are open and pending.

Completed and signed-off Liner Hanger and Liner running checklists.

Bit #4RR: Security DBS FMF 3653Z s/n 10860872, Nozzles 3 x 16, 3 x 15. TFA = 1.107"
Total for this run: 793m, 50 IADC hrs, 33.5 hrs on bottom, 56.8 hrs circulating, 335 Krevs, 23.7 m/hr avg on bottom ROP. 15.86m/hr IADC ROP.
Cumulative for the bit: 1236m, 78.5 IADC hrs, 53 hrs on bottom, 98.2 hrs circulating, 541 Krevs, 23.32 m/hr avg on bottom ROP. 15.74m/hr IADC ROP.
Bit Graded: 0-0-NO-A-X-I-ER-TD

BHA #5: 216mm (8-1/2") Bit #4 RR, Geopilot; NM flex jt; RLL W/DGR + EWR, ALT + CTN, PWD, HOC w/P4M Pulser; ACAL; Float sub w/ported float; NMDC; NM Flex Joint; x/o (OTWY-11); 6 x 139mm (5-1/2") HWDP; Jars (12885E); 2 x 139mm (5-1/2") HWDP.
Total BHA length 140.54m.

Crossover rotating hours : WEL OTWY-11: 95.5 hrs.
Jars rotating hrs (s/n 12285E) : 95.5 hrs.

Metal Recovery from Ditch Magnet:

00:00 - 12:00 hrs	260 gms
12:00 - 24:00 hrs	180 gms
Cumulative:	3732 gms

Weather Forecast: Max HS currently 2.5m, slowly building to 4m by Wednesday 30/08/06. Winds currently 17kn, gusting to 22kn. Winds forecast to moderate to 10-15kn through to Wednesday 31/08/06.

THA02 'A' annulus: 16:00hrs : 10000kpa
23:00hrs : 10300kpa
Note: Unable to bleed-off THA02 anulus pressure due to current wind direction.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 27 **Report Date: 28/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	26.50	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	26.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,253.80	Rig OIM:	George Clark
Progress Days:	39.90	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 18,281,337.00 ($)

Ops 00:00 to 06:00 : Cont RIH liner. Liner stood-up at 3503m. Slacked off 11.3T (25 klbs). M/U TDS. Circ and attempted to pass restriction - no progress. Rotated at 20 RPM - passed through restriction. Cont RIH. M/U cement head stand. RIH and tagged TD. Circulated bottoms up.

Ops Summary : M/U cement head and racked back. Rigged up and ran 179mm (7") liner. M/U liner hanger and circulated liner volume. RIH 179mm (7") liner on drillpipe. Broke circulation at 244mm (9-5/8") casing shoe. Cont RIH liner to 2955m.

Ops Look Ahead : Release setting ball and set liner hanger. Release running tool. Cement liner. Set liner top packer. Reverse circulate excess cement from above liner top. POOH and lay down liner running tools.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	1.50	D09	DRT	P	Removed personnel from rig floor and cordoned-off Thylacine platform. Removed radioactive sources from FEWD tools. Continued POOH with BHA. Broke off bit and laid down Geopilot tool.
1:30	0.50	C09	RUD	P	Made up Weatherford cement head to a double of drillpipe, TIW valve and pup joints and racked back in derrick.
2:00	1.50	C09	RUD	P	Cleared rig floor and rigged up Weatherford 179mm (7") casing handling equipment. Held toolbox talk for running casing.
3:30	12.25	C09	CLR	P	Picked up shoe joint and checked floats. Picked up and bakerlocked intermediate and float collar joint and checked floats. Made up and bakerlocked Weatherford landing collar. Continued to pick up and RIH with 179mm (7") casing joints, filling each joint. Ran a total of 102 joints liner. Total liner length from shoe to top PBR = 2653.19m.
15:45	1.25	C09	CLR	P	Cleared rigflloor. Changed elevators. Picked up and made up Weatherford liner hanger assembly. Installed liner wiper plug and adapter. Filled PBR with mud and secured floating junk bonnet. Picked up 1 stand 139mm (5-1/2") drillpipe and made up TDS. Installed PS21 slips.
17:00	1.00	C09	PCD	P	Recorded SCR's. Circulated liner volume.
18:00	5.00	C09	CLR	P	RIH 179mm (7") liner on 139mm (5-1/2") drillpipe stands from 1322m to 2724m.
23:00	0.50	C09	PCD	P	M/U TDS. Broke circulation at 244mm (9-5/8") casing shoe. Staged pumps up to 80 SPM, 1.29 m3/min (342 gpm), 5.52 MPa (800 psi) for 15 minutes. P/U and S/O weights with circulation, 121T / 92T (267 klbs / 205 klbs). Rotating weight 105T (232 klbs). Rotated at 20 RPM, 813 - 1220 kdNm (6 - 9 kft/lbs). P/U and S/O weights without pumps, 131T / 102T (290 klbs / 225 klbs).
23:30	0.50	C09	CLR	P	Continued RIH with 179mm (7") liner on 139mm (5-1/2") drillpipe from 2724m to 2955m, top filling every 5 stands.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	37.00	12.928	10.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 27 **Report Date: 28/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	2.00
DSLTI		Stop/Start Cards	2.00	215.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	5	_Others	5
GEOSERVICES	4	OMS	37
MAERSK	17	WEATHERFORD	6
HALCO	3	WOODSIDE	5
BHDF	6	TECHNIP	9
		Total POB :	97

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
CEMENT HTB	MT		46.00	WATER, DRILLING	MT		429.00
CEMENT	MT		117.00	GEL, FRESH	MT		49.00
WATER, POTABLE	MT	27.00	425.00	BARITE BULK	MT		125.00
BRINE	m3		1,315.00	DIESEL	m3		161.00
HELI FUEL	ltrs	250.00	7,280.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	9.26	1.600	2.400				12.80

REMARKS

No accidents or incidents for last 24 hours.
Continued Permit to Work refresher training.

Weather Forecast: Max HS currently 3.0m, slowly building to 4m by Wednesday 30/08/06, and remaining above 3m through to Friday 01/09/06. Hs will then strengthen to a max of 6.3m on Sat 02/09/06. Winds currently 12kn, gusting to 18kn. Winds forecast to moderate to 10-15kn through to Thursday 31/08/06, then increase in strength to 25kn, gusting 39kn on Friday 01/09/06.

THA02 'A' annulus: 07:45hrs 29/08/06 11000kpa

Note: Unable to bleed-off THA02 annulus pressure due to current wind direction.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 28 **Report Date: 29/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	27.50	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	27.17	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	41.21	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 18,645,449.00 ($)

Ops 00:00 to 06:00 : Continued POOH. Laid down liner running tools. Picked up cement head stand. Broke down and laid out cement head. Laid down 216mm (8-1/2") BHA.

Ops Summary : RIH 179mm (7") liner. M/U cmt head. Tagged TD at 3987m. Picked up 2m. Circ and cond hole. Dropped ball and set hanger. Released R/Tl. Cemented liner. Set liner top packer. Rev circ excess cement. Press tested well to 20.7 MPa (3000psi) / 10 mins. POOH.

Ops Look Ahead : Pull wear bushing. RIH test plug and test BOP's. Run wear bushing. M/U and RIH with cleanout assembly.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	2.00	C09	CLR	P	Continued to RIH with 179mm (7") liner on 139mm (5-1/2") drillpipe from 2955m to 3503m, top filling every stand.
2:00	0.50	C09	CLR	P	At 3503m, experienced excess drag of 9.1T (20 klbs). Picked up string, and slowly ran back down. Drag increased by 9.1T (20 klbs) at same position. Made up TDS. Established circulation with 0.48 m3/min (128 gpm), 4.48 MPa (650psi). Slacked off with pumps, excess drag of 9.1T (20 klbs) at same position. Picked up string to neutral weight 105T (232 klbs), and rotated string at 20 RPM. Took 2440kdNm (18 kft/lbs) torque to establish rotation. RIH and passed obstruction with no drag.
2:30	1.50	C09	CLR	P	Continued to RIH with 179mm (7") liner on 139mm (5-1/2") drillpipe to 3968m, top filling every stand.
4:00	0.50	C09	PCD	P	Picked up cement head stand. Made up TDS. Could not move freely up or down with 18.2T (40 klbs) overpull or slack-off. Broke circulation and rotary with 2440 kdNm (18 kft/lbs) torque. Washed down and tagged bottom at 3987m. P/U weight 143T (315klbs), S/O weight 84T (185 klbs). Rotating weight 107T (235 klbs) with 1762 kdNm (13 kft/lbs) torque at 20 RPM. Circulated at 20 spm, 2.76 MPa (400psi). Picked up 2m to setting depth, with TOL at 2653m.
4:30	2.00	C09	PCD	P	Circulated and conditioned mud. Staged pumps up to 1.14m3/min (300 gpm), 6.89MPa (1000psi). Rotated liner at 20 rpm, 1629 - 2034kdNm (12-15 kft/lbs) torque. Bottoms up trip gas 1.2%.
6:30	1.00	C09	CLR	P	Stopped pumps and rotation. Released 44.5mm (1.75") liner setting ball, and chased to seat with mud. When ball landed, increased pressure to 14.5 MPa (2100 psi). Picked up to 149.7T (330 klbs), and slacked off to 77.1 (170 klbs) to confirm hold-down and hanger set. Rotated running string 11 turns to the right to release the type 'R' running tool. Picked up 1m to confirm running tool released. New free P/U weight 127T (280 klbs). Slacked back down 18.1T (40 klbs) on running tool.
7:30	1.00	C09	PCD	P	Circulated liner volume prior to cement job.
8:30	0.50	C09	RUD	P	Stopped pumps and rotary, and rigged up cement hose and swivel back-up line. Required 3796 kdNm (28 kft/lbs) to establish rotation after rig-up. Torque limit set to 3521 kdNm (26 kft/lbs) previously observed not to be holding a constant setting.
9:00	1.00	C09	PCD	P	Staged up pumps to cementing rates at 1.11 m3/min (7 bpm), no losses observed. Held toolbox talk for cementing liner.
10:00	0.50	C09	PCD	P	Pumped 6.5 m3 (60 bbls) tuned spacer at 1.44SG at 1.27 m3/min (336 gpm) with rig pumps. Chased spacer with 1.6 m3 (10 bbls) SBM to displace surface lines.
10:30	1.00	C09	NGI	D	Stopped rotary to line up to cement unit. Attempted to re-set TDS torque limiter. Unable to set torque limit - unable to rotate. Investigated problem, still unable to rotate.
11:30	2.00	C09	PCD	P	Closed IBOP. Pumped 0.47 m3 (3 bbls) drillwater. Mixed and pumped 21.2 m3 (133 bbls) cement slurry at 1.87 SG. Pumped 0.31 m3 (2 bbls) drillwater. Released drillpipe wiper dart from cement head. Pumped 0.47 m3 (3 bbls) drillwater behind dart, and observed flag sub for indication of dart release. Displaced dart to liner wiper plug with 28.9 m3 (182 bbls) mud, pumped liner wiper plug to bump with 25.2 m3 (158.5 bbls) SBM. Final circulating pressure 6.4 MPa (930psi) at 0.48 m3 (3 bpm) at plug bump. Increased pressure to 10.3 MPa (1500psi) to test liner. Pressure increased to 11.1 MPa (1600psi) in 5 minutes - test OK.
13:30	0.50	C09	CLR	P	Picked up drillpipe 4m to expose TSP actuator sub. Rotated string and slacked off 27.2T (60 klbs) and observed shear at 15.8T (35 klbs) down (Note: no second shear observed). Attempted to gain second shear by slacking off a total of 40.8T (90 klbs).

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 28 **Report Date: 29/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

14:00	2.50	C09	PCD	P	Opened IBOP and applied 1.4 MPa (200psi) to drillpipe. Picked up string until stuffing box disengaged - lost pressure. Circulated at 150 spm until running tool was clear of PBR. Reverse circulated excess cement from liner top. Flowchecked 10 minutes - OK.
16:30	1.50	C09	PRE	P	Spaced out and closed upper pipe rams. Pressure tested 179mm liner, liner top packer, and 244mm (9-5/8") casing to 20.68 MPa (3000psi) for 10 minutes - OK.
18:00	0.50	C09	PCD	P	Flowchecked 15 minutes - OK. Pumped and chased slug.
18:30	1.00	C09	RUD	P	Rigged down cement hose and Lo-Torq valve. Racked back cement head stand in derrick.
19:30	4.50	C09	TRP	P	POOH from 2638m to 434m. Strapped drillpipe every 10 stands pulled.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1250	37.00	12.928	10.00	

CASING

Last Casing:	Next Casing:	Last BOP: 11/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	2.00
DSLTI		Stop/Start Cards	5.00	220.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	3	_Others	11
GEOSERVICES	4	OMS	38
MAERSK	14	WEATHERFORD	1
HALCO	5	WOODSIDE	7
BHDF	6	TECHNIP	9
		Total POB :	98

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 28 **Report Date: 29/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
BARITE BULK	MT	4.00	121.00	WATER, DRILLING	MT	96.00	333.00
WATER, POTABLE	MT	33.00	441.00	CEMENT	MT		117.00
BRINE	m3		1,315.00	CEMENT HTB	MT		17.00
GEL, FRESH	MT		49.00	HELI FUEL	ltrs		6,560.00
DIESEL	m3	11.00	150.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	3.60	1.500	3.500				13.70

REMARKS

No accidents or incidents for last 24 hours.
BJ continued Nitrogen testing Thylacine process pipework.
PCS commenced SBM pot cleaning program. Note: audited PCS permit to work. All correct PPE used, and all permit requirement met.

Weather Forecast: Max HS currently 3.5m, remaining steady at 3 - 3.5m until Sunday 03/09/06. Winds currently 7kn, gusting to 8kn. Winds forecast to increase in strength to 25-30kn, gusting 45kn on Friday 01/09/06.

THA02 'A' annulus: 11100kpa at 15:00hrs

Note: Unable to bleed-off THA02 anulus pressure due to Nitrogen testing on Thylacine Platform.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 29 **Report Date: 30/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	28.50	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	28.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	41.50	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 19,098,550.00 ($)

Ops 00:00 to 06:00 : RIH with clean out assembly to 2648m. Established circulation and rotation. Reciprocated 15m from 5m above liner top 4 times.

Ops Summary : POOH with liner running tools. Pulled wear bushing. RIH test plug and pressure tested BOP's. Pulled test plug. Ran wear bushing. RIH with cleanout assembly.

Ops Look Ahead : RIH to 3942m. Circulate hole clean. Pump clean up pill train. Displace hole to seawater. Circulate until clean returns. Pump brine / Perflow pill. POOH clean out assembly.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	1.50	C09	TRP	P	Pulled out of hole from 434m to surface. Laid out liner running tools. Tools in good condition. Strapped drillpipe every 10 stands.
1:30	1.50	C09	TRP	P	Broke down cement head stand and laid out cement head.
3:00	3.50	C09	TRP	P	Broke down and laid out remaining 216mm (8 1/2") BHA.
6:30	1.00	C09	TRP	P	Ran in hole and retrieved wear bushing. 2 attempts required to engage the pulling tool, experienced difficulty releasing pulling tool at surface due to hard plastic / metal junk trapped between pulling tool and wear bushing ID.
7:30	7.00	C09	BPT	P	Made up and ran in hole with BOP test tool. Pressure tested BOP pipe rams 1.7MPa (250psi) 5mins and 27.6MPa (4000psi) 10mins and the Annular 1.7MPa (250psi) 5mins and 24.1MPa (3500psi) 10mins. Concurrently: Slipped and cut drill line. Inspected / serviced TDS, calibrated torque pick up system.
14:30	0.50	C09	TRP	P	Pulled BOP test plug. Pulled 13.6T (30klbs) overpull to release BOP test plug, would not come free. Rotated tool 1/4 turn to release. Lost 0.1 barrel (16ltrs) SBM from 'A' annulus outlet onto surrounding sheet work in sub cellar deck prior to closing 'A' annulus outlet valve.
15:00	1.00	C09	TRP	P	Installed upper stage wear bushing 28.3m.
16:00	2.00	C09	BPT	P	Made up TDS test assembly. Pressure tested Upper IBOP, Lower IBOP, and Kelly hose 1.7MPa (250psi) 5mins and 27.6MPa (4000psi) 10mins. Laid out TDS test assembly.
18:00	1.50	IC	TRP	P	Picked up and made up 244mm (9 5/8") scraper / MFCT assembly. Laid assembly back out.
19:30	1.50	IC	TRP	P	Changed out handling equipment, Iron Roughneck and PRS dies to 102mm (4"). Made up 152mm (6") bit and 178mm (7") scraper assembly.
21:00	3.00	IC	TRP	P	Ran in hole with 178mm (7") scraper assembly on 102mm (4") drillpipe to 739m breaking circulation every 20 stands.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
SBM (SYN-TEQ)	1120	37.00	12.928		

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 29 **Report Date: 30/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	2.00
DSLTI		Stop/Start Cards	5.00	225.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
SPERRY SUN	3	_Others	11
GEOSERVICES	3	OMS	38
MAERSK	14	WEATHERFORD	1
HALCO	5	WOODSIDE	6
BHDF	6	TECHNIP	10
		Total POB :	98

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
HELI FUEL	ltrs	20.00	6,540.00	GEL, FRESH	MT	0.00	49.00
BARITE BULK	MT	8.00	113.00	DIESEL	m3	6.00	144.00
CEMENT	MT	0.00	117.00	WATER, DRILLING	MT	27.00	306.00
BRINE	m3	400.00	915.00	WATER, POTABLE	MT	22.00	419.00
CEMENT HTB	MT	0.00	17.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	7.00	1.200	3.100				13.60

REMARKS

1 x Incident recorded over last 24 hours: 16ltrs SBM lost overboard - Preliminary classification E2 (E).
BJ continued Nitrogen testing Thylacine platform process pipework. Bled off N2. TOPL tightening leaking flanges.
Pit cleaning on going.
TCP gun loading ongoing.
Rigged down MWD shacks. Commenced rigging down centrifuges.

Clean out BHA: 6" Bit, Bit Sub, 7" Scraper, X-Over 3 1/2" IF x WT38 (OTWY 55), 45 stands 4" drillpipe, 2 x 4" pup joints, X-0ver WT38 x 4 1/2" IF (OTWY 36), 9 5/8" Rotating Bearing Sub, MFCT, 9 5/8" Scraper, X-Over 4 1/2" IF x DSTJ - Total BHA length 1294.79m

Weather Forecast: Max HS remaining steady at 3 - 3.5m until Sunday 03/09/06 when it is predicted to increase to 5.75m. Winds currently gusting to 25kn and forecast to increase to 45kn on Friday 01/09/06 pm.

THA02 'A' annulus: 1800hrs bled pressure down to 600kpa from 12000kpa.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 30 **Report Date: 31/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	29.50	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	29.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	42.60	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 19,755,131.00 ($)

Ops 00:00 to 06:00 : Circulated sea water until clean returns. Pumped brine / Perflow pill. POOH clean out assembly.

Ops Summary : RIH to 3944m with scraper BHA. Circulated hole clean. Pumped clean up pill train. Displaced hole to seawater. Inflow tested liner / casing. Circulated sea water.

Ops Look Ahead : POOH clean out assembly. Pressure test liner / casing. RIH TCP guns.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	1.50	IC	TRP	P	Ran in hole with 178mm (7") scraper assembly on 102mm (4") drillpipe from 739m to 1286m breaking circulation every 20 stands.
1:30	1.00	IC	TRP	P	Changed handling equipment, Iron Roughneck and PRS dies to 140mm (5 1/2"). Made up 244mm (9 5/8") scraper / MFCT assembly.
2:30	0.50	IC	PCD	P	Made up stand 140mm (5 1/2") drillpipe. Established circulation at 1.7m3/min (450gpm) 12.7MPa (1840psi). Picked up and confirmed MFCT not leaking.
3:00	2.50	IC	TRP	P	Ran in hole with clean out BHA on 140mm (5 1/2") drillpipe to 2625m.
5:30	0.50	IC	PCD	P	Made up TDS. Established circulation 1.9m3/min (500gpm) 18.6MPa and rotation 50RPM, 950daN.m (6 kflbs). Reciprocated 152mm (6") bit and 178mm (7") scraper from 2648m to 2633m 4 times. RIH through 178mm (7") liner top with no rotation - no indication of liner top seen.
6:00	1.00	IC	TRP	P	Ran in hole to 2808m. Tagged cement stringer with 13.6T (30klbs).
7:00	2.00	IC	TRP	U	Made up TDS and established circulation. Washed down from 2808m to 2890m with 1.1 m3/min (300gpm) 7.9MPa (1150psi) and 20RPM, 678daN.m (5kftlbs).
9:00	3.50	IC	TRP	P	Ran in hole on elevators from 2890m to 3875m. MFCT opened prematurely at 3375m 87.7T (193klbs) down, 122.7T (270klbs) up.
12:30	1.00	IC	TRP	P	Reciprocated 244mm (9 5/8") scraper from 2587m to 2634m - production packer setting area. 138.6T (305klbs) up, 90.9T (200klbs) Ran in hole and tagged 178mm (7") liner top PBR 2654.8m with bearing sub. Bit at 3944m. Pulled back 5m.
13:30	1.50	IC	PCD	P	Made up TDS. Established circulation 1.9m3/min (500gpm) 24.8MPa (3600psi) and rotation 30RPM 1356 daNm (10kftlbs). Circulated 1.5x bottoms up - shakers clean. Cement returns seen at surface prior to bottoms up.
15:00	0.50	IC	PCD	P	Shutdown pumps cycled BOP pipe rams and annular. Set down 6.8T (15klbs) on liner top PBR to open MFCT.
15:30	3.00	IC	PCD	P	Circulated hole clean with 3m3/min (800gpm) 16.7MPa (2420psi) and rotation 30RPM 930daNm (7kftlbs). Shutdown rotation during circulation due to slight increase in torque. Cement returns continued over bottom screens, extended circulation period to remove cement from mud.
18:30	0.50	IC	SAF	P	Held Tool Box Talk in preparation for pumping clean up pills and displacing well to sea water.
19:00	3.00	IC	PCD	P	Picked up to close MFCT 132T (291klbs) up. 6.8T (15klbs) reduction in up weight. Established rotation at 30RPM, 1.2daNm (9kftlbs). Pumped clean up pills at 1.7m3/min (450gpm): - 20m3 (120bbls) base oil through surface lines and down the drill string. - 28m3 (175bbls) Hi-Vis / un-weighted seawater / detergent pill down drill string. - 39.7m3 (250bbls) un-weighted seawater / detergent pill through surface lines and down the drill string. - Seawater through surface lines and down the drill string. Shut down rotation when Hi-Vis pill at surface due to torque building up to 1898 daNm (14kftlbs)
22:00	1.00	IC	SAF	P	Filled trip tank, flowchecked well 30mins - well static.
23:00	1.00	IC	PCD	P	Circulated seawater with MFCT closed 3m3/min (800gpm) 25.9MPa (3760psi).

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 30 **Report Date: 31/08/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
Brine	1120				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	2.00
DSLTI		Stop/Start Cards	5.00	230.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	11	GEOSERVICES	2
OMS	38	MAERSK	15
HALCO	7	WOODSIDE	6
BHDF	6	TECHNIP	8
		Total POB :	94

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
BARITE BULK	MT	0.00	113.00	BRINE	m3	0.00	1,285.00
WATER, POTABLE	MT	12.00	407.00	DIESEL	m3	8.00	136.00
WATER, DRILLING	MT	4.00	402.00	GEL, FRESH	MT	0.00	49.00
HELI FUEL	ltrs	740.00	5,800.00	CEMENT HTB	MT	0.00	17.00
CEMENT	MT	0.00	117.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	15.00	1.200	2.800				15.00

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 30			**Report Date: 31/08/2006**
Block: T/L2	**Rig: Maersk Guardian**	**Water Depth(m): 99.30**	**Start Date: 17/03/2006**

REMARKS

No accidents or incidents over past 24hrs.
BJ completed Nitrogen testing Thylacine platform process pipework.
TOPL commencing removal of RESDV in preparation for de-watering main gas export line to onshore plant.
TCP gun loading ongoing, spacer guns required cleaning out.
Continued rigging down centrifuges.

Clean out BHA: 6" Bit, Bit Sub, 7" Scraper, X-over 3 1/2" IF x WT38 (OTWY 55), 45 stands 4" drillpipe, 2 x 4" pup joints, X-over WT38 x 4 1/2" IF (OTWY 36), 9 5/8" Rotating Bearing Sub, MFCT, 9 5/8" Scraper, X-over 4 1/2" IF x DSTJ - Total BHA length 1294.79m

Weather Forecast: Max HS 3 - 2.5m until Sunday 03/09/06 when it is predicted to increase to 5.25m. Winds currently gusting to 40kn and forecast to decrease to 20kn on Saturday 02/09/06 prior to increasing to 35kn on Sunday 03/09/06.

THA02 'A' annulus: 2315hrs - 4250kPa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 31 **Report Date: 1/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	30.50	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	30.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	43.97	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 20,204,445.00 ($)

Ops 00:00 to 06:00 : RIH TCP guns.

Ops Summary : POOH clean out assembly. Pressure tested liner / casing. RIH TCP guns.

Ops Look Ahead : RIH TCP guns. Perforate well. POOH TCP guns.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.50	IC	PCD	P	Circulated seawater until clean returns with MFCT closed 3m3/min (800gpm) 25.9MPa (3760psi). Final NTU reading 102.
0:30	2.00	IC	PCD	P	Set down 6.8T (15klbs) on liner top PBR to open MFCT. Cycled BOP pipe rams and annular. Circulated seawater 3.4m3/min (900gpm) 14.5MPa (2100psi). Final NTU readings 59 and 53. Concurrently prepared additional 2 pit volumes of 1.12 sg Brine.
2:30	0.25	IC	SAF	P	Held Tool Box Talk in preparation for displacing well to Brine and spotting Perflow pill.
2:45	1.00	IC	PCD	P	Picked up to close MFTC. 168T (370klbs) up. Pumped: 83.6m3 (526bbls) 1.12sg NaCL Brine. 25.4m3 (160bbls) 1.12sg Perfflow pill. 178mm (7") liner volume. 27.8m3 (175bbls) 1.12sg NaCL Brine. NTU readings increased to 129 with brine returns at surface.
3:45	6.75	IC	TRP	P	Pulled out of hole with clean out BHA from 3941m to 1291m. Initial pick up and slack off weights: 168T (370klbs) up, 82.7T (182klbs) down.
10:30	1.50	IC	TRP	P	Laid out 244mm (9 5/8") scraper / MFCT assembly, tools in good condition. Changed out handling equipment, Iron Roughneck and PRS dies for 102mm (4") drillpipe.
12:00	3.50	IC	TRP	P	Pulled 102mm (4") drillpipe out of hole. Laid out the 178mm (7") scraper and 152mm (6") bit, scraper and bit in good condition.
15:30	2.00	IC	PRE	P	Closed BOP shear rams. Pressure tested well to 27.6MPa (4000psi), 1 hr - Good test. Acceptance criteria #14 met (7" Liner-top packer and 9 5/8" production casing integrity)
17:30	1.00	IC	TRP	P	Prepared for TCP gun installation. Made up: - WT38 x 89mm (3 1/2") IF crossover and perforated pup joint to stand drillpipe and racked back. - Emergency gun blank ported crossover assembly Concurrently continued laying out TCP guns on cantilever deck.
18:30	4.00	IC	PSI	U	Laid out guns on cantilever deck in running order.
22:30	0.25	IC	SAF	P	Held Tool Box Talk in preparation for running TCP guns.
22:45	1.25	IC	TRP	P	Picked up and ran 85.7mm (3 3/8") TCP gun string to 60m.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Open Hole	

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 31 **Report Date: 1/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
Brine	1120				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	2.00
DSLTI		Stop/Start Cards	4.00	234.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	8	GEOSERVICES	2
OMS	37	MAERSK	15
WEATHERFORD	1	HALCO	7
WOODSIDE	6	BHDF	6
SCHLUMBERGER	2	TECHNIP	7
		Total POB :	92

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
CEMENT	MT	0.00	117.00	CEMENT HTB	MT	0.00	17.00
WATER, DRILLING	MT	110.00	292.00	DIESEL	m3	10.00	126.00
GEL, FRESH	MT	0.00	49.00	BRINE	m3	908.00	377.00
BARITE BULK	MT	0.00	113.00	WATER, POTABLE	MT	38.00	369.00
HELI FUEL	ltrs	550.00	5,250.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	10.50	1.600	2.000				13.00

REMARKS

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 31			**Report Date: 1/09/2006**
Block: T/L2	**Rig: Maersk Guardian**	**Water Depth(m): 99.30**	**Start Date: 17/03/2006**

No accidents or incidents over past 24hrs.

TOPL removed RESDV in preparation for de-watering main gas export line to onshore plant.

Weather Forecast: Max HS 2.5m until Sunday 03/09/06 when it is predicted to increase to 4.75m. Winds currently gusting 10 - 20kn, forecast to increase to 37kn on Sunday 03/09/06.

THA02 'A' annulus: 1130hrs - 5200kPa; 2100hrs - 6000kPa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 32 **Report Date: 2/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	31.50	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	31.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.00	Rig OIM:	George Clark
Progress Days:	45.35	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 20,553,408.00 ($)

Ops 00:00 to 06:00 : Flow checked well. Pumped 1.15sg brine pill. POOH TCP guns to 1257m.

Ops Summary : RIH TCP guns. Perforated well. Flow checked well. POOH TCP guns.

Ops Look Ahead : POOH TCP guns. RIH Perflow displacement string. Displace liner to 1.02sg brine and casing to 1.12sg completion brine.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.25	IC	SAF	P	Held Tool Box Talk with oncoming drill crew.
0:15	9.50	IC	TRP	P	Picked up and ran in hole with 85.7mm (3 3/8") loaded and spacer TCP guns and 89mm (3 1/2") drillpipe spacer.
9:45	0.75	IC	TRP	D	Replaced TCP gun 'C' lifting clamp retainer pin in mechanical workshop due to pin shearing. No spare "C" clamps or pins onboard.
10:30	0.50	IC	TRP	P	Picked up and ran in hole with 85.7mm (3 3/8") loaded and spacer TCP guns.
11:00	0.25	IC	TRP	D	Replaced 2nd TCP gun 'C' lifting clamp retainer pin due to pin shearing.
11:15	0.75	IC	TRP	P	Picked up and ran in hole with 85.7mm (3 3/8") loaded and spacer TCP guns.
12:00	0.50	IC	TRP	P	Changed handling equipment for 102mm (4") drillpipe. Made up 73mm (2-7/8") EUE x 89mm (3-1/2") IF crossover, perforated pup joint, 89mm (3-1/2") IF x WT38 crossover and racked back stand 102mm (4") WT38 drillpipe.
12:30	0.50	IC	TRP	P	Ran in hole with 102mm (4") drillpipe from 1144m to 1257m.
13:00	0.50	IC	TRP	P	Changed handling equipment to 140mm (5 1/2"). Made up 102mm (4") WT38 x 114mm (4 1/2") IF and 114mm (4 1/2") IF x 140mm (5 1/2") DSTJ crossover assembly.
13:30	7.25	IC	TRP	P	Ran in hole with 140mm (5 1/2") drillpipe from 1257m to 3892m. No weight loss seen when passing through liner top PBR. Made up TDS. Pulled guns back on to depth 3883m (Bull Nose). Top shot at 2743.17m. 138.6T (305klbs) up, 99T (218klbs) down.
20:45	0.25	IC	SAF	P	Held Tool Box Talk in preparation for perforating well.
21:00	0.50	IC	PRE	P	Lined up to pump down drillpipe. Flushed lines and confirmed circulation path. Closed annular. Pressured wellbore up to 20MPa (2900psi). Held pressure for 40sec. Bled off pressure, opened annular. Good indication at surface guns fired after +/- 6mins delay, 2 x separate firing sequences heard. Initial losses 1.6m3 (10bbls) Perforation intervals: 2743.17m - 2798.51m 2812.35m - 2936.88m 2992.48m - 3068.57m 3151.41m - 3165.25m 3213.90m - 3310.75m 3338.42m - 3601.30m 3670.80m - 3712.31m 3833.78m - 3881.90m Gun type: Halliburton 86mm (3 3/8") HMX 6 spf - Dominator charges.
21:30	1.50	IC	SAF	P	Pulled back to 3850m. 140T (308klbs) up. Flow checked well. Initial loss rate - 2.4m3/hr (15bbls/hr) Final loss rate - 0.76m3/hr (4.8bbls/hr)
23:00	1.00	IC	TRP	P	Pulled out hole from 3850m to 3545m. Made up TDS due to excessive brine overflow from dillpipe at connections.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 32 **Report Date: 2/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
Brine	1120				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	1.00	3.00
DSLTI		Stop/Start Cards	7.00	241.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	10	GEOSERVICES	2
OMS	37	MAERSK	15
WEATHERFORD	1	HALCO	7
WOODSIDE	6	BHDF	6
TECHNIP	7	CAMERON	1
		Total POB :	92

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
CEMENT HTB	MT	0.00	17.00	BARITE BULK	MT	0.00	77.00
CEMENT	MT	0.00	117.00	WATER, POTABLE	MT	12.00	357.00
WATER, DRILLING	MT	36.00	435.00	DIESEL	m3	5.00	121.00
GEL, FRESH	MT	0.00	49.00	BRINE	m3	193.00	1,218.00
HELI FUEL	ltrs	20.00	5,230.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 32 **Report Date: 2/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	6.50	1.400	2.800				13.60

REMARKS

1 x incident during past 24hrs. IP rolled right ankle on raised edge of walkway - Initial diagnosis sprained ankle. Currently being treated with rest, ice, compression and elevation (RICE) and not returned to duty, will re-evaluate after 24hrs observation. Preliminary classification D3 (P).

Held weekly Muster and Abandonment drills - Fire at Port crane pedastel.

TOPL continued preparation for de-watering main gas export line to onshore plant and MEG injection line from onshore plant.

Backloaded 1962bbls SBM, 260bbls SBM waste sludge, 210bbls Base Oil and 36T Barite to Supporter.

Weather Forecast: Max HS increasing from 3m to 5m by Sunday PM, dropping back down to 3.75m on Tuesday. Winds forecast gusting to 37kn on Sunday prior to dropping off to 15kn on Monday.

THA02 'A' annulus: 1300hrs - 7200kPa; 2300hrs - 7500kPa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 33 **Report Date: 3/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	32.50	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	32.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	46.50	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 20,904,908.00 ($)

Ops 00:00 to 06:00 : RIH Perflow displacement string to 3888m.

Ops Summary : POOH TCP guns. RIH Perflow displacement string to 1315m.

Ops Look Ahead : Displace perflow from well. Displace liner to 1.02sg brine and casing to 1.12sg completion brine. POOH. Run completion tubing.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	5.50	IC	TRP	P	Pumped 4.7m3 (30bbl) 1.15sg brine pill. Pulled out of hole from 3545m to 1260m, drillpipe dry. Flow checked 5mins every 10 stands. 0.3m3/hr (2bbl/hr) losses.
5:30	1.00	IC	TRP	P	Changed out handling equipment for 102mm (4"). Flow checked 15min - 0.3m3/hr (2bbl/hr) losses.
6:30	0.50	IC	TRP	P	Pulled out of hole from 1260m to 1142m racking back 102mm (4") drillpipe.
7:00	1.00	IC	SAF	P	Held toolbox talk in preparation for laying out guns. Erected barriers and changed dies in PRS back to 140mm (5 1/2") for well control stand.
8:00	9.50	IC	TRP	P	Laid out spent TCP guns, spacer guns and drillpipe spacer - all shots fired.
17:30	1.00	IC	PSI	P	Cleared rig floor. Changed handling equipment and PRS dies for 102mm (4").
18:30	4.00	IC	TRP	P	Ran in hole with 89mm (3 1/2") mule shoe and 102mm (4") drillpipe to 1257m.
22:30	1.00	IC	TRP	P	Changed handling equipment and PRS dies for 140mm (5 1/2"). Made up crossovers and bit sub c/w solid float back to 140mm (5 1/2") DSTJ.
23:30	0.50	IC	TRP	P	Ran in hole 140mm (5 1/2") drillpipe to 1315m.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
Brine	1120				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 33 **Report Date: 3/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

OHSE Report

			Daily	Cumulative
LTI's:	1	Incident Reports	0.00	3.00
DSLTI		Stop/Start Cards	1.00	242.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	12	GEOSERVICES	2
OMS	37	MAERSK	15
WEATHERFORD	1	HALCO	7
WOODSIDE	6	BHDF	2
SCHLUMBERGER	2	TECHNIP	7
		Total POB :	92

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
WATER, POTABLE	MT	38.00	378.00	WATER, DRILLING	MT	28.00	407.00
CEMENT	MT	0.00	117.00	BRINE	m3	0.00	1,218.00
HELI FUEL	ltrs	120.00	5,110.00	GEL, FRESH	MT	0.00	49.00
CEMENT HTB	MT	0.00	17.00	BARITE BULK	MT	0.00	38.00
DIESEL	m3	10.00	111.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	15.00	2.800	5.000				

REMARKS

No accidents or incidents over past 24hrs.

Reviewed condition of IP wrt. incident reported 02/09/2006 DDR #32 "IP rolled right ankle on raised edge of walkway". Indications are that IP will not recover sufficiently to resume normal duties and will be sent home on the next available flight (Monday) for full recuperation. Consequently this has been upgraded to an LTA (Maersk system) and the WEL classification revised to C3 (P).

CAR update - 194 of 200 CAR items are closed = 97%. Of the remaining 6 items 3 are EOW discharge reports, 1 on EP commitments, 1 on mud bucket and 1 on bottle mis-labeling.

Fortnightly department safety meetings held.

Removed cuttings drying equipment from shaker room.

Backloaded further 39T Barite to Supporter, total backloaded to date 75T.

Perflow displacement / spotting light Brine BHA: 3 1/2" Mule shoe, X-over 3 1/2" IF x WT38 (OTWY 55), 44stands 4" drillpipe, X-over WT38 x 4 1/2" IF, Pin X Pin X-over 4 1/2" IF x 4 1/2" Reg, Bit Sub 4 1/2" Reg x 4 1/2" IF c/w solid float, X-over 4 1/2" IF x WT38 (OTWY 13). Total length - 1257.30m

Weather Forecast: Max HS decreasing from 5m to 3.5m on Tuesday. Winds forecast to reduce to 15kn gusts prior to increasing to 40kn gusts on Tuesday PM.

THA02 'A' annulus: 2300hrs - 8750kPa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 34 **Report Date: 4/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	33.50	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	33.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	46.63	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 21,287,006.00 ($)

Ops 00:00 to 06:00 : RIH with completion tailpipe. Made up and tested PDHG termination. RIH 140mm (5 1/2") completion tubing.

Ops Summary : Displaced perflow from well. Displaced liner to 1.02sg brine and casing to 1.12sg completion brine. POOH.

Ops Look Ahead : RIH 140mm (5 1/2") completion tubing.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	6.00	IC	TRP	P	Ran in hole with 140mm (5 1/2") drillpipe from 1315m to 3888m. Filled pipe every 20 stands
6:00	0.25	IC	SAF	P	Held Tool Box Talk in preparation for displacing liner to light brine.
6:15	1.25	IC	PCD	P	Displaced perflow out of well with 3.2m3 (20bbl) Hi-Vis pill followed by 1.12sg brine at 1.5m3/min (400gpm). Took brine returns to pits and dumped perflow overboard. Gas peaked at 1% with perflow at surface.
7:30	0.25	IC	SAF	P	Flow checked well 15mins - 0.3m3/hr (2bbls/hr) losses.
7:45	0.75	IC	PCD	P	Spotted 21.1m3 (133bbls) 1.02sg brine in 178mm (7") liner taking returns to pits.
8:30	0.50	IC	SAF	P	Flow checked well 30mins - 0.16m3/hr (1bbl/hr) losses.
9:00	3.50	IC	TRP	P	Pulled out of hole with 140mm (5 1/2") drillpipe from 3888m to 2634m. Mule shoe above liner top PBR.
12:30	1.50	IC	PCD	P	Displaced 244mm (9 5/8") casing to inhibited completion packer fluid.
14:00	0.25	IC	SAF	P	Flow checked well 15mins - 0.3m3/hr (2bbls/hr) losses. Total losses to formation during displacement 5.9m3 (37bbls)
14:15	2.25	IC	TRP	P	Pulled out of hole with 140mm (5 1/2") drillpipe from 2634m to 1257m.
16:30	1.00	IC	TRP	P	Changed handling equipment and PRS dies for 102mm (4").
17:30	3.00	IC	TRP	P	Pulled out of hole with 102mm (4") drillpipe from 1257m to surface. Laid out crossovers and 89mm (3 1/2") mule shoe assembly.
20:30	0.50	IC	TRP	P	Changed handling equipment and PRS dies for 140mm (5 1/2"). Made up wear bushing pulling tool.
21:00	0.50	IC	TRP	P	Ran in hole retrieved wear bushing. Laid out wear bushing and pulling tool - no damage or debris seen.
21:30	2.00	IC	PCD	P	Made up BOP jetting tool. Ran in hole and jetted BOPs and wellhead with seawater dumping returns from 'A' annulus outlet. Tagged 273mm (10 3/4") casing hanger seal assembly at 28.1m.
23:30	0.50	IC	RUD	P	Rigged up 140mm (5 1/2") tubing running equipment. Concurrently flow checked well - 0.3m3/hr (2 bbls/hr) losses.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Open Hole	

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
Brine	1120				

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 34 **Report Date: 4/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	3.00
DSLTI		Stop/Start Cards	12.00	254.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	10	GEOSERVICES	2
OMS	35	MAERSK	14
WEATHERFORD	5	HALCO	7
WOODSIDE	6	BHDF	6
SCHLUMBERGER	2	TECHNIP	3
		Total POB :	91

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
CEMENT	MT	0.00	117.00	GEL, FRESH	MT	0.00	49.00
HELI FUEL	ltrs	635.00	4,475.00	BARITE BULK	MT	0.00	38.00
WATER, POTABLE	MT	32.00	395.00	CEMENT HTB	MT	0.00	17.00
BRINE	m3	889.00	329.00	DIESEL	m3	10.00	120.00
WATER, DRILLING	MT	107.00	300.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	10.00	1.600	3.100				11.60

REMARKS

No accidents or incidents over past 24hrs.

Dismantled solids control augers and cuttings drier.
Held AAR on THA04 TCP operations.
Cleaned out TCP spacer guns run on THA04 perforation run in preparation for perforating THA03.

Reviewed sub assembly make up graphs with Sumitomo representative.

Weather Forecast: Max HS stable at 3.5m to 4m until Saturday. Winds forecast to reduce from 30kn max. gusts to 15kn gusts by Tuesday PM picking back up to 30kn gusts on Wednesday PM.

THA02 'A' annulus: 1300hrs - 9000kpa; 2300hrs - 9600kpa.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 35 **Report Date: 5/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	34.50	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	34.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	47.10	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 21,560,095.00 ($)

Ops 00:00 to 06:00 : RIH 140mm (5 1/2") tubing to 2297m.

Ops Summary : RIH Completion Tailpipe assemblies. Hooked up and pressure tested gauge cable. RIH 140mm (5 1/2") tubing to 1688m.

Ops Look Ahead : RIH 140mm (5 1/2") completion tubing. Make up TRSV. RIH 140mm (5 1/2") completion tubing. Make up and land tubing hanger.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.25	IC	SAF	P	Held Tool box talk in preparation for running completion tubing.
0:15	0.75	IC	PSI	U	Re-arranged sub assemblies on deck due to sub-optimal sub assembly make up graphs. Changed over to back up packer assembly.
1:00	0.25	IC	CLR	P	Picked up and ran in hole with sub assembly TH-WEG-04: shearable mule shoe wireline entry guide.
1:15	0.25	IC	CLR	P	Made up 1 x joint 140mm (5 1/2") 13Cr tubing.
1:30	1.00	IC	CLR	D	Made up 1 x 140mm (5 1/2") 13Cr Pup Joint. Unable to achieve a shoulder with first pup joint. Laid out pup joint, picked and made up back up pup joint of same length. High interference seen on torque turn graphs and no clear initial shoulder. Note: Pup joint was cut from full joint of tubing.
2:30	0.50	IC	CLR	P	Made up sub assembly TH14-04: 113mm (4.437") RPT nipple assembly.
3:00	0.50	IC	CLR	P	Made up sub assembly TH02-04: 244mm (9 5/8") x 140mm (5 1/2") AHC packer assembly.
3:30	0.50	IC	CLR	P	Made up 2 x joints 140mm (5 1/2") 13Cr tubing. Continued to see high interference and high shoulders on connection make up, re-made up connections until acceptable shoulders recorded. Inspected tongs - all OK.
4:00	1.50	IC	CLR	P	Made up sub assembly TH15-03: permanent downhole gauge assembly. Made up 1 x joint 140mm (5 1/2") 13Cr tubing. Pulled back to the gauge mandrel. Made up gauge cable termination to the gauge assembly. Pressure tested connection 55.1 MPa (8000psi) 15mins - good test in less than 1/2hr. Concurrently: Changed out load cell, data cables and JAM unit on tong and tested make up on 2 x 1m pup joints.
5:30	3.00	IC	CLR	P	Ran in hole with 140mm (5 1/2") 13Cr tubing making up cross coupling gauge cable clamps to each connection.
8:30	1.00	IC	CLR	D	Laid out 2 x joints of tubing due to galled pin ends. Changed out coupling prior to making up next joint.
9:30	3.75	IC	CLR	P	Ran in hole with 140mm (5 1/2") 13Cr tubing making up cross coupling gauge cable clamps to each connection.
13:15	0.50	IC	CLR	D	Laid out 1 x joint of tubing.
13:45	10.25	IC	CLR	P	Ran in hole with 140mm (5 1/2") 13Cr tubing making up cross coupling gauge cable clamps to each connection to 1688m. Checked PDHG signal at regular intervals - signal OK. High thread interference and shoulders continued. Continued to vary connection make up parameters: - Cleaned, dried with air and re-doped pin end connections, - Varied quantity of dope applied, - Warmed dope in driller's dog hose prior to application, - Shoulders came in lower.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 35 **Report Date: 5/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	311.00
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Casing	216.00

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
Brine	1120				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	3.00
DSLTI		Stop/Start Cards	1.00	255.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	10	GEOSERVICES	2
OMS	36	MAERSK	18
WEATHERFORD	5	HALCO	7
WOODSIDE	6	BHDF	6
SCHLUMBERGER	2	TECHNIP	6
		Total POB :	100

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
DIESEL	m3	10.00	110.00	HELI FUEL	ltrs	510.00	7,965.00
WATER, POTABLE	MT	31.00	413.00	CEMENT HTB	MT	0.00	17.00
BRINE	m3	842.00	909.00	GEL, FRESH	MT	0.00	49.00
CEMENT	MT	0.00	117.00	WATER, DRILLING	MT	68.00	387.00
BARITE BULK	MT	0.00	5.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 35 **Report Date: 5/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	8.00	1.500	3.000				10.40

REMARKS

No accidents or incidents over past 24hrs.

Dismantled cuttings discharge overboard chute. Backloaded dismantled cuttings drying equipment.

Weather Forecast: Max HS stable at 3.5m to 4m until Friday PM when it is forecast to increase to 4.75m. Winds forecast to reduce from 40kn max. gusts to 20kn gusts by Thursday AM picking back up to 40kn gusts on Friday PM.

THA02 'A' annulus: Vented pressure from 10,050kpa to 150kpa - dry gas.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 36 **Report Date: 6/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	35.50	MD (m):	3,987.00	Day WSM:	Shaughan Corless
DFS:	35.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	48.60	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 22,865,737.00 ($)

Ops 00:00 to 06:00 : Rigged up and pressure tested slickline equipment. RIH 'N' test tool. Pressure test landing string. Displace tubing to diesel.

Ops Summary : RIH 140mm (5 1/2") completion tubing. Made up TRSV. RIH 140mm (5 1/2") completion tubing. Made up and landed tubing hanger. Rigged up Slickline equipment.

Ops Look Ahead : Set deep set plug. Set packer. Pressure test tubing and annulus. Set and test tubing hanger plug. Rig down slickline. Pull landing string. Nipple down BOPs.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	5.75	IC	CLR	P	Ran in hole with 140mm (5 1/2") tubing from 1688m to 2299m. Made up cross coupling gauge cable protection clamps on each connection. No joints rejected. PDHG signal OK.
5:45	0.50	IC	CLR	P	Made up sub assembly TH16-03. SP2 TRSV, serial # 1473850-1, part # 78001521-BAT. Made up lower special TRSV cross coupling gauge cable protector. Made up 1 x joint 140mm (5-1/2") tubing. TRSV setting depth 353m BRT.
6:15	2.00	IC	PRE	P	Pulled back to the TRSV assembly. Made up control line fitting. Pressure tested TRSV control line connection to 71.7MPa (7500 psi) 15 minutes - good test. Measured fluid returns from 34.5MPa (5000psi) to 0MPa - 125ml returns. Increased control line pressure to 20.7MPa (3000 psi). Made up upper special TRSV cross coupling gauge cable protector.
8:15	3.00	IC	CLR	P	Ran in hole with 140mm (5 1/2") tubing from 2309m to 2625m. Made up cross coupling gauge cable and control line protection clamps on each connection. No joints rejected. PDHG signal and control line pressure OK.
11:15	0.25	IC	CLR	P	Changed over to 194mm (7 5/8") slip type elevators.
11:30	0.50	IC	CLR	P	Made up sub assembly TH17-04. Tubing hanger assembly, part # 2205980-04. Serial # 110430130-1.
12:00	0.75	IC	CLR	P	Cut TRSV control line and PDHG line and stripped encapsulation. Fed gauge line and control line through tubing hanger and terminated with Inc 825 compression fittings. Final PDHG readings: gauge #014: 24MPa (3484psi) @101 degC, gauge #015 = 24MPa (3484psi) @ 101 degC. 31.54mA, 38.9V.
12:45	1.25	IC	PRE	P	Pressure tested tubing hanger voids on gauge line and control line. 34.5MPa (5000psi) 15 min each - good tests.
14:00	0.75	IC	CLR	P	Installed tubing hanger test port plugs and made up tubing hanger running tool. Re-terminated gauge and control lines.
14:45	0.50	IC	PRE	P	Pressure tested TRSV control line to 51.7MPa (7500psi) 15 min - good test. Locked in 20.7MPa (3000psi) on the TRSV control line.
15:15	0.75	IC	CLR	P	Made up 194mm (7-5/8") landing string and ran in hole. 100T (220klbs) up, 84T (185klbs) down. Concurrently: Drained riser through 'A' annulus. Good indication of WEG shearing with 6.8T (15klbs) at 2654.8m. Landed hanger at 28.1m BRT, WEG at 2656.34m.
16:00	0.50	IC	CLR	D	Freed jammed 194mm (7-5/8") slip type elevators by removing slip engaging plate.
16:30	0.25	IC	CLR	P	Energised tubing hanger lock down ring with 4 turns to right. Pulled 9T (20klbs) over string weight over pull, 109T (240klbs) confirmed tubing hanger locked in place. Slacked off string weight.
16:45	0.50	IC	PRE	P	Pressure tested tubing hanger seals via ports 7 & 8, 3.4Mpa (500psi) 5min and 34.5MPa (5000psi) 15 min - good tests.
17:15	1.25	IC	PSI	P	Cleared rig floor and prepared for erecting scaffolding tower.
18:30	0.25	IC	RUD	P	Made up surface swab valve.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 36 **Report Date: 6/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

18:45	2.75	IC	RUD	P	Erected first 2 levels of scaffolding.
21:30	1.00	IC	RUD	P	Made up slickline BOPs and pump in tee. Attached 51mm (2") line and Lo-torque valves from cement test line.
22:30	0.75	IC	RUD	P	Erected 3rd level of scaffolding.
23:15	0.25	IC	SAF	U	Held Tool Box Talk with crew prior to proceeding with remaining scaffolding rig up due to roughneck receiving cut to upper lip from scaffolding clamp bouncing back off scaffolding whilst assisting scaffolder.
23:30	0.50	IC	RUD	P	Completed erecting 3rd level of scaffolding in preparation for slickline rig up.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	311.00
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Casing	216.00

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
Brine	1120				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	1.00	4.00
DSLTI		Stop/Start Cards	1.00	256.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	11	GEOSERVICES	2
OMS	36	MAERSK	18
WEATHERFORD	5	HALCO	7
WOODSIDE	6	BHDF	3
SCHLUMBERGER	4	TECHNIP	6
		Total POB :	100

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 36 **Report Date: 6/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
BARITE BULK	MT	0.00	5.00	CEMENT HTB	MT	0.00	17.00
WATER, POTABLE	MT	32.00	429.00	CEMENT	MT	0.00	117.00
GEL, FRESH	MT	0.00	49.00	WATER, DRILLING	MT	25.00	362.00
BRINE	m3	0.00	909.00	HELI FUEL	ltrs	785.00	7,180.00
DIESEL	m3	5.00	105.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	8.00	1.700	3.400				9.70

REMARKS

One incident over past 24hrs - FAC. IP received cut to upper lip from scaffolding clamp bouncing back off scaffolding whilst assisting scaffolder erecting scaffolding on rig floor for slickline operations. Medic cleaned cut and applied plaster.

Continued dismantling solids control / cuttings drying equipment.

Wellhead settlement with tubing string landed - 20mm. Total wellhead settlement from landing 244mm (9 5/8") casing and tubing string - 73mm. Current TOS to base 660mm (26") sliplock connector with BOPs made up - 20mm.

Weather Forecast: Max HS stable at 4m to 4.25m until Sunday PM when it is forecast to drop off to 3m. Winds forecast to remain at 20-25kn gusts until Friday PM when it is forecast that the winds will increase to 45kn gusts prior to dropping back down to 15kn gusts by Sunday PM.

THA02 'A' annulus: 2300hrs - 400kpa.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 37 **Report Date: 7/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	36.50	MD (m):	3,987.00	Day WSM:	Shaughan Corless
DFS:	36.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	49.50	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 23,259,591.00 ($)

Ops 00:00 to 06:00 : Pressure tested tubing. Inflow tested TRSV. Set tubing hanger plug. Pressure tested tubing hanger plug.

Ops Summary : Rigged up and pressure tested slickline equipment. RIH 'N' test tool. Pressure tested landing string. Displaced tubing to diesel. Set deep set plug. Set packer. Pressure tested tubing and annulus.

Ops Look Ahead : Rig down slickline equipment. Pull landing string. Drain riser. Nipple down BOPs. Terminate gauge and control lines.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.25	IC	RUD	P	Held tool box talk in preparation for rigging up slickline lubricator.
0:15	0.25	IC	RUD	P	Topped up landing string with brine 1.1m3 (7bbls).
0:30	0.25	IC	RUD	P	Picked up lubricator. Made up 122mm (4.813") N-test tool toolstring.
0:45	1.25	IC	PRE	P	Made up lubricator and pressure tested 31MPa (4500psi) 15min - Good test.
2:00	1.50	IC	SLO	P	RIH with N-Test tool to 27.1m. Pressure tested landing string 27.6MPa (4000psi) 15min - Good Test POOH with N-Test tool. Made up 113mm (4.437") RPT plug to toolstring.
3:30	0.25	IC	SAF	P	Held tool box talk in preparation for displacing tubing to diesel.
3:45	2.75	IC	PCD	P	Opened A-annulus valve and lined up to take returns to pit #8. Pumped 29.7m3 (187bbls) of diesel at 0.24m3/min (1.5bbls/min) followed by 1.1m3 (7bbls) brine. 6.3MPa (910psi) shut in pressure on tubing. 24.1MPa (3500psi) at PDHG.
6:30	3.00	IC	SLO	P	Ran in hole and set 113mm (4.437") RPT plug at 2624m. Pulled out of hole and closed swab valve. Topped up 'A' annulus with 0.3m3 (2.1bbls) completion brine
9:30	1.25	IC	SLO	P	Made up 113mm (4.437") prong. Stabbed on lubricator. Pressure tested connection via insitu sub. Equalised across and opened swab valve.
10:45	1.50	IC	SLO	P	Set 113mm (4.437") prong 2623m. Pulled out the hole, closed swab valve and drained the lubricator. Made up 122mm (4.813") RNT hanger plug. CITHP - 5.8MPa (840 psi).
12:15	1.75	IC	PRE	D	Pressured up tubing and set packer with 27.6MPa (4000psi). PDHG - 45.9MPa (6655psi). Pressure tested tubing while monitoring 'A' annulus. Annulus on slight vacuum. Tubing pressure test failed with constant 41kPa/5min (6psi/5min) leak rate over 30 minutes.
14:00	1.00	IC	PRE	D	Bled off tubing pressure. Conducted surface line test 27.6MPa (4000psi) - Test failed.
15:00	1.50	IC	PRE	D	Pressured up tubing to 27.6MPa (4000psi) and closed swab valve to isolate suface lines. PDHG - 45MPa (6539psi). Lined up to annulus and applied 1.4MPa (200 psi). Tubing pressure dropped 0.2MPa (30psi) over 30 minutes. Annulus pressure stable at 1.47MPa (213psi). Bleed off annulus pressure. Equalised across swab valve. Opened swab valve and bled off tubing pressure to 3.4MPa (500psi). Test inconclusive due to tubing pressure drop and annulus stable.
16:30	1.50	IC	PRE	D	Lined up and pressure tested 'A' annulus to 27.6MPa (4000psi) in process of elimination of potential leak paths. Annulus pressure dropped at 27KPa/5min (4psi / 5 minutes). Tubing pressure dropped at 75KPa/5min (11psi/5min).
18:00	1.75	IC	PRE	D	Isolated surface lines at rig floor and re-tested to 27.6MPa (4000psi). Identified leak on cement line hose below drillfloor at cantilever deck. Reconfigured lines to go direct to 'A' annulus.
19:45	1.25	IC	PRE	P	Pressure tested surface lines to 'A' annulus outlet to 27.6MPa (4000psi) - good test.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 37 **Report Date: 7/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

21:00	1.50	IC	PRE	P	Pressure tested 'A' annulus 27.6MPa (4000psi) 1 hour - good test. 0.9m3 (5.5 bbls) pumped. Lost 75KPa (11psi) over 1st 15min, 34KPa (5psi) over second 15min, 21KPa (3psi) over 3rd 15min and 6.9KPa (1psi) over final 15min.
22:30	1.50	IC	PRE	D	Lined up to test down tubing string. Pressure tested lines 27.6MPa (4000psi) - test failed. Reconfigured line up to eliminate potential leak paths, hooked up 51mm (2") flexible hose from test line to pump in tee.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (mm)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (mm)
762mm (30") Top Hole	50.00	217.00			N	Casing	762.00
584mm (23")	217.00	638.00	660.40	217.00		Casing	584.20
311mm (12 1/4")	638.00	2,751.00	473.07	633.00		Casing	311.00
216mm (8-1/2")	2,751.00	3,987.00	244.00	2,743.00		Casing	216.00

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (mPa*s)	YP (Pa)	6RPM (°)	Pump Liners (mm)
Brine	1120				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (mm)	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kN)	Current RPM (rpm)	Flow Rate (m³/min)	SPP (kPa)	P Bit (kPa)	% @ Bit	HHP (kW)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	4.00
DSLTI		Stop/Start Cards	6.00	262.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	11	GEOSERVICES	2
OMS	36	MAERSK	18
WEATHERFORD	3	HALCO	7
WOODSIDE	6	BHDF	3
SCHLUMBERGER	4	TECHNIP	6
		Total POB :	98

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
BARITE BULK	MT	0.00	5.00	WATER, DRILLING	MT	12.00	470.00
HELI FUEL	ltrs	666.00	6,514.00	CEMENT HTB	MT	0.00	17.00
BRINE	m3	0.00	1,309.00	WATER, POTABLE	MT	46.00	418.00
DIESEL	m3	30.00	75.00	CEMENT	MT	0.00	117.00
GEL, FRESH	MT	0.00	49.00				

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 37 **Report Date: 7/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	8.00	1.700	3.500				10.30

REMARKS

No accidents or incidents over past 24hrs.

Completed dismantling cuttings drying and solids control equipment - Removed final 2 centrifuges.
Maersk Supporter prepared for Wave rider buoy repositioning in preparation for rig move.

Weather Forecast: Max HS stable at 4m until Sunday AM when it is forecast to drop off to 2m by Monday PM. Winds forecast to increase to 45kn gusts by Friday PM prior to dropping off to 15kn gusts by Sunday PM and remaining at 15kn gusts through Monday.

THA02 'A' annulus: 2000hrs - 600KPa

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 38 **Report Date: 8/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	37.50	MD (m):	3,987.00	Day WSM:	Shaughan Corless
DFS:	37.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	50.35	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 23,949,426.00 ($)

Ops 00:00 to 06:00 : Landed and installed Xmas tree. Pressure tested tubing hanger seals.

Ops Summary : Pressure tested tubing. Inflow tested TRSV. Set and tested tubing hanger plug. Rigged down slickline. Pulled landing string. Nippled down BOP's. Terminated gauge and control lines. Prepared to install tree.

Ops Look Ahead : Rig up Slickline. Pull tubing hanger and deep set plug. Rig down Slickline. Skid rig in. Load test platform crane.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	2.00	IC	PRE	P	Pressure tested tubing 27.6MPa (4000psi) 45mins - good test. Acceptance criteria #14 and 15 met (Completion tubing pressure test and Production packer test)
2:00	1.50	IC	PRE	P	Bled pressure down to 20.7 MPa (3000psi). Closed TRSV and vented off above to 1.4MPa (200psi) 0.08m3 (0.5bbls) returned. Inflow tested TRSV 15mins - good test. Pressured tubing back up to 20.7MPa (3000psi). Opened the TRSV. Vented pressure off to atmospheric pressure. 0.98m3 (6.2bbls) returned. Acceptance criteria #17 met (Inflow test safety valve)
3:30	0.50	IC	SLO	P	Ran in hole with slickline, set 122mm (4.813") RNT tubing hanger plug at 27.1m.
4:00	1.75	IC	PRE	P	Pressure tested 122mm (4.813") RNT plug 34.5MPa (5000psi) 15min - good test.
5:45	0.25	IC	SAF	P	Held Tool Box Talk in preparation for rigging down slickline equipment.
6:00	1.50	IC	RUD	P	Rigged down slickline lubricator, HP circulating lines and BOP's.
7:30	1.50	IC	RUD	P	Rigged down scaffolding tower.
9:00	0.50	IC	RUD	P	Laid out surface swab valve assembly.
9:30	0.50	IC	TRP	P	Released hanger running tool with 6-1/4 turns to the right. Laid out landing string joints and tubing hanger running tool.
10:00	1.50	IC	RUD	P	Laid out completion running equipment and cleared drillfloor of excess equipment.
11:30	0.50	IC	BPR	P	Made up diverter running tool and prepared to pull diverter. Concurrently drained stack.
12:00	0.25	IC	SAF	P	Held Tool Box Talk with oncoming crew in preparation for nippling down BOPs.
12:15	4.25	IC	BPR	P	Nippled down diverter, ball joint overshot, low pressure riser and BOPs. Transferred BOPs to test stump.
16:30	2.50	IC	BPR	P	Pumped out remaining diesel / water mix from high pressure riser. Pulled and laid out the high pressure riser.
19:00	3.00	IC	XTI	P	Installed main deck hatch covers. Cleaned and inspected wellhead and tubing hanger. Terminated gauge and TRSV control lines.
22:00	1.00	IC	XTI	P	Made up and installed tubing hanger neck SRL seal. Filled tubing hanger cavity with hydraulic oil.
23:00	1.00	IC	XTI	P	Picked up Xmas tree with BOP crane, removed transport frame and transferred load onto blocks. Cleaned and prepared seal areas. Removed main deck hatch covers.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 38 **Report Date: 8/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	50.00	217.00	9.625	2,743.00	N	Casing	30.000
584mm (23")	217.00	638.00	26.000	217.00		Casing	23.000
311mm (12 1/4")	638.00	2,751.00	18.625	633.00		Casing	12.244
216mm (8-1/2")	2,751.00	3,987.00	9.606	2,743.00		Casing	8.504

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
Brine	1120				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	4.00
DSLTI		Stop/Start Cards	6.00	268.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	9	GEOSERVICES	2
OMS	36	MAERSK	18
HALCO	6	WOODSIDE	8
BHDF	3	SCHLUMBERGER	4
TECHNIP	7	CAMERON	2
		Total POB :	95

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
BRINE	m3	0.00	1,709.00	BARITE BULK	MT	0.00	5.00
DIESEL	m3	21.00	114.00	CEMENT HTB	MT	0.00	17.00
WATER, POTABLE	MT	35.00	407.00	GEL, FRESH	MT	0.00	49.00
CEMENT	MT	0.00	117.00	WATER, DRILLING	MT	12.00	578.00
HELI FUEL	ltrs	0.00	5,848.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 38 **Report Date: 8/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	18.00	2.700	2.800				10.70

REMARKS

No accidents or incidents over past 24hrs.

Maersk Supporter completed deployment of Wave Rider buoy. Position: 39º 17.258 South; 142º 50.262 East.
Pressure tested repaired cement line offline - test failed. Removed cement line hose.

Weather Forecast: Max Hs 4m until Sunday PM when it is forecast to drop off to less than 2m by Wednesday. Winds forecast to drop from current >40Kn gusts to 15Kn by Sunday PM.

THA02 'A' annulus: 1915hrs - 8500KPa.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 39 **Report Date: 9/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	38.50	MD (m):	3,987.00	Day WSM:	Shaughan Corless
DFS:	38.17	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	51.02	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 24,597,792.00 ($)

Ops 00:00 to 06:00 : Rigged down slickline equipment. Installed hatch covers. Skidded rig to THA03. Commenced nippling up BOPs.

Ops Summary : Landed and pressure tested Xmas tree. Terminated PDHG. Rigged up slickline. Pulled tubing hanger plug and deep set plug.

Ops Look Ahead : Nipple up BOPs on THA03. Pull RTTS packers. RIH perflow displacement / spotting drillstring.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.50	IC	XTI	P	Orientated and landed Xmas tree.
0:30	1.25	IC	XTI	P	Made up Fastlock connector. Installed flange x 1502 on kill wing valve outlet.
1:45	2.75	IC	XTI	P	Pressure tested void between CF-18 Gasket, LS hanger neck seal, hanger body seal, TRSV control line exit and PDHG cable exit with vent port below SRL seal open. 3.45MPa (500psi) 5min and 34.5MPa (5000psi) 15min - good tests. Acceptance criteria #19 met - Xmas Tree CF 18 gasket.
4:30	5.50	IC	XTI	P	Filled Xmas tree body and made up tree cap. Pressure tested Xmas tree body, hanger neck SRL seal against the tubing hanger plug. 3.4MPa (500psi) and 34.5MPa (5000psi) 15mins - good tests. Initial difficulty obtaining satisfactory test due slow pressure equalization to body cavities, past tree grease. Achieved test by applying pressure to cavities. Acceptance criteria #20 met - Xmas Tree SRL seals.
10:00	3.50	IC	XTI	P	Terminated and pressure tested PDHG tie in. Confirmed PDHG recording data.
13:30	1.00	IC	RUD	P	Made up slickline riser to Xmas tree and rigged up slickline BOPs and lubricator.
14:30	1.00	IC	PRE	P	Pressure tested slickline rig up and riser 3.45MPa (500psi) and 27.6MPa (4000psi) 15min - good tests.
15:30	0.75	IC	SLO	P	Ran in hole with 102mm (4") GR pulling tool to 27.1m. Latched and pulled 122mm (4.813") RNT tubing hanger plug.
16:15	2.25	IC	SLO	P	Pressured tubing up to 5.5MPa (800psi). Ran in hole with 102mm (4") SB to 2623m Latched and pulled 113mm (4.437") RPT plug equalising prong. CITH dropped to 4.83MPa (700psi). Minor damage to both Lower and Upper sets of prong packings.
18:30	2.50	IC	SLO	D	Ran in hole with 102mm (4") GR pulling tool to 2624m. Unable to latch 113mm (4.437") RPT lock and plug body. Clear indication of top of lock seen on base of pulling tool.
21:00	3.00	IC	SLO	P	Made up 106.7mm (4.2") centraliser above the 102mm (4") GR pulling tool. Ran in hole to 2624m, latched and pulled the 113mm (4.437") RPT lock and plug body. No jarring down required.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	50.00	217.00	9.625	2,743.00	N	Casing	30.000
584mm (23")	217.00	638.00	26.000	217.00		Casing	23.000
311mm (12 1/4")	638.00	2,751.00	18.625	633.00		Casing	12.244
216mm (8-1/2")	2,751.00	3,987.00	9.606	2,743.00		Casing	8.504

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 39 **Report Date: 9/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
Brine	1120				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	4.00
DSLTI		Stop/Start Cards	10.00	278.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	9	GEOSERVICES	2
OMS	36	MAERSK	18
HALCO	6	WOODSIDE	9
BHDF	3	SCHLUMBERGER	4
TECHNIP	4	CAMERON	1
		Total POB :	92

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
CEMENT	MT	0.00	117.00	GEL, FRESH	MT	0.00	49.00
HELI FUEL	ltrs	304.00	5,544.00	CEMENT HTB	MT	0.00	17.00
WATER, POTABLE	MT	35.00	381.00	BARITE BULK	MT	0.00	5.00
WATER, DRILLING	MT	0.00	578.00	DIESEL	m3	7.00	107.00
BRINE	m3	0.00	1,709.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	7.00	2.200	2.900				10.70

REMARKS

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 39			Report Date: 9/09/2006
Block: T/L2	**Rig: Maersk Guardian**	**Water Depth(m): 99.30**	**Start Date: 17/03/2006**

No accidents or incidents over past 24hrs.

Held platform fire and abandonment drills.

Pressure tested BOP rams and annular on stump.
Changed out failed cement hose below rig floor, on cantilever deck.
Load testing of platform crane postponed due to incorrect equipment onboard.

Weather Forecast: Max HS dropping off from 4m to 2m by Monday PM. Winds forecast to remain between 15 and 20kn gusts until Wednesday when it is predicted they will increase to 30kn gusts.

THA02 'A' annulus: 23:30hrs - 9000KPa.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 40 **Report Date: 10/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	38.63	MD (m):	3,987.00	Day WSM:	Shaughan Corless
DFS:	38.30	Planned Depth (m):	4,250.00	Night WSM:	Phil Hodson
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	George Clark
Progress Days:	51.11	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 24,627,274.00 ($)

Ops 00:00 to 06:00 :

Ops Summary : Rigged down slickline equipment and riser. Replaced tree cap. Skidded rig over to THA03

Ops Look Ahead :

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	0.50	IC	SLO	P	Laid out 113mm (4.437") RPT lock and plug assembly, 'V' packing in good condition.
0:30	0.50	IC	RUD	P	Made up lubricator, flushed diesel / brine mix out of the riser with seawater.
1:00	2.00	IC	RUD	P	Laid out slickline PCE, BOPs and riser. Made up tree cap and replaced platform main deck hatch cover.
3:00	0.00				Further operations on THA04 suspended until after THA03 completion and well clean up.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	50.00	217.00	9.625	2,743.00	N	Casing	30.000
584mm (23")	217.00	638.00	26.000	217.00		Casing	23.000
311mm (12 1/4")	638.00	2,751.00	18.625	633.00		Casing	12.244
216mm (8-1/2")	2,751.00	3,987.00	9.606	2,743.00		Casing	8.504

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
Brine	1120				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	4.00
DSLTI		Stop/Start Cards	6.00	284.00
TRCs:		Stop/Start Tours		0.00

Safety Comments

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 40 **Report Date: 10/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	6	GEOSERVICES	2
OMS	36	MAERSK	18
HALCO	6	WOODSIDE	8
BHDF	3	SCHLUMBERGER	2
TECHNIP	3	CAMERON	1
		Total POB :	85

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
HELI FUEL	ltrs	0.00	5,544.00	CEMENT	MT	0.00	117.00
WATER, DRILLING	MT	18.00	560.00	CEMENT HTB	MT	0.00	17.00
BRINE	m3	0.00	1,709.00	BARITE BULK	MT	0.00	5.00
DIESEL	m3	3.00	191.00	GEL, FRESH	MT	0.00	49.00
WATER, POTABLE	MT	27.00	397.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	On standby at Rig		
Invincible Tide	On standby at Rig		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	7.00	1.500	2.100				10.30

REMARKS

No accidents or incidents over past 24hrs.

Held fortnightly safety meetings with all personnel onboard.

Further operations suspended on THA04. Well will be cleaned up after THA03 has been completed and cleaned up.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 41 **Report Date: 22/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	40.21	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	40.01	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	Lars Lovenholdt
Progress Days:	51.60	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 25,404,977.00 ($)

Ops 00:00 to 06:00 : Continued flowing well on 56/64" choke. Cycled and cleared debris from choke several times.

Ops Summary : Pressure tested surface lines. Function tested ESD's. Changed 76mm (3") elbows due to wall thickness. Held pre-test safety meeting. Completed pre-flow checklists. Opened well and flowed to port burner. Beaned well up slowly. Cleared debris from choke.

Ops Look Ahead : Continue to clean-up well and divert to separator when flow is stabilised. Take samples as per program. Shut-in well when clean-up criteria satisfied. Flush lines. Rig down testing equipment. Secure and test xmas tree. Hand over to production.

From	Dur. (hr)	Phase	Code	Class	Operation
7:00	5.00	CU	PRE	P	Pressure tested surface lines from cement unit against swab valve to (4000psi) for 15 minutes. Flushed through gas line to port flare boom. Pressure tested choke manifold downstream & upstream valves to 1.4 / 27.6 MPa (200 / 4000psi). Function tested all ESD stations and timed responses.
12:00	3.00	CU	PRE	U	Changed out 7x 76mm (3") 1502 elbows due to insufficient wall thickness. Final ESD's check with 17.2 MPa (2500psi) line pressure. Pressure tested gas lines to 1.4 / 6.9 MPa (200 / 1000psi). Pressure tested SSV to 1.4 / 27.6 MPa (200 / 4000psi).
15:00	1.00	CU	SAF	P	Held pre-test safety / operation reveiw meeting with on tour crews. Completed pre-flow checklists.
16:00	8.00	CU	WFL	P	Opened UMGV. Opened well on 24/64" adjustable choke to surge tank. Diverter diesel to portside burner. Brine to surface at 17:38hrs. Gas to surface at 17:40hrs. Perflow to surface at 20:30hrs. Increased choke size in stages from 24/64" to 56/64". First gun debris to surface at 23:44hrs. Cycled choke to clear debris. Bled off annulus at 'A' side outlet valves 4 times. Total of 490 litres fluid recovered.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	50.00	217.00	9.625	2,743.00	N	Casing	30.000
584mm (23")	217.00	638.00	26.000	217.00		Casing	23.000
311mm (12 1/4")	638.00	2,751.00	18.625	633.00		Casing	12.250
216mm (8-1/2")	2,751.00	3,985.00	9.625	2,742.90		Casing	8.500

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
Brine	1150				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 41 **Report Date: 22/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	4.00
DSLTI		Stop/Start Cards	0.00	284.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
GEOSERVICES	2	_Others	2
OMS	37	MAERSK	15
HALCO	2	WOODSIDE	8
BHDF	1	SCHLUMBERGER	15
TECHNIP	8	CAMERON	1
		Total POB :	91

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
HELI FUEL	ltrs		3,308.00	BRINE	m3		1,257.00
WATER, DRILLING	MT		225.00	BARITE BULK	MT		5.00
WATER, POTABLE	MT		412.00	GEL, FRESH	MT		3.00
CEMENT	MT		5.00	CEMENT HTB	MT		1.00
DIESEL	m3		119.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	In Portland		
Invincible Tide	Standby at rig.		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	15.40	3.200	7.000				9.70

REMARKS

No accidents or incidents over past 17hrs.

Began pressure testing BOP rams and annular on stump.

Weather Forecast: Max HS rising to 8.2m on Saturday 23/09/06, then decreasing to 3.6m by Tuesday 26/09/06. Winds forecast to remain between 30 and 35kn with gusts of >45kn until Monday 27/09/06.

THA02 'A' annulus: 21:00hrs - 11000KPa.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 42 **Report Date: 23/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	41.21	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	41.01	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	Lars Lovenholdt
Progress Days:	52.25	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 25,727,940.00 ($)

Ops 00:00 to 06:00 : Completed sampling. Increased to 64/64" choke to measure maximum rate. Metal debris heard at choke, shut-in well at choke manifold. Consulted onshore team. Shut-in TRSV and UMGV. Bled off to test spread. Flushed testing lines to burners from cement unit.

Ops Summary : Continued to clean-up well. Diverted to starboard side burner due to wind direction change. After 60 minutes of stable flow, diverted to separator. Took PVT and stock tank samples.

Ops Look Ahead : Rig down testing lines and pump-in tee from THA04 tree. Install tree cap and test. Rig-up slickline lubricator and pump-in tee on THA02. Proceed with THA-02 Workover Procedure.

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	24.00	CU	WFL	P	Continued to clean-up well on 56/64" adjustable choke. Cycled choke periodically to clear debris. FTHP was not stable as slugs of brine were being produced. At 16:15hrs, diverted flow to starboard side burners due to change in wind direction. After 60 mins stable flow was achieved with no further gun debris, flow diverted through separator (16:39hrs). Stable flowrate of 0.34 million std m3/day (20MM scfd) on 56/64" choke achieved. Commenced sampling at 20:15hrs. Took 2 x PVT samples and 2 stock tank samples. Adjustable choke became plugged at 21:25hrs, by-passed separator. Cycled choke and cleared debris. Gas flare not burning - unable to ignite pilot on gas line (igniter problem). Diverted flow through separator to assist burning, and spiked oil line with diesel - still unable to light gas flare. (Unable to switch to port burners due to wind direction). Continued sampling. Final data on 56/64" choke as at 23:45hrs. BSW 30% THP 11.85 MPa (1719psi) BHP 14.58 MPa (2115psi) Flowrate 0.313million std m3/day (18.43MMscfd) CO2 2% H2S 1 ppm Note: maximum flowrate achieved just prior to shutting in well on 64/64" choke - 0.476 million std m3/day (28MM scfd). SITHP 15.61 MPa (2265psi).

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	50.00	217.00	9.625	2,743.00	N	Casing	30.000
584mm (23")	217.00	638.00	26.000	217.00		Casing	23.000
311mm (12 1/4")	638.00	2,751.00	18.625	633.00		Casing	12.250
216mm (8-1/2")	2,751.00	3,985.00	9.625	2,742.90		Casing	8.500

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
Brine	1150				

CASING

Last Casing:	Next Casing:	Last BOP: 30/08/2006 12:00:00AM

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 42 **Report Date: 23/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	4.00
DSLTI		Stop/Start Cards	5.00	289.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	2	GEOSERVICES	2
OMS	37	MAERSK	15
HALCO	2	WOODSIDE	8
BHDF	1	SCHLUMBERGER	21
TECHNIP	8	CAMERON	1
		Total POB :	97

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
DIESEL	m3	5.00	114.00	BARITE BULK	MT		5.00
GEL, FRESH	MT		3.00	CEMENT	MT		5.00
WATER, POTABLE	MT	38.00	413.00	WATER, DRILLING	MT	55.00	170.00
HELI FUEL	ltrs	215.00	3,093.00	CEMENT HTB	MT		1.00
BRINE	m3	735.00	522.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	In Portland		
Invincible Tide	Standby at rig.		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
129.30	19.30	1.800	3.700				15.90

REMARKS

Woodside Energy

Daily Operations Report

Well: THA04

Report No.#: 42			Report Date: 23/09/2006
Block: T/L2	Rig: Maersk Guardian	Water Depth(m): 99.30	Start Date: 17/03/2006

No accidents or incidents over past 24hrs.

While flowing and cleaning up THA04, continued pressure testing BOP's on the stump. Stump seal leaking. Lifted BOP and changed stump seal.
Pressure tested kill manifold to 1.72 / 27.6 MPa (250 / 4000psi) for 5 / 10 minutes.
Pressure tested choke manifold to 1.72 / 27.6 MPa (250 / 4000psi) for 5 / 10 minutes.
Pressure tested standpipe manifold to 1.72 / 27.6 MPa (250 / 4000psi) for 5 / 10 minutes.
Pressure tested Annular preventer to 1.72 / 24.1 MPa (250 / 3500psi) for 5 / 10 minutes.
Pressure tested pipe rams, shear rams and HCR's to 1.72 / 27.6 MPa (250 / 4000psi) for 5 / 10 minutes.

Made preparations to skid cantilever over THA02.

Weather Forecast: Max HS peaked at 8m on Saturday 23/09/06, now decreasing, and forecast to decrease steadily to <3m by Tuesday 26/09/06 PM.
Winds forecast to remain between 30 and 35kn with gusts of >45kn until Sunday 24/09/06, then decreasing to <20kn, with gusts of 25kn from Monday 25/09/06 through to Wednesday 27/09/06.

Continued bleeding down 20" pipeline pressure after pigging operation via pig launcher.

THA02 'A' annulus: 23:00hrs - 11900KPa.
Note: at 03:00hrs 24/09/06, bled-off THA-02 'A' annulus to 480kpa (70psi) in preparation for workover procedure.

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 43 **Report Date: 24/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

DOL:	41.46	MD (m):	3,987.00	Day WSM:	Stuart Job
DFS:	41.26	Planned Depth (m):	4,250.00	Night WSM:	Andy Banks
Budget Days:	52.40	TVD (m):	2,353.80	Rig OIM:	Lars Lovenholdt
Progress Days:	52.40	Progress (m):	0.00	RT-SL (m):	50.50

AFE Cost: 34,382,567.00 ($)

Cumulative Total: 25,792,255.00 ($)

Ops 00:00 to 06:00 :

Ops Summary : Cont flowing well through separator. Took 2nd set samples. Inc choke to 64/64" for max rate. Produced debris. Shut-in well. Onshore team advised no further flowing. Bled off pressure. Flushed lines. Rigged down and prep to handover well to production.

Ops Look Ahead :

From	Dur. (hr)	Phase	Code	Class	Operation
0:00	1.00	CU	WFL	P	Continued to flow well through separator on 56/64" choke. Surging occuring through separator, and gas flare could not be lit. Completed oilphase sampling at 00:25hrs. Instruction from town to increase choke to 64/64" to obtain maximum flowrate. Increased choke at 00:48hrs. Debris at the adjustable choke at 01:00hrs - metal heard flowing along flowlines. Maximum flowrate with 64/64" choke 0.476 million std m3/day (28MM scfd). Final data on 56/64" choke. BSW 30% THP 11.85 MPa (1719psi) BHP 14.58 MPa (2115psi) Flowrate 0.313million std m3/day (18.43MMscfd) CO2 2% H2S 1 ppm
1:00	1.00	CU	WFL	P	Shut in well at WTCM due to excessive debris entering separator. Sent final data to onshore team for analysis. Skidded cantilever over THA02.
2:00	3.00	CU	PCD	P	Closed TRSV and UMGV. Bled-off pressure through WTCM to starboard burner. Flushed lines from cement unit to Xmas tree and through all well test equipment with seawater. When all hydrocarbons were removed, flushed lines again to freshwater.
5:00	1.00	SW	RUD	P	Closed swab valve. Rigged down well test lines and slickline pump-in tee. Installed tree cap and commenced pressure testing xmas tree. Note: Final report for THA04.

HOLE SECTIONS

Section	MD Top (m)	MD Base (m)	OD of prev. Csg (in)	MD of prev Csg.shoe (m)	Pilot Hole	Section Type	Effective Hole Diameter (in)
762mm (30") Top Hole	50.00	217.00	9.625	2,743.00	N	Casing	30.000
584mm (23")	217.00	638.00	26.000	217.00		Casing	23.000
311mm (12 1/4")	638.00	2,751.00	18.625	633.00		Casing	12.250
216mm (8-1/2")	2,751.00	3,985.00	9.625	2,742.90		Casing	8.500

DRILLING FLUIDS

Mud Type	Density (kg/m³)	PV (cp)	YP (lbf/100ft²)	6RPM (°)	Pump Liners (in)
Brine	1150				

CASING

Last Casing:	Next Casing:	Last BOP: 23/09/2006 12:00:00AM

BITS TODAY

Bit No.	Size (mm)	Manufacturer	Model No.	Class	IADC Code	Serial No.	Jets (32nd")	MD In (m)	MD Out (m)	I-O-D-L-B-G-O-R

Woodside Energy
Daily Operations Report
Well: THA04

Report No.#: 43 **Report Date: 24/09/2006**

Block: T/L2 **Rig: Maersk Guardian** **Water Depth(m): 99.30** **Start Date: 17/03/2006**

BIT OPERATIONS

TODAY											CUMULATIVE		
MD (m)	WOB Min/Max (kip)	Current RPM (rpm)	Flow Rate (gpm)	SPP (psi)	P Bit (psi)	% @ Bit	HHP (hhp)	Hours (hr)	Footage (m)	ROP (m/hr)	Hours Cum (hr)	Footage Cum (m)	ROP Cum (m/hr)

OHSE Report

			Daily	Cumulative
LTI's:	0	Incident Reports	0.00	4.00
DSLTI		Stop/Start Cards	13.00	302.00
TRCs:	0	Stop/Start Tours		0.00

Safety Comments

PERSONNEL DATA

Company	No. People	Company	No. People
_Others	2	GEOSERVICES	2
OMS	37	MAERSK	15
HALCO	2	WOODSIDE	8
BHDF	1	SCHLUMBERGER	21
TECHNIP	8	CAMERON	1
		Total POB :	97

MATERIALS

Product Name	Unit Size	Usage	Quantity End	Product Name	Unit Size	Usage	Quantity End
DIESEL	m3	12.00	102.00	HELI FUEL	ltrs	204.00	2,889.00
WATER, POTABLE	MT	59.00	391.00	WATER, DRILLING	MT	25.00	145.00
GEL, FRESH	MT		3.00	BARITE BULK	MT		5.00
BRINE	m3	426.00	96.00	CEMENT HTB	MT		1.00
CEMENT	MT		5.00				

SUPPORT CRAFT

Name	Comments	Arrival Date	Departure Date
Maersk Supporter	In Portland		
Invincible Tide	Standby at rig.		

WEATHER

Rig Heading (°)	10m Wind Spd (m/s)	Wave (m)	Swell (m)	Heave (m)	Pitch (°)	Roll (°)	Temperature (°C)
	17.49	2.900	4.500				9.40

REMARKS

No accidents or incidents over past 24hrs.
Held emergency fire and abandon rig drills with all personnel.
Held bi-weekly safety meetings with all crews. Schlumberger made presentation on chemical cutter operations.
Completed weekly inspection report for bulk storage area.

Weather Forecast: Max HS decreasing to <3m by Tuesday 26/09/06 PM, then b/n 3 and 4m through to Friday 29/09/06. Winds forecast to decrease to <20kn by PM Monday 25/09/06 through to Tuesday 26/09/06, then increase to 25kn on Wednesday.

Stopped bleeding down 20" pipeline pressure due to excessive noise on the platform - personnel unable to work on Xmas trees.

Completed pressure testing THA03 xmas tree. Handed over well to production.

LOT / FIT Data

THA04

Formation Integrity Test Data

Casing Data		Formation Integrity Test		
Shoe Depth	**Size**	**Depth**	**FIT**	**Mudweight in hole**
mMDRT	**mm (")**	**mMDRT**	**EMW (SG)**	**SG**
633	473mm (18.625")	641	2.36 **LOT***	1.25
2742.8	244mm (9.625")	2754	2.00	1.25

*Note: A LOT to 2.36SG was performed at this shoe in the Thylacine South well. Prior to kicking off and drilling ahead in THA04, an FIT to 2.0 SG was performed.

Mud Properties Table

MUD PROPERTIES

12.25 ’’ Interval

Date 2006	Section inch	Depth (m)	Mud Weight (sg)	Funnel Viscosity (sec/qt)	F.L. Temp °C	Plastic Viscosity cP	Yield Point lb/100ft²	Gels lb/ 100ft²	HTHP Fluid Loss	HTHP Filter Cake	Corrected Solids (% by vol)	Oil (% by vol)	Water (% by vol)	ES	Chlorides mg/l	Sand %	LGS %	HGS %	6 RPM	O/W ratio
10/08/06	12.25	633																		
11/08/06	12.25	633	1.25	76		38	20	9/14/15	3.4	2	12.9	58	27.5	280	141	0.25	6.76	6.12	9	68/32
12/08/06	12.25	1046	1.25	74	46	43	19	10/17/19	4.8	3	13.4	58.5	26.5	540	142	0.5	7.71	5.71	12	69/31
13/08/06	12.25	1652	1.25	76	66	43	29	13/19/21	2.8	2	14	59	25.5	581	144	0.5	8.66	5.3	13	70/30
14/08/06	12.25	2081	1.25	74	68	43	29	12/18/20	3.5	3	14	56	28	600	166	0.4	9.85	4.14	12	67/33
15/08/06	12.25	2392	1.25	74	78	45	26	13/21/24	3.5	3	15	59.5	23.5	740	188	0.25	11.39	3.65	13	72/28
16/08/06	12.25	2635	1.25	78	78	46	32	16/25/29	2.0	3	14.7	59.5	23.8	700	194	0.25	10.85	3.85	15	71/29
17/08/06	12.25	2751	1.25	76	78	41	31	15/25/28	3.2	3	14.4	60.5	23.0	820	199	.25	10.22	4.23	14	72/28

8.5 ’’ Interval

Date	Section inch	Depth (m)	Mud Weight (sg)	Funnel Viscosity (sec/qt)	F. L. Temp °C	6 / 3 RPM	PV / YP Cp / lb/100ft²	Gels lb/ 100ft²	HTHP Fluid Loss	HTHP Filter Cake	Water (% by Vol)	Oil (% by vol)	Corr Solids (% by vol)	ES	Cl mg/l	Sand %	LGS / HGS %	OWR
22/08/06	8.5	3031	1.25	89	79.0	16/14	49/36	16/28/32	2.8	3	22.5	61.5	14.5	771.0	158229	0.50	9.34/5.14	73:27
23/08/06	8.5	3194	1.26	92	-	16/14	52/34	17/27/34	3.5	3	25.0	58.5	14.8	753.0	157454	0.50	10.03/4.79	70:30
24/08/06	8.5	3253	1.25	82	68.0	13/11	40/27	12/24/26	3.0	3	24.0	60.0	14.4	688.0	158108	0.75	9.50/4.89	71:29
25/08/06	8.5	3639	1.25	88	70.0	15/13	45/30	15/28/30	3.8	3	23.0	61.0	14.4	804.0	166364	0.50	9.36/5.00	73:27
26/08/06	8.5	3987	1.25	74	69.0	10/9	35/25	12/18/22	3.7	3	21.5	62.5	14.3	963.0	177050	0.60	9.15/5.19	74:26
27/08/06	8.5	3987	1.25	78	63.0	10/8	37/25	12/18/22	3.4	3	21.0	62.5	15.0	1035.0	168687	0.50	10.20/4.77	75:25
28/08/06	8.5	3987	1.27	102	-	10/8	37/27	13/19/23	3.6	3	21.0	62.5	14.9	998.0	172783	0.5	8.94/5.99	75:25
29/08/06	8.5	3987	1.25	91	69.0	10/8	37/27	13/19/24	3.6	3	21.5	62.5	14.4	983.0	173068	0.4	8.86/5.52	74:26

Daily Geological Reports

CONFIDENTIAL

Date:	20th March 2006	**Last Casing:**	660 mm (26") @ 217.0 mMDRT
Report Number:	1	**LOT:**	N/A
Report Period:	0000-2400 Hours AEDT	**Mud Weight:**	N/A
Depth @ 2400 Hours:	217.0 mMDRT (217.0 mTVDRT)	**ECD:**	N/A
Lag Depth:	217.0 mMDRT	**Mud Type:**	Seawater / gel sweeps
Last Depth:	217.0 mMDRT (217.0 mTVDRT)	**Mud Chlorides:**	N/A
Progress:	0 m	**Est. Pore Press:**	1.05 sg (Normal)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	N/A
RT:	50.4 mLAT	**Deviation:**	N/A
			N/A
Bit Diameter:	584 mm (23")		

OPERATIONS SUMMARY

24 HOUR SUMMARY: *Installed and functioned diverter system – leaking between Maersk overshot and riser. Pull diverter, replaced connector seal and reinstalled diverter system. Open diverter and oil leaked onto Platform – replaced seals and successfully tested the diverter. Made up 584 mm (23") bottom hole assembly with motor and survey tool, ran in hole to 204 mMDRT and shallow tested tools.*

NEXT 24 HOURS: *Drill 584 mm (23") hole to section TD (circa +/- 625 mMDRT).*

CURRENT OPERATION @ 06:00 Hrs AEDT 21/03/2006: *Drilling ahead at 301 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

No new formation drilled.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)	CO2 (%)
-	-	-	-	-	-	-	-	-	-
Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**IC4 (%)**	**NC4 (%)**	**IC5 (%)**	**NC5 (%)**	**CO2 (%)**
-	-	-	-	-	-	-	-	-	-
Connection	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**IC4 (%)**	**NC4 (%)**	**IC5 (%)**	**NC5 (%)**	**CO2 (%)**
-	-	-	-	-	-	-	-	-	-
Trip	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**IC4 (%)**	**NC4 (%)**	**IC5 (%)**	**NC5 (%)**	**CO2 (%)**
-	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Pore Pressure	-
MWD Resistivity	-
Connection gas	-
Dxc exponent	-
Mud weight	-
ROP	-
Background gas	-
Trip Gas	-
Mud temperature out	-
Ditch cuttings	-

MUDLOGGING EQUIPMENT/PERSONNEL
2 x Data Engineers, Technician left rig today.
Torque and flow out sensors not yet functioning.

LWD
3 x MWD Engineers, 2 x Directional Drillers

No FEWD in hole – directional package only.

REMARKS
Nil

WELLSITE GEOLOGISTS
David Thornton / John Hobday

CONFIDENTIAL

Date:	21st March 2006	**Last Casing:**	660 mm (26") @ 217.0 mMDRT
Report Number:	2	**LOT:**	N/A
Report Period:	0000-2400 Hours AEDT	**Mud Weight:**	N/A
Depth @ 2400 Hours:	638.0 mMDRT (601.5 mTVDRT)	**ECD:**	N/A
Lag Depth:	638.0 mMDRT	**Mud Type:**	Seawater / gel sweeps
Last Depth:	217.0 mMDRT (217.0 mTVDRT)	**Mud Chlorides:**	N/A
Progress:	421 m	**Est. Pore Press:**	1.05 sg (Normal)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	602.04 mMDRT
RT:	49.8 mLAT	**Deviation:**	Incl: 3.46° Azi: 176.60°
Bit Diameter:	584 mm (23")		

OPERATIONS SUMMARY

24 HOUR SUMMARY: *Ran in hole tagging cement at 216.5 mMDRT. Drilled out cement and shoe track. Directionally drilled 23" hole (no mud losses) from 217 to 638 mMDRT (section TD). Drilled 249 m in rotary mode and 172 m in slide mode. Swept hole with 200bbls PHG and 500bbls of unweighted PHG/Drispac mud. Spotted 500bbls of 1.15SG KCl/Drispac mud on bottom. Conducted 10 minute flow check – negative. Pulled out of hole to 503 mMDRT.*

NEXT 24 HOURS: *Pull out of hole. Rig up to run, and run and cement 18 5/8" casing.*

CURRENT OPERATION @ 06:00 Hrs AEDT 22/03/2006: *Retrieve wear bushing.*

GEOLOGICAL SUMMARY

LITHOLOGY

Returns to Surface are being dumped at the sand traps.

INTERVAL: 217 to 226 mMDRT
ROP (range): 1.3 – 14.9 m/hr
Av ROP: 9.2 m/hr (controlled drilling out of shoe)

INTERVAL: 226 to 300 mMDRT
ROP (range): 7.6 – 78.3 m/hr
Av ROP: 43.7 m/hr

INTERVAL: 300 to 638 mMDRT
ROP (range): 1.3 – 37 m/hr
Av ROP: 14 m/hr

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)	CO2 (%)
NO GAS	-	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)	CO2 (%)
-	-	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)	CO2 (%)
-	-	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)	CO2 (%)
-	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Pore Pressure	- 1.05 sg
MWD Resistivity & Sonic	- N/A
Gas	- N/A
Dxc exponent	- Not valid in carbonate section
ROP	- Not valid in carbonate section
Mud temperature out	- N/A
Cavings	- N/A

MUDLOGGING EQUIPMENT/PERSONNEL
2 x Data Engineers. 1 x Mudlogger arriving today

Torque and flow out sensors not functioning – flow paddle will be installed today.
Gas System inoperative due to motor failure and insufficient warning of the requirement to monitor Gas in the 23" hole section. Gas motor to be changed-out today.
Hook-load circuit board will be replaced tomorrow by backup from town – hook-load currently working through auxiliary system.

LWD
3 x MWD Engineers, 2 x Directional Drillers.

No FEWD in hole – directional package only in 26" hole section.

Sperry have ordered optical cable to run to Company Man's Office (for Company Man's Work Station).
WITS cable ordered to connect to Geoservices Unit (allowing WITS transfer of Drill Data to Insight).

WIRELINE LOGGING
Need to make deck room to spot Wireline Unit.

REMARKS
THA04 reached a total depth of 638 mMDRT at 22:00 hours on the 21/03/06 (23" hole section).

WELLSITE GEOLOGISTS
David Thornton / John Hobday

CONFIDENTIAL

Date:	22nd March 2006	**Last Casing:**	473 mm (18-5/8") @ 633.0 mMDRT
Report Number:	3	**LOT:**	N/A
Report Period:	0000-2400 Hours AEDT	**Mud Weight:**	N/A
Depth @ 2400 Hours:	638.0 mMDRT (637.4 mTVDRT)	**ECD:**	N/A
Lag Depth:	638.0 mMDRT	**Mud Type:**	KCl-Drispac spotted on bottom
Last Depth:	638.0 mMDRT (637.4 mTVDRT)	**Mud Chlorides:**	N/A
Progress:	0 m	**Est. Pore Press:**	1.05 sg (Normal)
Water Depth:	99.5 mLAT	**Last Survey Depth:**	602.04 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 3.46° Azi: 176.60°
Bit Diameter:	584 mm (23")		

OPERATIONS SUMMARY

24 HOUR SUMMARY: *Pulled out of hole (9T (20klbs) overpull at 293 mMDRT) and worked htrough tight section. Continued to pull out of hole racking back the bottom hole assembly. Laid out 584mm (23") stabiliser and drill collars. Unable to rotate while attempting to retrieve wear bushing. Retrieved wear bushing with 12T (26klbs) overpull. Retrieved diverter and riser. Inspected and repaired minor damage to sliplock housing. Rigged up to run 473mm (18-5/8") casing. Picked up shoe joint, and ran in hole with 473mm (18-5/8") casing to 370 mMDRT.*

NEXT 24 HOURS: Run and *cement casing. Nipple up compact housing wellhead, blow out preventer and riser.*

CURRENT OPERATION @ 06:00 Hrs AEDT 23/03/2006: *Racking back casing running tool.*

GEOLOGICAL SUMMARY

LITHOLOGY

No New Formation Drilled.

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Pore Pressure	- 1.05 sg
MWD Resistivity & Sonic	- N/A
Gas	- N/A
Dxc exponent	- Not valid in carbonate section
ROP	- Not valid in carbonate section
Mud temperature out	- N/A
Cavings	- N/A
Comments	Pore Pressure Predictions, in the 311mm (12 ¼") hole section, will be based on the sonic log (Eaton Ratio Method). This will enable quantitative values of pore pressure to be computed while drilling.

MUDLOGGING EQUIPMENT/PERSONNEL

2 x Data Engineers. 1 x Mudlogger onboard. Additional Mudlogger and 2 x Samples Catchers to arrive today

Electrician checked and rewired Torque sensor – will be tested when rotary is in use.
Flow paddle wired and tested OK – will be mounted today.
Gas System is now operative and has been calibrated.
Hook-load circuit board will be replaced today by backup from town – hook-load currently working through auxiliary system.
Two more boxes of Isotubes have been ordered (50 tubes in total).
Note: 50 isotubes are all ready onboard.

LWD
3 x MWD Engineers, 2 x Directional Drillers.

Sperry-Sun have ordered optical cable to run to Company Man's Office (for Company Man's Work Station). WITS cable ordered to connect to Geoservices Unit (allowing WITS transfer of Drill Data to Insight). Both will arrive today.
Primary 311mm (12 ¼") MWD/LWD tool string tested – OK.
Remainder of Backup String to arrive on Saturday – will test 3 of the 7 backup tools which are on board today.
Backup Geopilot will not arrive until Saturday.

WIRELINE LOGGING
Brackets for Wireline Unit will be welded onto the deck today.

REMARKS
Note: RT and Water Depth in header have been changed, based on tagging seafloor at 150 mMDRT.

WELLSITE GEOLOGISTS
David Thornton / John Hobday

CONFIDENTIAL

Date:	23rd March 2006	**Last Casing:**	473 mm (18-5/8") @ 633.0 mMDRT
Report Number:	4	**LOT:**	N/A
Report Period:	0000-2400 Hours AEDT	**Mud Weight:**	N/A
Depth @ 2400 Hours:	638.0 mMDRT (637.4mTVDRT)	**ECD:**	N/A
Lag Depth:	638.0 mMDRT	**Mud Type:**	KCl-Drispac on bottom
Last Depth:	638.0 mMDRT (637.4.0 mTVDRT)	**Mud Chlorides:**	N/A
Progress:	0 m	**Est. Pore Press:**	1.05 sg (Normal)
Water Depth:	99.5 mLAT	**Last Survey Depth:**	602.04 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 3.46° Azi: 176.60°
Bit Diameter:	584 mm (23")		

OPERATIONS SUMMARY

24 HOUR SUMMARY: *Ran 473mm (18 5/8") casing to 600 mMDRT and picked up hanger joint and running tool. Landed hanger in sliplock housing and pressure tested seals. Laid out casing and hanger running tools and ran in hole to 578 mMDRT with cement stinger. Made up AGE packer and ran in hole to 611 mMDRT. Broke circulation prior to stabbing into float shoe. Energised packer and pressure tested below packer. Cemented casing as per programme. Bled off pressure below AGE packer forcing drill pipe upwards and causing drill pipe to buckle. Rigged down cementing equipment and stung out of shoe, resulting in upward motion again bucking the string. Pulled out of hole with two joints of bent drill pipe.*

NEXT 24 HOURS: *Complete nippling up and testing of well-head. Nipple up riser and BOP.*

CURRENT OPERATION @ 06:00 Hrs AEDT 24/03/2006: *Nippling up well-head valves.*

GEOLOGICAL SUMMARY

LITHOLOGY

No New Formation Drilled.

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Pore Pressure	- 1.05 sg
MWD Resistivity & Sonic	- N/A
Gas	- N/A
Dxc exponent	- Not valid in carbonate section
ROP	- Not valid in carbonate section
Mud temperature out	- N/A
Cavings	- N/A
Comments	Pore Pressure Predictions, in the 311mm (12 ¼") hole section, will be based on the sonic log (Eaton Ratio Method). This will enable quantitative values of pore pressure to be computed while drilling.

MUDLOGGING EQUIPMENT/PERSONNEL
2 Data Engineers and 2 Mudloggers are onboard.

2 Sample catchers arrived on rig yesterday, but were flown back to shore due to lack of accommodation on rig. The two sample catchers will arrive this morning.
Data Engineer Crew Change: Daniel Van der Aa off and Thanh Son Nguyen on.

Electrician checked and rewired Torque sensor yesterday – will be tested when rotary is in use.
Gas System is now operative and has been calibrated – including secondary backup unit.

LWD
3 MWD Engineers and 2 Directional Drillers are onboard.

Sperry has ordered optical cable to run to Company Man's Office (for Company Man's Work Station). WITS cable ordered to connect to Geoservices Unit (allowing WITS transfer of Drill Data to Insight). Both should arrive today.

The remaining Backup tools require ancillary equipment only. The primary string ancillary equipment can be reused in the event of a failure.
Back-up string has been successfully tested using primary tool ancillary equipment.
Backup Geopilot should arrive on Saturday.

WIRELINE LOGGING
Wireline Unit spotted on deck yesterday - will be rigged up over the next few days. Communications will also be installed in unit today.

REMARKS
The mud pits are currently being integrity tested prior to transferring oil based mud.

WELLSITE GEOLOGISTS
David Thornton / John Hobday

CONFIDENTIAL

Date:	24th March 2006	**Last Casing:**	473 mm (18-5/8") @ 633.0 mMDRT
Report Number:	5	**LOT:**	N/A
Report Period:	0000-2400 Hours AEDT	**Mud Weight:**	N/A
Depth @ 2400 Hours:	638.0 mMDRT (637.4mTVDRT)	**ECD:**	N/A
Lag Depth:	638.0 mMDRT	**Mud Type:**	KCl-Drispac on bottom
Last Depth:	638.0 mMDRT (637.4 mTVDRT)	**Mud Chlorides:**	N/A
Progress:	0 m	**Est. Pore Press:**	1.05 sg (Normal)
Water Depth:	99.5 mLAT	**Last Survey Depth:**	602.04 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 3.46° Azi: 176.60°
Bit Diameter:	584 mm (23")		

OPERATIONS SUMMARY

24 HOUR SUMMARY: *Pulled out of hole with cementing string. Ran, landed and nippled up compact well head. Pressure tested seals and confirmed RT to wellhead measurement. Operations on Thylacine South-1 officially commenced at 10:00 hrs on March 24 with the running of the Cameron high pressure riser. Ran Cameron high pressure riser and nippled up BOP. Made up diverter onto ball joint overshot.*

NEXT 24 HOURS: *Pressure test casing and well-head. Complete welding low pressure riser while picking up drill pipe. Nipple up low pressure riser and diverter.*

CURRENT OPERATION @ 06:00 Hrs AEDT 25/03/2006: *Repairing leak on well-head control valve.*

GEOLOGICAL SUMMARY

LITHOLOGY

No New Formation Drilled.

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Pore Pressure	- 1.05 sg
MWD Resistivity & Sonic	- N/A
Gas	- N/A
Dxc exponent	- Not valid in carbonate section
ROP	- Not valid in carbonate section
Mud temperature out	- N/A
Cavings	- N/A
Comments	Pore Pressure Predictions, in the 311mm (12 ¼") hole section, will be based on the deep Resistivity log (Eaton Ratio Method). This will enable quantitative values of pore pressure to be computed while drilling. Note: The Sonic log is in recorded mode only.

MUDLOGGING EQUIPMENT/PERSONNEL

2 Data Engineers, 2 Mudloggers and 2 Sample Catchers are onboard.

Electrician checked and rewired Torque sensor yesterday – will be tested when rotary is in use.
Mud pits all calibrated and ready for oil based mud. Backup gas chromatograph columns are not working, ordered another in order to have a complete backup gas detection system.

LWD
3 MWD Engineers and 2 Directional Drillers are onboard.

Sperry will be installing the optical cable to the Company Man's Office (for Company Man's work station) today. The WITS cable will also be installed today with Geoservices personnel support. The WITS cable will connect the Geoservices and Sperry Units allowing WITS transfer of Drill Data to Insight Anywhere.

The backup Geopilot will arrive today.

WIRELINE LOGGING
Wireline Unit spotted on deck yesterday - will be rigged up over the next few days. Communications have been installed in the unit and Darrel Krammer has left the rig.

REMARKS
Pits 5/6 are currently being investigated for a leaking equalisation valve.

Officially commenced Thylacine South-1 at 10:00 hours on Friday the 24th March, 2006. Thylacine South-1 Operations commenced with the running of the Cameron High Pressure Riser. This was the first operation designated for Thylacine South-1.

WELLSITE GEOLOGISTS
David Thornton / John Hobday

CONFIDENTIAL

Date:	10th August 2006	**Last Casing:**	473 mm (18⅝") @ 633.0 mMDRT
Report Number:	06	**FIT:**	
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.24 sg
Depth @ 24:00 Hrs:	638.0 mMDRT (637.42 mTVDRT)	**ECD:**	Not pumping
Lag Depth:	638.0 mMDRT	**Mud Type:**	No displacement
Last Depth:	638.0 mMDRT (637.42 mTVDRT)	**Temperature**	N/A
		Mud Chlorides:	N/A
Progress:	0 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	602.04 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 3.46°
Bit Diameter:	311 mm (12¼")		Azi: 176.60°

OPERATIONS SUMMARY

24 HOUR SUMMARY: *Skidded to THA04. Installed high pressure riser. Made up and ran 340 mm (13 3/8") dummy casing hanger on HWDP. Nippled up BOP and high pressure riser and pressure tested. Skidded the rig to centralize over well, made up BOP test tool and ran in hole.*

MIDNIGHT TO 06:00 Hrs SUMMARY: *Pressure test BOP.*

NEXT 24h Hrs: *Pressure test casing and wellhead. Complete welding low pressure riser whilst picking up drill pipe. Nipple up low pressure riser and diverter. Make up and run in hole with 311 mm (12¼") bottom hole assembly.*

CURRENT OPERATION @ 06:00 Hrs AEST 11/07/06: *Making up diverter.*

GEOLOGICAL SUMMARY

LITHOLOGY

No new section drilled.

HYDROCARBON FLUORESCENCE

No new section drilled.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
None	-	-	-	-	-	-	-	-	-
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

- Sensor to bit distances – TBA.

REMARKS

Operations on THA04 recommenced at 14:00 hrs on August 10, 2006. THA04 and Thylacine South-1 (abandoned) utilise the same surface hole. This report forms DGR06 for THA04 which follows on from DGR05 (March 24, 2006) for THA04/Thylacine South-1.

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	11th August 2006	**Last Casing:**	473 mm (18⅝") @ 633.0 mMDRT
Report Number:	07	**FIT:**	N/A
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	638.0 mMDRT (637.42 mTVDRT)	**ECD:**	1.22
Lag Depth:	638.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	638.0 mMDRT (637.42 mTVDRT)	**Temperature**	40 °C
		Mud Chlorides:	140,812 mg/l
Progress:	0 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	602.04 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 3.46°
Bit Diameter:	311 mm (12¼")		Azi: 176.60°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Pressure test BOP pipe rams and annular, installed diverter, slipped and cut line. Made up and ran in hole with 311 mm (12¼") bit and LWD tools. Tagged cement at 602.5 mMDRT, completed sealing flowline.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Displaced to synthetic based mud, began to drill out cement and shoe.*
NEXT 24h Hrs:	*Drill out cement. Drill 311 mm (12¼") hole to section TD.*
CURRENT OPERATION @ 06:00 Hrs AEST 12/07/06:	*Drilling 311 mm (12¼") through cement at 638 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

No new section drilled.

HYDROCARBON FLUORESCENCE

No new section drilled.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
None	-	-	-	-	-	-	-	-	-
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.22 sg
Connection gas	Nil
Trip gas	Nil
Background gas	Nil
Dxc exponent	Nil
ROP	N/A
Ditch cuttings	Cement only
Mud temperature out	40 °C
MWD Res/sonic	No evidence of overpressure

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Pressure While Drilling (PWD)	16.06
Resistivity (EWR-P4)	13.56
Gamma (DGR)	11.21
Directional (DM)	8.69
Gamma at Bit (ABG)	1.72

REMARKS

- None

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	12th August 2006	**Last Casing:**	473 mm (18⅝") @ 633.0 mMDRT
Report Number:	08	**LOT:**	2.36sg EMW @ 633 mMDRT (Thylacine South-1)
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	1046.0 mMDRT (1006.57 mTVDRT)	**ECD:**	1.29 sg
Lag Depth:	1210.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	638.0 mMDRT (637.42 mTVDRT)	**Temperature**	46 °C
		Mud Chlorides:	142,455 mg/l
Progress:	408 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	1209.13 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 32.85°
Bit Diameter:	311 mm (12¼")		Azi: 194.31°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Displaced to synthetic based mud, dressed off cement plug to 650 mMDRT. Kicked off cement plug and directionally drilled 311 mm (12¼") hole to 1046 mMDRT.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Drilled 311 mm (12¼") hole from 1046 to 1223 mMDRT.*
NEXT 24h Hrs:	*Drill 311 mm (12¼") hole to section TD.*
CURRENT OPERATION @ 06:00 Hrs AEST 13/07/06:	*Drilling 311 mm (12¼") hole at 1223 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 638 to 655 mMDRT
ROP (range): 2.8 to 35 m/hr
Av ROP: 13 m/hr
CALCILUTITE
CALCILUTITE (100%): light olive grey, off white, very soft to soft, blocky, amorphous, 10% quartz clay, trace broken coral fragments.

INTERVAL: 655 to 820 mMDRT
ROP (range): 5.9 to 78 m/hr
Av ROP: 42 m/hr
Interbedded CALCILUTITE and CALCAREOUS CLAYSTONE
CALCILUTITE (30 to 70%): light olive grey, off white, very soft to soft, blocky, amorphous, 10% quartz clay, trace broken coral fragments.
CALCAREOUS CLAYSTONE (30 to 70%): light olive grey to medium olive grey, soft to occasionally firm, blocky, 30% calcareous clay, 5% quartz silt, trace carbonaceous specks and material.

INTERVAL: 820 to 1210 mMDRT
ROP (range): 11.5 to 84 m/hr
Av ROP: 66 m/hr
CALCAREOUS CLAYSTONE interbedded with CALCILUTITE
CALCAREOUS CLAYSTONE (40 to 100%): light olive grey to olive grey, minor medium dark grey, soft to firm, blocky, 30% calcareous clay, 5% quartz silt, trace carbonaceous specks and laminations, trace glauconite, trace disseminated pyrite.
CALCILUTITE (Trace to 60%): light olive grey, off white, very soft to soft, blocky, amorphous, 10% quartz clay, trace broken coral fragments, trace lithic fragments.

HYDROCARBON FLUORESCENCE

No hydrocarbon shows observed.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
638 to 655	0.00 – 0.00 (0.00)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.0
655 to 820	0.00 – 0.20 (0.10)	0.010	Tr	Tr	Tr	Tr	Tr	Tr	0.0
820 to 1210	0.00 – 0.00 (0.00)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	Nil
Trip gas	Nil
Background gas	0.00 to 0.02%
Dxc exponent	Normal compaction trend.
ROP	5.9 to 85 m/hr (60 m/hr ave) – varies with lithology
Ditch cuttings	Normal cuttings seen at the shakers
Mud temperature out	46 °C
MWD Res/sonic	No evidence of overpressure

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Pressure While Drilling (PWD)	16.06
Resistivity (EWR-P4)	13.56
Gamma (DGR)	11.21
Directional (DM)	8.69
Gamma at Bit (ABG)	1.72

REMARKS

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	13th August 2006	**Last Casing:**	473 mm (18⅝") @ 633.0 mMDRT
Report Number:	09	**FIT:**	2.36sg EMW @ 633 mMDRT (Thylacine South-1)
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	1652.0 mMDRT (1517.74 mTVDRT)	**ECD:**	1.30 sg
Lag Depth:	1760.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	1046.0 mMDRT (1006.57 mTVDRT)	**Temperature**	66 °C
		Mud Chlorides:	144,224 mg/l
Progress:	606 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	1758.40 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 32.33°
Bit Diameter:	311 mm (12¼")		Azi: 194.83°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Directionally drilled 311 mm (12¼") hole to 1652 mMDRT.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Drilled 311 mm (12¼") hole from 1652 to 1767 mMDRT.*
NEXT 24h Hrs:	*Drill 311 mm (12¼") hole to section TD.*
CURRENT OPERATION @ 06:00 Hrs AEST 14/07/06:	*Drilling 311 mm (12¼") hole at 1767 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 1210 to 1270 mMDRT
ROP (range): 7.58 to 80.6 m/hr
Av ROP: 48.7 m/hr
CALCAREOUS CLAYSTONE interbedded with CALCILUTITE
CALCAREOUS CLAYSTONE (90%): olive grey to minor light olive grey, medium dark grey in parts, soft to firm, blocky, 30% calcareous clay, 5% quartz silt, trace carbonaceous specks.
CALCILUTITE (10%): light olive grey, off white, very soft to soft, blocky, amorphous, 10% quartz clay, trace broken coral fragments.

INTERVAL: 1270 to 1345 mMDRT
ROP (range): 1.7 to 77.1 m/hr
Av ROP: 40.0 m/hr
CALCILUTITE interbedded with CALCAREOUS CLAYSTONE
CALCILUTITE (20 to 80%): light olive grey, light green grey, off white, very soft to soft, blocky, amorphous, 10% quartz clay, trace broken coral fragments, trace glauconite.
CALCAREOUS CLAYSTONE (20 to 80%): olive grey to minor light olive grey, medium dark grey in parts, soft to firm, blocky, 30% calcareous clay, 5% quartz silt, trace carbonaceous specks.

INTERVAL: 1345 to 1560 mMDRT
ROP (range): 1.6 to 87 m/hr
Av ROP: 59 m/hr
SANDSTONE interbedded with SILTY CLAYSTONE
SANDSTONE (Trace to 60%): clear, translucent, yellow grey, loose to friable, fine to very coarse, dominantly fine to medium, trace granular, poor to moderately sorted, angular to subrounded, slightly elongate to slightly spherical, trace pyrite cement, trace lithic fragments, trace pyrite and glauconite nodules, good inferred porosity.
SILTY CLAYSTONE (40 to 100%): dark grey to grey black, brown black, olive black, very soft to firm, amorphous to blocky, 20% quartz silt, trace carbonaceous material, trace lithic fragments, trace glauconite.

INTERVAL: 1560 to 1606 mMDRT
ROP (range): 4.1 to 86 m/hr
Av ROP: 64 m/hr
Massive SANDSTONE with minor SILTY CLAYSTONE
SANDSTONE (95 to 100%): clear to translucent, yellowish grey, dominantly loose, trace very hard pyritic aggregates, fine to granular grains, poorly sorted, sub-angular to occasional rounded grains, predominantly sub-rounded, sub-elongated to sub-spherical, trace pyrite cement, trace coloured lithics, trace nodular pyrite, good inferred porosity.
SILTY CLAYSTONE (Trace to 5%): dark grey to grey black, brown black, olive black, very soft to firm, amorphous to blocky, 20% quartz silt, trace carbonaceous material, trace lithic fragments, trace glauconite.

INTERVAL: 1606 to 1644 mMDRT
ROP (range): 36 to 82 m/hr
Av ROP: 68 m/hr
Interbedded SILTY CLAYSTONE and SANDSTONE
SILTY CLAYSTONE (40 to 70%): brownish grey to brownish black, dark grey, rare dark reddish brown, soft to firm, blocky, 30% quartz silt, trace very quartz fine sand, multi-coloured lithics, trace carbonaceous specks.
SANDSTONE (30 to 60%): clear to translucent, frosted, yellowish grey, minor moderately reddish brown, loose, very fine to granular, predominantly medium to very coarse grains, poorly sorted, sub-angular to sub-rounded sub-elongated to sub-spherical, trace coloured lithics, good inferred porosity.

INTERVAL: 1644 to 1654 mMDRT
ROP (range): 8.7 to 71 m/hr
Av ROP: 40 m/hr
SANDSTONE interbedded with SILTY CLAYSTONE
SANDSTONE (40 to 70%): clear to translucent, frosted, yellowish grey, minor moderate reddish brown, opaque in parts, fine to granular, predominantly med to coarse grains, poorly sorted, sub-angular to sub-rounded, sub-elongated to sub-spherical, trace lithics, good inferred porosity.
SILTY CLAYSTONE (30 to 60%): brownish grey to brownish black, dark grey, rare dark reddish brown, soft to firm, blocky, 30% quartz silt, trace very fine quartz sand, multi-coloured lithics, trace carbonaceous specks.

INTERVAL: 1654 to 1760 mMDRT
ROP (range): 1.8 to 72.2 m/hr
Av ROP: 45.3 m/hr
Massive SILTY CLAYSTONE with trace SANDSTONE interbeds
SILTY CLAYSTONE (80 to 100%): dark grey to greyish black, soft to firm, blocky, 30% quartz silt, trace quartz sand, trace coloured lithics, trace carbonaceous specks, trace nodular and disseminated pyrite.
SANDSTONE (Trace to 20%): clear to translucent, frosted, yellowish grey, trace moderate reddish brown, opaque in parts, fine to granular, predominantly med to coarse grains, poorly sorted, sub-angular to sub-rounded, sub-elongated to sub-spherical, trace lithics, trace nodular pyrite, good inferred porosity.

HYDROCARBON FLUORESCENCE

No hydrocarbon fluorescence observed.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
1210 to 1270	0.02 – 0.10 (0.05)	0.039	0.001	Tr	0.002	0.000	0.000	0.000	0.0
1270 to 1345	0.02 – 0.10 (0.04)	0.031	0.001	Tr	0.002	0.000	0.000	0.000	0.0
1345 to 1560	0.01 – 0.10 (0.04)	0.026	0.001	Tr	0.002	0.000	0.000	0.000	0.0
1560 to 1606	0.01 – 0.03 (0.01)	0.004	0.001	Tr	0.002	0.000	0.000	0.000	0.0
1606 to 1644	0.00 – 0.01 (0.01)	0.001	Tr	0.000	0.001	0.000	0.000	0.000	0.0
1644 to 1654	0.00 – 0.02 (0.01)	0.002	0.001	Tr	0.001	0.000	0.000	0.000	0.0
1654 to 1760	0.00 – 0.04 (0.01)	0.002	Tr	Tr	0.000	0.000	0.000	0.000	0.0
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	Nil
Trip gas	Nil
Background gas	0.00 to 0.02%
Dxc exponent	Normal compaction trend.
ROP	1.7 to 87 m/hr (60 m/hr ave) varies with lithology.
Ditch cuttings	Normal cuttings seen at the shakers.
Mud temperature out	66 °C increasing with depth.
MWD Res/sonic	No evidence of overpressure.

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Pressure While Drilling (PWD)	16.06
Resistivity (EWR-P4)	13.56
Gamma (DGR)	11.21
Directional (DM)	8.69
Gamma at Bit (ABG)	1.72

REMARKS

Productive drilling, slowing only due to occasional thin pyritic stringers.

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	14th August 2006	**Last Casing:**	473 mm (18⅝") @ 633.0 mMDRT
Report Number:	10	**FIT:**	2.36sg EMW @ 633 mMDRT (Thylacine South-1)
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	2081.0 mMDRT (1881.3 mTVDRT)	**ECD:**	1.28 sg
Lag Depth:	2140.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	1652.0 mMDRT (1517.74 mTVDRT)	**Temperature**	68 °C
		Mud Chlorides:	166,632 mg/l
Progress:	429 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	2134.56 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 35.30°
Bit Diameter:	311 mm (12¼")		Azi: 162.86°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Directionally drilled 311 mm (12¼") hole to 2081 mMDRT.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Drilled 311 mm (12¼") hole from 2081 to 2143 mMDRT.*
NEXT 24h Hrs:	*Drill 311 mm (12¼") hole to section TD.*
CURRENT OPERATION @ 06:00 Hrs AEST 15/07/06:	*Drilling 311 mm (12¼") hole at 2143 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 1760 to 1896.5 mMDRT
ROP (range): 1.3 to 59.7 m/hr
Av ROP: 38.1 m/hr
Massive SILTY CLAYSTONE with trace to minor interbedded SANDSTONE
SILTY CLAYSTONE (90 to 100%): dark grey to greyish black, soft to firm, blocky, 30% quartz silt, trace quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace glauconite, occasional trace nodular and disseminated pyrite.
SANDSTONE (Trace to 10%): clear to translucent, frosted, yellowish grey, opaque in parts, loose, very fine to granular, dominantly fine to medium grains, poorly sorted, angular to sub-rounded, sub-elongated to sub-spherical, trace lithics, fair to good inferred porosity.

INTERVAL: 1896.5 to 1972 mMDRT
ROP (range): 9.1 to 52 m/hr
Av ROP: 43 m/hr
SILTY CLAYSTONE with minor interbedded SANDSTONE
SILTY CLAYSTONE (70 to 95%): dark grey to greyish black, soft to firm, blocky, 30% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace glauconite, occasional trace nodular and disseminated pyrite.
SANDSTONE (5 to 30%): clear to translucent, frosted, yellowish grey, opaque in parts, loose, very fine to granular, dominantly fine to medium, becoming dominantly very fine to fine grained with depth, occasional trace very coarse and granular, poorly sorted, angular to sub-rounded, sub-elongated to sub-spherical, trace lithics, occasional trace pyrite, fair to good inferred porosity.

INTERVAL: 1972 to 2143 mMDRT
ROP (range): 1.9 to 58.5 m/hr
Av ROP: 28.7 m/hr
Massive SILTY CLAYSTONE with minor interbedded SANDSTONE
SILTY CLAYSTONE (90 to 100%): dark grey to greyish black, soft to firm, blocky, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace glauconite, occasional trace nodular and disseminated pyrite.
SANDSTONE (Trace to 10%): clear to translucent, frosted, yellowish grey, opaque in parts, loose, very fine to granular, dominantly fine to medium grains, occasional trace very coarse and granular, poorly sorted, angular to sub-rounded, sub-elongated to sub-spherical, trace lithics, occasional trace pyrite, fair to good inferred porosity.

HYDROCARBON FLUORESCENCE

No fluorescence observed.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
1760 to 1896.5	0.01 – 0.11 (0.02)	0.022	Tr	Tr	Tr	Tr	Tr	Tr	0.0
1896.5 to 1972	0.01 – 0.06 (0.03)	0.024	Tr	Tr	Tr	0.000	0.000	0.000	0.0
1972 to 2140	0.01 – 0.32 (0.14)	0.123	0.003	0.001	0.001	Tr	Tr	0.000	0.0
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	Nil
Trip gas	Nil
Background gas	0.01 to 0.32%
Dxc exponent	Normal compaction trend.
ROP	1.3 to 72 m/hr (43 m/hr ave) varies with lithology.
Ditch cuttings	Normal cuttings seen at the shakers.
Mud temperature out	68 °C increasing with depth.
MWD Res/sonic	No evidence of overpressure.

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Pressure While Drilling (PWD)	16.06
Resistivity (EWR-P4)	13.56
Gamma (DGR)	11.21
Directional (DM)	8.69
Gamma at Bit (ABG)	1.72

REMARKS

- None

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	15th August 2006	**Last Casing:**	473 mm (18⅝") @ 633.0 mMDRT
Report Number:	11	**FIT:**	2.36sg EMW @ 633 mMDRT (Thylacine South-1)
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	2394.0 mMDRT (2118.87 mTVDRT)	**ECD:**	1.28 sg
Lag Depth:	2460.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	2081.0 mMDRT (1881.3 mTVDRT)	**Temperature**	78°C
		Mud Chlorides:	188,556 mg/l
Progress:	313 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	2452.99 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 55.25°
Bit Diameter:	311 mm (12¼")		Azi: 123.38°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Directionally drilled 311 mm (12¼") hole to 2394 mMDRT.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Drilled 311 mm (12¼") hole from 2394 to 2477 mMDRT.*
NEXT 24h Hrs:	*Drill 311 mm (12¼") hole to section TD.*
CURRENT OPERATION @ 06:00 Hrs AEST 16/07/06:	*Drilling 311 mm (12¼") hole at 2477 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 2143 to 2475 mMDRT
ROP (range): 1.8 to 72.2 m/hr
Av ROP: 33.5 m/hr
Massive SILTY CLAYSTONE
SILTY CLAYSTONE (100%): dark grey to greyish black, soft to firm, blocky, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace glauconite, occasional trace nodular and disseminated pyrite.

HYDROCARBON FLUORESCENCE

No fluorescence.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
2140 to 2475	0.02 – 0.56 (0.16)	0.127	0.003	0.001	0.001	Tr	Tr	Tr	0.0
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	Nil
Trip gas	Nil
Background gas	0.01 to 0.32%
Dxc exponent	Normal compaction trend.
ROP	1.8 to 72 m/hr (37 m/hr ave).
Ditch cuttings	Normal cuttings seen at the shakers.
Mud temperature out	78°C increasing with depth.
MWD Res/sonic	No evidence of overpressure.

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Pressure While Drilling (PWD)	16.06
Resistivity (EWR-P4)	13.56
Gamma (DGR)	11.21
Directional (DM)	8.69
Gamma at Bit (ABG)	1.72

REMARKS

- None

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	16th August 2006	**Last Casing:**	473 mm (18⅝") @ 633.0 mMDRT
Report Number:	12	**FIT:**	2.36sg EMW @ 633 mMDRT (Thylacine South-1)
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	2635.0 mMDRT (2245.53 mTVDRT)	**ECD:**	1.27 sg
Lag Depth:	2670.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	2394.0 mMDRT (2118.87 mTVDRT)	**Temperature**	78°C
		Mud Chlorides:	198,828 mg/l
Progress:	241 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	2653.94 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 69.24°
Bit Diameter:	311 mm (12¼")		Azi: 116.73°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Directionally drilled 311 mm (12¼") hole to 2635 mMDRT.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Drilled 311 mm (12¼") hole from 2635 to 2676 mMDRT.*
NEXT 24h Hrs:	*Drill 311 mm (12¼") hole to section TD.*
CURRENT OPERATION @ 06:00 Hrs AEST	*Drilling 311 mm (12¼") hole at 2676 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 2475 to 2670 mMDRT
ROP (range): 1.4 to 69.8 m/hr
Av ROP: 19.0 m/hr
Massive SILTY CLAYSTONE
SILTY CLAYSTONE (100%): dark grey to greyish black, soft to firm, blocky, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace glauconite, occasional trace nodular and disseminated pyrite.

HYDROCARBON FLUORESCENCE

No fluorescence.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
2475 to 2670	0.02 – 0.49 (0.19)	0.143	0.007	0.002	0.004	Tr	Tr	Tr	0.0
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	Nil
Trip gas	Nil
Background gas	0.02 to 0.49% (0.19% ave)
Dxc exponent	Normal compaction trend.
ROP	1.4 to 70 m/hr (19 m/hr ave).
Ditch cuttings	Normal cuttings seen at the shakers.
Mud temperature out	78°C increasing with depth.
MWD Res/sonic	No evidence of overpressure.

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Pressure While Drilling (PWD)	16.06
Resistivity (EWR-P4)	13.56
Gamma (DGR)	11.21
Directional (DM)	8.69
Gamma at Bit (ABG)	1.72

REMARKS

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	17th August 2006	**Last Casing:**	473 mm (18⅝") @ 633.0 mMDRT
Report Number:	13	**FIT:**	2.36sg EMW @ 633 mMDRT (Thylacine South-1)
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	2751.0 mMDRT (2282.04 mTVDRT)	**ECD:**	1.26 sg
Lag Depth:	2751.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	2635.0 mMDRT (2245.53 mTVDRT)	**Temperature**	78°C
		Mud Chlorides:	162,219 mg/l
Progress:	116 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	2740.73 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 74.87°
Bit Diameter:	311 mm (12¼")		Azi: 106.55°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Directionally drilled 311 mm (12¼") hole to 2751 mMDRT. Circulated hole clean.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Completed circulating hole clean, conducted flow check and pulled out of hole.*
NEXT 24h Hrs:	*Finish pulling out of hole, run 244mm (9⅝") casing.*
CURRENT OPERATION @ 06:00 Hrs AEST:	*Pulling out of hole.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 2670 to 2743.5 mMDRT
ROP (range): 1.4 to 25 m/hr
Av ROP: 9.2 m/hr
Massive SILTY CLAYSTONE
SILTY CLAYSTONE (100%): dark grey to greyish black, soft to firm, blocky, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace glauconite, occasional trace nodular and disseminated pyrite.

INTERVAL: 2743.5 to 2751 mMDRT
ROP (range): 16 to 36 m/hr
Av ROP: 31 m/hr
SANDSTONE and SILTY CLAYSTONE
SANDSTONE (Trace to 40%): clear to translucent, frosted, minor yellowish grey to off white, predominantly loose, minor firm aggregates, fine to coarse, dominantly medium grained, well to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 10% quartz silt, trace carbonaceous specks, trace pyrite nodules, trace glauconite, trace coloured lithics, fair inferred porosity.
SILTY CLAYSTONE (60 to 100%): dark grey to greyish black, soft to firm, blocky, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace glauconite, occasional trace nodular and disseminated pyrite.
*Silty Claystone probably lagged or caved from interval above.

HYDROCARBON FLUORESCENCE

No fluorescence.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
2670 to 2743.5	0.06 – 2.62 (0.18)	0.188	0.010	0.003	0.003	Tr	Tr	Tr	0.0
2743.5 to 2751	2.62 – 13.23 (8.37)	7.359	0.240	0.042	0.006	0.004	0.001	0.001	0.0
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
2751.0	13.321	7.463	0.254	0.046	0.006	0.004	0.001	0.001	0.0
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	Nil
Trip gas	Nil
Background gas	0.06 to 2.62% (0.18% ave).
Dxc exponent	Normal compaction trend.
ROP	1.4 to 36 m/hr (12 m/hr ave), varies with lithology.
Ditch cuttings	Normal cuttings seen at the shakers.
Mud temperature out	78°C increasing with depth.
MWD Res/sonic	No evidence of overpressure.

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- Crew change 1 x Data Engineer off/on, and 1 x Sample Catcher off/on.
- All equipment working.

LWD

Pressure While Drilling (PWD)	16.06
Resistivity (EWR-P4)	13.56
Gamma (DGR)	11.21
Directional (DM)	8.69
Gamma at Bit (ABG)	1.72

REMARKS

- None

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	18th August 2006	**Last Casing:**	473 mm (18⅝") @ 633.0 mMDRT
Report Number:	14	**FIT:**	2.36sg EMW @ 633 mMDRT (Thylacine South-1)
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	2751.0 mMDRT (2282.04 mTVDRT)	**ECD:**	No new hole drilled
Lag Depth:	2751.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	2751.0 mMDRT (2282.04 mTVDRT)	**Temperature**	No new hole drilled
		Mud Chlorides:	188,634 mg/l
Progress:	0 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	2740.73 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 74.87°
Bit Diameter:	311 mm (12¼")		Azi: 106.55°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Circulated hole clean. Conducted flow check and pulled out of hole. Layed out LWD tools.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Completed laying out LWD tools, pulled wear bushing, jetted well head, ran 244mm (9⅝") casing.*
NEXT 24h Hrs:	*Run 244mm (9⅝") casing.*
CURRENT OPERATION @ 06:00 Hrs AEST:	*Running 244mm (9⅝") casing.*

GEOLOGICAL SUMMARY

LITHOLOGY

No new hole drilled

HYDROCARBON FLUORESCENCE

No fluorescence.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
None	-	-	-	-	-	-	-	-	-
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	No new hole drilled
Trip gas	No new hole drilled
Background gas	No new hole drilled
Dxc exponent	No new hole drilled
ROP	No new hole drilled
Ditch cuttings	No new hole drilled
Mud temperature out	No new hole drilled
MWD Res/sonic	No new hole drilled

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Pressure While Drilling (PWD)	16.06
Resistivity (EWR-P4)	13.56
Gamma (DGR)	11.21
Directional (DM)	8.69
Gamma at Bit (ABG)	1.72

REMARKS

- None

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	19th August 2006	**Last Casing:**	473 mm (18⅝") @ 633.0 mMDRT
Report Number:	15	**FIT:**	2.36sg EMW @ 633 mMDRT (Thylacine South-1)
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	2751.0 mMDRT (2282.04 mTVDRT)	**ECD:**	No new hole drilled
Lag Depth:	2751.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	2751.0 mMDRT (2282.04 mTVDRT)	**Temperature**	No new hole drilled
		Mud Chlorides:	195,935 mg/l
Progress:	0 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	2740.73 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 74.87°
Bit Diameter:	311 mm (12¼")		Azi: 106.55°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Completed laying out LWD tools, pulled wear bushing, jetted well head, ran 244mm (9⅝") casing.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Run 244mm (9⅝") casing.*
NEXT 24h Hrs:	*Cement 244mm (9⅝") casing, run and set seal assembly and wear bushing. Make up 216 mm (8½") bit and BHA.*
CURRENT OPERATION @ 06:00 Hrs AEST:	*Circulating 244mm (9⅝") casing.*

GEOLOGICAL SUMMARY

LITHOLOGY

No new hole drilled

HYDROCARBON FLUORESCENCE

No fluorescence.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
None	-	-	-	-	-	-	-	-	-
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	No new hole drilled
Trip gas	No new hole drilled
Background gas	No new hole drilled
Dxc exponent	No new hole drilled
ROP	No new hole drilled
Ditch cuttings	No new hole drilled
Mud temperature out	No new hole drilled
MWD Res/sonic	No new hole drilled

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

REMARKS

- None

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	20th August 2006	**Last Casing:**	340 mm (13 3/8"") @ 2352.7 mMDRT
Report Number:	16	**FIT:**	2.36sg EMW @ 633 mMDRT (Thylacine South-1)
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	2751.0 mMDRT (2282.04 mTVDRT)	**ECD:**	No new hole drilled
Lag Depth:	2751.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	2751.0 mMDRT (2282.04 mTVDRT)	**Temperature**	No new hole drilled
		Mud Chlorides:	192,292 mg/l
Progress:	0 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	2740.73 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 74.87°
Bit Diameter:	311 mm (12¼")		Azi: 106.55°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Cemented 244mm (9⅝") casing, run and set seal assembly and wear bushing. Began to make up 216 mm (8½") bit and BHA.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Made up 216mm (8½") bottom hole assembly and ran in hole.*
NEXT 24h Hrs:	*Run in hole to top of cement, pressure test casing. Drill out cement and shoe track plus 3 metres of new hole, circulate hole clean. Perform FIT. Drill 216 mm (8½") hole.*
CURRENT OPERATION @ 06:00 Hrs AEST:	*Running in hole with 216 mm (8½") bit and BHA.*

GEOLOGICAL SUMMARY

LITHOLOGY

No new formation drilled.

HYDROCARBON FLUORESCENCE

No new formation drilled.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
None	-	-	-	-	-	-	-	-	-
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	No new hole drilled
Trip gas	No new hole drilled
Background gas	No new hole drilled
Dxc exponent	No new hole drilled
ROP	No new hole drilled
Ditch cuttings	No new hole drilled
Mud temperature out	No new hole drilled
MWD Res/sonic	No new hole drilled

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

REMARKS

- None

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	21st August 2006	**Last Casing:**	244 mm (9⅝") @ 2742.8 mMDRT
Report Number:	17	**FIT:**	2.0 sg EMW @ 2754 mMDRT
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.24 sg
Depth @ 24:00 Hrs:	2773.0 mMDRT (2286.95 mTVDRT)	**ECD:**	1.42 sg
Lag Depth:	2857.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	2751.0 mMDRT (2282.04 mTVDRT)	**Temperature**	79 °C
		Mud Chlorides:	170,114 mg/l
Progress:	22 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	2847.45 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 91.70°
Bit Diameter:	311 mm (12¼")		Azi: 103.25°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Ran in hole to top of cement (2715 mMDRT), pressure tested casing. Drilled out cement and shoe plus 3 metres new hole, circulated hole clean with SCRs (slow circulation rates). Performed FIT to 2.0 sg EMW. Drilled 216 mm (8½") hole to 2773 mMDRT.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Drilled 216 mm (8½") hole from 2773 to 2857 mMDRT.*
NEXT 24h Hrs:	*Drill 216 mm (8½") hole to TD.*
CURRENT OPERATION @ 06:00 Hrs AEST:	*Drilling 216 mm (8½") hole at 2857 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 2751 to 2815 mMDRT
ROP (range): 4.4 to 38 m/hr
Av ROP: 24 m/hr
SANDSTONE with interbedded SILTY CLAYSTONE
SANDSTONE (50 to 90%): clear to translucent, frosted, minor yellowish grey to off white, predominantly loose, minor firm aggregates, fine to coarse grains, dominantly medium, well to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 10% quartz silt, trace carbonaceous specks, trace pyrite nodules, trace glauconite, trace coloured lithics, fair to poor inferred and poor visual porosity.
SILTY CLAYSTONE (10 to 50%): white to off white, yellowish grey, light olive grey, dark grey to grey black, soft to firm, blocky, occasionally sub-fissile, 20% quartz silt, trace coloured lithics, trace carbonaceous specks and laminations, trace glauconite.

INTERVAL: 2815 to 2857 mMDRT
ROP (range): 8.9 to 47 m/hr
Av ROP: 25 m/hr
ARGILLACEOUS SANDSTONE with thinly interbedded SILTY CLAYSTONE
ARGILLACEOUS SANDSTONE (90 to 95%): clear to translucent, frosted, minor yellowish grey to off white, predominantly loose, minor firm aggregates, fine to coarse grains, dominantly medium, well to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace glauconite, trace coloured lithics, fair inferred and poor visual porosity.
SILTY CLAYSTONE (5 to 10%): light olive grey, dark grey to grey black, soft to firm, blocky, occasionally sub-fissile, 20% quartz silt, trace coloured lithics, trace carbonaceous specks and laminations, trace glauconite.

HYDROCARBON FLUORESCENCE

No fluorescence.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
2751 to 2815	1.16 – 13.32 (6.74)	5.825	0.176	0.029	0.004	0.003	0.002	0.000	0.0
2815 to 2857	3.20 – 13.46 (8.18)	6.964	0.240	0.043	0.005	0.005	0.002	0.001	0.0
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
2765.0	10.379	7.807	0.219	0.046	0.004	0.003	0.002	Tr	0.0
2769.0	11.268	9.014	0.255	0.041	0.010	0.010	0.004	Tr	0.0
2781.0	12.454	9.748	0.313	0.050	0.006	0.005	0.002	0.001	0.0
2818.0	11.549	6.827	0.254	0.044	0.005	0.005	0.002	0.001	0.0
2825.0	12.629	10.279	0.031	0.017	0.004	0.004	0.002	0.001	0.0
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.24 sg
Connection gas	Nil
Trip gas	Nil
Background gas	3.5%
Dxc exponent	Normal compaction trend.
ROP	4.1 to 34 m/hr (15 m/hr ave).
Ditch cuttings	Normal cuttings seen at the shakers.
Mud temperature out	79°C increasing with depth.
MWD Res/sonic	No evidence of overpressure.

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Pressure While Drilling	(PWD)	27.29
Porosity	(CTN)	24.38
Caliper	(ACAL)	23.53
Density	(ALD)	20.29
Resistivity	(EWR-P4)	12.89
Gamma	(DGR)	10.56
Directional	(DM)	8.02
Gamma at Bit	(ABG)	1.42

REMARKS

NOTE: Azimuth values in the 216 mm (8½") require correction by Sperry Sun in Alaska. The reported inclinations will not change, however, the reported azimuthal data will be subject to these corrections which will be supplied by Sperry Sun regularly throughout the day.

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	22nd August 2006	**Last Casing:**	244 mm (9⅝") @ 2742.8 mMDRT
Report Number:	18	**FIT:**	2.0 sg EMW @ 2754 mMDRT
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	3108.0 mMDRT (2245.83 mTVDRT)	**ECD:**	1.33 sg
Lag Depth:	3190.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	2773.0 mMDRT (2286.95 mTVDRT)	**Temperature**	79 °C
		Mud Chlorides:	158,229 mg/l
Progress:	335 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	3165.84 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 96.81°
Bit Diameter:	311 mm (12¼")		Azi: 104.34°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Drilled 216 mm (8½") hole to 3108 mMDRT.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Drilled 216 mm (8½") hole from 3108 to 3193 mMDRT.*
NEXT 24h Hrs:	*Drill 216 mm (8½") hole to TD.*
CURRENT OPERATION @ 06:00 Hrs AEST:	*Drilling 216 mm (8½") hole at 3193 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 2857 to 3109 mMDRT
ROP (range): 5.0 to 56 m/hr
Av ROP: 29 m/hr
ARGILLACEOUS SANDSTONE with thinly interbedded SILTY CLAYSTONE
ARGILLACEOUS SANDSTONE (60 to 95%): clear to translucent, frosted, yellowish grey to dark yellow brown, predominantly loose, minor firm aggregates, very fine to coarse grains, dominantly fine to medium, well to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks and laminae, trace glauconite, trace coloured lithics, fair inferred and poor visual porosity.
SILTY CLAYSTONE (5 to 40%): dark grey to grey black, soft to firm, blocky, occasionally sub-fissile, 20% quartz silt, trace coloured lithics, trace carbonaceous specks and laminations, trace glauconite.

INTERVAL: 3109 to 3182 mMDRT
ROP (range): 7.1 to 34.9 m/hr
Av ROP: 22.4 m/hr
SILTY CLAYSTONE with thinly interbedded SANDSTONE
SILTY CLAYSTONE (60 to 100%): dark grey to greyish black, soft to firm, blocky, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks.
SANDSTONE (Trace to 40%): clear to translucent, frosted, minor yellowish grey to off white, predominantly loose, minor firm aggregates, fine to coarse grains, dominantly medium, moderately to locally poor sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 15% quartz clay, trace carbonaceous specks, trace coloured lithics, fair inferred porosity.

INTERVAL: 3182 to 3190 mMDRT
ROP (range): 25.3 to 31.4 m/hr
Av ROP: 30.0 m/hr
ARGILLACEOUS SANDSTONE with thinly interbedded SILTY CLAYSTONE
ARGILLACEOUS SANDSTONE (60 to 95%): clear to translucent, frosted, yellowish grey to dark yellow brown, predominantly loose, minor firm aggregates, very fine to coarse grains, dominantly fine to medium, well to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks and laminae, trace glauconite, trace coloured lithics, fair inferred and poor visual porosity.
SILTY CLAYSTONE (5 to 40%): dark grey to grey black, soft to firm, blocky, occasionally sub-fissile, 20% quartz silt, trace coloured lithics, trace carbonaceous specks and laminations, trace glauconite.

HYDROCARBON FLUORESCENCE

No fluorescence.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
2857 to 3109	1.04 – 12.42 (7.24)	6.327	0.230	0.043	0.009	0.005	0.002	0.001	0.0
3109 to 3182	0.31 – 5.03 (1.07)	0.857	0.042	0.011	0.007	0.002	0.001	Tr	0.0
3182 to 3190	3.44 – 9.17 (6.74)	6.668	0.242	0.044	0.009	0.005	0.002	0.001	0.0
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
2878.0	12.41	8.565	0.271	0.051	0.006	0.006	0.002	0.001	0.0
2928.5	10.12	8.754	0.285	0.054	0.008	0.006	0.002	0.001	0.0
2952.0	7.60	6.463	0.227	0.040	0.007	0.005	0.002	0.001	0.0
2993.0	8.88	7.159	0.255	0.047	0.008	0.006	0.002	0.001	0.0
3023.0	10.09	8.689	0.319	0.062	0.011	0.008	0.002	0.001	0.0
3052.0	11.49	8.034	0.308	0.057	0.014	0.007	0.002	0.001	0.0
3185.0	9.47	8.074	0.296	0.052	0.010	0.006	0.002	0.001	0.0
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	Nil
Trip gas	Nil
Background gas	1.2%
Dxc exponent	Normal compaction trend.
ROP	5.0 to 55 m/hr (24 m/hr ave), varies with lithology.
Ditch cuttings	Normal cuttings seen at the shakers.
Mud temperature out	79°C increasing with depth.
MWD Res/sonic	No evidence of overpressure.

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Pressure While Drilling	(PWD)	27.29
Porosity	(CTN)	24.38
Caliper	(ACAL)	23.53
Density	(ALD)	20.29
Resistivity	(EWR-P4)	12.89
Gamma	(DGR)	10.56
Directional	(DM)	8.02
Gamma at Bit	(ABG)	1.42

REMARKS

- The density tool failed at 3013mMDRT. All other tools in LWD string working OK.

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	23rd August 2006	**Last Casing:**	244 mm (9⅝") @ 2742.8 mMDRT
Report Number:	19	**FIT:**	2.0 sg EMW @ 2754 mMDRT
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.26 sg
Depth @ 24:00 Hrs:	3194.0 mMDRT (2233.47 mTVDRT)	**ECD:**	1.34 sg
Lag Depth:	3194.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	3108.0 mMDRT (2245.83 mTVDRT)	**Temperature**	69 °C
		Mud Chlorides:	157,454 mg/l
Progress:	82 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	3165.84 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 96.81°
Bit Diameter:	311 mm (12¼")		Azi: 104.34°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Drilled 216 mm (8½") hole to 3194 mMDRT, MWD tool failure. Circulated hole clean, pulled out of hole. Off loaded replacement density/neutron tool from boat and commenced making up new bottom hole assembly.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Made up new 216 mm (8½") bottom hole assembly and commenced running.*
NEXT 24h Hrs:	*Continue running in hole, drill 216 mm (8½") hole to TD.*
CURRENT OPERATION @ 06:00 Hrs AEST:	*Running in hole with 216 mm (8½") drill assembly at 1268 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 3190 to 3194 mMDRT
ROP (range): 22.3 to 30.4 m/hr
Av ROP: 28.4 m/hr

ARGILLACEOUS SANDSTONE with thinly interbedded SILTY CLAYSTONE

ARGILLACEOUS SANDSTONE (80%): clear to translucent, frosted, yellowish grey to dark yellow brown, predominantly loose, minor firm aggregates, very fine to coarse grains, dominantly fine to medium, well to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks and laminae, trace glauconite, trace coloured lithics, fair inferred and poor visual porosity.

SILTY CLAYSTONE (20%): dark grey to grey black, soft to firm, blocky, occasionally sub-fissile, 20% quartz silt, trace coloured lithics, trace carbonaceous specks and laminations, trace glauconite.

HYDROCARBON FLUORESCENCE

No fluorescence.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
3190 to 3194	7.70 – 9.13 (8.69)	6.682	0.237	0.042	0.009	0.005	0.002	0.001	0.0
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.26 sg
Connection gas	Nil
Trip gas	Nil
Background gas	1.2%
Dxc exponent	Normal compaction trend.
ROP	7.1 to 34 m/hr (20 m/hr ave), varies with lithology.
Ditch cuttings	Normal cuttings seen at the shakers while drilling.
Mud temperature out	69°C increasing with depth.
MWD Res/sonic	No evidence of overpressure.

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Pressure While Drilling	(PWD)	27.29
Porosity	(CTN)	24.38
Caliper	(ACAL)	23.53
Density	(ALD)	20.29
Resistivity	(EWR-P4)	12.89
Gamma	(DGR)	10.56
Directional	(DM)	8.02
Gamma at Bit	(ABG)	1.42

REMARKS

- Lost communication with MWD tools at 3192mMDRT.
- At surface, the FEWD data could not be downloaded in the derrick. The data was successfully recovered after laying out the FEWD tools on the deck. No density data was recovered from 3008 to 3194 mMDRT.

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	24th August 2006	**Last Casing:**	244 mm (9⅝") @ 2742.8 mMDRT
Report Number:	20	**FIT:**	2.0 sg EMW @ 2754 mMDRT
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	3350.0 mMDRT (2220.88 mTVDRT)	**ECD:**	1.49 sg
Lag Depth:	3425.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	3194.0 mMDRT (2233.47 mTVDRT)	**Temperature**	68 °C
		Mud Chlorides:	158,108 mg/l
Progress:	156 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	3397.77 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 91.42°
Bit Diameter:	311 mm (12¼")		Azi: 97.62°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Ran in hole with bottom hole assembly and new LWD tools. Drilled 216 mm (8½") hole to 3350 mMDRT.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Drilled 216 mm (8½") hole from 3350 to 3437 mMDRT.*
NEXT 24h Hrs:	*Drill 216 mm (8½") hole to TD.*
CURRENT OPERATION @ 06:00 Hrs AEST:	*Drilling 216 mm (8½") hole at 3437 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 3194 to 3425 mMDRT
ROP (range): 2.9 to 32 m/hr
Av ROP: 27 m/hr

ARGILLACEOUS SANDSTONE with thinly interbedded SILTY CLAYSTONE
ARGILLACEOUS SANDSTONE (80 to 100%): clear to translucent, frosted, yellowish grey to dark yellow brown, predominantly loose, minor firm aggregates, very fine to coarse grains, dominantly fine to medium, poor to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and poor visual porosity.
SILTY CLAYSTONE (Trace to 20) light olive grey to olive grey, dark grey to greyish black, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace coloured lithics, trace carbonaceous specks and micro-laminations.

HYDROCARBON FLUORESCENCE

No fluorescence.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
3194 to 3425	2.11 – 11.83 (7.82)	6.690	0.253	0.050	0.009	0.006	0.002	0.001	0.0
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
3252	10.75	9.624	0.296	0.062	0.008	0.006	0.002	0.001	0.0
3278	10.85	8.811	0.349	0.069	0.008	0.006	0.002	0.001	0.0
3315	5.45	4.458	0.148	0.030	0.007	0.004	0.002	0.001	0.0
3330	8.25	7.086	0.263	0.050	0.010	0.006	0.001	0.001	0.0
3345	12.01	10.58	0.321	0.062	0.011	0.006	0.002	0.001	0.0
3367	9.02	7.308	0.297	0.063	0.011	0.008	0.003	0.001	0.0
3374	11.17	9.500	0.324	0.062	0.011	0.008	0.003	0.001	0.0
3377	10.05	8.649	0.351	0.072	0.012	0.009	0.003	0.001	0.0
3408	9.654	8.237	0.339	0.071	0.012	0.009	0.003	0.001	0.0
3419	9.469	8.007	0.322	0.066	0.011	0.008	0.003	0.001	0.0
3426	10.04	8.554	0.358	0.076	0.013	0.010	0.003	0.002	0.0
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
3194	0.45	0.382	0.012	0.003	0.001	Tr	0.001	Tr	0.0

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	Nil
Trip gas	0.45
Background gas	2.1 to 11.8%
Dxc exponent	Normal compaction trend.
ROP	2.9 to 32 m/hr (24 m/hr ave)
Ditch cuttings	Normal cuttings seen at the shakers while drilling.
Mud temperature out	68°C
MWD Res/sonic	No evidence of overpressure.

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.
- Crew change: 1 x Data Engineer off/on.

LWD

Caliper	(ACAL)	31.34
Pressure While Drilling	(PWD)	26.88
Porosity	(CTN)	24.02
Density	(ALD)	21.20
Resistivity	(EWR-P4)	13.85
Gamma	(DGR)	11.50
Directional	(DM)	8.96
Gamma at Bit	(ABG)	1.42

REMARKS

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	25th August 2006	**Last Casing:**	244 mm (9⅝") @ 2742.8 mMDRT
Report Number:	21	**FIT:**	2.0 sg EMW @ 2754 mMDRT
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	3697.0 mMDRT (2226.65 mTVDRT)	**ECD:**	1.54 sg
Lag Depth:	3785.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	3350.0 mMDRT (2220.88 mTVDRT)	**Temperature**	70°C
		Mud Chlorides:	166,364 mg/l
Progress:	347 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	3773.83 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 83.32°
Bit Diameter:	311 mm (12¼")		Azi: 95.40°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Drilled 216 mm (8½") hole to 3697 mMDRT.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Drilled 216 mm (8½") hole from 3697 to 3792 mMDRT.*
NEXT 24h Hrs:	*Drill 216 mm (8½") hole to TD.*
CURRENT OPERATION @ 06:00 Hrs AEST:	*Drilling 216 mm (8½") hole at 3792 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 3425 to 3505 mMDRT
ROP (range): 19.3 to 31 m/hr
Av ROP: 29 m/hr
ARGILLACEOUS SANDSTONE with thinly interbedded SILTY CLAYSTONE
ARGILLACEOUS SANDSTONE (90 to 100%): clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to coarse grains, predominantly medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and visual porosity.
SILTY CLAYSTONE (Trace to 10): light olive grey to olive grey, dark grey to greyish black, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace coloured lithics, trace carbonaceous specks and micro-laminations.

INTERVAL: 3505 to 3530 mMDRT
ROP (range): 6.3 to 31 m/hr
Av ROP: 28 m/hr
SILTY CLAYSTONE with thinly interbedded ARGILLACEOUS SANDSTONE
SILTY CLAYSTONE (40 to 90%): olive grey to olive black, dark grey to greyish black, soft to firm, blocky to occasional sub-fissile, 20%quartz silt, trace quartz sand, trace coloured lithics, trace carbonaceous specks and micro-laminations, trace glauconite.
ARGILLACEOUS SANDSTONE (10 to 60%): clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor firm aggregates, very fine to coarse grains, predominantly medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and visual porosity.

INTERVAL: 3530 to 3595 mMDRT
ROP (range): 6.7 to 32 m/hr
Av ROP: 29 m/hr
ARGILLACEOUS SANDSTONE with minor thinly interbedded SILTY CLAYSTONE
ARGILLACEOUS SANDSTONE (70 to 100%): clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to very coarse grains, predominantly medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 20 to 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and visual porosity.
SILTY CLAYSTONE (Trace to 30%): olive grey to olive black, dark grey to greyish black, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace coloured lithics, trace carbonaceous specks and micro-laminations, trace glauconite.

INTERVAL: 3595 to 3675 mMDRT
ROP (range): 8.9 to 31 m/hr
Av ROP: 27 m/hr
SILTY CLAYSTONE with thinly interbedded ARGILLACEOUS SANDSTONE and traces of SANDSTONE.
SILTY CLAYSTONE (60 to 100%): olive grey to olive black, medium grey to dark grey, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace carbonaceous specks and micro-laminations, trace glauconite.
ARGILLACEOUS SANDSTONE (Trace to 40%): clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to coarse grains, predominantly fine to medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, poor inferred and visual porosity.
SANDSTONE (Trace to 5%): clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor firm aggregates, very fine to trace coarse grains, predominantly fine to medium, poor to moderately sorted, sub-rounded to sub-angular, sub-elongated to sub-spherical, 10% quartz clay, trace carbonaceous specks, trace lithics, trace glauconite, fair inferred and poor visual porosity.

INTERVAL: 3675 to 3785 mMDRT
ROP (range): 9.2 to 31.3 m/hr
Av ROP: 28.6 m/hr
ARGILLACEOUS SANDSTONE with minor thinly interbedded SILTY CLAYSTONE
ARGILLACEOUS SANDSTONE (60 to 100%): clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor firm aggregates, very fine to coarse grains, predominantly medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and visual porosity.
SILTY CLAYSTONE (Trace to 40%): light olive grey to olive grey, dark grey to greyish black, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace coloured lithics, trace carbonaceous specks and micro-laminations.

HYDROCARBON FLUORESCENCE

No fluorescence.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
3425 to 3505	5.50 – 10.70 (8.20)	6.832	0.288	0.061	0.012	0.008	0.003	0.001	0.0
3505 to 3530	0.80 – 8.80 (7.82)	2.654	0.127	0.030	0.007	0.005	0.002	0.001	0.0
3530 to 3595	6.45 – 12.59 (9.49)	8.121	0.343	0.072	0.012	0.008	0.003	0.001	0.0
3595 to 3675	0.11 – 7.11 (0.79)	0.596	0.036	0.011	0.006	0.002	0.001	0.001	0.0
3675 to 3785	0.79 – 11.89 (6.06)	4.345	0.194	0.040	0.008	0.005	0.002	0.001	0.0
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
3444.0	9.90	8.383	0.362	0.078	0.013	0.010	0.003	0.002	0.0
3464.5	10.70	9.018	0.366	0.074	0.012	0.009	0.003	0.001	0.0
3500.0	8.71	7.324	0.309	0.064	0.011	0.008	0.003	0.001	0.0
3544.0	12.59	10.711	0.346	0.067	0.010	0.008	0.003	0.002	0.0
3574.5	11.89	10.460	0.359	0.077	0.012	0.010	0.003	0.002	0.0
3591.5	9.27	7.905	0.349	0.077	0.014	0.010	0.003	0.002	0.0
3605.0	2.29	1.878	0.089	0.023	0.008	0.004	0.002	0.001	0.0
3694.0	9.632	7.191	0.206	0.039	0.007	0.004	0.002	0.001	0.0
3705.0	11.81	8.204	0.340	0.068	0.011	0.008	0.003	0.001	0.0
3710.0	10.283	7.562	0.323	0.065	0.010	0.008	0.002	0.001	0.0
3717.0	8.816	6.455	0.264	0.052	0.009	0.006	0.002	0.001	0.0
3731.0	6.944	4.917	0.216	0.045	0.008	0.006	0.002	0.001	0.0
3740.0	8.954	6.163	0.263	0.054	0.009	0.007	0.002	0.001	0.0
3745.0	11.892	8.784	0.317	0.063	0.010	0.008	0.003	0.001	0.0
3764.0	6.008	4.258	0.184	0.039	0.008	0.005	0.002	0.001	0.0
3772.0	9.489	6.841	0.297	0.061	0.010	0.008	0.003	0.001	0.0
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	Nil
Trip gas	Nil
Background gas	0.5% (max. 12.6%)
Dxc exponent	Normal compaction trend
ROP	6.3 to 32 m/hr (25 m/hr ave)
Ditch cuttings	Normal cuttings seen at the shakers while drilling
Mud temperature out	70°C
MWD Res/sonic	No evidence of overpressure

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Caliper	(ACAL)	31.34
Pressure While Drilling	(PWD)	26.88
Porosity	(CTN)	24.02
Density	(ALD)	21.20
Resistivity	(EWR-P4)	13.85
Gamma	(DGR)	11.50
Directional	(DM)	8.96
Gamma at Bit	(ABG)	1.42

REMARKS

- None

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	26th August 2006	**Last Casing:**	244 mm (9⅝") @ 2742.8 mMDRT
Report Number:	22	**FIT:**	2.0 sg EMW @ 2754 mMDRT
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.26 sg
Depth @ 24:00 Hrs:	3987.0 mMDRT (2253.89 mTVDRT)	**ECD:**	1.50sg
Lag Depth:	3987.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	3697.0 mMDRT (2226.65 mTVDRT)	**Temperature**	69°C
		Mud Chlorides:	176,861 mg/l
Progress:	290 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	3976.36 mMDRT
RT:	50.5 mLAT	**Deviation:**	Incl: 88.03°
Bit Diameter:	311 mm (12¼")		Azi: 99.24°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*Drilled 216 mm (8½") hole to 3987 mMDRT, Total Depth, reached at 19:30 hours. Circulated hole clean.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Completed circulating hole clean and took bottom hole survey. Back reamed out of hole.*
NEXT 24h Hrs:	*Back ream hole and, re-log interval 3208 to 2982 mMDRT. Pull out of hole to shoe, circulate 2x bottoms up, pump slug, flow check and continue to pull out of hole. Prepare to rig up and run 178 mm (7") liner.*
CURRENT OPERATION @ 06:00 Hrs AEST:	*Back reaming 216 mm (8½") hole at 3291 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 3785 to 3838 mMDRT
ROP (range): 20.7 to 31 m/hr
Av ROP: 29 m/hr
ARGILLACEOUS SANDSTONE with interbedded SILTY CLAYSTONE
ARGILLACEOUS SANDSTONE (30 to 90%): clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor firm aggregates, very fine to coarse grains, predominantly medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and visual porosity.
SILTY CLAYSTONE (10 to 70%): light olive grey to olive grey, dark grey to greyish black, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace coloured lithics, trace carbonaceous specks and micro-laminations.

INTERVAL: 3838 to 3883 mMDRT
ROP (range): 7.0 to 31 m/hr
Av ROP: 26 m/hr
ARGILLACEOUS SANDSTONE with minor thinly interbedded SILTY CLAYSTONE
ARGILLACEOUS SANDSTONE (80 to 100%): clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to very coarse grains, predominantly medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and visual porosity.
SILTY CLAYSTONE (Trace to 20%): olive grey to olive black, medium grey to dark grey, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace carbonaceous specks and micro-laminations, trace glauconite.

INTERVAL: 3883 to 3987 mMDRT
ROP (range): 10 to 31 m/hr
Av ROP: 21 m/hr
SILTY CLAYSTONE with interbedded ARGILLACEOUS SANDSTONE
SILTY CLAYSTONE (40 to 95): olive grey to olive black, medium grey to dark grey, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace carbonaceous specks and micro-laminations.
ARGILLACEOUS SANDSTONE (5 to 60%): clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to very coarse grains, predominantly fine, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, poor inferred and visual porosity.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
3785 to 3838	0.78 – 8.61 (3.74)	2.589	0.109	0.024	0.006	0.004	0.002	0.001	0.0
3838 to 3883	3.16 – 11.78 (9.57)	7.160	0.284	0.055	0.009	0.007	0.002	0.001	0.0
3883 to 3987	0.14 – 6.14 (0.53)	0.345	0.017	0.005	0.003	0.001	0.001	Tr	0.0
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
3694	9.632	7.191	0.206	0.039	0.007	0.004	0.002	0.001	0.0
3705	11.181	8.204	0.340	0.068	0.011	0.008	0.003	0.001	0.0
3710	10.283	7.562	0.323	0.065	0.010	0.008	0.002	0.001	0.0
3717	8.816	6.455	0.264	0.052	0.009	0.006	0.002	0.001	0.0
3740	8.954	6.163	0.263	0.054	0.009	0.007	0.002	0.001	0.0
3745	11.892	8.784	0.317	0.063	0.010	0.008	0.003	0.001	0.0
3772	9.489	6.841	0.297	0.061	0.010	0.008	0.003	0.001	0.0
3789	8.614	6.163	0.250	0.050	0.009	0.006	0.002	0.001	0.0
3830	5.715	4.057	0.162	0.032	0.006	0.004	0.002	0.001	0.0
3842	10.582	8.134	0.315	0.060	0.009	0.007	0.002	0.001	0.0
3848	11.359	8.603	0.328	0.063	0.010	0.008	0.003	0.001	0.0
3865	11.252	8.443	0.339	0.066	0.010	0.008	0.003	0.001	0.0
3878	10.223	7.663	0.313	0.062	0.010	0.008	0.003	0.001	0.0
3910	0.727	0.496	0.028	0.008	0.004	0.002	0.001	Tr	0.0
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.26 sg
Connection gas	Nil
Trip gas	Nil
Background gas	<0.6% (max. 11.9%)
Dxc exponent	Normal compaction trend
ROP	6.9 to 31 m/hr (22 m/hr ave)
Ditch cuttings	Normal cuttings seen at the shakers while drilling
Mud temperature out	69°C
MWD Res/sonic	No evidence of overpressure

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.

LWD

Caliper	(ACAL)	31.34
Pressure While Drilling	(PWD)	26.88
Porosity	(CTN)	24.02
Density	(ALD)	21.20
Resistivity	(EWR-P4)	13.85
Gamma	(DGR)	11.50
Directional	(DM)	8.96
Gamma at Bit	(ABG)	1.42

REMARKS

- Projected survey at TD: 3987.0mMDRT – Azi. – 99.50˚– Inc. 88.80˚
- Total Depth reached at 19:30 hours 26th August 2006.

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

CONFIDENTIAL

Date:	27th August 2006	**Last Casing:**	244 mm (9⅝") @ 2742.8 mMDRT
Report Number:	23	**FIT:**	2.0 sg EMW @ 2754 mMDRT
Report Period:	0000-2400 Hours AEST	**Mud Weight:**	1.25 sg
Depth @ 24:00 Hrs:	3987.0 mMDRT (2253.89 mTVDRT)	**ECD:**	1.38sg
Lag Depth:	3987.0 mMDRT	**Mud Type:**	SBM (SYN-TEQ CF)
Last Depth:	3987.0 mMDRT (2253.89 mTVDRT)	**Temperature**	69°C
		Mud Chlorides:	180,920 mg/l
Progress:	0 m	**Est. Pore Press:**	1.05 sg (normal at TD)
Water Depth:	99.3 mLAT	**Last Survey Depth:**	3987.0 mMDRT (projected)
RT:	50.5 mLAT	**Deviation:**	Incl: 88.80°
Bit Diameter:	311 mm (12¼")		Azi: 99.50°

OPERATIONS SUMMARY

24 HOUR SUMMARY:	*<u>This is the last Geological Report for THA04.</u> Circulated hole clean. Back reamed hole and re-logged interval 3208 to 2982 mMDRT. Back reamed hole to shoe, circulated 2x bottoms up, pumped slug, flow checked and continued to pull out of hole.*
MIDNIGHT TO 06:00 Hrs SUMMARY:	*Complete pulling out of hole. Rigged up and ran 178 mm (7") liner.*
NEXT 24h Hrs:	*Run 178 mm (7") liner and cement*
CURRENT OPERATION @ 06:00 Hrs AEST:	*Running 178 mm (7") liner at 175 mMDRT.*

GEOLOGICAL SUMMARY

LITHOLOGY

No new hole drilled.

GAS SUMMARY

Depth Interval	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	nC4 (%)	iC5 (%)	nC5 (%)	CO2 (%)
None	-	-	-	-	-	-	-	-	-
Gas Peaks	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Connection Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-
Trip Gas	**Total GAS (%)**	**C1 (%)**	**C2 (%)**	**C3 (%)**	**iC4 (%)**	**nC4 (%)**	**iC5 (%)**	**nC5 (%)**	**CO2 (%)**
None	-	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	No new hole drilled
Trip gas	No new hole drilled
Background gas	No new hole drilled
Dxc exponent	No new hole drilled
ROP	No new hole drilled
Ditch cuttings	No new hole drilled
Mud temperature out	No new hole drilled
MWD Res/sonic	No new hole drilled

MUDLOGGING EQUIPMENT/PERSONNEL

- 2 x Data Engineers, 2 x Mudloggers onboard, 2 x Sample Catchers.
- All equipment working.
- 1 x Mudlogger, 1 x Sample Catcher off rig today.

LWD

The recorded neutron, density and caliper data will not be downloaded until the tools are laid down after running and cementing the 178 mm (7") liner.

REMARKS

- WSG 2 x to leave rig for end of Thylacine campaign.
- This will be the last DGR for THA04.

WELLSITE GEOLOGISTS

Shane Robbie and John Hobday

Wellsite Lithology Log

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Version: 3.0.2

Woodside Energy Ltd.

Well Name : THA04

Wellsite Lithology Log

Rig:	Maersk Guardian	**Rig Type:**	Jackup	**Latitude:**	39° 14' 14.56" S	**Wellsite Geologists:**	
Basin:	Otway	**Rotary Table:**	50.5m	**Longitude:**	142° 54' 07.58" E		
Date Spudded:	17th March, 2006	**Water Depth:**	99.3m	**Eastings:**	664 164.0 m E		
Date TD:		**Total Depth:**		**Northings:**	5 655 156.8 m N		
		Well Status:		**Seismic line:**			

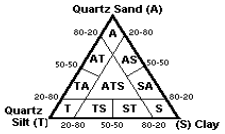
Rock Types

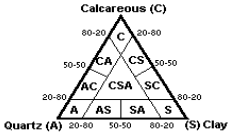
	Sample Contaminated or Missed		
(Clyst)	Claystone		
(Clyst, calc)	Claystone, calcareous		
(Sltst)	Siltstone		
(Sst)	Sandstone		
(Cgl)	Conglomerate		
(Lst)	Limestone (recrystallised)		
(Cl)	Calcilutite		
(Ct)	Calcisiltite		
(Ca)	Calcarenite		
(Cr)	Calcirudite		
(Dol)	Dolomite		

Accessories

(An)	Anhydrite	Py:	Pyrite	Al:	Algae
(Gyp)	Gypsum	Mc:	Mica	O:	Ooliths
(Ha)	Halite/Salt	Ch:	Chert	Co:	Corals
(C)	Coal	C:	Lignite / Coal	Cr:	Crinoids
(Cht)	Chert	G:	Glauconite	Fo:	Foraminifera
		F:	Feldspar	Br:	Bryozoa
		Ce:	Chlorite	Os:	Ostracoda
(MM)	Metamorphic	Qx:	Quartz Crystals	Rd:	Radiolaria
(Plut)	Plutonic	Cx:	Calcite Crystals	I:	Inoceramus
(Vol)	Volcanic	Sc:	Siderite Concretions	Sk:	Skeletal Fragments
" silty		Gp:	Gypsum	Lf:	Lithic Fragments
.... sandy					
___ argillaceous		He:	Hematite		

Rock Classification





Sample Reliability
Q: Questionable
U: Unreliable
No entry indicates that sample is considered reliable.

Hardness
L: Loose
VS : Very Soft
S : Soft
Fr : Friable
F : Firm
MH : Moderately Hard
H: Hard

Fracture
A: Amorphous
Ang: Angular
B: Blocky
SB: Sub Blocky
Conc: Conchoidal
Disp: Dispersive
F: Fissile
SF: Sub Fissile
M: Massive
Sp: Splintery
St: Sticky

Rounding
A: Angular
SA: Subangular
SR: Subrounded
R: Rounded
WR: Well Rounded

Sorting
VP: Very Poor
P: Poor
M: Moderate
W: Well
VW: Very Well

Sphericity
VE: Very Elongated
E: Elongated
SE: Slightly Elongated
SS: Slightly Spherical
S: Spherical
VS: Very Spherical

Cement
Q: Silica
C: Calcite
D: Dolomite
P: Pyrite
Sd: Siderite

Porosity
g: intergranular
v: vugular
i: intraskeletal
f: fracture

Colour
wh = white
gy = grey
blk = black
red = red
pk = pink
pu = purple
brn = brown
yel = yellow
gn = green
olv = olive
blu = blue
orng = orange
cl = colourless
mult = multicolour
trans = translucent
lt = light
dk = dark
med = medium
vgt = variegated

Wellsite Lithology Log

Well Name :

Please have your Office Assistant switched on while using this template. (Press F1)

Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours		Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
640	U	Cl		100	lt olv gy,off wh	VS	S	A B	90.0			10.0			100.0							0.0											Co	0.1														S. Robbie on tour CALCILUTITE: light olive grey, off white, very soft to soft, blocky, amorphous, 10% quartz clay, trace broken coral fragments.
645	U	Cl		100	lt olv gy,off wh	VS	S	A B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: as above.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
650		Cl		100	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1															CALCILUTITE: as above.
655		Cl		70	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1															CALCILUTITE: as above.
		Clyst	calc	30	lt olv gy to olv gy,med dk gy	S	F	B		30.0			60.0	5.0	5.0	100.0							0.0											C	0.1															CALCAREOUS CLAYSTONE: light olive grey to medium olive grey, soft to occasionally firm, blocky, 30% calcareous clay, 5% quartz silt, 5% very fine quartz grains, trace carbonaceous specks and material.
660		Cl		60	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1															CALCILUTITE: as above.
		Clyst	calc	40	lt olv gy to olv gy,med dk gy	S	F	B		30.0			60.0	5.0	5.0	100.0							0.0											C	0.1															CALCAREOUS CLAYSTONE: as above.
665		Cl		60	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1															CALCILUTITE: as above.
		Clyst	calc	40	lt olv gy to olv gy,med dk gy	S	F	B		30.0			60.0	5.0	5.0	100.0							0.0											C	0.1															CALCAREOUS CLAYSTONE: as above.
670		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1															CALCILUTITE: as above.
		Clyst	calc	60	lt olv gy to olv gy,med dk gy	S	F	B		30.0			60.0	5.0	5.0	100.0							0.0											C	0.1															CALCAREOUS CLAYSTONE: as above.
680		Cl		60	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1															CALCILUTITE: as above.
		Clyst	calc	40	lt olv gy to olv gy,med dk gy	S	F	B		30.0			60.0	5.0	5.0	100.0							0.0											C	0.1															CALCAREOUS CLAYSTONE: as above.
690		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1															CALCILUTITE: as above.

Wellsite Lithology Log

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Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Clyst	calc	60	lt olv gy to olv gy,med dk gy	S	F	B		30.0			60.0	5.0	5.0	100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
700		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: light olive grey, off white, very soft to soft, blocky, amorphous, 10% quartz clay, trace broken coral fragments.
		Clyst	calc	70	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: light olive grey to medium olive grey, soft to occasionally firm, blocky, 30% calcareous clay, 5% quartz silt, trace carbonaceous specks and material.
710		Cl		20	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: as above.
		Clyst	calc	80	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
720		Cl		20	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: as above.
		Clyst	calc	80	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
730		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: as above.
		Clyst	calc	70	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
740		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: as above.
		Clyst	calc	70	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
750		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: as above.

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Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Clyst	calc	70	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
760		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: as above.
		Clyst	calc	60	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
770		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: as above.
		Clyst	calc	60	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
780		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: light olive grey, off white, very soft to soft, blocky, amorphous, 10% quartz clay, trace broken coral fragments.
		Clyst	calc	60	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: light olive grey to medium olive grey, soft to occasionally firm, blocky, 30% calcareous clay, 5% quartz silt, trace carbonaceous specks and material.
790		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: as above.
		Clyst	calc	70	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
800		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: as above.
		Clyst	calc	60	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
810		Cl		60	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1														CALCILUTITE: as above.

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Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Clyst	calc	40	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above, trace glauconite.
820		Cl		60	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1													CALCILUTITE: as above.
		Clyst	calc	40	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
830		Cl		60	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1													J. Hobday on tour CALCILUTITE: light olive grey, off white, very soft to soft, blocky, amorphous, 10% quartz clay, trace broken coral fragments.
		Clyst	calc	40	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1	G	0.1												CALCAREOUS CLAYSTONE: light olive grey to medium olive grey, soft to occasionally firm, blocky, 30% calcareous clay, 5% quartz silt, trace carbonaceous specks and material, trace glauconite.
840		Cl		60	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1													CALCILUTITE: as above.
		Clyst	calc	40	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
850		Cl		50	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1													CALCILUTITE: as above.
		Clyst	calc	50	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
860		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1													CALCILUTITE: as above.
		Clyst	calc	60	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
870		Cl		60	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1													CALCILUTITE: as above.

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Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Clyst	calc	40	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
880		Cl		50	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1													CALCILUTITE: as above.
		Clyst	calc	50	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
890		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1													CALCILUTITE: as above.
		Clyst	calc	60	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
900		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1													CALCILUTITE: as above.
		Clyst	calc	60	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1													CALCAREOUS CLAYSTONE: as above, decreasing glauconite.
910		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1													CALCILUTITE: as above.
		Clyst	calc	60	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1													CALCAREOUS CLAYSTONE: as above.
920		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Co	0.1													CALCILUTITE: as above.
		Clyst	calc	60	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1	Py	0.1												CALCAREOUS CLAYSTONE: as above, trace disseminated pyrite.
940		Cl		40	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1													CALCILUTITE: as above, decreasing coral fragments, trace lithic fragments.

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Clyst	calc	60	lt olv gy to olv gy,mnr med dk gy	S	F	B	30.0			65.0	5.0		100.0							0.0											C	0.1															CALCAREOUS CLAYSTONE: as above.
950		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	Co	0.1													CALCILUTITE: as above, trace coral fragments, trace lithic fragments.
		Clyst	calc	70	lt olv gy to olv gy,mnr med dk gy incl	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1	G	0.1	Py	0.1										CALCAREOUS CLAYSTONE: as above, trace glauconite, trace disseminated pyrite.
960		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	Co	0.1													CALCILUTITE: as above, trace coral fragments, trace lithic fragments.
		Clyst	calc	70	lt olv gy to olv gy,mnr med dk gy incl	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1	G	0.1	Py	0.1										CALCAREOUS CLAYSTONE: light olive grey to olive grey, minor medium dark grey inclusions, soft to firm, blocky, 30% calcareous clay, 5% quartz silt, trace carbonaceous specks and laminations, trace glauconite, trace disseminated pyrite.
970		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	Co	0.1													CALCILUTITE: as above.
		Clyst	calc	70	lt olv gy to olv gy,mnr med dk gy incl	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1	G	0.1	Py	0.1										CALCAREOUS CLAYSTONE: as above.
980		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	Co	0.1													CALCILUTITE: as above.
		Clyst	calc	70	lt olv gy to olv gy,mnr med dk gy incl	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1	G	0.1	Py	0.1										CALCAREOUS CLAYSTONE: as above.
990		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	Co	0.1													CALCILUTITE: as above.
		Clyst	calc	70	lt olv gy to olv gy,mnr med dk gy incl	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1	G	0.1													CALCAREOUS CLAYSTONE: as above, decreasing disseminated pyrite.
1000		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	Co	0.1													CALCILUTITE: as above.

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Clyst	calc	70	lt olv gy to olv gy,mnr med dk gy incl	S	F	B	30.0			65.0	5.0		100.0							0.0											C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
1020		Cl		20	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	Co	0.1												CALCILUTITE: as above.
		Clyst	calc	80	lt olv gy to olv gy,mnr med dk gy incl	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
1030		Cl		20	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	Co	0.1												CALCILUTITE: as above.
		Clyst	calc	80	lt olv gy to olv gy,mnr med dk gy incl	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
1040		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	Co	0.1												CALCILUTITE: as above.
		Clyst	calc	70	lt olv gy to olv gy,mnr med dk gy incl	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
1050		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1														CALCILUTITE: as above, decreasing coral fragments.
		Clyst	calc	70	lt olv gy to olv gy,mnr med dk gy incl	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1	G	0.1												CALCAREOUS CLAYSTONE: as above.
1060		Cl		30	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	70	lt olv gy to olv gy,mnr med dk gy incl	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1														CALCAREOUS CLAYSTONE: as above, decreasing glauconite.
1070		Cl		10	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1														CALCILUTITE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Clyst	calc	90	lt olv gy to olv gy,med dk gy	S	F	B	30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1080		Cl		10	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	90	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1														CALCAREOUS CLAYSTONE: as above.
1090		Cl		20	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	80	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1														CALCAREOUS CLAYSTONE: as above.
1100		Cl		10	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	90	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1														CALCAREOUS CLAYSTONE: as above.
1110		Cl		10	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	90	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1														CALCAREOUS CLAYSTONE: as above.
1120		Cl		10	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	90	lt olv gy to olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1														CALCAREOUS CLAYSTONE: as above.
1130		Cl		5	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1														CALCILUTITE: as above.

Wellsite Lithology Log

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Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Clyst	calc	95	olv gy to mnr lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: olive grey to minor light olive grey, medium dark grey in parts, soft to firm, blocky 30% calcareous clay, 5% quartz silt, trace carbonaceous specks.
1140		Cl		5	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	95	olv gy to mnr lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1150		Cl		5	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	95	olv gy to mnr lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1160		Clyst	calc	100	olv gy to mnr lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1170		Cl		5	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	95	olv gy to mnr lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1180		Cl		5	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	95	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1190		Cl		5	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	95	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.

Wellsite Lithology Log

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Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
1200		Cl		5	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	95	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1210		Cl		5	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	95	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1220		Cl		10	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														S. Robbie on tour CALCILUTITE: as above.
		Clyst	calc	90	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1230		Cl		10	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: light olive grey, off white, very soft to soft, blocky, amorphous, 10% quartz clay, trace broken coral fragments.
		Clyst	calc	90	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: olive grey to minor light olive grey, medium dark grey in parts, soft to firm, blocky 30% calcareous clay, 5% quartz silt, trace carbonaceous specks.
1240		Cl		10	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	90	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1250		Cl		10	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	90	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.

Wellsite Lithology Log

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Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
1260		Cl		10	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	90	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1270		Cl		10	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	90	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1280		Cl		20	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	80	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1290		Cl		60	lt olv gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1														CALCILUTITE: as above.
		Clyst	calc	40	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.
1300		Cl		60	lt olv gy,lt gn gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1	G	0.1												CALCILUTITE: light olive grey, light green grey, off white, very soft to soft, blocky, amorphous, 10% quartz clay, trace broken coral fragments, trace glauconite.
		Clyst	calc	40	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: olive grey to minor light olive grey, medium dark grey in parts, soft to firm, blocky, 30% calcareous clay, 5% quartz clay, trace carbonaceous specks.
1310		Cl		60	lt olv gy,lt gn gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0											Lf	0.1	G	0.1												CALCILUTITE: as above.
		Clyst	calc	40	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0											C	0.1														CALCAREOUS CLAYSTONE: as above.

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Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Grains: Calcareous: Clay (%)	Calcareous: Silt (%)	Calcareous: Sand (%)	Siliciclastic: Clay (%)	Siliciclastic: Silt (%)	Siliciclastic: Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Cements 1 Type	Cements 1 %	Cements 2 Type	Cements 2 %	Cements 3 Type	Cements 3 %	Accessories 1 Type	Accessories 1 %	Accessories 2 Type	Accessories 2 %	Accessories 3 Type	Accessories 3 %	Accessories 4 Type	Accessories 4 %	Accessories 5 Type	Accessories 5 %	Porosity Type	Porosity %	HC Shows (y/n)	Longhand Description
1320		Cl		80	lt olv gy,lt gn gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	G	0.1									CALCILUTITE: as above.
		Clyst	calc	20	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1											CALCAREOUS CLAYSTONE: as above.
1330		Cl		80	lt olv gy,lt gn gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	G	0.1									CALCILUTITE: as above.
		Clyst	calc	20	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1											CALCAREOUS CLAYSTONE: as above.
1340		Cl		80	lt olv gy,lt gn gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0										Lf	0.1	G	0.1									CALCILUTITE: as above.
		Clyst	calc	20	olv gy to lt olv gy,med dk gy	S	F	B		30.0			65.0	5.0		100.0							0.0										C	0.1											CALCAREOUS CLAYSTONE: as above.
1350		Cl		10	lt olv gy,lt gn gy,off wh	VS	S	A	B	90.0			10.0			100.0							0.0																						CALCILUTITE: as above.
		Sst		90	clr,trans,yel gy	L	Fr								100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.1			Lf	0.1	Py	0.1							g	15	N	SANDSTONE: clear, translucent, yellow grey, loose to friable, fine to very coarse, dominantly fine to medium, trace granular, poor to moderately sorted, angular to subrounded, slightly elongate to slightly spherical, trace pyrite cement, trace lithic fragments, trace pyrite nodules. good inferred porosity.
1360		Sst		90	clr,trans,yel gy	L	Fr								100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.3			Lf	0.1	Py	0.1							g	15	N	SANDSTONE: as above.
		Clyst	slty	10	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0							0.0										C	0.1	G	0.1									SILTY CLAYSTONE: dark grey to grey black, brown black, olive black, very soft to firm, amorphous to blocky, 20% quartz silt, trace carbonaceous material, trace lithic fragments, trace glauconite.
1370		Sst		90	clr,trans,yel gy	L	Fr								100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.3			Lf	0.1	Py	0.1							g	15	N	SANDSTONE: as above.
		Clyst	slty	10	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0							0.0										C	0.1	G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.

Lithology Colours

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
1375		Sst		90	clr,trans,yel gy	L	Fr							100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.3					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: as above.
		Clyst	slty	10	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0						0.0													C	0.1	G	0.1	Lf	0.1									SILTY CLAYSTONE: as above.
1380		Sst		80	clr,trans,yel gy	L	Fr							100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.3					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: as above.
		Clyst	slty	20	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0						0.0													C	0.1	G	0.1	Lf	0.1									SILTY CLAYSTONE: as above.
1385		Sst		80	clr,trans,yel gy	L	Fr							100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.3					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: as above.
		Clyst	slty	20	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0						0.0													C	0.1	G	0.1	Lf	0.1									SILTY CLAYSTONE: as above.
1390		Sst		80	clr,trans,yel gy	L	Fr							100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.3					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: as above.
		Clyst	slty	20	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0						0.0													C	0.1	G	0.1	Lf	0.1									SILTY CLAYSTONE: as above.
1395		Sst		80	clr,trans,yel gy	L	Fr							100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.3					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: as above.
		Clyst	slty	20	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0						0.0													C	0.1	G	0.1	Lf	0.1									SILTY CLAYSTONE: as above.
1400		Sst		75	clr,trans,yel gy	L	Fr							100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.3					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: as above.
		Clyst	slty	25	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0						0.0													C	0.1	G	0.1	Lf	0.1									SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

Please have your Office Assistant switched on while using this template. (Press F1)

Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
1410		Sst		75	clr,trans,yel gy	L	Fr							100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.3					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: as above.
		Clyst	slty	25	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0						0.0												C	0.1	G	0.1	Lf	0.1										SILTY CLAYSTONE: as above.
1420		Sst		95	clr,trans,yel gy	L	Fr							100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.3					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: clear, translucent, yellow grey, loose to friable, fine to very coarse, dominantly fine to medium, trace granular, poor to moderately sorted, angular to subrounded, slightly elongate to slightly spherical, trace pyrite cement, trace lithic fragments, trace pyrite and glauconite nodules. good inferred porosity.
		Clyst	slty	5	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0						0.0												C	0.1	G	0.1	Lf	0.1										SILTY CLAYSTONE: dark grey to grey black, brown black, olive black, very soft to firm, amorphous to blocky, 20% quartz silt, trace carbonaceous material, trace lithic fragments, trace glauconite.
1430		Sst		95	clr,trans,yel gy	L	Fr							100.0	100.0		10.0	50.0	30.0	10.0	0.1	100.1	P	M	A	SR	SE	SS	P	0.1					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: as above.
		Clyst	slty	5	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0						0.0												C	0.1	G	0.1	Lf	0.1										SILTY CLAYSTONE: as above.
1440		Sst		95	clr,transl,yel gy	L	Fr							100.0	100.0		10.0	50.0	30.0	10.0		100.0	P	M	A	SR	SE	SS	P	0.1					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: as above.
		Clyst	slty	5	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0						0.0												C	0.1	G	0.1	Lf	0.1										SILTY CLAYSTONE: as above.
1450		Sst		99	clr,trans,yel gy	L	Fr							100.0	100.0		20.0	50.0	25.0	5.0		100.0	P	M	A	SR	SE	SS	P	0.1					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: as above, fine to coarse, dominantly medium.
		Clyst	slty	1	dk gy to gy blk,brn blk,olv blk	VS	F	A	B				80.0	20.0		100.0						0.0												C	0.1	G	0.1	Lf	0.1										SILTY CLAYSTONE: as above.
1460		Sst		95	clr,trans,yel gy	L	Fr							100.0	100.0		20.0	50.0	25.0	5.0		100.0	P	M	A	SR	SE	SS	P	0.1					Lf	0.1	Py	0.1							g	15	N		SANDSTONE: as above, fine to coarse, dominantly medium.
		Clyst	slty	5	dk gy to gy blk,brn blk,dk gn gy to olv blk	VS	F	A	B				80.0	20.0		100.0						0.0												C	0.1	G	0.1	Lf	0.1										SILTY CLAYSTONE: as above and dark green grey to olive black.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Grains: Calcareous: Clay (%)	Calcareous: Silt (%)	Calcareous: Sand (%)	Siliciclastic: Clay (%)	Siliciclastic: Silt (%)	Siliciclastic: Sand (%)	% Total (100%)	Grain Size & Characteristics: Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY		Cements 1: Type	%	Cements 2: Type	%	Cements 3: Type	%	Accessories 1: Type	%	Accessories 2: Type	%	Accessories 3: Type	%	Accessories 4: Type	%	Accessories 5: Type	%	Porosity: Type	%	HC Shows (y/n)	Longhand Description
1470		Sst		80	clr,trans,yel gy	L	Fr								100.0	100.0	5.0	15.0	50.0	25.0	5.0		100.0	P	M	A	SR	SE	SS							Lf	0.1									g	15	N	J. Hobday on tour SANDSTONE: clear, translucent, yellow grey, loose to friable, very fine to very coarse, dominantly fine to medium, trace granular, poor to moderately sorted, angular to subrounded, slightly elongate to slightly spherical trace lithic fragments, glauconite nodules. good inferred porosity.
		Clyst	slty	20	dk gy to gy blk,brn blk,dk gn gy to olv blk	VS	F	A	B				80.0	20.0		100.0							0.0													C	0.1	G	0.1	Lf	0.1								SILTY CLAYSTONE: dark grey to grey black, brown black, olive black, very soft to firm, amorphous to blocky, 20% quartz silt, trace carbonaceous material, trace lithic fragments, trace glauconite.
1480		Sst		90	clr,trans,yel gy	L	Fr								100.0	100.0	0.1	20.0	50.0	25.0	5.0		100.1	P	M	A	SR	SE	SS							Lf	0.1									g	15	N	SANDSTONE: as above.
		Clyst	slty	10	dk gy to gy blk,brn blk,dk gn gy to olv blk	VS	F	A	B				80.0	20.0		100.0							0.0													C	0.1	G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
1500		Sst		90	clr,trans,yel gy	L	Fr								100.0	100.0	0.1	20.0	50.0	25.0	5.0		100.1	P	M	SA	SR	SE	SS							Lf	0.1									g	15	N	SANDSTONE: as above.
		Clyst	slty	10	dk gy to gy blk,brn blk,dk gn gy to olv blk	VS	F	A	B				80.0	20.0		100.0							0.0													C	0.1	G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
1510		Sst		80	clr,trans,yel gy	L	Fr								100.0	100.0	0.1	20.0	50.0	25.0	5.0		100.1	P	M	SA	SR	SE	SS							Lf	0.1									g	15	N	SANDSTONE: as above.
		Clyst	slty	20	dk gy to gy blk,brn blk,dk gn gy to olv blk	VS	F	A	B				80.0	20.0		100.0							0.0													C	0.1	G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
1520		Sst		70	clr,trans,yel gy	L	Fr								100.0	100.0	0.1	20.0	50.0	25.0	5.0		100.1	P	M	SA	SR	SE	SS							Lf	0.1									g	15	N	SANDSTONE: as above.
		Clyst	slty	30	dk gy to gy blk,brn blk,dk gn gy to olv blk	VS	F	A	B				80.0	20.0		100.0							0.0													C	0.1	G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
1540		Sst		80	clr,trans,yel gy	L	Fr								100.0	100.0	0.1	20.0	45.0	30.0	5.0	0.1	100.2	P	M	SA	SR	SE	SS							Lf	0.1									g	15	N	SANDSTONE: as above.
		Clyst	slty	20	dk gy to gy blk,brn blk,dk gn gy to olv blk	VS	F	A	B				80.0	20.0		100.0							0.0													C	0.1	G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.

Lithology Colours

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness	Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
1560		Sst		95	clr,trans,yel gy	L	Fr							100.0	100.0	0.1	20.0	45.0	30.0	5.0	0.1	100.2	P	M	SA	SR	SE	SS							Lf	0.1									g	15	N	SANDSTONE: as above.
		Clyst	slty	5	dk gy to gy blk,brn blk,dk gn gy to olv blk	VS	F	A	B				80.0	20.0		100.0							0.0												C	0.1	G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
1565		Sst		99	clr,trans,yel gy	L	Fr							100.0	100.0	0.1	10.0	35.0	40.0	10.0	5.0	100.1	P	M	SA	R	SE	SS							Lf	0.1									g	15	N	SANDSTONE: as above, increasing in grain sive, sub-angular to rounded, predominantly sub-rounded.
		Clyst	slty	1	dk gy to gy blk,brn blk,dk gn gy to olv blk	VS	F	A	B				80.0	20.0		100.0							0.0												C	0.1	G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
1575		Sst		95	clr,trans,yel gy	L	H							100.0	100.0	0.1	15.0	30.0	40.0	10.0	5.0	100.1	P	M	SA	R	SE	SS	P	1.0					Lf	0.1	Py	0.1							g	15	N	SANDSTONE: clear to translucent, yellowish grey, dominantly loose, trace very hard pyritic aggregates, fine to granular grains, poor sorted, sub-angular to occasional rounded grains, predominantly sub-rounded, sub-elongated to sub-spherical, trace pyrite cement, trace coloured lithics, trace nodular pyrite, good inferred porosity.
		Clyst	slty	5	dk gy to gy blk,brn blk,dk gn gy to olv blk	VS	F	A	B				80.0	20.0		100.0							0.0												C	0.1	G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
1580		Sst		99	clr,trans,yel gy	L	Fr							100.0	100.0	0.1	15.0	30.0	40.0	10.0	5.0	100.1	P	M	SA	R	SE	SS							Lf	0.1									g	15	N	SANDSTONE: as above, decreased to nil pyrite cement.
		Clyst	slty	1	dk gy to gy blk,brn blk,dk gn gy to olv blk	VS	F	A	B				80.0	20.0		100.0							0.0												C	0.1	G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
1590		Sst		100	clr,trans,yel gy	L								100.0	100.0		15.0	30.0	40.0	10.0	5.0	100.0	P		SA	R	SE	SS							Lf	0.1									g	15	N	SANDSTONE: as above.
1600		Sst		100	clr,trans,yel gy	L								100.0	100.0		15.0	30.0	40.0	10.0	5.0	100.0	P		SA	R	SE	SS							Lf	0.1									g	15	N	SANDSTONE: as above.
1610		Sst		50	clr to trans,frstd,yel gy,mnr mod red brn	L								100.0	100.0	0.1	15.0	35.0	30.0	15.0	5.0	100.1	P		SA	SR	SE	SS							Lf	0.1									g	10	N	SANDSTONE: clear to translucent, frosted, yellowish grey, minor moderately reddish brown, loose, very fine to granular, predominantly medium to very coarse grains, poor sorted, sub-angular to sub-rounded sub-elongated to sub-spherical, trace coloured lithics, good inferred porosity.
		Clyst	slty	50	brn gy to brn blk,dk gy,rr dk red brn	S	F	B					70.0	30.0	0.1	100.1							0.0												Lf	0.1	C	0.1								SILTY CLAYSTONE: brownish grey to brownish black, dark grey, rare dark reddish brown, soft to firm, blocky, 30% quartz silt, trace quartz very fine sand, multi-coloured lithics, trace carbonaceous specks.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING	SPHERICITY		Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
1620		Sst		60	clr to trans,frstd,yel gy,mnr mod red brn	L								100.0	100.0	0.1	15.0	35.0	30.0	15.0	5.0	100.1	P		SA	SR	SE	SS							Lf	0.1									g	10	N	SANDSTONE: as above.
		Clyst	slty	40	brn gy to brn blk,dk gy,rr dk red brn	S	F	B				70.0	30.0	0.1	100.1							0.0												Lf	0.1	C	0.1										SILTY CLAYSTONE: as above.
1630		Sst		40	clr to trans,frstd,yel gy,mnr mod red brn	L								100.0	100.0	0.1	15.0	35.0	30.0	15.0	5.0	100.1	P		SA	SR	SE	SS							Lf	0.1									g	10	N	SANDSTONE: as above.
		Clyst	slty	60	brn gy to brn blk,dk gy,rr dk red brn	S	F	B				70.0	30.0	0.1	100.1							0.0												Lf	0.1	C	0.1										SILTY CLAYSTONE: as above.
1640		Sst		30	clr to trans,frstd,yel gy,mnr mod red brn	L								100.0	100.0	0.1	15.0	35.0	30.0	15.0	5.0	100.1	P		SA	SR	SE	SS							Lf	0.1									g	10	N	SANDSTONE: as above.
		Clyst	slty	70	brn gy to brn blk,dk gy,rr dk red brn	S	F	B				70.0	30.0	0.1	100.1							0.0												Lf	0.1	C	0.1										SILTY CLAYSTONE: as above.
1650		Sst		20	clr to trans,frstd,yel gy,mnr mod red brn	L								100.0	100.0	0.1	15.0	35.0	30.0	15.0	5.0	100.1	P		SA	SR	SE	SS							Lf	0.1									g	10	N	SANDSTONE: as above.
		Clyst	slty	80	brn gy to brn blk,dk gy,rr dk red brn	S	F	B				70.0	30.0	0.1	100.1							0.0												Lf	0.1	C	0.1										SILTY CLAYSTONE: as above.
1655		Sst		70	clr to trans,frstd,yel gy,mnr mod rrd brn,opq i/p	L								100.0	100.0	0.1	5.0	35.0	40.0	18.0	2.0	100.1	P		SA	SR	SE	SS							Lf	0.1									g	10	N	SANDSTONE: clear to translucent, frosted, yellowish grey, minor moderate reddish brown, opaque in parts, loose, fine to granular, predominantly med to coarse grains, poor sorted, sub-angular to sub-rounded, sub-elongated to sub-spherical, trace lithics, good inferred porosity.
		Clyst	slty	30	brn gy to brn blk,dk gy,rr dk red brn	S	F	B				70.0	30.0	0.1	100.1							0.0												Lf	0.1	C	0.1										SILTY CLAYSTONE: as above.
1660		Sst		40	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	5.0	35.0	40.0	18.0	2.0	100.1	P		SA	SR	SE	SS							Lf	0.1									g	10	N	SANDSTONE: as above.
		Clyst	slty	60	brn gy to brn blk,dk gy,rr dk red brn	S	F	B				70.0	30.0	0.1	100.1							0.0												Lf	0.1	C	0.1										SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING	SPHERICITY		Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
1665		Sst		20	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	0.1	10.0	40.0	35.0	15.0	0.1	100.2	P		SA	SR	SE	SS															g	10	N	SANDSTONE: as above, trace nodular pyrite.
		Clyst	slty	80	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.1											SILTY CLAYSTONE: dark grey to greyish black, soft to firm, blocky, 30% quartz silt, trace quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace nodular and disseminated pyrite.
1670		Sst		10	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	0.1	10.0	40.0	35.0	15.0	0.1	100.2	P		SA	SR	SE	SS															g	10	N	SANDSTONE: as above.
		Clyst	slty	90	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
1680		Sst		10	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	0.1	10.0	40.0	35.0	15.0	0.1	100.2	P		SA	SR	SE	SS															g	10	N	SANDSTONE: as above.
		Clyst	slty	90	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
1690		Sst		5	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	0.1	10.0	40.0	35.0	15.0	0.1	100.2	P		SA	SR	SE	SS															g	10	N	SANDSTONE: as above.
		Clyst	slty	95	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
1700		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
1710		Sst		10	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		SA	SR	SE	SS															g	10	N	SANDSTONE: as above, trace disseminated pyrite.
		Clyst	slty	90	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
1720		Sst		10	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		SA	SR	SE	SS															g	10	N	SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

Please have your Office Assistant switched on while using this template. (Press F1)

Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
		Clyst	silty	90	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
1730		Sst		20	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		SA	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above.
		Clyst	silty	80	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
1740		Sst		5	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		SA	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above.
		Clyst	silty	95	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
1750		Sst		5	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above.
		Clyst	silty	95	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above, including trace glauconite.
1760		Sst		5	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N		S. Robbie on tour SANDSTONE: as above.
		Clyst	silty	95	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
1770		Sst		10	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above.
		Clyst	silty	90	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
1780		Sst		10	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Clyst	slty	90	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
1790		Sst		5	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above.
		Clyst	slty	95	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
1800		Sst		10	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above.
		Clyst	slty	90	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
1810		Sst		5	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above.
		Clyst	slty	95	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
1820		Sst		1	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above.
		Clyst	slty	99	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
1830		Sst		5	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above.
		Clyst	slty	95	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
1835		Sst		10	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L								100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Grains: Calcareous: Clay (%)	Calcareous: Silt (%)	Calcareous: Sand (%)	Siliciclastic: Clay (%)	Siliciclastic: Silt (%)	Siliciclastic: Sand (%)	% Total (100%)	Grain Size & Characteristics: Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Cements 1 Type	1 %	2 Type	2 %	3 Type	3 %	Accessories 1 Type	1 %	2 Type	2 %	3 Type	3 %	4 Type	4 %	5 Type	5 %	Porosity Type	Porosity %	HC Shows (y/n)	Longhand Description
		Clyst	silty	90	dk gy to gy blk	S	F	B					80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
1840		Sst		10	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N	SANDSTONE: as above.
		Clyst	silty	90	dk gy to gy blk	S	F	B					80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
1850		Sst		10	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	0.1	25.0	45.0	25.0	5.0	0.1	100.2	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N	SANDSTONE: clear to translucent, frosted, yellowish grey, minor moderate reddish brown, opaque in parts, loose, very fine to granular, dominantly fine to medium grains, poorly sorted, angular to sub-rounded, sub-elongated to sub-spherical, trace lithics, fair to good inferred porosity.
		Clyst	silty	90	dk gy to gy blk	S	F	B					80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: dark grey to greyish black, soft to firm, blocky, 30% quartz silt, trace quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace glauconite, occasional trace nodular and disseminated pyrite.
1860		Sst		10	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	10.0	25.0	45.0	15.0	5.0	0.1	100.1	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N	SANDSTONE: as above.
		Clyst	silty	90	dk gy to gy blk	S	F	B					80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
1870		Sst		1	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	10.0	25.0	45.0	15.0	5.0	0.1	100.1	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N	SANDSTONE: as above.
		Clyst	silty	99	dk gy to gy blk	S	F	B					80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
1880		Sst		1	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	10.0	25.0	45.0	15.0	5.0	0.1	100.1	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N	SANDSTONE: as above.
		Clyst	silty	99	dk gy to gy blk	S	F	B					80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
1890		Sst		1	clr to trans,frstd,yel gy,mnr mod red brn,opq i/p	L									100.0	100.0	10.0	25.0	45.0	15.0	5.0	0.1	100.1	P		A	SR	SE	SS						Lf	0.1	Py	0.1							g	10	N	SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity				
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)
		Clyst	slty	99	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1								
1900		Sst		5	clr to trans,frstd,yel gy,opq i/p	L								100.0	100.0	15.0	30.0	45.0	10.0	0.1	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N
		Clyst	slty	95	dk gy to gy blk	S	F	B				78.0	20.0	2.0	100.0							0.0												Lf	0.1	C	0.1	G	0.1								
1910		Sst		1	clr to trans,frstd,yel gy,opq i/p	L								100.0	100.0	15.0	30.0	45.0	10.0	0.1	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N
		Clyst	slty	99	dk gy to gy blk	S	F	B				78.0	20.0	2.0	100.0							0.0												Lf	0.1	C	0.1	G	0.1								
1920		Sst		5	clr to trans,frstd,yel gy,opq i/p	L								100.0	100.0	15.0	30.0	45.0	10.0	0.1	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N
		Clyst	slty	95	dk gy to gy blk	S	F	B				78.0	20.0	2.0	100.0							0.0												Lf	0.1	C	0.1	G	0.1								
1930		Sst		20	clr to trans,frstd,yel gy,opq i/p	L								100.0	100.0	15.0	30.0	45.0	10.0	0.1	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N
		Clyst	slty	80	dk gy to gy blk	S	F	B				78.0	20.0	2.0	100.0							0.0												Lf	0.1	C	0.1	G	0.1								
1940		Sst		20	clr to trans,frstd,yel gy,opq i/p	L								100.0	100.0	15.0	30.0	45.0	10.0	0.1	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N
		Clyst	slty	80	dk gy to gy blk	S	F	B				78.0	20.0	2.0	100.0							0.0												Lf	0.1	C	0.1	G	0.1								
1950		Sst		30	clr to trans,frstd,yel gy,opq i/p	L								100.0	100.0	15.0	30.0	45.0	10.0	0.1	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N

Lithology Colours

Longhand Description

SILTY CLAYSTONE: as above.

SANDSTONE: clear to translucent, frosted, yellowish grey, opaque in parts, loose, very fine to granular, dominantly fine to medium grains, occasional trace very coarse and granular, poorly sorted, angular to sub-rounded, sub-elongated to sub-spherical, trace lithics, occasional trace pyrite, fair to good inferred porosity.

SILTY CLAYSTONE: dark grey to greyish black, soft to firm, blocky, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace glauconite, occasional trace nodular and disseminated pyrite.

SANDSTONE: as above.

SILTY CLAYSTONE: as above.

SANDSTONE: as above.

SILTY CLAYSTONE: as above.

SANDSTONE: as above.

SILTY CLAYSTONE: as above.

SANDSTONE: as above.

SILTY CLAYSTONE: as above.

SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

Please have your Office Assistant switched on while using this template. (Press F1)

Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Clyst	slty	70	dk gy to gy blk	S	F	B				78.0	20.0	2.0	100.0							0.0												Lf	0.1	C	0.1	G	0.1										SILTY CLAYSTONE: as above.
1960		Sst		30	clr to trans,frstd,yel gy,opq i/p	L								100.0	100.0	30.0	40.0	25.0	5.0	0.1	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above, becoming dominantly very fine to fine.
		Clyst	slty	70	dk gy to gy blk	S	F	B				78.0	20.0	2.0	100.0							0.0												Lf	0.1	C	0.1	G	0.1										SILTY CLAYSTONE: as above.
1970		Sst		10	clr to trans,frstd,yel gy,opq i/p	L								100.0	100.0	30.0	40.0	25.0	5.0	0.1	0.1	100.2	P		A	SR	SE	SS							Lf	0.1	Py	0.1							g	10	N		SANDSTONE: as above, becoming dominantly very fine to fine.
		Clyst	slty	90	dk gy to gy blk	S	F	B				78.0	20.0	2.0	100.0							0.0												Lf	0.1	C	0.1	G	0.1										SILTY CLAYSTONE: as above.
1980		Sst		5	clr to trans,frstd,yel gy,opq i/p	L								100.0	100.0	30.0	40.0	25.0	5.0	0.1	0.1	100.2	P		A	SR	SE	SS							Lf	0.1									g	10	N		J. Hobday on tour SANDSTONE: as above.
		Clyst	slty	95	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
1990		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2000		Sst		5	clr to trans,frstd,yel gy,opq i/p	L								100.0	100.0	30.0	40.0	25.0	5.0	0.1	0.1	100.2	P		A	SR	SE	SS							Lf	0.1									g	10	N		SANDSTONE: as above.
		Clyst	slty	95	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2010		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1										SILTY CLAYSTONE: as above.
2020		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1										SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
2030		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2040		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2050		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2060		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2070		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
2080		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2090		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	Py	0.1									SILTY CLAYSTONE: as above.
2100		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
2110		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2120		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
2130		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
2140		Clyst	slty	100	dk gy to gy blk	S	F	B				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1											S. Robbie on tour SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
2150		Clyst	slty	100	dk gy to gy blk	S	F	B					80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
2160		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: dark grey to greyish black, soft to firm, blocky to occasionally subfissile, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace glauconite, occasional trace nodular and disseminated pyrite.
2170		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2180		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2190		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2200		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2210		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2220		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2230		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2240		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2250		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2260		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
2270		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2280		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2290		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2300		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2310		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2320		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1											J. Hobday on tour SILTY CLAYSTONE: as above.
2330		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
2340		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
2350		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.
2360		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	Py	0.1									SILTY CLAYSTONE: as above, trace disseminated pyrite.
2370		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	Py	0.1									SILTY CLAYSTONE: as above.
2380		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1											SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
2390		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2400		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2410		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2420		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2430		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2440		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2450		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2460		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2470		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												S. Robbie on tour SILTY CLAYSTONE: as above.
2480		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2490		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1												SILTY CLAYSTONE: as above.
2500		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1										SILTY CLAYSTONE: dark grey to greyish black, soft to firm, blocky to occasionally subfissile, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks, trace glauconite.

Wellsite Lithology Log

Well Name :

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Lithology										Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
										Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
2510		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2520		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2530		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2540		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2550		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2560		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2570		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2580		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									J. Hobday on tour SILTY CLAYSTONE: as above.
2590		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2600		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2610		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
2620		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

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Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Grains: Calcareous: Clay (%)	Calcareous: Silt (%)	Calcareous: Sand (%)	Siliciclastic: Clay (%)	Siliciclastic: Silt (%)	Siliciclastic: Sand (%)	% Total (100%)	Grain Size & Characteristics: Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Cements 1: Type	%	Cements 2: Type	%	Cements 3: Type	%	Accessories 1: Type	%	Accessories 2: Type	%	Accessories 3: Type	%	Accessories 4: Type	%	Accessories 5: Type	%	Porosity: Type	%	HC Shows (y/n)	Longhand Description
2630		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
2640		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
2650		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
2660		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
2670		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
2680		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								S. Robbie on tour SILTY CLAYSTONE: as above.
2690		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
2700		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
2710		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: as above.
2720		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								SILTY CLAYSTONE: dark grey to greyish black, soft to firm, blocky to occasionally subfissile, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks, occasional trace glauconite.
2728		Clyst	slty	90	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1								J. Hobday on tour SILTY CLAYSTONE: as above.
		Sst		10	yel gy,trans,clr	Fr								15.0	85.0	100.0	50.0	40.0	10.0				100.0	M	W	SA	SR	SS	C	0.1					G	0.1	C	0.1	Lf	0.1					g	3	N	SANDSTONE: yellowish grey, translucent, minor clear grains, friable, very fine to med grains, dominantly very fine to fine, moderately to locally well sorted, sub-angular to sub-rounded, sub-spherical, trace calcareous cement, 15% quartz silt, trace glauconite, trace carbonaceous specks and micro-laminations, trace coloured lithics, poor inferred porosity.

Wellsite Lithology Log

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Please Note: **TRACE =0.1** due to database requirements

Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Grains: Calcareous: Clay (%)	Calcareous: Silt (%)	Calcareous: Sand (%)	Siliciclastic: Clay (%)	Siliciclastic: Silt (%)	Siliciclastic: Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY		Cements 1 Type	Cements 1 %	Cements 2 Type	Cements 2 %	Cements 3 Type	Cements 3 %	Accessories 1 Type	Accessories 1 %	Accessories 2 Type	Accessories 2 %	Accessories 3 Type	Accessories 3 %	Accessories 4 Type	Accessories 4 %	Accessories 5 Type	Accessories 5 %	Porosity Type	Porosity %	HC Shows (y/n)	Longhand Description
2730		Clyst	slty	95	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1							SILTY CLAYSTONE: as above.
		Sst		5	yel gy,trans,clr	Fr								15.0	85.0	100.0							0.0						C	0.1					G	0.1	C	0.1	Lf	0.1					g	3	N	SANDSTONE: as above.
2740		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1							SILTY CLAYSTONE: as above.
2745		Clyst	slty	90	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1							SILTY CLAYSTONE: as above.
		Sst		10	clr to trans,frstd,yel gy,off wh	L	Fr							10.0	90.0	100.0		10.0	70.0	20.0			100.0	W	M	SR	SA	SS	SE							C	0.1	Py	0.1	G	0.1	Lf	0.1			g	10	N	SANDSTONE: clear to translucent, frosted, minor yellowish grey to off white, predominantly loose, minor firm aggregates, fine to coarse grains, dominantly medium, well to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 10% quartz silt, trace carbonaceous specks, trace pyrite nodules, trace glauconite, trace coloured lithics, fair inferred porosity.
2750		Clyst	slty	60	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1							SILTY CLAYSTONE: as above.
		Sst		40	clr to trans,frstd,yel gy,off wh	L	Fr							15.0	85.0	100.0		10.0	70.0	20.0			100.0	W	M	SR	SA	SS	SE							C	0.1	Py	0.1	G	0.1	Lf	0.1			g	10	N	SANDSTONE: as above.
2755	U	Clyst	slty	60	dk gy to gy blk	F	H	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1							J. Hobday on tour SILTY CLAYSTONE:dark grey to greyish black, firm to hard, predominantly moderately hard, blocky, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks, occasional trace glauconite.
	U	Sst		40	clr to trans,frstd,yel gy,off wh	L	Fr							15.0	85.0	100.0		10.0	70.0	20.0			100.0	W	M	SR	SA	SS	SE							C	0.1	Py	0.1	G	0.1	Lf	0.1			g	10	N	SANDSTONE: clear to translucent, frosted, minor yellowish grey to off white, predominantly loose, minor firm aggregates, fine to coarse grains, dominantly medium, well to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 10% quartz silt, trace carbonaceous specks, trace pyrite nodules, trace glauconite, trace coloured lithics, fair inferred and poor visual porosity.
2760		Clyst	slty	20	wh to off wh,yel gy,lt olv gy,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1							SILTY CLAYSTONE: white to off white, yellowish grey, light olive grey, dark grey to grey black, soft to firm, blocky, occasionally sub-fissile, 20% quartz silt, trace coloured lithics, trace carbonaceous specks and laminations, trace glauconite.
		Sst		80	clr to trans,frstd,yel gy,off wh	L	Fr							15.0	85.0	100.0	0.1	20.0	70.0	10.0			100.1	M	W	SR	SA	SS	SE							C	0.1	Py	0.1	G	0.1	Lf	0.1			g	10	N	SANDSTONE: as above.
2765		Clyst	slty	20	wh to off wh,yel gy,lt olv gy,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1							SILTY CLAYSTONE: as above.

Lithology Colours

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Sst		80	clr to trans,frstd,yel gy,off wh	L	Fr						15.0	85.0	100.0	0.1	20.0	60.0	20.0	0.1	0.1	100.3	P	M	SR	SA	SS	SE									C	0.1	Py	0.1	G	0.1	Lf	0.1			g	10	N		SANDSTONE: as above.
2770		Clyst	slty	20	wh to off wh,yel gy,lt olv gy,dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	1.0										SILTY CLAYSTONE: as above, increasing glauconite.
		Sst		80	clr to trans,frstd,yel gy,off wh	L	Fr						15.0	85.0	100.0	0.1	20.0	60.0	20.0	0.1	0.1	100.3	P	M	SR	SA	SS	SE									C	0.1	G	0.1	Lf	0.1					g	10	N		SANDSTONE: as above, very fine to granular, predominantly medium, poor to locally moderately sorted, decrease pyrite nodules, poor to fair inferred porosity.
2775		Clyst	slty	20	wh to off wh,yel gy,lt olv gy,dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	1.0										SILTY CLAYSTONE: as above, rare glauconite.
		Sst		80	clr to trans,frstd,yel gy,off wh	L	Fr						15.0	85.0	100.0	0.1	20.0	60.0	20.0	0.1	0.1	100.3	P	M	SR	SA	SS	SE									C	0.1	G	0.1	Lf	0.1					g	10	N		SANDSTONE: as above.
2780		Clyst	slty	20	wh to off wh,yel gy,lt olv gy,dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1										SILTY CLAYSTONE: as above, trace glauconite.
		Sst		80	clr to trans,frstd,yel gy,off wh	L	Fr						15.0	85.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE									C	0.1	G	0.1	Lf	0.1					g	10	N		SANDSTONE: as above.
2785		Clyst	slty	20	wh to off wh,yel gy,lt olv gy,dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1										SILTY CLAYSTONE: as above.
		Sst		80	clr to trans,frstd,yel gy,off wh	L	Fr						15.0	85.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE									C	0.1	G	0.1	Lf	0.1					g	10	N		SANDSTONE: as above.
2790		Clyst	slty	20	wh to off wh,yel gy,lt olv gy,dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1										SILTY CLAYSTONE: as above.
		Sst		80	clr to trans,frstd,yel gy,off wh	L	Fr						15.0	85.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE									C	0.1	G	0.1	Lf	0.1					g	10	N		SANDSTONE: as above.
2795		Clyst	slty	20	wh to off wh,yel gy,lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1										SILTY CLAYSTONE: as above.

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Sst		80	clr to trans,frstd,yel gy,off wh	L	Fr						15.0	85.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		SANDSTONE: as above.
2800		Clyst	slty	20	wh to off wh,yel gy,lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst		80	clr to trans,frstd,yel gy,off wh	L	Fr						15.0	85.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		SANDSTONE: as above.
2805		Clyst	slty	20	wh to off wh,yel gy,lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst		80	clr to trans,frstd,yel gy,off wh	L	Fr						15.0	85.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		SANDSTONE: as above.
2810		Clyst	slty	30	wh to off wh,yel gy,lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst		70	clr to trans,frstd,yel gy,off wh	L	Fr						15.0	85.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		SANDSTONE: as above.
2815		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: light olive grey, dark grey to grey black, soft to firm, blocky, occasionally sub-fissile, 20% quartz silt, trace coloured lithics, trace carbonaceous specks and laminations, trace glauconite.
		Sst	arg	90	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	70.0	10.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: clear to translucent, frosted, minor yellowish grey to off white, predominantly loose, minor firm aggregates, fine to coarse grains, dominantly medium, well to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace glauconite, trace coloured lithics, fair inferred and poor visual porosity.
2820		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2825		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE									C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2830		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0														Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE									C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2835		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0														Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE									C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2840		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0														Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE									C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2845		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0														Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE									C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2850		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0														Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE									C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2855		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0														Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2860		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									S. Robbie on tour SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2865		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2870		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2875		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2880		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2885		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2890		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2895		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2900		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2905		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2910		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy,off wh	L	Fr					30.0		70.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2915		Clyst	slty	5	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: dark grey to grey black, soft to firm, blocky, occasionally sub-fissile, 20% quartz silt, trace coloured lithics, trace carbonaceous specks and laminations, trace glauconite.

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.1	G	0.1	Lf	0.1					g	10	N		ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellow brown, predominantly loose, minor firm aggregates, very fine to coarse grains, dominantly fine to medium, well to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace glauconite, trace coloured lithics, fair inferred and poor visual porosity.
2920		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2925		Clyst	slty	1	lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2930		Clyst	slty	1	lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2935		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.1	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2940		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2945		Clyst	slty	40	lt olv gy,mnr dk gy to gy blk	S	F	B	SF			80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
		Sst	arg	60	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N	ARGILLACEOUS SANDSTONE: as above.
2950		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N	ARGILLACEOUS SANDSTONE: as above.
2955		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N	ARGILLACEOUS SANDSTONE: as above.
2960		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N	ARGILLACEOUS SANDSTONE: as above.
2965		Clyst	slty	1	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: dark grey to grey black, soft to firm, blocky, occasionally sub-fissile, 20% quartz silt, trace coloured lithics, trace carbonaceous specks and laminations, trace glauconite.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N	ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellow brown, predominantly loose, minor firm aggregates, very fine to coarse grains, dominantly fine to medium, well to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks and laminae, trace glauconite, trace coloured lithics, fair inferred and poor visual porosity
2970		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N	ARGILLACEOUS SANDSTONE: as above.
2975		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2980		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2985		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2990		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
2995		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3000		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: dark grey to grey black, soft to firm, blocky, occasionally sub-fissile, 20% quartz silt, trace coloured lithics, trace carbonaceous specks and laminations, trace glauconite.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellow brown, predominantly loose, minor firm aggregates, very fine to coarse grains, dominantly fine to medium, well to locall moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks and laminae, trace glauconite, trace coloured lithics, fair inferred and poor visual porosity
3005		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									J. Hobday on tour SILTY CLAYSTONE: as above.

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3010		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3015		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3020		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3025		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3030		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	G	0.1	Lf	0.3					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3035		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3									SILTY CLAYSTONE: as above, decreasing glauconite.

Wellsite Lithology Log

Well Name :

Please have your Office Assistant switched on while using this template. (Press F1)

Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.3							g	10	N		ARGILLACEOUS SANDSTONE: as above, decreasing glauconite.
3040		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.3							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3045		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.3							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3050		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.3							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3055		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.2							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3060		Clyst	slty	15	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	85	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.2							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3065		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.2							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3070		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.2							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3075		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.2							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3080		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.2							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3085		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.2							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3090		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.2							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3095		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												C	0.3	Lf	0.1											SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3100		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											C	0.3	Lf	0.1										SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3105		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											C	0.3	Lf	0.1										SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3110		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											C	0.3	Lf	0.1										SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.3	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3115		Clyst	slty	60	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											C	0.3	Lf	0.1										SILTY CLAYSTONE: dark grey to greyish black, soft to firm, blocky to occasionally subfissile, 20% quartz silt, trace to rare quartz sand grains, trace coloured lithics, trace carbonaceous specks.
		Sst		40	clr to trans,frstd,yel gy to dk yel brn	L	Fr					15.0		85.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	M	P	SR	SA	SS	SE							C	0.1	Lf	0.1							g	8	N	SANDSTONE: clear to translucent, frosted, yellowish grey grains, loose, friable aggregates, very fine to coarse grains, dominantly fine to medium, moderately to locally poor sorted, sub-angular to sub-rounded, sub-spherical to sub-elongate, 15% quartz clay, trace glauconite, trace carbonaceous specks, trace coloured lithics, poor inferred porosity.
3120		Clyst	slty	90	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											C	0.1	Lf	0.1										SILTY CLAYSTONE: as above.
		Sst		10	clr to trans,frstd,yel gy to dk yel brn	L	Fr					15.0		85.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.1	Lf	0.1							g	8	N	SANDSTONE: as above.
3125		Clyst	slty	90	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											C	0.1	Lf	0.1										SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
		Sst		10	clr to trans,frstd,yel gy to dk yel brn	L	Fr					15.0		85.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.1	Lf	0.1							g	8	N		SANDSTONE: as above.
3130		Clyst	slty	95	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												C	0.1	Lf	0.1											SILTY CLAYSTONE: as above.
		Sst		5	clr to trans,frstd,yel gy to dk yel brn	L	Fr					15.0		85.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	M	W	SR	SA	SS	SE							C	0.1	Lf	0.1							g	8	N		SANDSTONE: as above.
3135		Clyst	slty	95	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												C	0.1	Lf	0.1											SILTY CLAYSTONE: as above.
		Sst		5	clr to trans,frstd,yel gy to dk yel brn	L	Fr					15.0		85.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	M	W	SR	SA	SS	SE							C	0.1	Lf	0.1							g	8	N		SANDSTONE: as above.
3140		Clyst	slty	95	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												C	0.1	Lf	0.1											SILTY CLAYSTONE: as above.
		Sst		5	clr to trans,frstd,yel gy to dk yel brn	L	Fr					15.0		85.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	M	W	SR	SA	SS	SE							C	0.1	Lf	0.1							g	8	N		SANDSTONE: as above.
3145		Clyst	slty	99	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												C	0.1	Lf	0.1	G	0.1									SILTY CLAYSTONE: as above, trace glauconite.
		Sst		1	clr to trans,frstd,yel gy to dk yel brn	L	Fr					15.0		85.0	100.0	0.1	20.0	60.0	20.0	0.1		100.2	M	W	SR	SA	SS	SE							C	0.1	Lf	0.1							g	8	N		SANDSTONE: as above.
3150		Clyst	slty	95	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												C	0.1	Lf	0.1											SILTY CLAYSTONE: as above, no glauconite.
		Sst		5	clr to trans,frstd,yel gy to dk yel brn	L	Fr					15.0		85.0	100.0		10.0	80.0	10.0			100.0	M	W	SR	SA	SS	SE							C	0.1	Lf	0.1							g	8	N		SANDSTONE: as above.
3155		Clyst	slty	90	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												C	0.1	Lf	0.1											SILTY CLAYSTONE: as above.

Wellsite Lithology Log

Well Name :

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Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Grains: Calcareous: Clay (%)	Calcareous: Silt (%)	Calcareous: Sand (%)	Siliciclastic: Clay (%)	Siliciclastic: Silt (%)	Siliciclastic: Sand (%)	% Total (100%)	Grain Size & Characteristics: Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY		Cements 1: Type	%	Cements 2: Type	%	Cements 3: Type	%	Accessories 1: Type	%	Accessories 2: Type	%	Accessories 3: Type	%	Accessories 4: Type	%	Accessories 5: Type	%	Porosity: Type	%	HC Shows (y/n)	Lithology Colours	Longhand Description
		Sst		10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						15.0		85.0	100.0		10.0	80.0	10.0			100.0	M	W	SR	SA	SS	SE							C	0.1	Lf	0.1									g	8	N		SANDSTONE: as above.
3160		Clyst	slty	80	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													C	0.1	Lf	0.1	G	0.1											SILTY CLAYSTONE: as above, trace glauconite.
		Sst		20	clr to trans,frstd,yel gy to dk yel brn	L	Fr						15.0		85.0	100.0		10.0	80.0	10.0			100.0	M	W	SR	SA	SS	SE							C	0.1	Lf	0.1									g	8	N		SANDSTONE: as above.
3165		Clyst	slty	90	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													C	0.1	Lf	0.1	G	0.1											SILTY CLAYSTONE: as above.
		Sst		10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						15.0		85.0	100.0		10.0	80.0	10.0			100.0	M	W	SR	SA	SS	SE							C	0.1	Lf	0.1									g	8	N		SANDSTONE: as above.
3170		Clyst	slty	100	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													C	0.1	Lf	0.1	G	0.1											SILTY CLAYSTONE: as above.
3175		Clyst	slty	95	dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													C	0.1	Lf	0.1	G	0.1											SILTY CLAYSTONE: as above.
		Sst		5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						15.0		85.0	100.0		10.0	80.0	10.0			100.0	M	W	SR	SA	SS	SE							C	0.1	Lf	0.1									g	8	N		SANDSTONE: as above.
3180		Clyst	slty	30	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													Lf	0.1	C	0.3											SILTY CLAYSTONE: dark grey to grey black, soft to firm, blocky, occasionally sub-fissile, 20% quartz silt, trace coloured lithics, trace carbonaceous specks and laminations, trace glauconite.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1									g	10	N		ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellow brown, predominantly loose, minor firm aggregates, very fine to coarse grains, dominantly fine to medium, poor to locally moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, fair inferred and poor visual porosity.
3185		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1									g	10	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
3190		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.3											S. Robbie on tour SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3195		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3200		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.3											S. Robbie on tour SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3205		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3210		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3215		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3220		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3225		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3230		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.3											J. Hobday on tour SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3235		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3240		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.3											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3245		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3250		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3255		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3260		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3265		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3270		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3275		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above, trace glauconite.

Wellsite Lithology Log

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									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
3280		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above.
3285		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above.
3290		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above.
3295		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1	0.1	100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above.
3300		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: light olive grey to olive grey, dark grey to greyish black, soft to firm, blocky to occasional sub-fissile, 20%quartz silt, trace quartz sand, trace coloured lithics, trace carbonaceous specks and micro-laminations.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1	0.1	100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above, trace granular grains.
3305		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1	0.1	100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3310		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1	0.1	100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3315		Clyst	slty	20	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1	0.1	100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3320		Clyst	slty	15	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	85	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	50.0	10.0	0.1	0.1	100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3325		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	30.0	45.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor firm aggregates, very fine to coarse grains, predominantly medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and visual porosity.
3330		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	30.0	45.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3335		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	30.0	45.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

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									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3340		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	30.0	45.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3345		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	30.0	45.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3350		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	30.0	45.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3355		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	30.0	45.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3360		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	30.0	45.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3365		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	35.0	40.0	5.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3370		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	35.0	40.0	5.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N	ARGILLACEOUS SANDSTONE: as above.
3375		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	35.0	40.0	5.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N	ARGILLACEOUS SANDSTONE: as above.
3380		Clyst	slty	1	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	35.0	40.0	5.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N	ARGILLACEOUS SANDSTONE: as above.
3385		Clyst	slty	1	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N	ARGILLACEOUS SANDSTONE: as above.
3390		Clyst	slty	1	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N	ARGILLACEOUS SANDSTONE: as above.
3395		Clyst	slty	1	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	10	N	ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity				Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5							
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3400		Clyst	slty	1	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3405		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	10	N		ARGILLACEOUS SANDSTONE: as above.
3410		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above, trace glauconite.
3415		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3420		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3425		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3430		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											S. Robbie on tour SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3435		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3440		Clyst	slty	1	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3445		Clyst	slty	1	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3450		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3455		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: light olive grey to olive grey, dark grey to greyish black, soft to firm, blocky to occasional sub-fissile, 20%quartz silt, trace quartz sand, trace coloured lithics, trace carbonaceous specks and micro-laminations.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr					30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to coarse grains, predominantly medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and visual porosity.

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
3460		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above.
3465		Clyst	slty	1	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above.
3470		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above.
3475		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above.
3480		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above.
3485		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,y el gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	10	N	ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3490		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3495		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3500		Clyst	slty	5	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3505		Clyst	slty	10	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3510		Clyst	slty	30	lt olv gy,mnr dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to coarse grains, predominantly medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and visual porosity.
3515		Clyst	slty	90	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: olive grey to olive black, dark grey to greyish black, soft to firm, blocky to occasional sub-fissile, 20%quartz silt, trace quartz sand, trace coloured lithics, trace carbonaceous specks and micro-laminations, trace glauconite.
		Sst	arg	10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
3520		Clyst	slty	90	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3525		Clyst	slty	70	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	30	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3530		Clyst	slty	40	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	60	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	15.0	35.0	40.0	10.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3535		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	40.0	20.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	10	N		ARGILLACEOUS SANDSTONE: as above.
3540		Clyst	slty	20	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	40.0	20.0			100.0	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	12	N		ARGILLACEOUS SANDSTONE: as above.
3545		Clyst	slty	10	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: olive grey to olive black, dark grey to greyish black, soft to firm, blocky to occasional sub-fissile, 20%quartz silt, trace quartz sand, trace coloured lithics, trace carbonaceous specks and micro-laminations, trace glauconite.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	40.0	20.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	12	N		ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to very coarse grains, predominantly medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 20 - 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and visual porosity.

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3550		Clyst	slty	5	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1								SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	40.0	20.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	12	N	ARGILLACEOUS SANDSTONE: as above.
3555		Clyst	slty	5	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1								SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						20.0		80.0	100.0	10.0	30.0	40.0	20.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	12	N	ARGILLACEOUS SANDSTONE: as above, 20% quartz clay.
3560		Clyst	slty	1	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1								SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr						20.0		80.0	100.0	10.0	30.0	40.0	20.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	12	N	ARGILLACEOUS SANDSTONE: as above.
3565		Clyst	slty	1	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1								SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr						20.0		80.0	100.0	10.0	30.0	40.0	20.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	12	N	ARGILLACEOUS SANDSTONE: as above.
3570		Clyst	slty	1	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1								SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr						20.0		80.0	100.0	10.0	30.0	40.0	20.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	12	N	ARGILLACEOUS SANDSTONE: as above.
3575		Clyst	slty	1	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1								SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr						20.0		80.0	100.0	10.0	30.0	40.0	20.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	12	N	ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories												Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5								
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3580		Clyst	slty	1	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr						20.0		80.0	100.0	10.0	30.0	40.0	20.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	12	N		ARGILLACEOUS SANDSTONE: as above.
3585		Clyst	slty	1	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr						20.0		80.0	100.0	10.0	30.0	40.0	20.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	12	N		ARGILLACEOUS SANDSTONE: as above.
3590		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	40.0	20.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	12	N		ARGILLACEOUS SANDSTONE: as above, 30% quartz clay.
3595		Clyst	slty	10	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	40.0	20.0	0.1		100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	12	N		ARGILLACEOUS SANDSTONE: as above.
3600		Clyst	slty	80	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: olive grey to olive black, medium grey to dark grey, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace carbonaceous specks and micro-laminations, trace glauconite.
		Sst	arg	20	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	12	N		ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to coarse grains, predominantly fine to medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, poor inferred and visual porosity.
3605		Clyst	slty	60	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	40	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	8	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

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Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Grains: Calcareous: Clay (%)	Calcareous: Silt (%)	Calcareous: Sand (%)	Siliciclastic: Clay (%)	Siliciclastic: Silt (%)	Siliciclastic: Sand (%)	% Total (100%)	Grain Size & Characteristics: Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY		Cements 1: Type	%	Cements 2: Type	%	Cements 3: Type	%	Accessories 1: Type	%	Accessories 2: Type	%	Accessories 3: Type	%	Accessories 4: Type	%	Accessories 5: Type	%	Porosity: Type	%	HC Shows (y/n)	Longhand Description
3610		Clyst	slty	95	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													Lf	0.1	C	0.2	G	0.1								J. Hobday on tour SILTY CLAYSTONE: as above.
		Sst		5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						10.0		90.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	8	N	SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor firm aggregates, very fine to trace coarse grains, predominantly fine to medium, poor to moderately sorted, sub-rounded to sub-angular, sub-elongated to sub-spherical, 10% quartz clay cement, trace carbonaceous specks, trace lithics, trace glauconite, fair inferred and poor visual porosity.
3615		Clyst	slty	95	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													Lf	0.1	C	0.2	G	0.1								SILTY CLAYSTONE: as above.
		Sst		5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						10.0		90.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	8	N	SANDSTONE: as above.
3620		Clyst	slty	99	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													Lf	0.1	C	0.2	G	0.1								SILTY CLAYSTONE: as above.
		Sst		1	clr to trans,frstd,yel gy to dk yel brn	L	Fr						10.0		90.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	8	N	SANDSTONE: as above.
3625		Clyst	slty	99	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													Lf	0.1	C	0.2	G	0.1								SILTY CLAYSTONE: as above.
		Sst		1	clr to trans,frstd,yel gy to dk yel brn	L	Fr						10.0		90.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	8	N	SANDSTONE: as above.
3630		Clyst	slty	99	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													Lf	0.1	C	0.2	G	0.1								SILTY CLAYSTONE: as above.
		Sst		1	clr to trans,frstd,yel gy to dk yel brn	L	Fr						10.0		90.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	8	N	SANDSTONE: as above.
3635		Clyst	slty	99	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0													Lf	0.1	C	0.2	G	0.1								SILTY CLAYSTONE: as above.
		Sst		1	clr to trans,frstd,yel gy to dk yel brn	L	Fr						10.0		90.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1	G	0.1					g	8	N	SANDSTONE: as above.

Wellsite Lithology Log

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Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Grains: Calcareous: Clay (%)	Calcareous: Silt (%)	Calcareous: Sand (%)	Siliciclastic: Clay (%)	Siliciclastic: Silt (%)	Siliciclastic: Sand (%)	% Total (100%)	Grain Size & Characteristics: Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Cements 1 Type	1 %	2 Type	2 %	3 Type	3 %	Accessories 1 Type	1 %	2 Type	2 %	3 Type	3 %	4 Type	4 %	5 Type	5 %	Porosity Type	Porosity %	HC Shows (y/n)	Lithology Colours	Longhand Description
3640		Clyst	slty	99	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst		1	clr to trans,frstd,yel gy to dk yel brn	L	Fr						10.0		90.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		SANDSTONE: as above.
3645		Clyst	slty	99	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst		1	clr to trans,frstd,yel gy to dk yel brn	L	Fr						10.0		90.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		SANDSTONE: as above.
3650		Clyst	slty	99	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst		1	clr to trans,frstd,yel gy to dk yel brn	L	Fr						10.0		90.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		SANDSTONE: as above.
3655		Clyst	slty	99	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst		1	clr to trans,frstd,yel gy to dk yel brn	L	Fr						10.0		90.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		SANDSTONE: as above.
3660		Clyst	slty	99	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst		1	clr to trans,frstd,yel gy to dk yel brn	L	Fr						10.0		90.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		SANDSTONE: as above.
3665		Clyst	slty	95	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to coarse grains, predominantly fine to medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, poor inferred and visual porosity.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
3670		Clyst	slty	95	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		ARGILLACEOUS SANDSTONE: as above.
3675		Clyst	slty	99	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	1	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		ARGILLACEOUS SANDSTONE: as above.
3680		Clyst	slty	60	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	40	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		ARGILLACEOUS SANDSTONE: as above.
3685		Clyst	slty	20	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	55.0	5.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		ARGILLACEOUS SANDSTONE: as above.
3690		Clyst	slty	10	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	55.0	5.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		ARGILLACEOUS SANDSTONE: as above.
3695		Clyst	slty	10	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	55.0	5.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1	G	0.1					g	8	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3700		Clyst	slty	10	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	55.0	5.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	8	N		ARGILLACEOUS SANDSTONE: as above.
3705		Clyst	slty	10	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	10.0	30.0	55.0	5.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	8	N		ARGILLACEOUS SANDSTONE: as above.
3710		Clyst	slty	40	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2	G	0.1									SILTY CLAYSTONE: as above.
		Sst	arg	60	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	45.0	5.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1	G	0.1					g	8	N		ARGILLACEOUS SANDSTONE: as above.
3715		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	45.0	5.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1								g	8	N		ARGILLACEOUS SANDSTONE: as above.
3720		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	45.0	5.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1								g	8	N		ARGILLACEOUS SANDSTONE: as above.
3725		Clyst	slty	40	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	60	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	45.0	5.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1								g	8	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Grains: Calcareous: Clay (%)	Calcareous: Silt (%)	Calcareous: Sand (%)	Siliciclastic: Clay (%)	Siliciclastic: Silt (%)	Siliciclastic: Sand (%)	% Total (100%)	Grain Size & Characteristics: Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Cements 1: Type	%	Cements 2: Type	%	Cements 3: Type	%	Accessories 1: Type	%	Accessories 2: Type	%	Accessories 3: Type	%	Accessories 4: Type	%	Accessories 5: Type	%	Porosity: Type	%	HC Shows (y/n)	Lithology Colours	Longhand Description
3730		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1								g	8	N		ARGILLACEOUS SANDSTONE: as above.
3735		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1								g	8	N		ARGILLACEOUS SANDSTONE: as above.
3740		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1								g	8	N		ARGILLACEOUS SANDSTONE: as above.
3745		Clyst	slty	20	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1								g	8	N		ARGILLACEOUS SANDSTONE: as above.
3750		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1								g	8	N		ARGILLACEOUS SANDSTONE: as above.
3755		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0												Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE							C	0.2	Lf	0.1								g	8	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3760		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3765		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	40.0	40.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3770		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3775		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3780		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N		ARGILLACEOUS SANDSTONE: as above.
3785		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											S. Robbie on tour SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
3790		Clyst	slty	10	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: olive grey to olive black, medium grey to dark grey, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace carbonaceous specks and micro-laminations, trace glauconite.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to coarse grains, predominantly fine to medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, poor inferred and visual porosity.
3795		Clyst	slty	20	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3800		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3805		Clyst	slty	40	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	60	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3810		Clyst	slty	30	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	70	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3815		Clyst	slty	70	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	30	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Grains: Calcareous: Clay (%)	Calcareous: Silt (%)	Calcareous: Sand (%)	Siliciclastic: Clay (%)	Siliciclastic: Silt (%)	Siliciclastic: Sand (%)	% Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Cements 1 Type	Cements 1 %	Cements 2 Type	Cements 2 %	Cements 3 Type	Cements 3 %	Accessories 1 Type	Accessories 1 %	Accessories 2 Type	Accessories 2 %	Accessories 3 Type	Accessories 3 %	Accessories 4 Type	Accessories 4 %	Accessories 5 Type	Accessories 5 %	Porosity Type	Porosity %	HC Shows (y/n)	Longhand Description
3820		Clyst	slty	70	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2									SILTY CLAYSTONE: as above.
		Sst	arg	30	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3825		Clyst	slty	80	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2									SILTY CLAYSTONE: as above.
		Sst	arg	20	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3830		Clyst	slty	70	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2									SILTY CLAYSTONE: as above.
		Sst	arg	30	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3835		Clyst	slty	70	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2									SILTY CLAYSTONE: as above.
		Sst	arg	30	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3840		Clyst	slty	70	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2									SILTY CLAYSTONE: as above.
		Sst	arg	30	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	40.0	30.0	0.1			100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3845		Clyst	slty	20	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2									SILTY CLAYSTONE: olive grey to olive black, medium grey to dark grey, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace carbonaceous specks and micro-laminations, trace glauconite.
		Sst	arg	80	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	12	N	ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to very coarse grains, predominantly medium, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, fair inferred and visual porosity.

Lithology Colours

Wellsite Lithology Log

Well Name :

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Please Note: **TRACE =0.1** due to database requirements

Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3850		Clyst	slty	5	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	12	N		ARGILLACEOUS SANDSTONE: as above.
3855		Clyst	slty	1	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	12	N		ARGILLACEOUS SANDSTONE: as above.
3860		Clyst	slty	1	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	12	N		ARGILLACEOUS SANDSTONE: as above.
3865		Clyst	slty	1	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	12	N		ARGILLACEOUS SANDSTONE: as above.
3870		Clyst	slty	1	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	12	N		ARGILLACEOUS SANDSTONE: as above.
3875		Clyst	slty	1	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2											SILTY CLAYSTONE: as above.
		Sst	arg	99	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	12	N		ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

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Lithology									Grains							Grain Size & Characteristics										Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%											1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)	
3880		Clyst	slty	5	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	95	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	12	N	ARGILLACEOUS SANDSTONE: as above.
3885		Clyst	slty	10	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	90	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	20.0	30.0	40.0	10.0	0.1		100.1	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	12	N	ARGILLACEOUS SANDSTONE: as above.
3890		Clyst	slty	40	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	60	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3895		Clyst	slty	90	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: olive grey to olive black, medium grey to dark grey, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace carbonaceous specks and micro-laminations, trace glauconite.
		Sst	arg	10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to very coarse grains, predominantly fine, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, trace glauconite, poor inferred and visual porosity.
3900		Clyst	slty	95	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3905		Clyst	slty	95	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0										Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE					C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3910		Clyst	slty	95	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1						g	8	N	ARGILLACEOUS SANDSTONE: as above.
3915		Clyst	slty	95	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1						g	8	N	ARGILLACEOUS SANDSTONE: as above.
3920		Clyst	slty	95	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1						g	8	N	ARGILLACEOUS SANDSTONE: as above.
3925		Clyst	slty	95	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1						g	8	N	ARGILLACEOUS SANDSTONE: as above.
3930		Clyst	slty	95	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	5	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1						g	8	N	ARGILLACEOUS SANDSTONE: as above.
3935		Clyst	slty	90	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1						g	8	N	ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

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Lithology									Grains							Grain Size & Characteristics											Cements						Accessories										Porosity			Lithology Colours	Longhand Description
									Calcareous			Siliciclastic			%												1		2		3		1		2		3		4		5						
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture	Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)	Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)		
3940		Clyst	slty	90	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3945		Clyst	slty	90	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3950		Clyst	slty	90	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										J. Hobday on tour SILTY CLAYSTONE: as above.
		Sst	arg	10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3955		Clyst	slty	90	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	20	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3960		Clyst	slty	80	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3965		Clyst	slty	90	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.

Wellsite Lithology Log

Well Name :

Please have your Office Assistant switched on while using this template. (Press F1)

Please Note: **TRACE =0.1** due to database requirements

Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness		Fracture		Grains: Calcareous: Clay (%)	Calcareous: Silt (%)	Calcareous: Sand (%)	Siliciclastic: Clay (%)	Siliciclastic: Silt (%)	Siliciclastic: Sand (%)	% Total (100%)	Grain Size & Characteristics: Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING		ROUNDING		SPHERICITY	Cements 1: Type	%	Cements 2: Type	%	Cements 3: Type	%	Accessories 1: Type	%	Accessories 2: Type	%	Accessories 3: Type	%	Accessories 4: Type	%	Accessories 5: Type	%	Porosity: Type	%	HC Shows (y/n)	Longhand Description
3970		Clyst	silty	90	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3975		Clyst	silty	85	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	15	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3980		Clyst	silty	90	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	10	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3985		Clyst	silty	85	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: as above.
		Sst	arg	15	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: as above.
3987		Clyst	silty	85	olv gy to olv blk,dk gy to gy blk	S	F	B	SF				80.0	20.0	0.1	100.1							0.0											Lf	0.1	C	0.2										SILTY CLAYSTONE: olive grey to olive black, medium grey to dark grey, soft to firm, blocky to occasional sub-fissile, 20% quartz silt, trace quartz sand, trace carbonaceous specks and micro-laminations.
		Sst	arg	15	clr to trans,frstd,yel gy to dk yel brn	L	Fr						30.0		70.0	100.0	30.0	50.0	20.0	0.1	0.1		100.2	P	M	SR	SA	SS	SE						C	0.2	Lf	0.1							g	8	N	ARGILLACEOUS SANDSTONE: clear to translucent, frosted, yellowish grey to dark yellowish brown, predominantly loose, minor friable aggregates, very fine to very coarse grains, predominantly fine, poor to moderately sorted, sub-rounded to sub-angular, sub-spherical to sub-elongated, 30% quartz clay, trace carbonaceous specks, trace coloured lithics, poor inferred and visual porosity.
																0.0							0.0																									TD of 3987mMDRT, reached at 1930hrs,26 August, 2006.
																0.0							0.0																									

Lithology Colours

Litholog Description Codes

Lithology	
Anh	Anhydrite
C	Coal
Cgl	Conglomerate
Ca	Calcarenite
Cht	Chert
Cl	Calcilutite
Clyst	Claystone
Cr	Calcirudite
Ct	Calcisiltite
Dol	Dolomite
Gyp	Gypsum
Lst	Limestone
MM	Metamorphic
Non	None
Plut	Plutonic
Salt/Ev	Salt-Evaporite
Sst	Sandstone
Sltst	Siltstone
Tuf	Tuff
Vol	Volcanic
Unsp	Unspecified

Modifier	
arg	ARGILLACEOUS
calc	CALCAREOUS
carb	CARBONACEOUS
dol	DOLOMITIC
glc	GLAUCONITIC
kaol	KAOLINITIC
mic	MICACEOUS
ool	OOLITIC
py	PYRITIC
sdy	SANDY
sid	SIDERITIC
sil	SILICEOUS

Colour	
wh	white
gy	grey
blk	black
rd	red
pk	pink
pu	purple
orng	orange
brn	brown
yel	yellow
grn	green
ol	olive
bl	blue
cl	colourless
multi	multicoloured
trans	translucent
lt	light
dk	dark
mod	moderate
vgt	variegated

Hardness	
L	Loose
VS	Very soft
S	Soft
Fr	Friable
F	Firm
MH	Moderately hard
H	Hard
Fracture	
A	amorphous,
Ang	angular,
B	blocky,
SB	sub-blocky,
Conc	conchoidal,
Disp	dispersive,
F	fissile,
SF	sub-fissile,
M	massive,
Sp	splintery,
St	sticky,
Porosity	
g	granular
v	vugular
I	intra-skeletal
f	fracture

Rounding	
WR	Well Rounded
R	Rounded
SR	Sub-rounded
SA	Sub-angular
A	Angular
Sorting	
VP	Very Poor
P	Poor
M	Moderately
W	Well
VW	Very Well
Sphericity	
VE	Very Elongated
E	Elongated
SE	Slightly Elongated
SS	Slightly Spherical
S	Spherical
VS	Very Spherical
Cements	
Q	Silica
P	Pyrite
C	Calcite
D	Dolomite
Sd	Siderite

Accessories	
Cx	Calcite crystals
Ch	Chert
Ce	Chlorite
Cc	Coal/Lignite
C	Coal
F	Feldspar
G	Glauconite
Gp	Gypsum
He	Hematite
Lf	Lithic Fragments
Mc	Mica
Py	Pyrite
Qx	Quartz crystals
Sc	Siderite Concretions
Al	Algae
Br	Bryozoa
Co	Corals
Cr	Crinoid
Fo	Foram
I	Inoceramus
O	Ooliths
Os	Ostracod
Rd	Radiolaria
Sk	Skel Frag

Hydrocarbon Show Codes

Stain

bl	blue
brn	brown
gn	gold
or	orange
vi	violet
yl	yellow
wh	white
col	colourless
stra	straw
am	amber
pl	pale
lt	light
dk	dark

Odour

No	None
Sli	Slight
Mod	Moderate
Stg	Strong

Intensity

VD	Very Dull
D	Dull
MB	Mod. Bright
B	Bright
VDD	Very Dull - Dull
VDMB	Very Dull - Mod. Bright
VDB	Very Dull - Bright
DMB	Dull - Mod. Bright
DB	Dull to Bright
MBB	Mod Bright - Bright

Distribution

PP	Pinpoint
S	Spotty
P	Patchy
E	Even
PPS	Pinpoint - Spotted
PPP	Pinpoint - Patchy
PPE	Pinpoint - Even
PE	Patchy - Even

Cut Rate

N	Nil
VS	Very Slow
S	Slow
MF	Mod. Fast
F	Fast
VF	Very Fast
I	Instant

Colour

wh	white
gy	grey
blk	black
rd	red
pk	pink
pu	purple
orng	orange
brn	brown
yel	yellow
grn	green
ol	olive
bl	blue
cl	colourless
multi	multicoloured
trans	translucent
lt	light
dk	dark
mod	moderate
vgt	variegated

Cut Type

D	Diffuse
Bld	Bleeding
S	Streaming
Blm	Blooming

Show Rating

P	Poor
F	Fair
G	Good
VG	Very Good
E	Excellent

Thickness

Tk	Thick
mTk	mod Thick
mTn	mod Thin
Tn	Thin
P	Patchy

C

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Rock Types--colours

Sample Contaminated or Missed

	(S)	**Claystone**		**(An)**	**Anhydrite**
	(SC)	**Claystone, Calc**		**(Gp)**	**Gypsum**
"	**(T)**	**Siltstone**		**(Ha)**	**Halite**
	(A)	**Sandstone**			
	(R)	**Conglomerate**		**(C)**	**Coal**
	(X)	**Limestone (recrystallised)**			
	(Cl)	**Calcilutite**		**(Cht)**	**Chert**
	(Ct)	**Calcisiltite**			
	(Ca)	**Calcarenite**		**(MM)**	**Metamorphic**
	(Cr)	**Calcirudite**		**(Plut)**	**Plutonic**
	(D)	**Dolomite**		**(Vol)**	**Volcanic**

" " silty

.... sandy

—— argillaceous

Mudlogging
End of Well Report

THA04

FINAL WELL REPORT

Prepared by

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B.	Formation Evaluation Log	Scale 1:500
C.	Drilling Data Log	Scale 1:1000
D.	Pressure Evaluation Log	Scale 1:1000
E.	Gas Evaluation Log	Scale 1:500

1.0 WELL DATA SUMMARY

All depths are measured depths from rotary table (MDRT) unless otherwise specified.

Well Name	: THA04
Field	: Thylacine
Permit	: T/L2
Operator	: Woodside Energy Ltd
Drilling Rig	: Maersk Guardian
Well Classification	: Deviated Development
Surface Location	
Latitude	: 39° 14' 14.56" S
Longitude	: 142° 54' 07.58" E
Easting	: 664161.0 m E
Northing	: 5655156.8 m N
Depth Reference	: Rotary Table
Water Depth	: 99.3 m
Rotary Table to L.A.T	: 50.5 m
Rotary Table to Seabed	: 149.8 m
Casing Data	: (1) 660mm (26") casing shoe at 217.0 mMDRT
	: (2) 433mm ($18^5/_8$") casing shoe at 633.0 mMDRT
	: (3) 244mm ($9^5/_8$") casing shoe at 2742.8 mMDRT
	: (4) 178mm (7") liner shoe at 3985.0 mMDRT
Hole Size	: (1) 584mm (23") hole from 217 m to 638 m
	: (2) 311mm (12¼") hole from 638 m to 2751m
	: (3) 216mm (8½") hole from 2751m to 3987m
Mud Type	: (1) Seawater with Gel Sweeps
	: (2) Synthetic Oil base Mud
Offset Wells	: Thylacine South-1, THA01, THA02, THA03
Proposed Total Depth	: 4878 mMDRT (2239.5 mTVDRT)
Actual Total Depth :	: 3987 mMDRT (2253.8 mTVDRT)
Spud Date	: 08:00 hrs, 12th August 2006
Date TD Reached	: 19:30 hrs, 26th August 2006
Well Status	: Cased and Completed

2.0 GENERAL INFORMATION

2.1 Executive Summary

THA04 was drilled by the Maersk Guardian drilling rig as a production well in permit block T/L2 in the Otway Basin. The 30" and 23" hole sections were drilled originally as an exploration well (Thylacine South-1) that was plugged back and abandoned. THA04 was kicked off outside the existing Thylacine South-1 18$^{5}/_{8}$" shoe. The 23" section described in this report refer to the data originally supplied in the previous Thylacine South-1 FWR.

584 mm (23") Section

Bit #2, a 584 mm (23") Varel ETRIG, with 2 x 22, 1 x 20 and 1 x 16 jets was made up with BHA and run in the hole. The cement was tagged at 216.5mMDRT and the 584 mm (23") hole was drilled down to a TD of 638 mMDRT (638 mTVD). This bit drilled 421m in 15.2 on bottom drilling hours and was graded as 1-1-BU-A-E-IN-WT-TD.

311 mm (12¼") Section

The 445 mm (12¼") section was directionally drilled from 638mMDRT to 2751mMDRT, building to 74.8 degrees inclination and turning to 112.0 degrees azimuth. Bit #3, a Security FMF3565Z PDC with 6 x 18 jets in conjunction with a geopilot rotary-steerable BHA was used to drill this section.

The 12¼" section was drilled from 638mMDRT to 2751mMDRT. Bit #3 drilled 2113m in 91.1 on bottom drilling hours and was graded 2-2-WT-S-X-IN-CT,ER-TD.

245mm (9 $^{5}/_{8}$") casing was then run and cemented with the shoe set at 2742.8mMDRT.

216 mm (8½") Section

The 216 mm (8½") section was directionally drilled from 2751mMDRT to 3987mMDRT. The inclination of the well was initially built to reach an angle of 101.0 degrees inclination by 2903mMDRT, to maintain the hole trajectory within the reservoir sand. The final inclination of the well at 3987mMDRT TD was projected from actual survey data to be 88.8 degrees, with an azimuth of 99.5 degrees.

This section was drilled using one bit in two runs due to a signal failure from the MWD tools. The BHA incorporated a rotary-steerable geopilot tool.

Bit #4, a Security FMF3653Z PDC drilled 443m in 19.4 on bottom hours and was graded as 1-1-NO-A-X-IN-NO-MWD.

Bit #4RR drilled 793m in 33.5 on bottom hours and was graded as 0-0-NO-A-X-IN-ER-TD.

Following TD, the 7" liner string was made up and run in the hole on drill pipe. The 7" liner was cemented in place and hung off in the 9 $^{5}/_{8}$" casing. The 7" liner was set with a shoe depth of 3985mMDRT (2253.8mTVDRT).

Following a successful pressure test, a clean out assembly was run to the float collar of the 7" liner. The well was displaced to filtered brine, before running in hole 3½" perforating guns on drill pipe. 5½" production tubing was then run from surface to the top of the 7" liner and pressure tested, before the Maersk Guardian's drilling package was skidded over to the THA03 slot on the Thylacine platform.

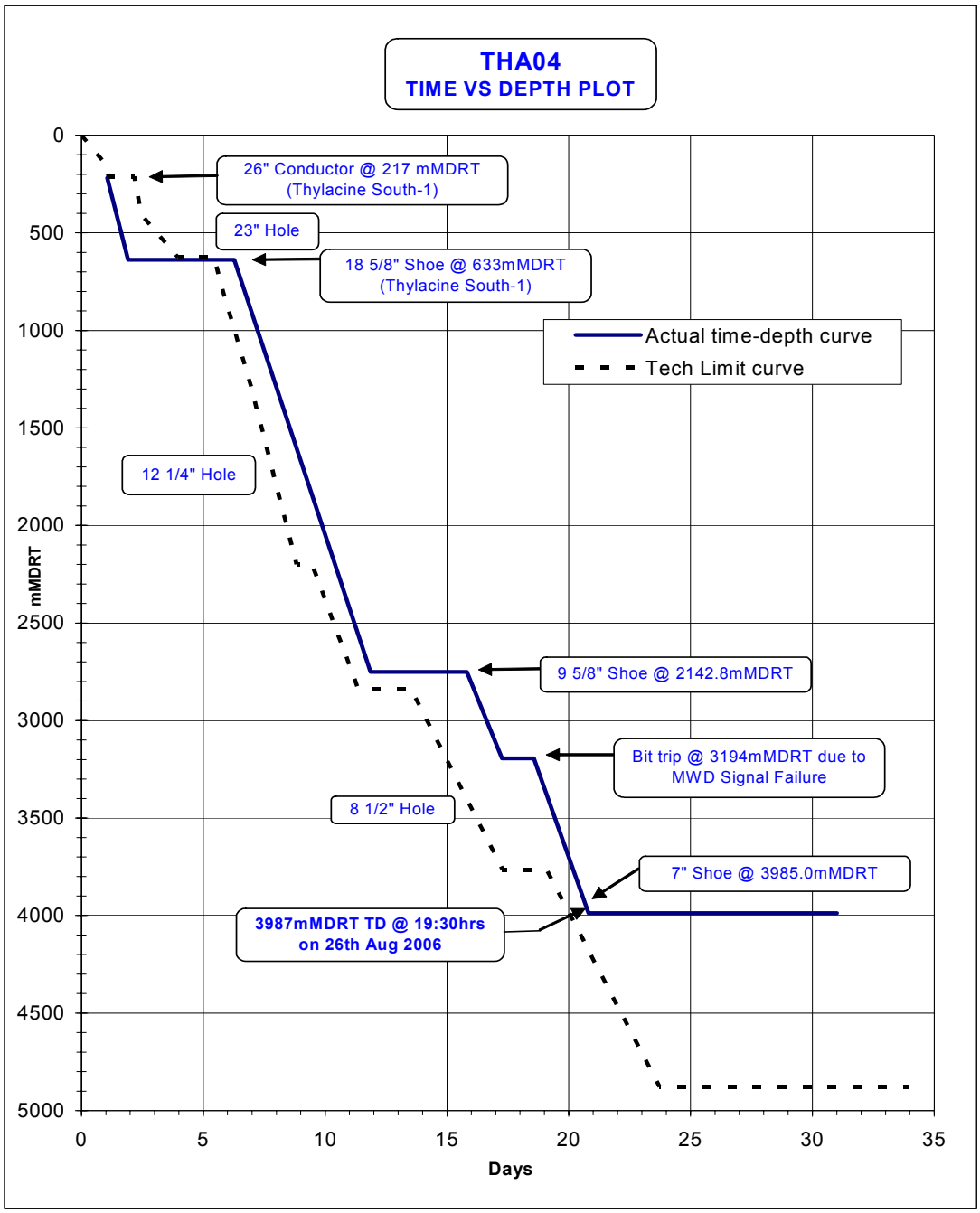
2.2 Geoservices Personnel

ALS Engineers	: Tom Platt
	: Sridhar Vignaraja
	: Dmitriy Ilyin
	: Brendan Lacy
Mudloggers	: Mirza Mushtaq Baig
	: Ramesh Babu
	: Anthony Rodrigues
Sample Catchers	: Phillip Pojor
	: Hassan Saroya
	: Jonathon Cook

2.3 Contractor Information

Drilling	: Maersk
Rig name	: Maersk Guardian
Rig type	: Jack-Up
Mud logging	: Geoservices Overseas Oilfield Services S.A.
Mud engineering	: Baker Hughes Drilling Fluids
MWD	: Halliburton
Wireline logging	: Schlumberger
Cementing	: Halliburton
Well head completion	: Cameron
ROV	: Total Marine Technology
Casing	: Weatherford
Work boats	: Invincible Tide, Maersk Supporter
Helicopters	: Bristows

2.4 Days versus Depth Progress Chart



2.5 Sample Collection Summary

Five sets of washed and dried, (4 sets of 200 gram and 1 set of 30 gram FIS samples) and one set of samplex trays were collected during this well from 640mMDRT to TD at 3987mMDRT.

The sampling interval requirement for THA04 was 5m sampling from 640mMDRT to 3987mMDRT. Due to high ROP rates, not all samples could be collected at 5m intervals. The following sampling intervals were caught:

Sample Rate (m)	Depth from (mMDRT)	Depth to (mMDRT)
5	640	670
10	670	1530
20	1530	1560
5	1560	1670
10	1670	2720
5	2725	3987 TD

Further cuttings sample distribution was as follows:

Recipient	Washed and Dried 200 g	Washed and Dried (FIS) 30g	Samplex Trays
WEL	2	1	1
Geoscience Australia	1		
Mineral Resources Tasmania	1		

Mud samples were also taken from the following depths:

Sample Number	Depth (m)	Filtrate taken	Notes
1	640	No	Start 12 $^1/_4$" Section
2	2751	Yes	End of 12 $^1/_4$" Section
3	2756	Yes	Start of 8 $^1/_2$" reservoir section
4	3194	Yes	POOH for MWD tool change out.
5	3195	No	Resume 8 $^1/_2$" Section
6	3987	Yes	TD THA04.

Isotube gas samples were collected at the following depths from THA04:

(All depths are in mMDRT)

729	800	900	1000	1100	1200	1334	1400	1500	1600
1700	1800	1900	2000	2100	2200	2300	2400	2500	2600
2700	2728	2751	2770	2800	2900	3000	3100	3200	3231
3300	3400	3500	3543.5	3600	3700	3800	3842	3900	3987

NB: A detailed sample manifest is enclosed with the Final Well Report.

3.0 GEOLOGICAL INFORMATION

3.1 Gas Ratio Interpretation - Introduction

Gas composition and total gas in mud were measured using the Geoservices Reserval gas system. (A combined total gas detector and chromatograph coupled with a GZG degasser). As a backup gas detection system, a Geoservices FID Chromatograph Panel (FCP) and FID Gas Panel (FGP) were in place. Both use the FID technique of measuring ions released when hydrocarbons are burnt in a pure hydrogen flame.

Gas is extracted from the mud at the shale shakers by a degasser that is essentially an agitator inside a chamber through which the mud continually passes. The GZG degasser is specially designed to degas a constant volume of mud regardless of pump rates and conditions in the possum belly. The gas is then drawn back to the unit through tubing to the gas analysis equipment. Independent sensors in the unit also measure H_2S and CO_2.

The composition of the gas in mud from the formation is significant in determining the geochemical origin and value of a show. Several methods can be used to determine whether the hydrocarbon gas in mud comes from a potential gas or oil zone. Amongst these methods are the Triangle Diagram (also known as the gas composition diagram), Pixler Diagram (also known as the gas ratios method), and the gas Wetness/Balance/Character plots.

3.2 Explanation of Gas Composition Diagrams

The Triangle or Gas Composition Diagram is used to graphically represent the hydrocarbon distribution in the gas and to determine whether it corresponds to a gas or oil reservoir. The triangular diagram is obtained by tracing lines on three scales at 120° to each other, corresponding respectively to the ratios of ethane, propane and normal butane to the total gas. The scales are arranged in such a way that if the apex of the triangle is upward, the diagram represents the analysis of gas from a gas zone, while if the apex points downwards, the diagram represents the analysis of gas from an oil zone. A large triangle diagram represents dry gas or low GOR oil, while small triangles represent wet gases or high GOR oils. The centre of the triangle should fall inside the area delineated by the dotted line, which encircles compositions that are regarded as 'normal'. If the triangle area is outside this area the gas indicates that the reservoir is not exploitable and that the heavier hydrocarbon composition is 'abnormal' i.e. hydrocarbons that are chemically altered or gases with special compositions which are not associated with oil.

The Gas Ratio Analysis Diagram is a plot of the ratio of C1 to the other gas elements. The magnitude of the methane to ethane ratio determines if the reservoir contains gas or oil or if it is non-productive. The following conclusions are possible:

Ratio C1/C2:	< 2	non-productive zone
	2 - 15	oil present
	15 - 65	gas present
	> 65	non-productive zone

The slope of the line of the ratio plot of C1/C2, C1/C3, C1/C4 and C1/C5 indicates whether the reservoir will produce hydrocarbons or hydrocarbons and water. Positive line slopes

indicate production; negative line slopes indicate water-bearing formations. When using the Gas Ratio Diagram, the following points should be borne in mind:

1. Productive dry gas zones may show only C1, but abnormally high shows of C1 are usually indicative of saltwater zones.
2. If the ratio C1/C2 is low in the oil section and the ratio C1/C4 is high in the gas section, the zone is probably non-productive.
3. If any ratio (C1/C5 excepted in an oil based mud) is lower than the preceding ratio then the zone is probably non-productive.
4. The ratios may not be definitive for zones of low permeability.
5. Steep gas ratio plots may be indicative of tight zones.

3.3 Explanation of Wetness/Balance/Character Curves

Another method for evaluating gas zones plots against depth three ratios: hydrocarbon Wetness (W_h), hydrocarbon Balance (B_h) and hydrocarbon Character (C_h), where:

$$W_h = \frac{(C2 + C3 + C4 + C5)}{(C1+C2+C3+C4+C5)} \times 100\ (\%)$$

$$B_h = \frac{(C1 + C2)}{(C3 + C4 + C5)}$$

$$C_h = \frac{(C4 + C5)}{C3}$$

Wetness (W_h) is the primary zone indicator and provides a measure of the relative proportion of heavier gases in the overall gas show as follows:

$W_h < 0.5$	Light non-associated gas with low productivity potential or only geo-pressured methane.
$0.5 < W_h < 17.5$	Potentially productive gas with gas density increasing with W_h.
$17.5 < W_h < 40.0$	Potentially productive oil with gravity decreasing as W_h increases.
$W_h > 40.0$	Heavy or residual oil with low productivity potential.

As reservoir hydrocarbons become denser in the transition from gas to oil, Balance (B_h) and Wetness (W_h) values move closer together and eventually intersect. The zone guidelines for B_h combine with those for W_h to improve reliability of show evaluation as follows:

$W_h < 0.5$	Very light, dry gas that is almost certainly non-productive.

and $B_h > 100$	
$0.5 < W_h < 17.5$ and $W_h < B_h < 100$	Productive gas with gas increasing in wetness and density as the two curves converge.
$0.5 < W_h < 17.5$ and $B_h < W_h$	Productive gas condensate or a high gravity gas/oil ratio.
$17.5 < W_h < 40$ and $B_h < W_h$	Productive oil with oil gravity decreasing - density increasing as the curves diverge.
$17.5 < W_h < 40$ and $B_h > W_h$	Non-productive residual oil.

Character (C_h) values serve to resolve ambiguities between oil or gas indications by defining the following:

$0.5 < W_h < 17.5$ and $B_h < W_h$ and $C_h < 0.5$	Productive wet gas or condensate.
$0.5 < W_h < 17.5$ and $B_h < W_h$ and $C_h > 0.5$	Productive high gravity and/or high GOR oil.

It is important to note that in the conclusion to each of the interpretive tools, the terms ‘productive’ and ‘non-productive’ are used in a geochemical sense. Ultimate production of a zone is dependent upon reservoir thickness and extent as well as other physical and economic factors that are not taken into account when analysing gas compositions. The methods discussed here are intended to assist the interpretive skills of the geologist or log analyst.

3.4 Gas Composition Discussion

THA04 gas monitoring commenced using the Geoservices Reserval gas system from the beginning of the 12¼" phase at 638mMDRT through to the THA04 TD of 3987mMDRT.

No significant gas was encountered while drilling the 12 $^1/_4$" section prior to 2751mMDRT where a gas peak was encountered of 13.2%. Prior to 2751mMDRT, the background gas levels were below 0.4%. This gas was dry, predominantly consisting of C1 (methane) levels above 98%.

The 12¼" phase was drilled with a mud weight ~1.25sg.

The 8 $^1/_2$" section was drilled with the same SBM system at the previous 12$^1/_4$" phase, with mud weights being in the range of 1.25-1.26sg. No connection gas was encountered in either phases.

The following major gas peaks were recorded in drilling of THA04:

- A total gas peak of 12.5% at a depth of 2781.5mMDRT, with an associated C1 to C5 ratio breakdown of 96 / 3 / 1 / Tr / Tr.
- A total gas peak of 11.5% at a depth of 2818mMDRT, with an associated C1 to C5 ratio breakdown of 96 / 3 / 1 / Tr / Tr.
- A total gas peak of 13.5% at a depth of 2825mMDRT, with an associated C1 to C5 ratio breakdown of 96 / 3 / 1 / Tr / Tr.
- A total gas peak of 12.4% at a depth of 2879mMDRT, with an associated C1 to C5 ratio breakdown of 96 / 3 / 1 / Tr / Tr.
- A total gas peak of 12.2% at a depth of 2896mMDRT, with an associated C1 to C5 ratio breakdown of 96 / 3 / 1 / Tr / Tr.
- A total gas peak of 10.7% at a depth of 3344mMDRT, with an associated C1 to C5 ratio breakdown of 96 / 3 / 1 / Tr / Tr.
- A total gas peak of 11.9% at a depth of 3745mMDRT, with an associated C1 to C5 ratio breakdown of 96 / 3 / 1 / Tr / Tr.
- A total gas peak of 11.8% at a depth of 3854mMDRT, with an associated C1 to C5 ratio breakdown of 95 / 4 / 1 / Tr / Tr.

Gas Composition diagrams for the above peaks are shown in section 3.6.

Background gas levels in the mud for the 8 $^1/_2$" phase remained reasonably low, typically being lower than 2%. Liberated gas levels were substantially higher in the sands between 2751mMDRT and 3878.5mMDRT, ranging from 4.0% and up to 13.5%. The chromatograph C1 to C5 ratios throughout this section were generally 96 / 3 / 1 / Tr / Tr, denoting a dry gas with negligible heavy gas components.

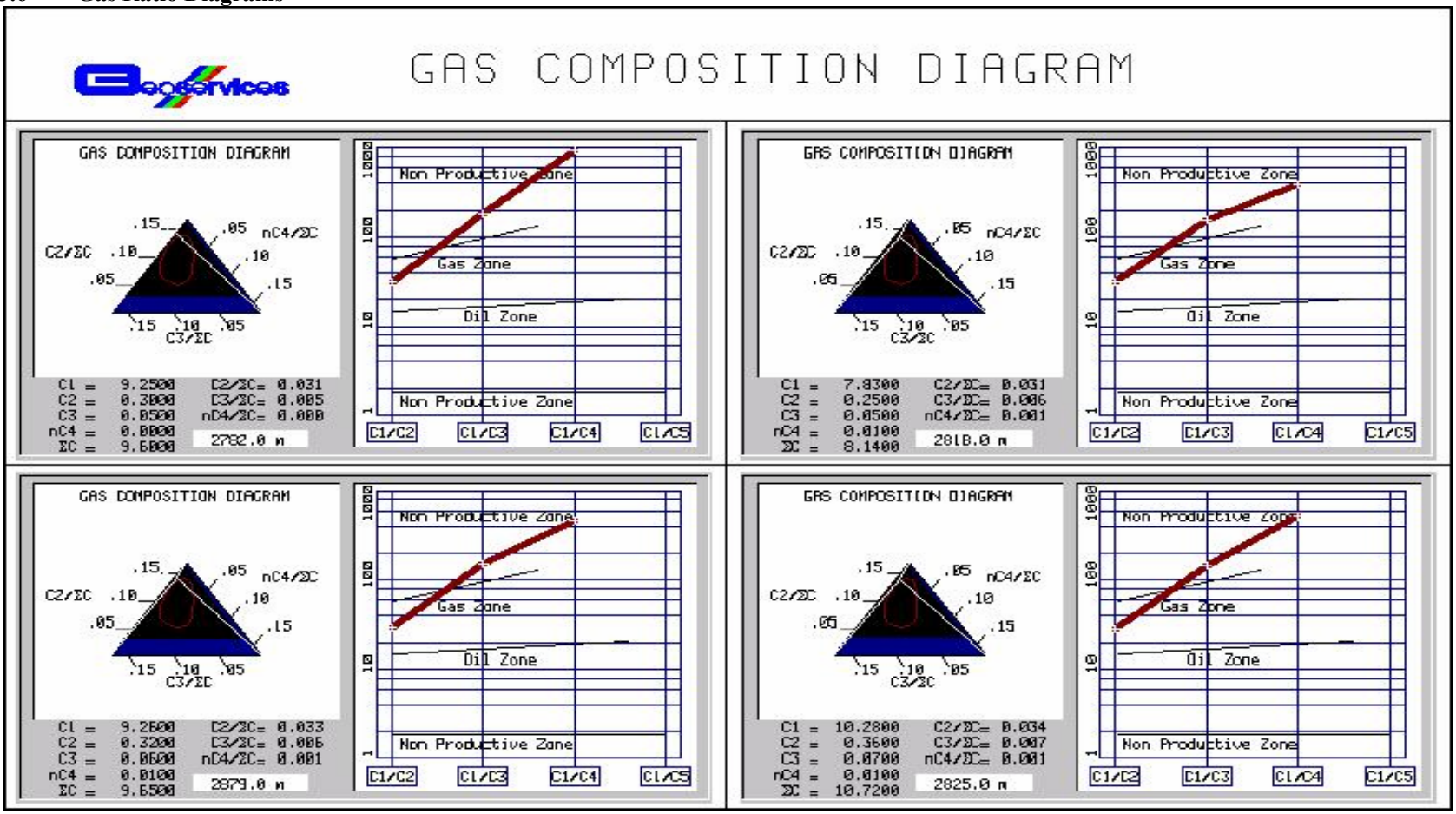
No CO_2 or H_2S gas was encountered in THA04.

3.5 Gas Peaks (Reserval Gas Detection System)

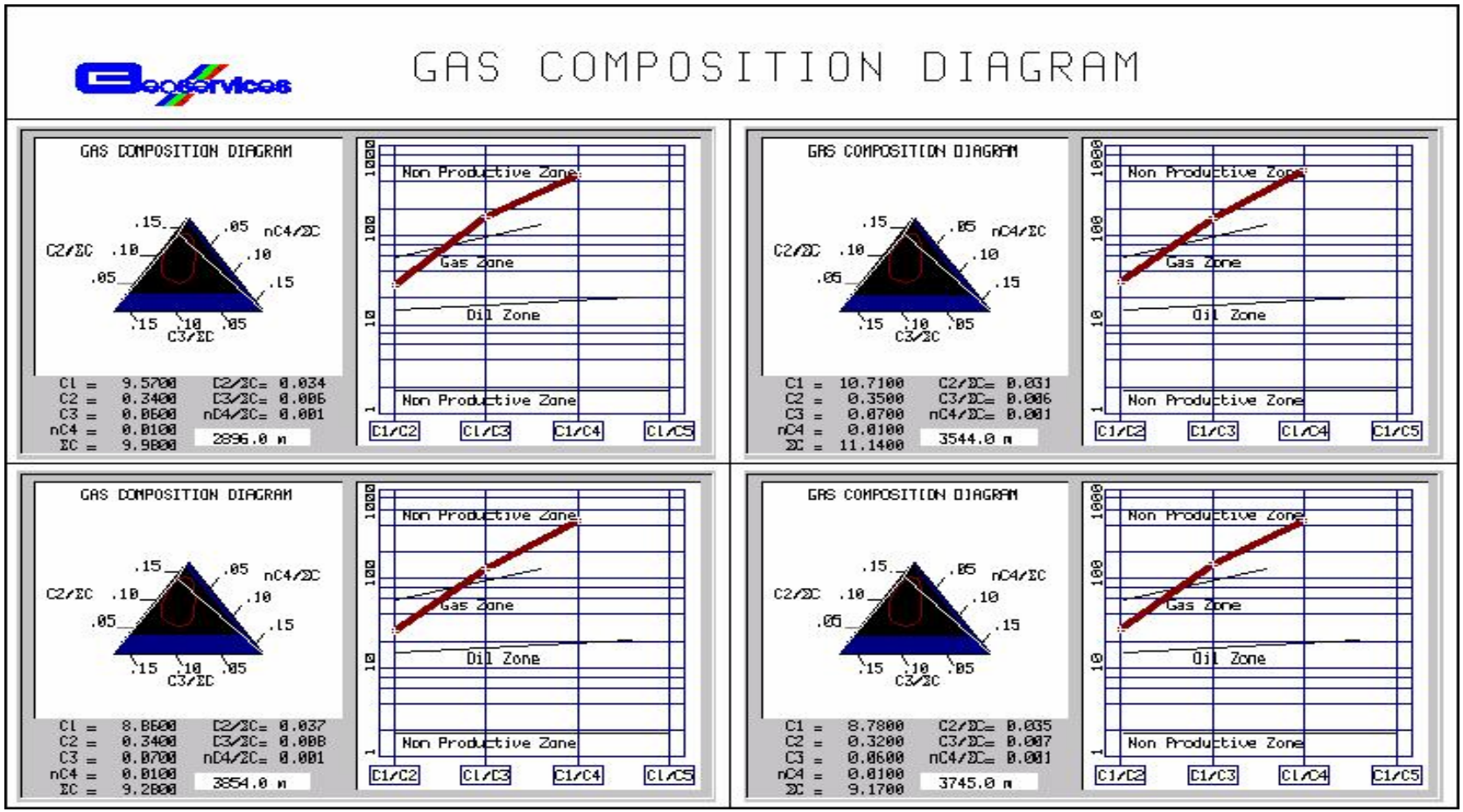
Depth (m)	Total Gas Peak (%)	C_1 (%)	C_2 (%)	C_3 (%)	iC_4 (%)	nC_4 (%)	iC_5 (%)	nC_5 (%)
2728.00	1.090	0.8116	0.0291	0.0073	0.0027	0.0009	0.0007	0.0001
2751.00	13.231	7.4627	0.2541	0.0457	0.0064	0.0048	0.0014	0.0006
2764.50	10.379	7.8071	0.2194	0.0346	0.0039	0.0031	0.0016	0.0004
2769.50	11.268	7.1947	0.2010	0.0322	0.0037	0.0031	0.0016	0.0004
2781.50	12.454	9.2525	0.2973	0.0477	0.0055	0.0048	0.0018	0.0006
2818.00	11.549	7.8271	0.2539	0.0459	0.0057	0.0052	0.0015	0.0006
2825.00	13.464	10.2798	0.3583	0.0650	0.0066	0.0061	0.0017	0.0007
2834.50	9.491	7.4905	0.2582	0.0454	0.0056	0.0052	0.0016	0.0006
2847.50	7.629	6.4647	0.2179	0.0378	0.0047	0.0043	0.0015	0.0006
2859.50	6.691	5.2624	0.1757	0.0342	0.0045	0.0042	0.0014	0.0006
2872.50	9.540	4.9409	0.1583	0.0301	0.0041	0.0038	0.0014	0.0006
2878.50	12.419	9.2606	0.3233	0.0575	0.0069	0.0064	0.0018	0.0009
2895.50	12.185	9.5734	0.3376	0.0616	0.0077	0.0072	0.0020	0.0010
2906.50	9.158	7.6678	0.2675	0.0499	0.0065	0.0060	0.0018	0.0008
2925.00	10.297	8.6159	0.2789	0.0525	0.0078	0.0061	0.0018	0.0009
2952.50	7.668	6.5910	0.2265	0.0406	0.0072	0.0049	0.0015	0.0007
2971.50	5.827	4.6485	0.1581	0.0306	0.0064	0.0038	0.0014	0.0006
2991.50	9.155	8.1819	0.2927	0.0544	0.0090	0.0064	0.0019	0.0009
3022.00	10.120	9.1343	0.3433	0.0652	0.0111	0.0080	0.0023	0.0012
3052.00	11.498	9.6340	0.3382	0.0573	0.0144	0.0068	0.0020	0.0010
3088.50	8.082	4.3439	0.1783	0.0360	0.0115	0.0049	0.0018	0.0008
3103.00	8.889	6.1523	0.2391	0.0452	0.0119	0.0058	0.0019	0.0010
3161.50	4.822	2.2909	0.0811	0.0177	0.0073	0.0024	0.0012	0.0005
3185.00	9.466	8.0736	0.2956	0.0519	0.0098	0.0057	0.0018	0.0008
3205.00	9.178	6.5609	0.1907	0.0321	0.0041	0.0033	0.0012	0.0004
3222.00	9.981	7.3006	0.2423	0.0439	0.0062	0.0049	0.0018	0.0006
3252.00	10.750	9.6239	0.2959	0.0619	0.0077	0.0064	0.0019	0.0006
3278.50	10.858	8.8114	0.3492	0.0688	0.0106	0.0083	0.0026	0.0011
3345.00	10.654	8.6995	0.3278	0.0633	0.0112	0.0077	0.0024	0.0012
3367.50	9.037	7.6682	0.3126	0.0659	0.0116	0.0085	0.0028	0.0014
3373.50	11.175	9.5004	0.3239	0.0617	0.0111	0.0078	0.0025	0.0012
3408.00	9.654	8.2367	0.3389	0.0711	0.0121	0.0088	0.0027	0.0013
3426.00	10.041	8.5535	0.3581	0.0759	0.0127	0.0096	0.0029	0.0015
3440.50	9.782	8.2848	0.3606	0.0779	0.0126	0.0098	0.0029	0.0016
3454.50	8.703	7.3410	0.3113	0.0669	0.0115	0.0087	0.0027	0.0014
3464.50	10.701	9.0184	0.3663	0.0744	0.0118	0.0091	0.0026	0.0014
3482.50	8.016	6.6782	0.2819	0.0605	0.0105	0.0079	0.0024	0.0012

3500.00	8.709	7.3239	0.3091	0.0637	0.0106	0.0083	0.0026	0.0014
3544.00	12.592	10.7112	0.3464	0.0673	0.0104	0.0082	0.0025	0.0014
3569.00	10.851	9.3484	0.3954	0.0841	0.0130	0.0106	0.0030	0.0015
3591.50	9.270	7.9051	0.3490	0.0768	0.0136	0.0100	0.0031	0.0016
3690.50	4.476	3.1314	0.1801	0.0418	0.0076	0.0051	0.0017	0.0007
3702.50	11.149	8.1851	0.3439	0.0690	0.0107	0.0084	0.0026	0.0012
3710.50	10.283	7.5624	0.3228	0.0650	0.0102	0.0081	0.0024	0.0012
3745.00	11.892	8.7838	0.3169	0.0626	0.0103	0.0078	0.0025	0.0011
3854.00	11.778	8.8575	0.3419	0.0669	0.0101	0.0083	0.0026	0.0014
3865.00	11.252	8.4432	0.3388	0.0664	0.0104	0.0084	0.0026	0.0013
3878.50	10.223	7.6633	0.3128	0.0619	0.0101	0.0080	0.0026	0.0012

3.6 Gas Ratio Diagrams



Revision	Date	Issued by	Approved by	Remarks
1	Aug 2006	Geoservices Unit 171	Operations Manager	



Revision	Date	Issued by	Approved by	Remarks
1	Aug 2006	Geoservices Unit 171	Operations Manager	

4.0 PRESSURE ANALYSIS

4.1 Pressure Summary

Formation pressures were monitored throughout this well by recording a range of indicators. These indicators vary from direct observations of background gas and cuttings to drilling characteristics such as torque and tight hole, as well as quantitative methods like the D'exponent.

D'Exponent: This is a normalized rate of penetration that takes into account mud weight, bit wear and hydraulics. It can be reliably used in shales and clean claystones; and as an indicator in siltstones, silty shales and calcareous claystones. A normal trend line is established through normally pressured shale points, representing a normal compaction trend, and any leftward deviation of subsequent shale points from this trend, representing relative undercompaction, indicates overpressure (plotted relative to depth) or increased porosity due to changes in the lithology.

The D'exponent calculation was not ideally suited for the detection of overpressure in this particular instance. This results from the use of PDC bits, the directional nature of the hole and the presence of calcareous claystones and sandstone through large sections of the well. However, it is still a useful tool in helping to detect and establish any possible areas of abnormal pressure.

The 23” phase was drilled with seawater with returns dumped to the seabed.

A normal trend was set in the $12^{1}/_{4}$" phase indicating a normally pressured gradient for this phase.

The D’exponent values form a generally linear trend below approximately 1400mMDRT, through which a reasonable trend line was established.

Between 1580mMDRT and 1605mMDRT the trend takes a general shift to the left, which could indicate an area of possible under-compaction. However, this shift in trend occurred through a zone of sandstone and silty claystone in which the D' exponent plot is unable to give an accurate representation of the compaction of the rock.

Normal trend gradient continued from 1605mMDRT through claystone, siltstone and sandstone zones. Occasional small D' exponent deviations to the left in this section corresponded with these formation variations.

From 2571mMDRT to 3987mMDRT the well was drilled in a near to horizontal section, maintaining position in the sand reservoir, as a result pore pressure estimation based on D'exponent could not be carried out in a comprehensive manner.

Overall the D’exponent plot does not indicate any abnormal pressure zones for THA04.

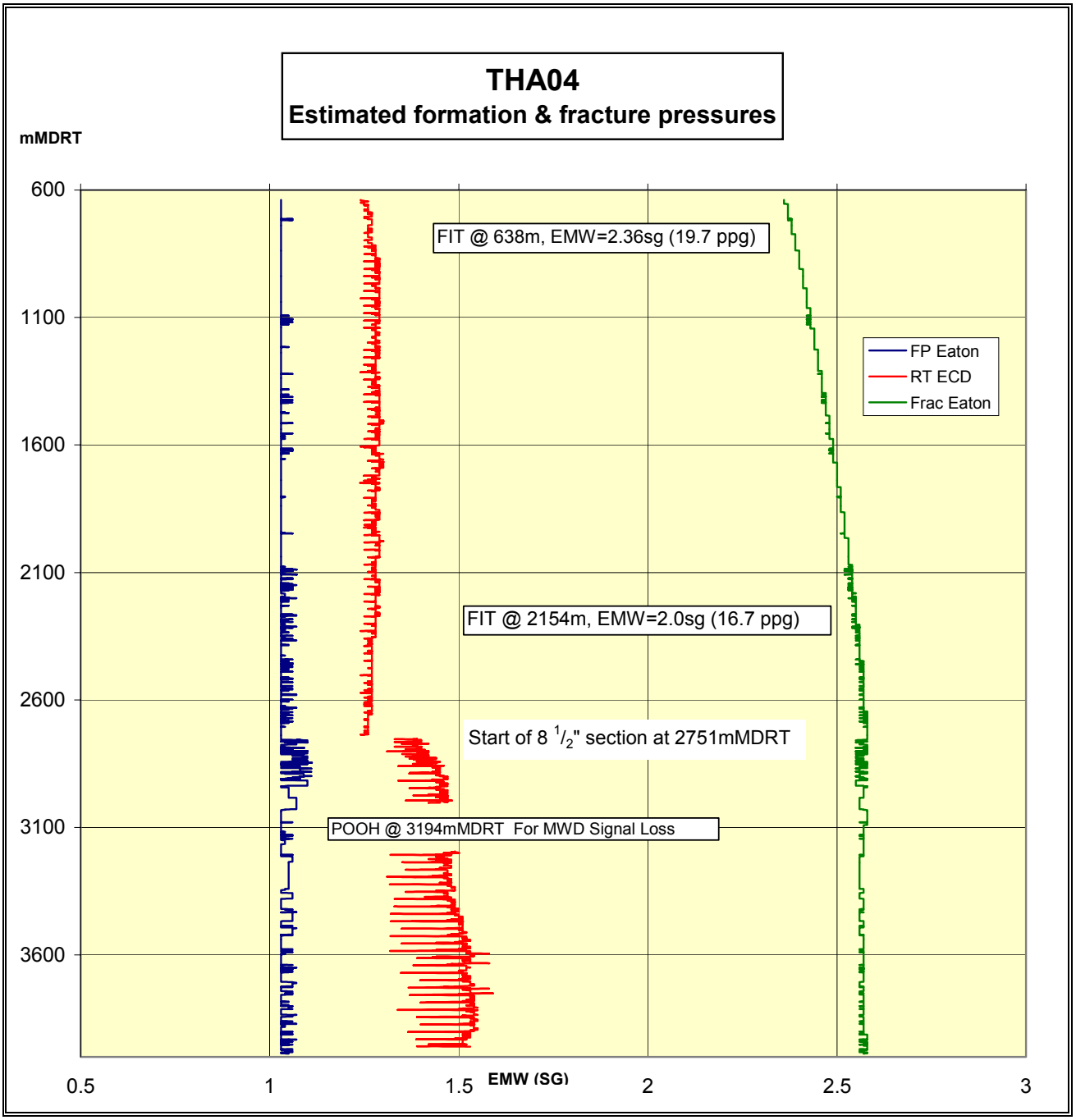
Gas: THA-04 was drilled with an overbalanced mud system, required to maintain borehole stability. Due to this overbalance, background gas remained relatively low with no increases to indicate increasing formation pressure. No connection gas was experienced during the drilling of THA04.

Flow-line Temperature: Flow-line temperature increased in a smooth linear fashion (allowing for mud additions and the cooling effect of the riser) throughout the well from 49°C to 73°C. There were no indications from mud temperature of abnormal pressures.

Cuttings: There were no indications from the drilled cuttings returned at the shakers of any abnormally pressured zones in this well.

All indicators utilised during the drilling phases indicated a relatively normal pressured environment for THA04.

4.2 Formation Pressure Plot



5.0 DRILLING SUMMARY

5.1 Mud Record

The 584mm (23") Section of THA-04 (Thylacine South-1) was drilled with Seawater and Gel sweeps, with weight of 1.06 sg. Properties of this mud are listed below:

Depth m	MW sg	FV sec/qt	PV cps	YP lb/100'	Gels lb/100'	Oil/H_2O Ratio	Filtrate cc	Sand %	Corr. Solids %	Cake /32"
217	1.06	128	19	55	18 / 42	-	-	-	4.0	-
638	1.06	128	19	55	18 / 42	-	-	-	4.0	-

The 311mm (12¼") and 216mm (8½") sections of THA04 were drilled with Synthetic Base Mud, with weight of ~1.25 sg. Properties of this mud are listed below:

Depth m	MW sg	FV sec/qt	PV cps	YP lb/100'	Gels lb/100'	Oil/H_2O Ratio	Filtrate cc	Sand %	Corr. Solids %	Cake /32"
638	1.25	82	38	18	10/9	67:33	3.4	0.25	14.0	2
1046	1.22	66	34	14	7/10	68:32	3.2	0.25	14.5	2
1652	1.25	76	40	23	12/13	69:31	3.0	0.50	15.0	2
2081	1.25	76	43	29	13/12	70:30	2.8	0.50	15.5	2
2394	1.25	75	46	28	13/13	70:30	3.5	0.25	17.0	2
2635	1.25	77	46	30	15/16	72:78	3.8	0.25	17.0	2
2751	1.25	80	43	32	16/15	72:28	2.2	0.25	16.5	2
2773	1.25	88	41	32	13/15	72:28	3.8	0.25	16.5	3
3108	1.25	82	41	31	12/16	74:26	4.5	0.25	16.0	3
3194	1.25	90	53	35	18/17	73:27	3.6	0.25	16.5	3
3350	1.26	94	53	33	17/12	70:30	3.5	0.40	16.5	3
3697	1.25	79	42	28	14/15	71:29	3.2	0.60	16.0	3
3987	1.25	89	43	31	16/15	73:27	3.6	0.50	16.0	3

5.2 Bit Record

Bit	Size (mm)	Make	Type	Jets	TFA in^2	In (m)	Out (m)	Run (m)	Hrs	WOB klbs	RPM	TRQ kft/lbs	SPP psi	Flow gpm	Grading
2	584	Security DBS	ETR 16 (115)	2x22, 1x20, 1x16	1.25	217	638	421	15.2	2.0-10	83-254	No Data	777-2205	513-1184	1-1-BU-A-E-IN-WT-TD
3	311	Security	FMF3565Z	6x18	1.49	638	2751	2113	91.9	7-22	140-175	5-12	3100-3900	1000-1200	2-2-WT-S-X-IN-CT,ER-TD
4	216	Security	FMF3653Z	3 x 16, 3x 15	1.11	2751	3194	443	19.4	16-28	120-160	11-17	3400-3700	630-750	1-1-NO-A-IN-NO-MWD
4RR	216	Security	FMF3653Z	3 x 16, 3x 15	1.11	3194	3987	793	33.5	18-28	120-180	12-20	3600-3800	650-760	0-0-NO-A-X-IN-ER-TD

5.3 Hydraulic Listing

Depth (m)	Mud Weight sg	ECD sg	Flow Rate (gpm)	Total Pressure Loss (psi)	Pressure Loss Across Bit (psi)	Mud Velocity Through bit (m/sec)	Bit Hydraulic Power (hp)	Mud Impact at Bit (kgf)	Total Hydraulic Power (hp)	Ratio (Bit Pwr/Total Pwr) (%)
633	1.25	1.25	1154	3358	571	76	389	699	2289	17
1046	1.25	1.26	1154	3563	571	76	389	699	2428	16
1652	1.25	1.27	1145	3991	562	75	380	688	2700	14
2081	1.25	1.28	1138	3867	556	75	373	680	2868	13
2394	1.25	1.28	1129	3875	546	74	364	688	2973	12
2635	1.25	1.29	1128	3888	545.7	74	363.6	688	3077	11.8
2751	1.25	1.29	1090	3890	509.8	72	328.1	623.7	2833	11.6
2773	1.25	1.39	615	2709.8	294.7	54	107.1	267.8	985	10.9
3108	1.25	1.44	705	3343.2	386.6	62	160.9	351.3	1392	11.6
3194	1.25	1.49	731	3753.3	415.5	65	179.3	377.6	1620	11.1
3350	1.26	1.52	740	3908.1	429.3	65	187.6	390.2	1708	11
3697	1.25	1.47	740	3798.9	425.9	65	186.1	387.1	1660	11.2
3987	1.25	1.51	732	3961.6	416.8	65	180.1	378.8	1712	10.5

5.4 Drilling Phase Summary

5.4.1 762mm (30”) Hole Section

Date	: 17th March 2006
Measured depth	: 149.8 m – 217 m
TVDSS LAT	: 99.3 m – 166.5 m
Number of bits used	: 1
Mud type	: Seawater, with gel sweeps

Geoservices monitoring of THA04 (Thylacine South-1) commenced from the 23" phase.

5.4.2 584 mm (23") Hole Section

Dates	: 21st March to 21st March 2006
Measured depth	: 217 m - 638 m
TVDSSLAT	: 166.5 m – 587.5 m
Number of bits used	: 1
Mud type	: Seawater with Gel Sweeps

After installing and testing the diverter system, a 584 mm (23") Varel ETR16 (115) bit with 2 x 22, 1 x 20 and 1 x 16 jets was made up and run in the hole. The cement was tagged at 216.5 m, and the 584 mm (23") hole was drilled ahead from 216.5mMDRT at 00:30 hrs on the 21st of March 2006. Section TD of 638mMDRT (638mTVDRT) was reached at 22:00 hrs on 21st of March 2006. The hole was circulated clean and a DRISPAC pill was spotted on bottom. The well was flow checked and the bit pulled out of hole. A tight spot was encountered from 293mMDRT – 291mMDRT, which was worked through several times until the BHA was pulled through freely. The BHA and bit was then pulled to surface. This bit drilled 421m in 15.2 on bottom drilling hours and was graded as 1-1-BU-A-E-IN-WT-TD.

473mm (18$^{5}/_{8}$") casing was then run and cemented with the shoe set at 633mMDRT.

5.4.3 311 mm (12¼") Hole Section

Dates	: 12th August – 17th August 2006
Measured depth	: 638.0 m – 2751.0 m
TVDSSLAT	: 587.5 m – 2231.56 m
Number of bits used	: 1
Mud type	: SBM

The 311 mm (12¼") section was directionally drilled from 638mMDRT to 2751.0mMDRT, building to 74.9 degrees inclination and turning to 112.0 degrees azimuth.

After installing and testing the BOP stack, a 311 mm (12¼") Security DBS FMF3565Z PDC bit (Bit#3), with 6 x 18 jets was made up with a BHA incorporating a Sperry Geopilot rotary-steerable tool in combination with a LWD suite. The string was run in hole and cement was tagged at 602.5mMDRT. The well was displaced to SBM, which was circulated and conditioned. The cement and float shoe was drilled out from 602.5 to 633mMDRT, and the

rat-hole was cleaned out to 638mMDRT. A FIT was not required as a FIT had already been performed at the start of the 12¼" section on Thylacine South-1.

The 311 mm (12¼") section was directionally drilled from 638mMDRT to 2751mMDRT, building angle up and keeping to approximately 32° inclination and an azimuth of approximately 190° down to 2019mMDRT. From this point onwards, the bit angle was built to approximately to 75° with an azimuth of 112° by the section TD of 2751mMDRT.

At 2751mMDRT, the well was circulated for 3 bottom's up circulations until the cuttings returned at the shakers were minimal. The hole was backreamed from 2751mMDRT to 2200mMDRT. At this depth a flow check was performed to confirm the well was static, before pumping a slug and pulling out of hole. A flow check was performed inside the $18^5/_8$" casing shoe, and the drill-string then pulled to surface.

Bit #3 drilled 2113m in 91.1 on bottom drilling hours resulting in an average ROP of 23.2m/hr. The bit was graded as 2-2-WT-S-X-IN-CT,ER-TD.

245mm ($9^5/_8$") casing was then run and cemented with the shoe set at 2742.8mMDRT.

5.4.4 216 mm (8½") Hole Section

Dates	: 21st August to 26th August 2006
Measured depth	: 2751.0 m – 3987.0 m
TVDSSLAT	: 2231.56 m – 2203.32 m
Number of bits used	: 1 (2 runs)
Mud type	: SBM

Bit #4, a 216 mm (8½") Security DBS FMF3653Z PDC bit with 3 x 16 and 3 x 15 jets was made up with BHA incorporating a Sperry Geopilot and a LWD suite. The string was run in hole and cement was tagged at 2715mMDRT. The cement was float shoe was drilled out from 2715m to 2742.8mMDRT, and the rat-hole was cleaned out to 2751mMDRT. New hole was drilled from 2751 to 2754mMDRT and a formation integrity test was performed. The FIT achieved the required EMW of 2.00 sg.

The 216 mm (8½") section was then drilled from 2754mMDRT initially building to a bit angle of 101.0 degrees inclination by 2903mMDRT. This initial turn was required to achieve the directional path within the upper section of the sand formations. Adjustments to the hole direction were made when required, based on information from cuttings analysis in conjunction with real time MWD data.

Bit #4 drilled from 2751mMDRT to 3194mMDRT where the signal was lost to the Sperry MWD tools. The hole was circulated and the pipe was reciprocated while attempts were made to rectify the problem. The decision was made to POOH and change out the MWD tools. A total of three bottoms' up circulations were performed until shaker returns were negligible. A flow check confirmed the well to be static before the BHA was backreamed to the shoe. A flow check was made inside the $9^5/_8$" shoe. A flow check confirmed the well to be static before a slug was pumped and the assembly pulled out of the hole.

Bit #4 drilled 443m in 19.4 on bottom drilling hours, resulting in an average ROP of 22.8m/hr. The bit was graded as 1-1-NO-A-X-IN-NO-MWD, and deemed suitable to continue the 8½" phase.

Bit #4RR was run back to bottom once the Sperry MWD tools were changed out and the mud was circulated and conditioned before drilling ahead. Bit #4RR drilled to a depth of 3987mMDRT (TD) with no unexpected occurrences.

The final inclination of the well at 3987mMDRT TD was projected from actual survey data to be 88.8 degrees, with an azimuth of 99.5 degrees.

At TD, the hole was circulated clean while reciprocating the pipe. Shaker returns were monitored to assess the condition of the hole. Once these were deemed to be negligible, a flow check was performed, before backreaming the 8½" assembly back to the $9^5/_8$" shoe. A flow check confirmed the well to be static before a slug was pumped and the assembly pulled out of the hole. The 8½" BHA was racked back to reduce open-hole time before running the 7" liner.

Bit #4RR drilled a total of 793m in 33.5 on bottom drilling hours, resulting in an average ROP of 23.7m/hr. The bit was graded as 0-0-NO-A-X-IN-ER-TD.

The 7" liner string was made up and run in the hole on drill pipe. The 7" liner shoe was cemented in place and hung off in the 9-5/8" casing. The 7" liner was set with a shoe depth of 3985mMDRT (2253.8mTVDRT).

Following a successful pressure test, a clean out assembly was run to the float collar of the 7" liner. The well was displaced to filtered brine, before running in hole 3½" perforating guns on drill pipe. 5½" production tubing was then run from surface to the top of the 7" liner and pressure tested, before the Maersk Guardian's drilling package was skidded over to the THA03 slot on the Thylacine platform.

6.0 ENCLOSURES

Enclosure B

FORMATION EVALUATION LOG

1 : 500

FORMATION EVALUATION LOG

WELL : THA04

WOODSIDE

Geoservices

FROM (m): 200 TO (m): 4010 SCALE: 1/ 500

Country :	: AUSTRALIA	**POSITION**		**CASING**	
Region	: Otway Basin	Latitude	: 39° 14' 14.56" S	660mm Shoe at (mMDRT)	: 217.0
Field	: Thylacine	Longitude	: 142° 54' 07.58" E	473mm Shoe at (mMDRT)	: 633.0
Permit	: T/L2	X (m)	: 5655156.8 N	244mm Shoe at (mMDRT)	: 2742.8
Well Type	: Exp/Appraisal	Y (m)	: 664161.0 E	178mm Shoe at (mMDRT)	: 3985.0
Rig Name	: Maersk Guardian	DATUM:	: GDA94		

Spud Date	: 12-08-2006
Total Depth Date	: 26-08-2006
Total Depth (mRT)	3987.0
T.V.D. (mSSLAT)	: 2203.3
Status	: Completed
RT-LAT (m)	: 50.5
RT-Seabed (m)	: 149.8

ABBREVIATIONS

MW MUD WEIGHT
FV FUNNEL VISCOSITY
PV PLASTIC VISCOSITY
YP YIELD POINT
FC FILTER CAKE
SOL SOLIDS
WL FILTRATE
SD SAND - %
S SALINITY - PPM
RM MUD RESISTIVITY
RMF MUD FILTRATE
C CARBIDE TEST
LAT LOGGED AFTER TRIP
DS DEVIATION SURVEY

NB NEW BIT
RR RERUN BIT
CB CORE BIT
WOB WEIGHT ON BIT
RPM REVS PER MINUTE
FLC FLOW CHECK
CR CIRCULATE RETURNS
PR POOR RETURNS
NR NO RETURNS
BG BACKGROUND GAS
TG TRIP GAS
STG SHORT TRIP GAS
CG CONNECTION GAS
SG SWAB GAS
SVG SURVEY GAS

LITHOLOGY LEGEND

Limestone
Coal
Fine Sandstone
Siltstone
Carb. Siltstone
Calc. Siltstone
Calcisiltite
Calcilutite
Calcarenite
Gypsum
Marl
Dolomite
Claystone
Calc Claystone
Lithic frag
Foraminifera
Pyrite
Glauconite
Mica
Ferrous
Fossils
Calcareous
Dolomitic
Chert

ENGINEERING LEGEND

Deviation Survey
Casing Shoe
Wiper Trip
SWC (rec)
SWC (unrec)
Core
Bit Trip

MWD Gamma Ray (api) 0 100 200
WOB (Klbs) 0 30 60
ROP Backup (m/h) 400 300 200
ROP (m/h) 200 100 0

DEPTH MDRTm (TVDRT)

CORES

CUTTINGS LITHOLOGY %

INTERPRETED LITHOLOGY

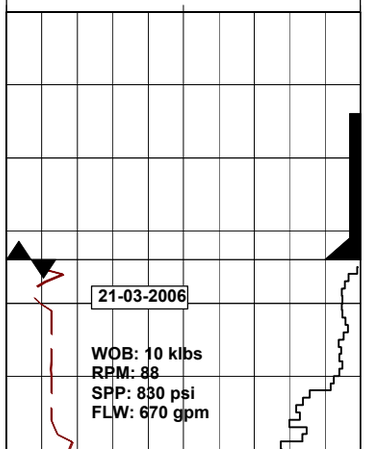
TOTAL GAS & RESISTIVITY
Resistivity (Deep) Ohm.m .2 2 20 200
Resistivity (Shallow) Ohm.m .2 2 20 200
Total Gas (%) .01 .1 1 10 100

RESERVAL CHROMATOGRAPH
Methane %
Ethane %
Propane %
ISO-Butane %
N-Butane %
ISO-Pentane %
N-Pentane %
.001 .01 .1 1 10 100

OIL FLUORESCENCE

CALC (%) 0 100
DOLO (%) 100 0

LITHOLOGICAL DESCRIPTIONS AND REMARKS

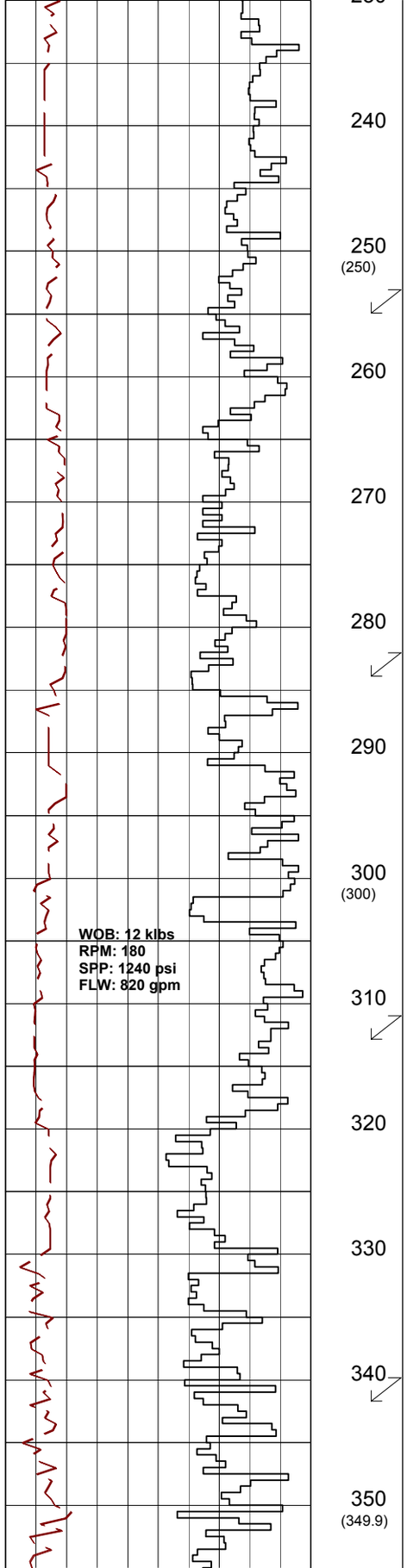


200
210
220
230

GEOSERVICES LOGGING OF THA04 (THYLACINE SOUTH-1) COMMENCED AT 23" PHASE

660mm (26") CASING SET @ 217m

BIT# 2: 23" (660.4mm)
VAREL ETRIG BIT
JETS: 16,20,2x22
IN: 217m OUT: 638m
RUN: 421m HRS: 15.2
COND: 1-1-BU-A-E-IN-WT-TD



Survey: 226.17mMD(226.17mTVD)
0.42°Inc 43.55°Az.

DRILL FROM 217m TO 638m WITH SEAWATER, SWEEPING THE HOLE WITH PRE-HYDRATED GEL.

Survey: 255.12mMD(255.12mTVD)
0.96°Inc 220.86°Az.

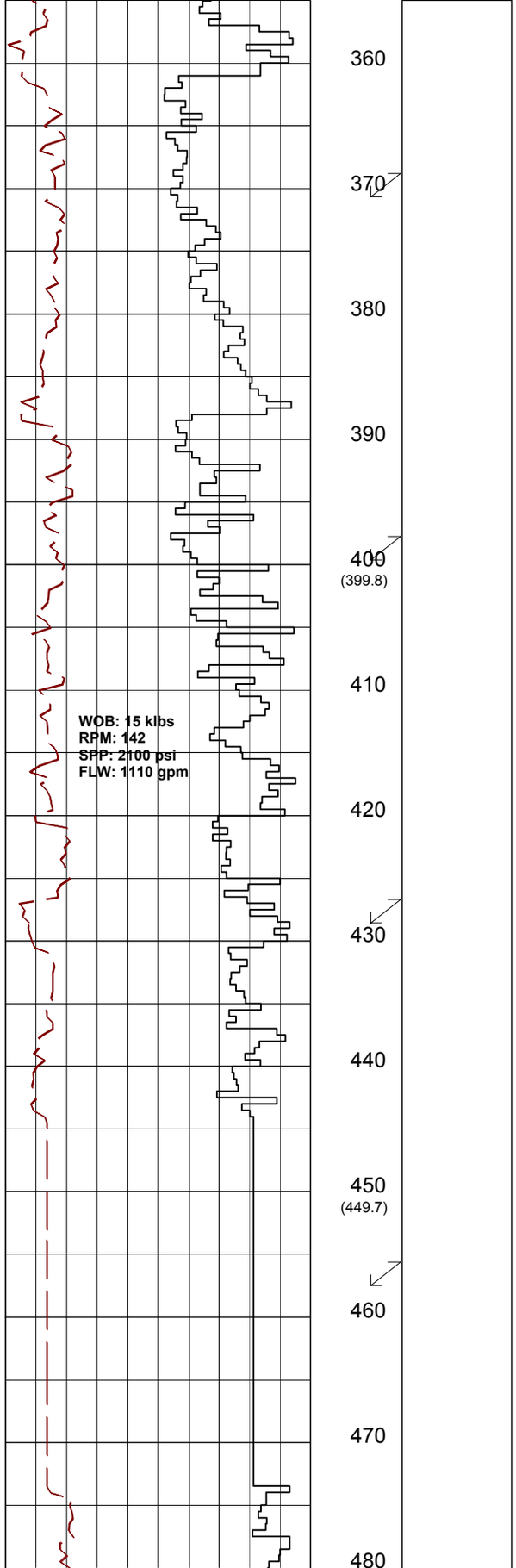
RETURNS DUMPED BEFORE SHAKERS

Survey: 284.04mMD(284.03mTVD)
2.66°Inc 155.31°Az.

Survey: 312.99mMD(312.95mTVD)
2.14°Inc 162.30°Az.

Survey: 341.86mMD(341.78mTVD)
3.55°Inc 171.66°Az.

RETURNS DUMPED BEFORE SHAKERS



Survey: 370.84mMD(370.70mTVD)
3.93°Inc 170.22°Az.

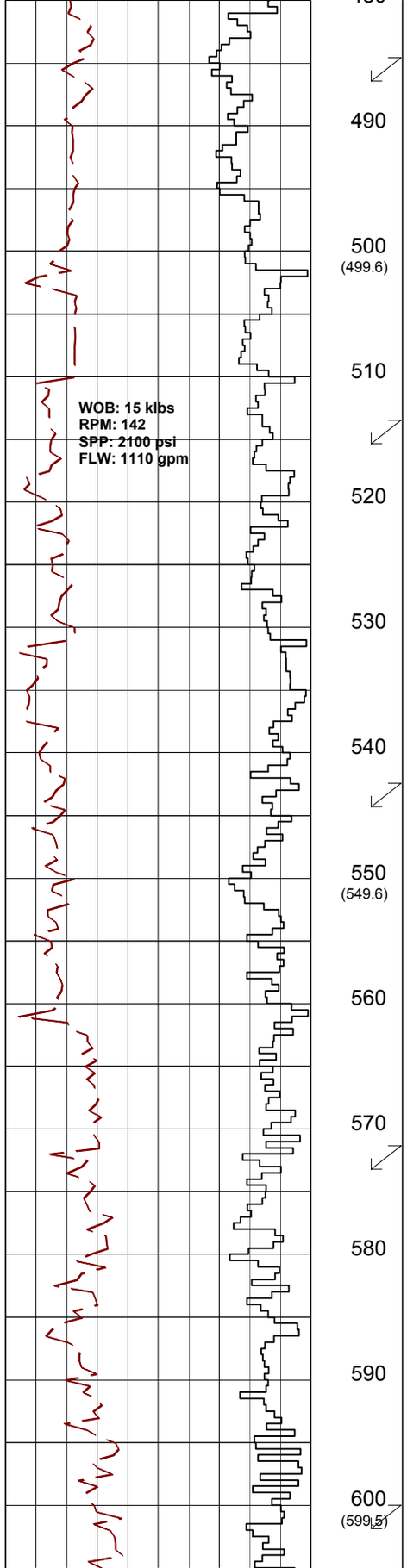
Survey: 399.78mMD(399.58mTVD)
3.24°Inc 173.19°Az.

Survey: 428.72mMD(428.46mTVD)
4.39°Inc 168.71°Az.

RETURNS DUMPED
BEFORE SHAKERS

Survey: 457.64mMD(457.32mTVD)
2.85°Inc 179.35°Az.

ALS SYSTEM SHUT DOWN:
DATA LOSS 445m-473m



Survey: 486.59mMD(486.23mTVD)
3.24°Inc 186.06°Az.

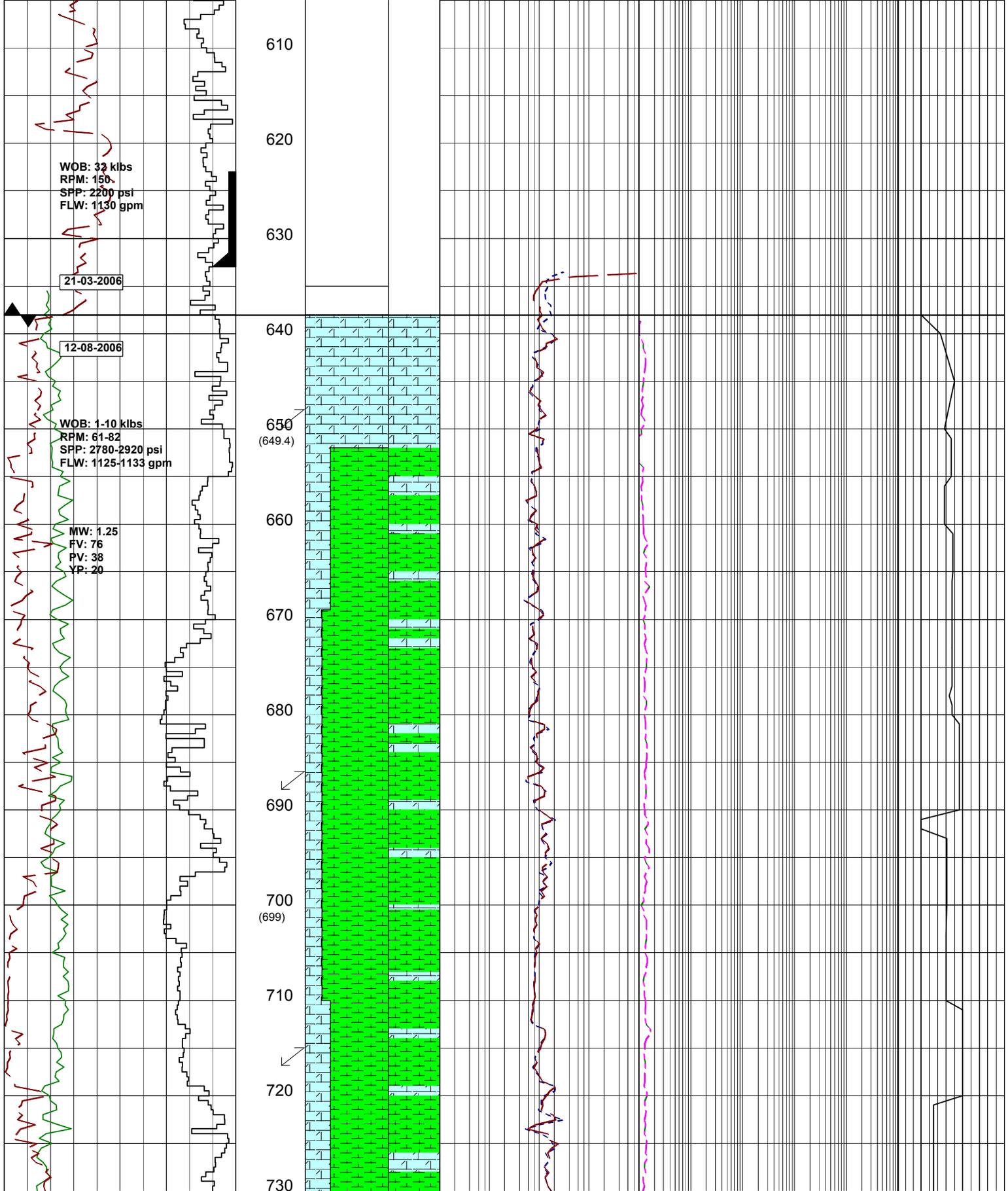
Survey: 515.51mMD(515.11mTVD)
2.78°Inc 184.56°Az.

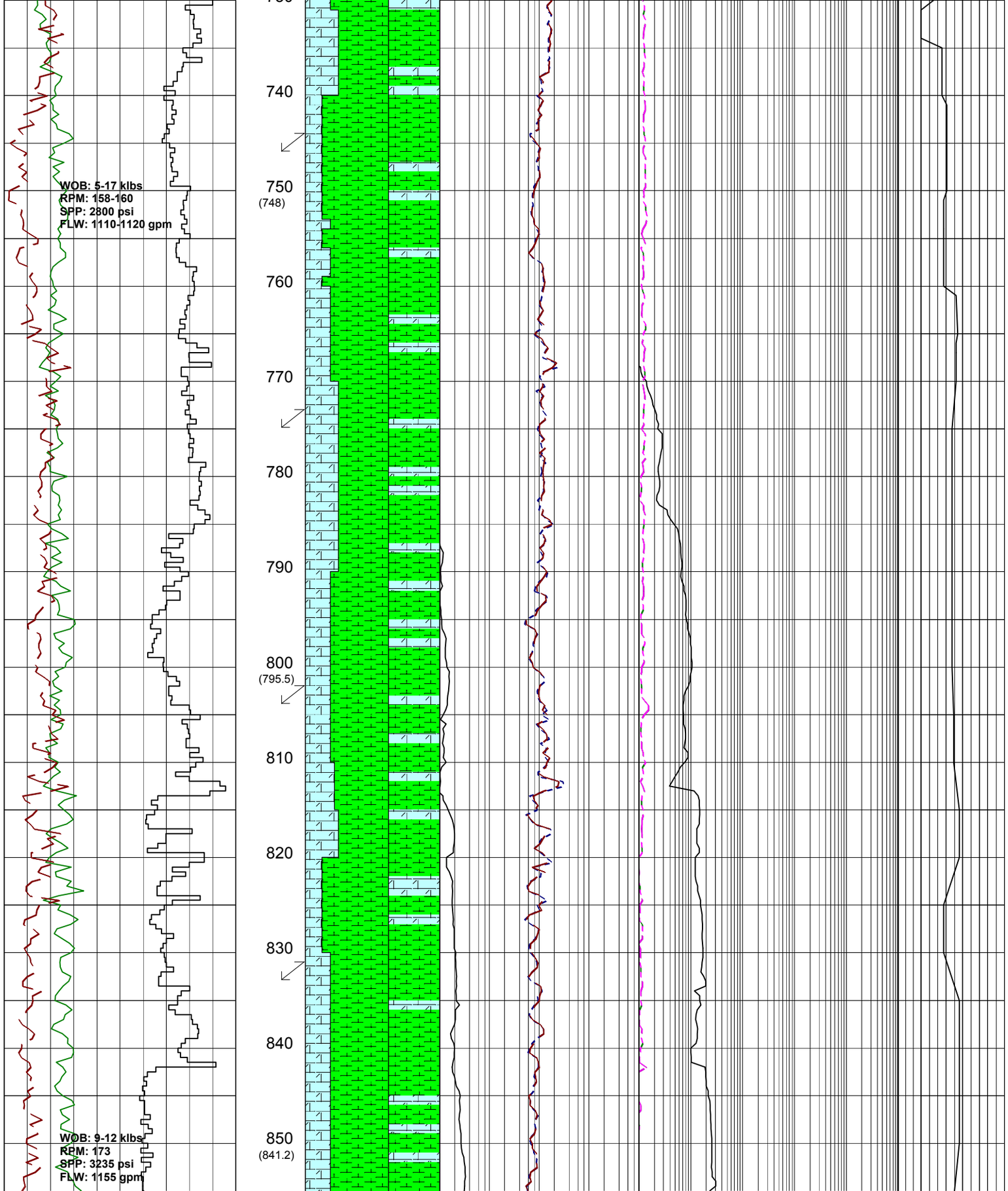
Survey: 544.48mMD(544.06mTVD)
1.80°Inc 179.31°Az.

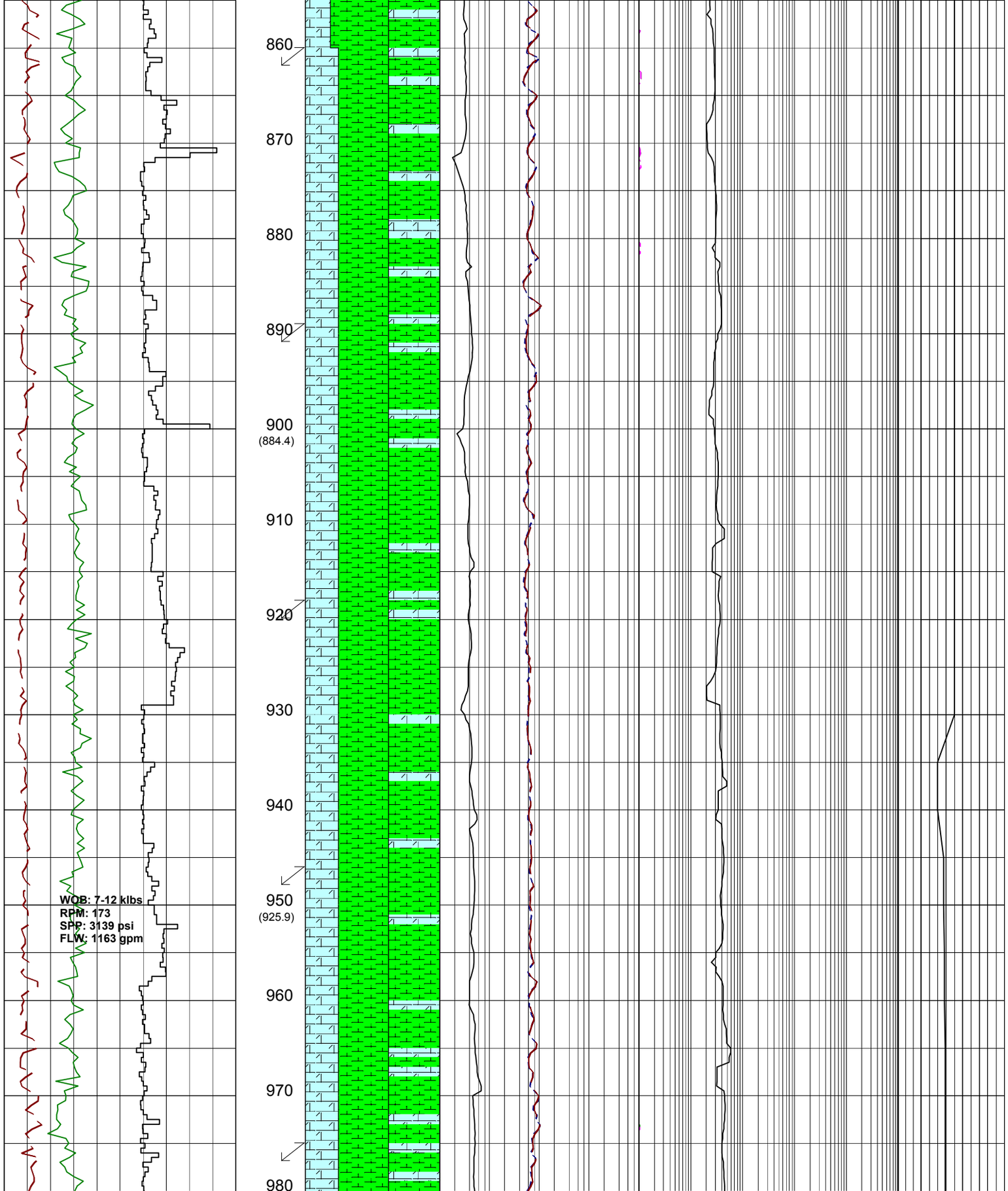
RETURNS DUMPED
BEFORE SHAKERS

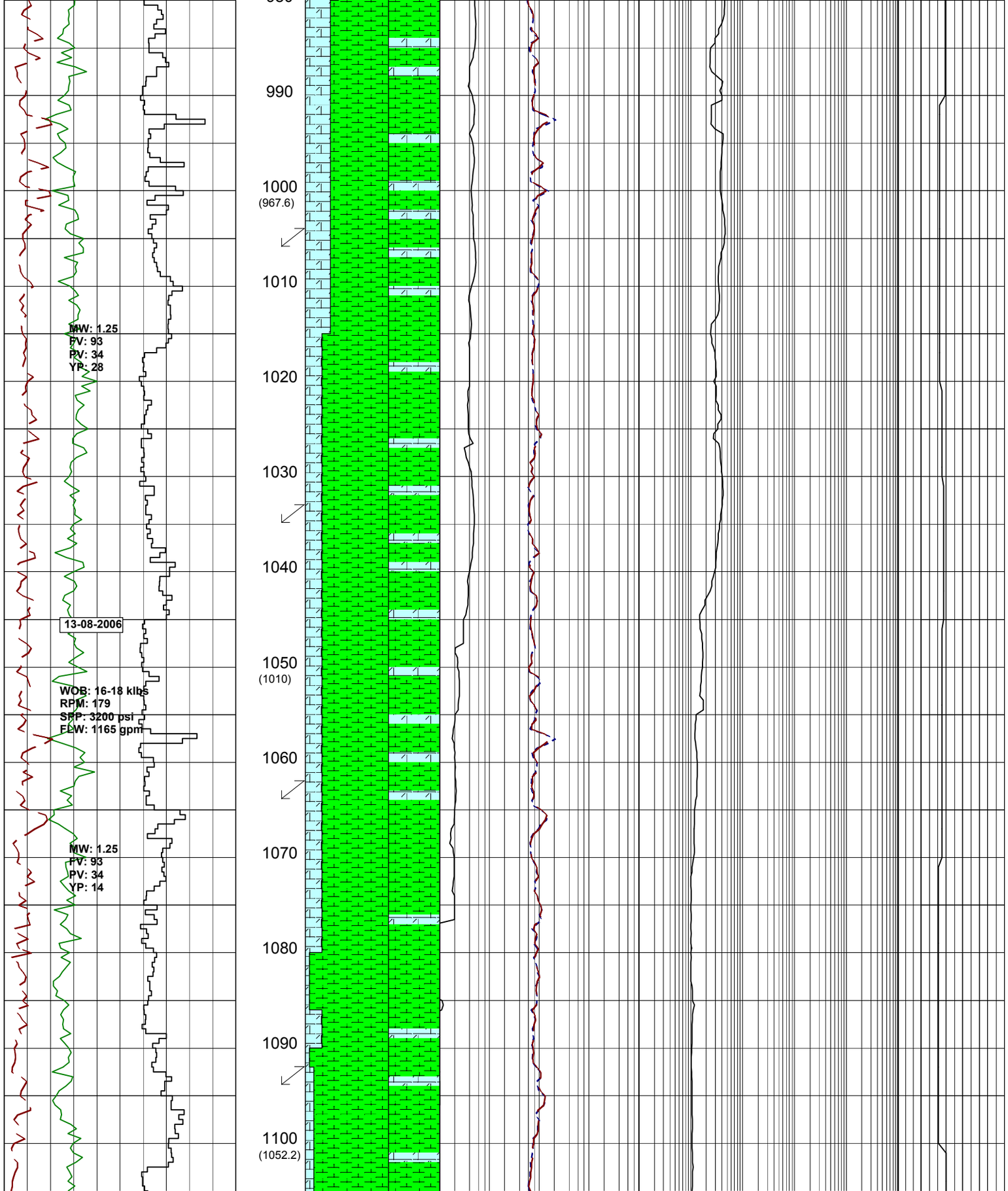
Survey: 573.37mMD(572.91mTVD)
3.58°Inc 179.65°Az.

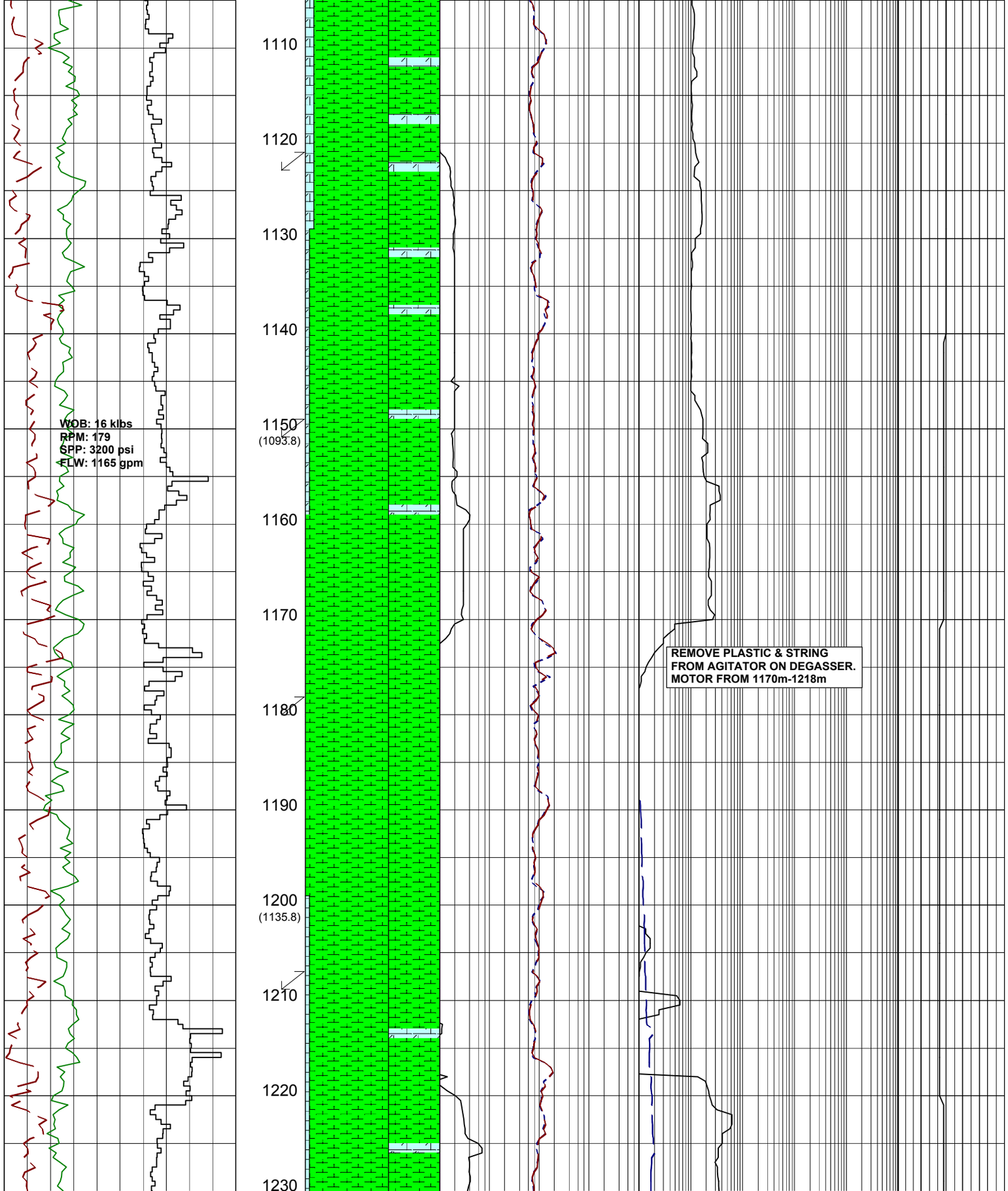
Survey: 602.04mMD(601.53mTVD)
3.46°Inc 176.60°Az.


610
620
630
640
650
(649.4)
660
670
680
690
700
(699)
710
720
730
WOB: 32 klbs
RPM: 150
SPP: 2200 psi
FLW: 1130 gpm
21-03-2006
12-08-2006
WOB: 1-10 klbs
RPM: 61-82
SPP: 2780-2920 psi
FLW: 1125-1133 gpm
MW: 1.25
FV: 76
PV: 38
YP: 20
CONTINUE DRILLING OF THA04
@ 06:30 HRS 11/08/2006
473mm (18.625")
CASING SET @ 633m
DRILL FROM 638m TO 2751m WITH
A SYN-TEC SBM SYSTEM
DRILL FROM 638m TO 2751m WITH
A ROTARY STEERABLE BHA
BIT# 3: 12¼" (311.15mm)
SEC DBS FMF3565Z BIT
JETS: 6x18
IN: 638m OUT: 2751m
RUN: 2113m HRS: 91.1
COND:2-2-WT-S-X-IN-CT,ER-TD
CALCILUTITE:lt ov gry,off wh,vsft-sft,
blky,amorph,com qtz cly,tr coral frag.
Survey: 650.00mMD(649.36mTVD)
5.17°Inc 173.38°Az.
CALCAREOUS CLAYSTONE:lt olv
gry,med dk gry,abdt calc,tr mnr vf Sd
grs,tr pyr,tr carb spks,sft-frm,blky.
CALCAREOUS CLAYSTONE:lt olv
gry,med dk gry,abdt calc,tr mnr vf qtz
grs,tr pyr,tr carb spks,sft-frm,blky.
CALCILUTITE:lt ov gry,off wh,vsft-sft,
blky,amorph,com qtz cly,tr coral frag.
Survey: 688.39mMD(687.57mTVD)
6.30°Inc 210.93°Az.
CALCAREOUS CLAYSTONE:lt olv
gry,med dk gry,abdt calc,tr mnr vf Sd
grs,tr pyr,tr carb spks,sft-frm,blky.
Survey: 717.36mMD(716.23mTVD)
10.31°Inc 208.79°Az.
CALCILUTITE:lt ov gry,off wh,vsft-sft,
blky,amorph,com qtz cly,tr coral frag.
CALCAREOUS CLAYSTONE:lt olv


WOB: 5-17 klbs
RPM: 158-160
SPP: 2800 psi
FLW: 1110-1120 gpm
WOB: 9-12 klbs
RPM: 173
SPP: 3235 psi
FLW: 1155 gpm
740
750
(748)
760
770
780
790
800
(795.5)
810
820
830
840
850
(841.2)
gry,med dk gry,abdt calc,tr mnr vf qtz grs,tr pyr,tr carb spks,sft-frm,blky.
Survey: 746.30mMD(744.48mTVD) 14.72°Inc 197.80°Az.
CALCAREOUS CLAYSTONE:lt olv gry,med dk gry,abdt calc,tr mnr vf qtz grs,tr pyr,tr carb spks,sft-frm,blky.
CALCILUTITE:lt olv gry,v sft-sft, blky,amorph,com qtz cly,tr coral frags.
Survey: 775.25mMD(772.23mTVD) 18.20°Inc 195.23°Az.
CALCAREOUS CLAYSTONE:lt olv gry,med dk gry,abdt calc,tr mnr vf qtz grs,tr pyr,tr carb spks,sft-frm,blky.
Survey: 804.22mMD(799.52mTVD) 20.86°Inc 194.83°Az.
CALCILUTITE:lt olv gry,med dk gry vsft-sft,blky,amorph,com qtz cly,tr coral frags.
Survey: 833.18mMD(826.19mTVD) 24.98°Inc 191.59°Az.
CALCAREOUS CLAYSTONE:lt olv gry,med dk gry,abdt calc,tr mnr vf qtz grs,tr pyr,tr carb spks,sft-frm,blky.
CALCILUTITE:lt olv gry,med dk gry v sft-sft,blky,amorph,com qtz cly,tr coral frags.


860
870
880
890
900
(884.4)
910
920
930
940
950
(925.9)
960
970
980
WOB: 7-12 klbs
RPM: 173
SPP: 3139 psi
FLW: 1163 gpm
Survey: 862.14mMD(852.02mTVD)
28.78°Inc 189.26°Az.
CALCAREOUS CLAYSTONE:lt olv gry,med dk gry,abdt calc,tr mnr vf qtz grs,tr pyr,tr carb spks,sft-frm,blky.
CALCILUTITE:lt olv gry,med dk gry vsft-sft,blky,amorph,com qtz cly,tr coral frags.
Survey: 891.06mMD(876.94mTVD)
32.15°Inc 190.32°Az.
CALCAREOUS CLAYSTONE:lt olv gry,med dk gry,abdt calc,tr pyr, tr carb spks,sft-frm,blky.
Survey: 920.01mMD(901.13mTVD)
34.55°Inc 190.51°Az.
CALCILUTITE:lt olv gry,med dk gry vsft-sft,blky,amorph,com qtz cly,tr coral frags.
Survey: 948.96mMD(925.07mTVD)
33.85°Inc 189.07°Az.
CALCAREOUS CLAYSTONE:lt olv gry,med dk gry,abdt calc,tr pyr, tr carb spks,sft-frm,blky.
CALCILUTITE:lt olv gry,med dk gry v sft-sft,blky,amorph,com qtz cly,tr coral frags.
Survey: 977.87mMD(949.13mTVD)
33.51°Inc 188.44°Az.


990
1000
(967.6)
1010
1020
1030
1040
1050
(1010)
1060
1070
1080
1090
1100
(1052.2)
MW: 1.25
FV: 93
PV: 34
YP: 28
13-08-2006
WOB: 16-18 klbs
RPM: 179
SPP: 3200 psi
FLW: 1165 gpm
MW: 1.25
FV: 93
PV: 34
YP: 14
CALCAREOUS CLAYSTONE:lt olv-olv gry,med dk gry,abdt calc,tr pyr tr carb spks,sft-frm,blky.
CALCILUTITE:lt olv gry,med dk gry v sft-sft,blky,amorph,com qtz cly,tr coral frags.
Survey: 1006.77mMD(973.31mTVD) 32.88°Inc 188.81°Az.
CALCILUTITE:lt olv gry,med dk gry v sft-sft,blky,amorph,com qtz cly,tr coral frags.
CALCAREOUS CLAYSTONE:lt olv-olv gry,med dk gry,abdt calc,tr pyr tr carb spks,sft-frm,blky.
Survey: 1035.71mMD(997.79mTVD) 31.56°Inc 189.35°Az.
CALCAREOUS CLAYSTONE:lt olv-olv gry,med dk gry,abdt calc,tr pyr tr carb spks,sft-frm,blky.
Survey: 1064.58mMD(1022.39mTVD) 31.61°Inc 196.12°Az.
CALCILUTITE:lt olv gry,med dk gry v sft-sft,blky,amorph,com qtz cly,tr coral frags.
Survey: 1093.40mMD(1046.71mTVD) 33.36°Inc 198.23°Az.
CALCAREOUS CLAYSTONE:lt olv-mnr olv gry,med dk gry,abdt calc,tr pyr tr carb spks,sft-frm,blky.



Survey: 1122.38mMD(1070.79mTVD)
34.19°Inc 197.83°Az.

CALCILUTITE:lt olv gry,med dk gry v sft-sft,blky,amorph,com qtz cly,tr coral frags.

CALCAREOUS CLAYSTONE:lt olv-mnr olv gry,med dk gry,abdt calc,tr pyr tr carb spks,sft-frm,blky.

Survey: 1151.26mMD(1094.85mTVD)
33.03°Inc 195.24°Az.

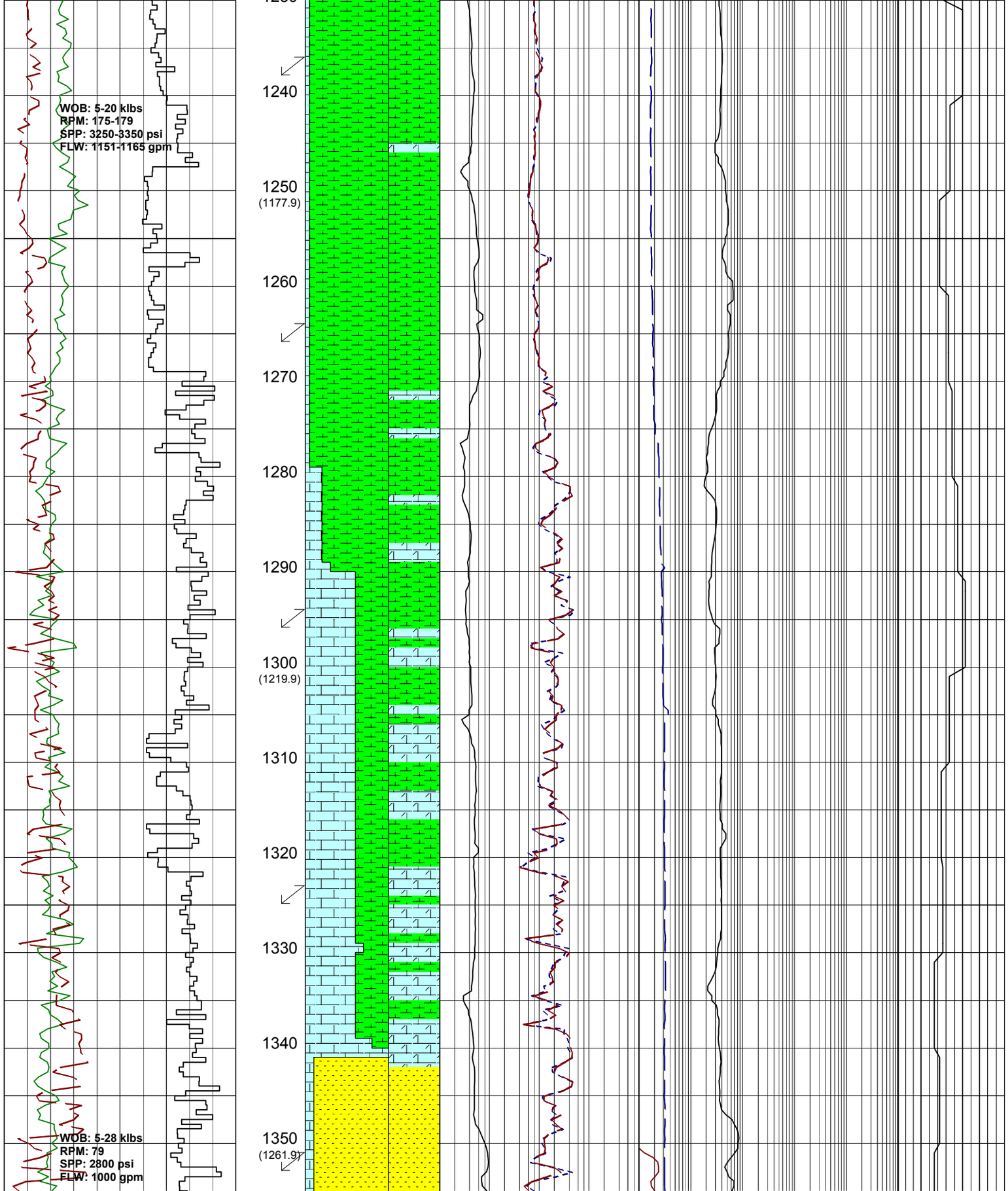
CALCAREOUS CLAYSTONE:lt olv-olv gry,med dk gry,abdt calc,tr pyr tr carb spks,sft-frm,blky.

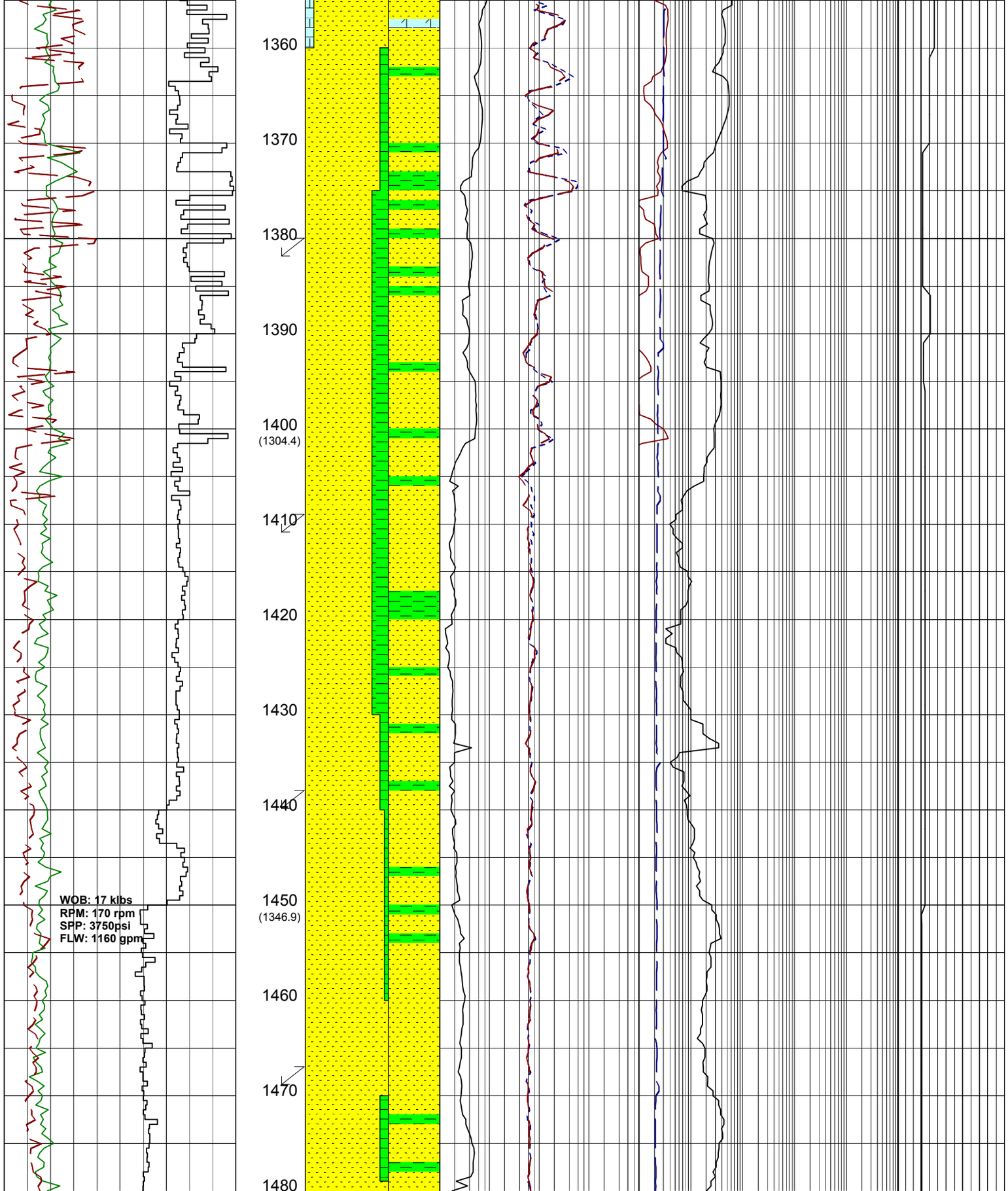
Survey: 1180.18mMD(1119.14mTVD)
32.68°Inc 194.25°Az.

CALCAREOUS CLAYSTONE:lt olv-olv gry,med dk gry,abdt calc,tr mnr qtz grs,tr pyr,tr carb spks,sft-frm,blky.

Survey: 1209.13mMD(1143.49mTVD)
32.85°Inc 194.31°Az.

CALCAREOUS CLAYSTONE:lt olv-olv gry,med dk gry,abdt calc,tr mnr qtz grs,tr pyr,tr carb spks,sft-frm,blky.


WOB: 5-20 klbs
RPM: 175-179
SPP: 3250-3350 psi
FLW: 1151-1165 gpm
1240
1250
(1177.9)
1260
1270
1280
1290
1300
(1219.9)
1310
1320
1330
1340
1350
(1261.9)
WOB: 5-28 klbs
RPM: 79
SPP: 2800 psi
FLW: 1000 gpm
Survey: 1238.05mMD(1167.80mTVD)
32.69°Inc 194.61°Az.
CALCAREOUS CLAYSTONE:lt olv-olv gry,med dk gry,abdt calc,tr mnr qtz grs,tr pyr,tr carb spks,sft-frm,blky.
Survey: 1266.97mMD(1192.14mTVD)
32.70°Inc 195.15°Az.
CALCILUTITE:lt olv gry,med dk gry v sft-sft,blky,amoph,com qtz cly,tr coral frags.
CALCAREOUS CLAYSTONE:lt olv-olv gry,med dk gry,abdt calc,tr mnr qtz grs,tr pyr,tr carb spks,sft-frm,blky.
Survey: 1295.89mMD(1216.45mTVD)
32.87°Inc 195.56°Az.
CALCILUTITE:lt olv gry,med dk gry v sft-sft,blky,amoph,com qtz cly,tr glauc,tr coral frags.
CALCAREOUS CLAYSTONE:lt olv-olv gry,med dk gry,abdt calc,tr mnr qtz grs,tr carb spks,sft-frm,blky.
Survey: 1324.79mMD(1240.69mTVD)
33.17°Inc 196.36°Az.
CALCILUTITE:lt olv gry,med dk gry v sft-sft,blky,amorph,com qtz cly,tr glauc,tr coral frags.
SANDSTONE:clr,trnsl,rr yel,lse,fri, f-crs grs,occ v crs,pr-mod srt,sbang-sbrnd,tr pyr cmt,tr glauc,fr-gd inf por, no flour.
Survey: 1353.72mMD(1265.01mTVD)
32.35°Inc 196.87°Az.



CALCILUTITE:lt olv gry,med dk gry v sft-sft,blky,amorph,com qtz cly,tr glauc,coral frags.

CLAYSTONE:dk gry,olv blk, tr pyr,carb spk,sft-frm,sbblky,

SANDSTONE:clr,trnsl,rr yel,lse,fri, f-crs grs,occ v crs,pr-mod srt,sbang-sbrnd,tr pyr cmt,tr glauc,fr-gd inf por, no flour.

Survey: 1382.60mMD(1289.51mTVD) 31.60°Inc 196.07°Az.

CLAYSTONE:dk gry,olv blk,tr glauc, tr pyr,tr carb spk,sft-frm,blky.

Survey: 1411.510mMD(1314.19mTVD) 31.20°Inc 196.12°Az.

SANDSTONE:trnsl-lt yel,med-crs, mod wl srt,sbrnd-sbang,tr pyr cmt,lse-fri,gd inf por,no fluor.

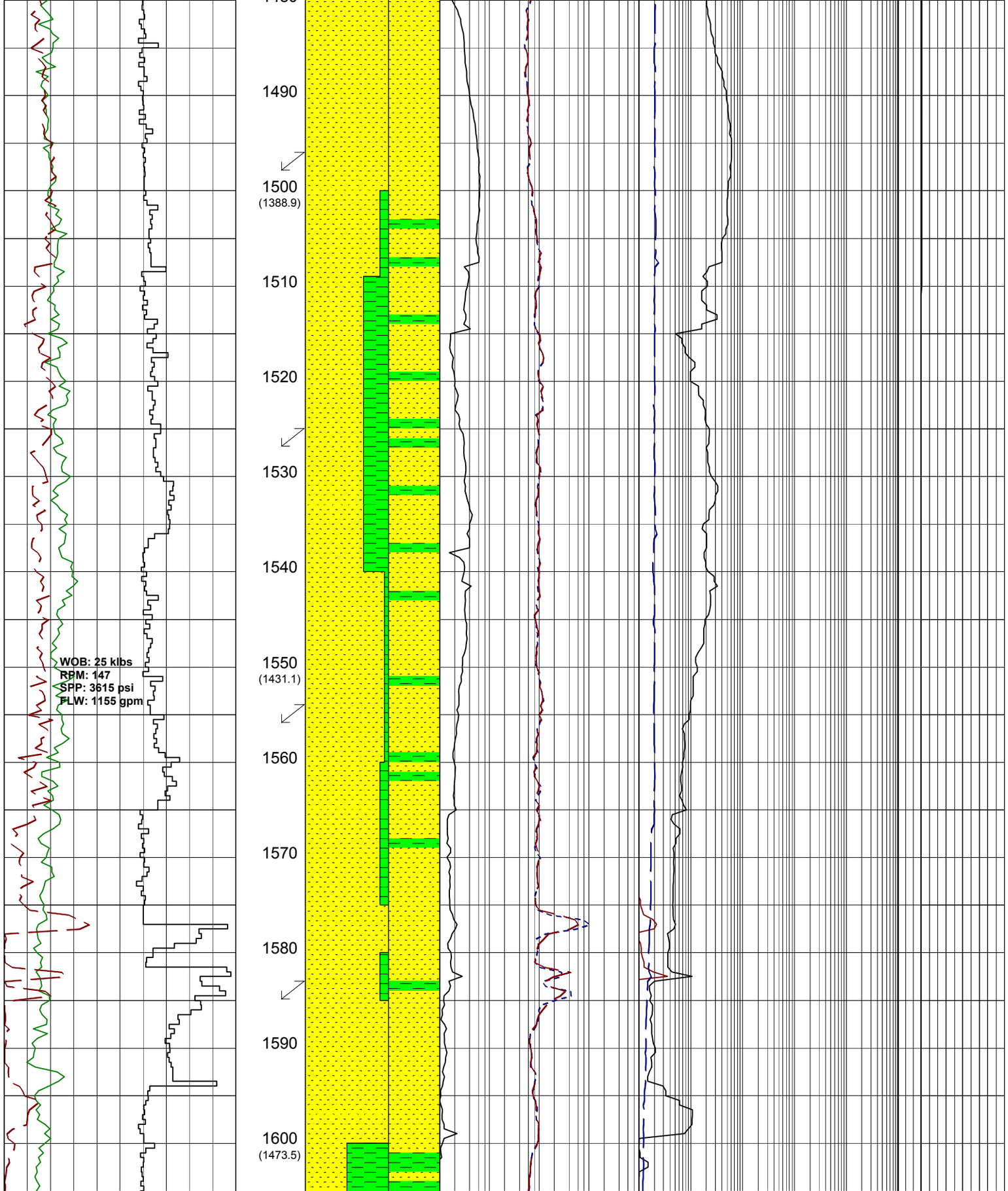
SILTY CLAYSTONE:dk gry,olv blk, tr liths,tr micmic,sft-frm,sbblky.

Survey: 1440.36mMD(1338.81mTVD) 31.66°Inc 195.63°Az.

SANDSTONE:trnsl-lt yel,crs-v crs, mod wl srt,sbrnd-sbang,tr pyr cmt, tr sid cmt,com qtz ovgrths,lse-fri aggs,gd inf por,no fluor.

Survey: 1469.24mMD(1363.18mTVD) 33.20°Inc 195.26°Az.

CLAYSTONE:dk gry,sli slt,tr lith, tr micmic,tr pyr,sft-frm,sbblky.



SANDSTONE:trnsl-lt yel,crs-v crs, mod wl srt,sbrnd-sbang,tr pyr cmt, lse-fri aggs,gd inf por,no fluor.

Survey: 1498.12mMD(1387.35mTVD) 33.15°Inc 196.11°Az.

SANDSTONE:clr-trnsl,opq,dsky yel,med-v crs,dom crs,tr f,pr srt, sbang-sbrnd,lse,gd inf por,no fluor.

SILTY CLAYSTONE:med-dk gry, grysh brn,grysh grn,abdt qtz slt,tr liths, sft-frm,blky.

Survey: 1527.01mMD(1411.66mTVD) 32.27Inc 197.10°Az.

SANDSTONE:clr-trnsl,tr pl brn,tr blsh grn,f-v crs,dom med-crs,pr-mod srt, tr glauc,lse,gd inf por,no fluor.

SILTY CLAYSTONE:med-dk gry,grysh brn,grysh grn,abdt qtz slt,tr liths,sft-frm,blky.

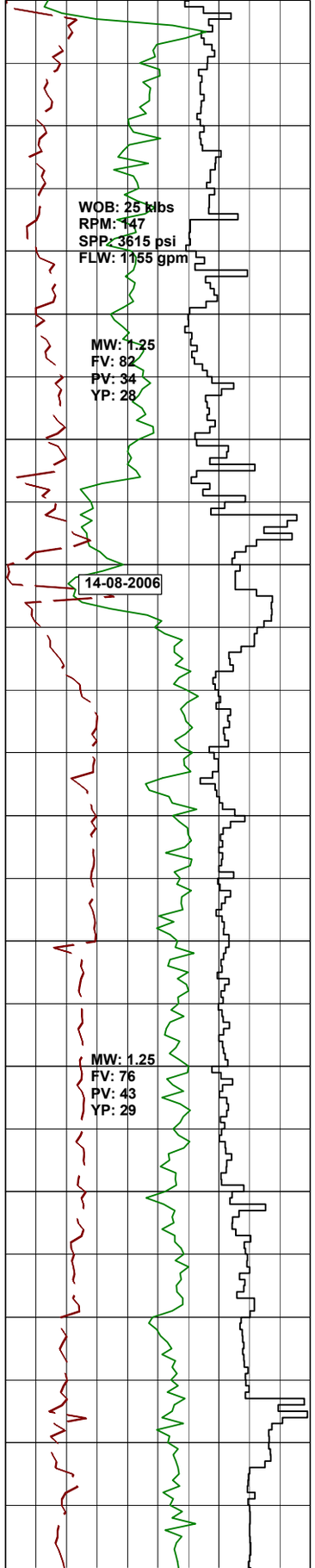
Survey: 1555.95mMD(1436.15mTVD) 32.13°Inc 197.42°Az.

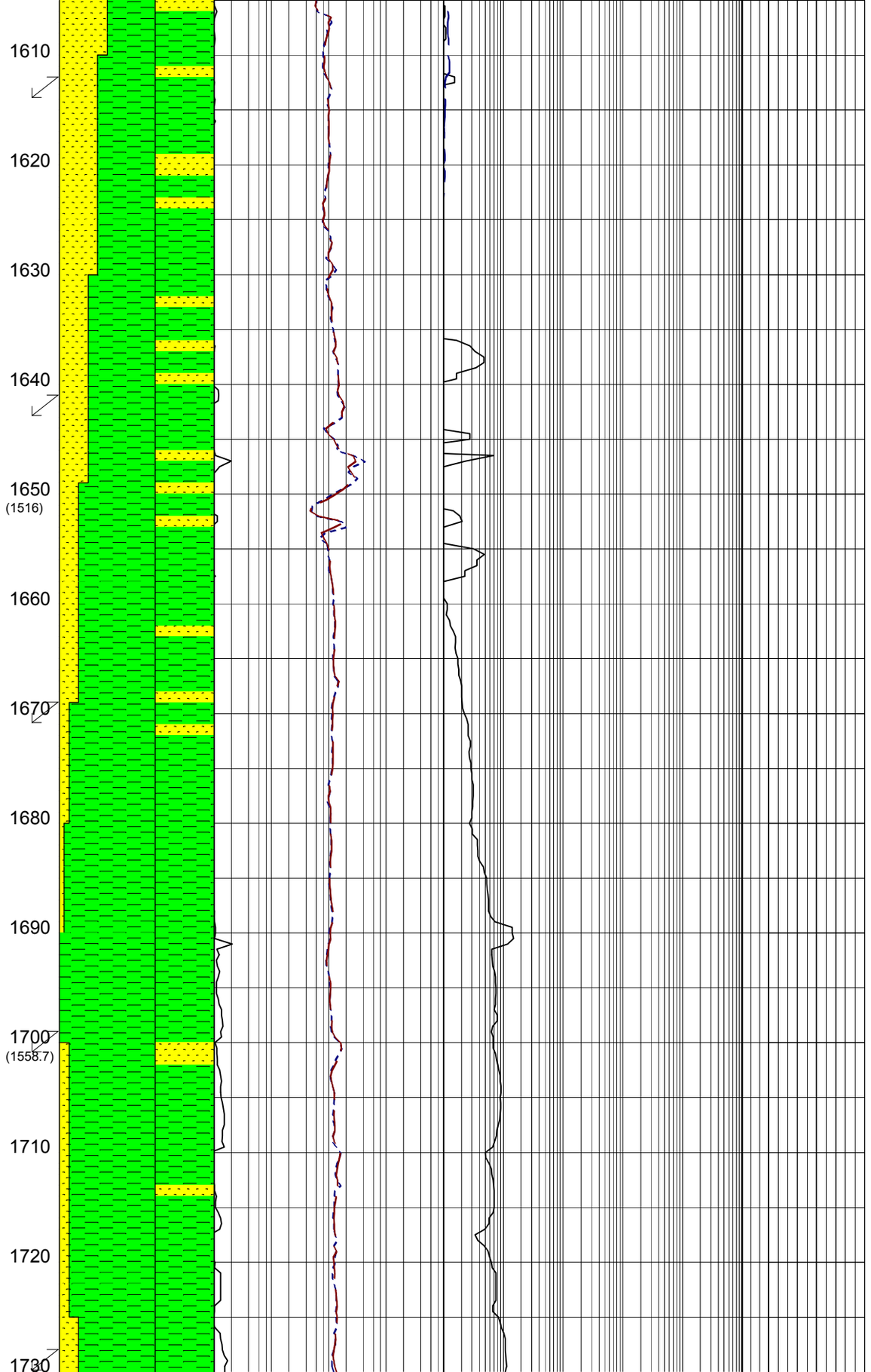
SILTY CLAYSTONE:med-dk gry, grysh brn,grysh gry,abdt qtz slt,tr liths, sft-frm,blky.

SANDSTONE:clr-trnsl,lt yel, tr pl brn,tr pl pnk,f-crs,dom med, mod-wl srt,sbang-sbrnd,lse,gd inf por,no fluor.

Survey: 1584.90mMD(1460.67mTVD) 32.14°Inc 197.54°Az.

SANDSTONE:dsky yel,pl brn,brnsh gry,med-crs,tr f,mod-wl srt,sbang-sbrnd





gry,med-crs,tr f,mod wl srt,sbang-sbrnd, tr pyr cmt,lse,gd inf por,no fluor.

Survey: 1613.83mMD(1485.24mTVD) 31.59°Inc 196.05°Az.

SILTY CLAYSTONE:brn gry-brn blk, dk gry,grysh grn,abdt qtz slt,tr liths, sft-frm,blky.

SANDSTONE:clr,trnsl,frstd,yelsh brn, med-crs,occ v crs,pr-mod srt,sbang-sbrnd,lse,gd inf por,no fluor.

Survey: 1642.73mMD(1509.85mTVD) 31.64°Inc 196.36°Az.

SILTY CLAYSTONE:brn gry-brn blk, dk gry,grysh grn,abdt qtz slt,tr lith,tr nod pyr,tr carb spks,sft-frm,blky.

SANDSTONE:clr,trnsl,frstd,yelsh brn, med-crs,occ v crs,pr-mod srt,sbang-sbrnd,lse,gd inf por,no fluor.

Survey: 1671.67mMD(1534.53mTVD) 31.29°Inc 196.58°Az.

SILTY CLAYSTONE:dk gry-grysh blk, abdt qtz slt,tr mnr vf qtz grs,tr lith,tr nod pyr,tr carb spks,sft-frm,blky.

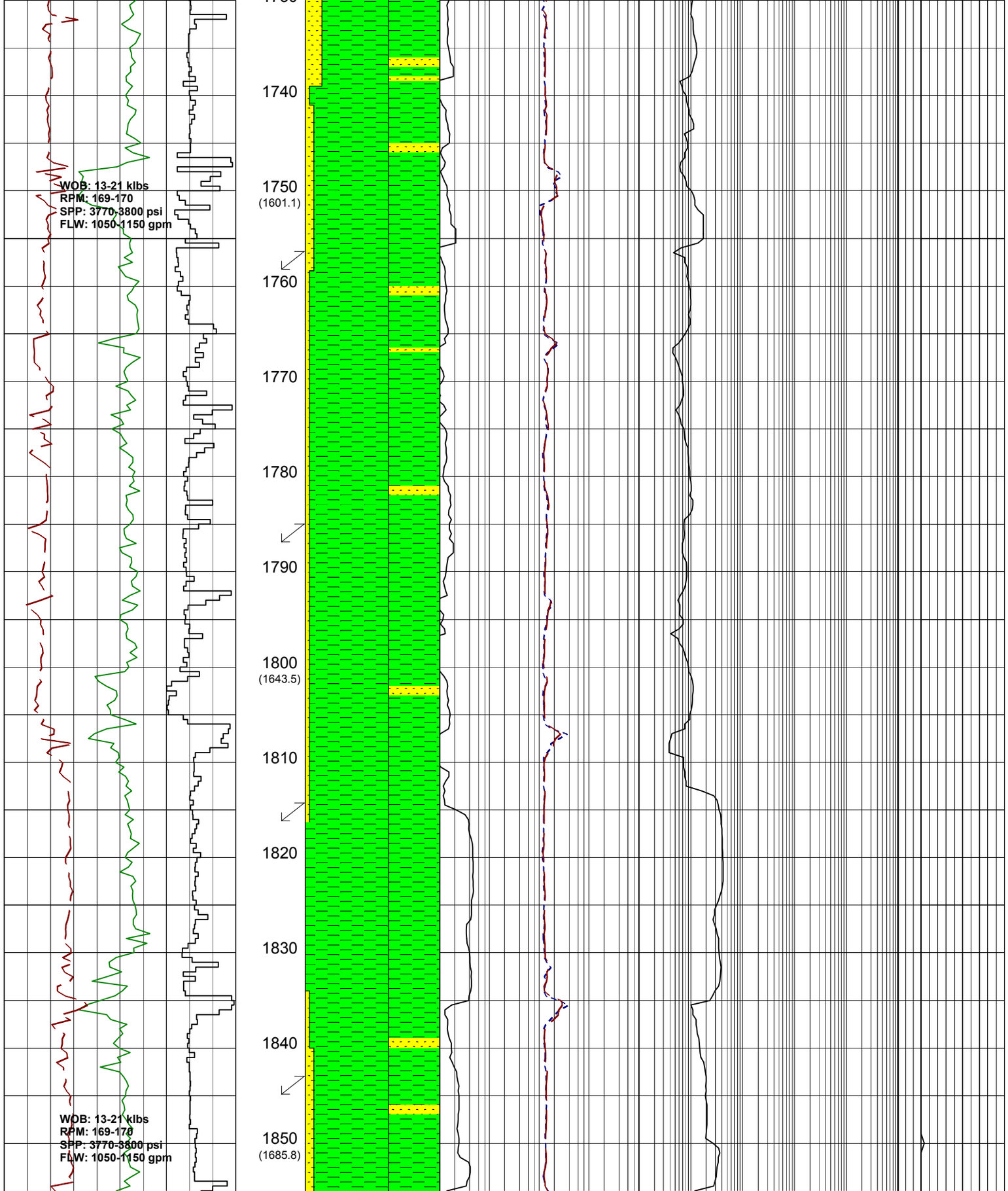
Survey: 1700.54mMD(1559.15mTVD) 31.70°Inc 196.96°Az.

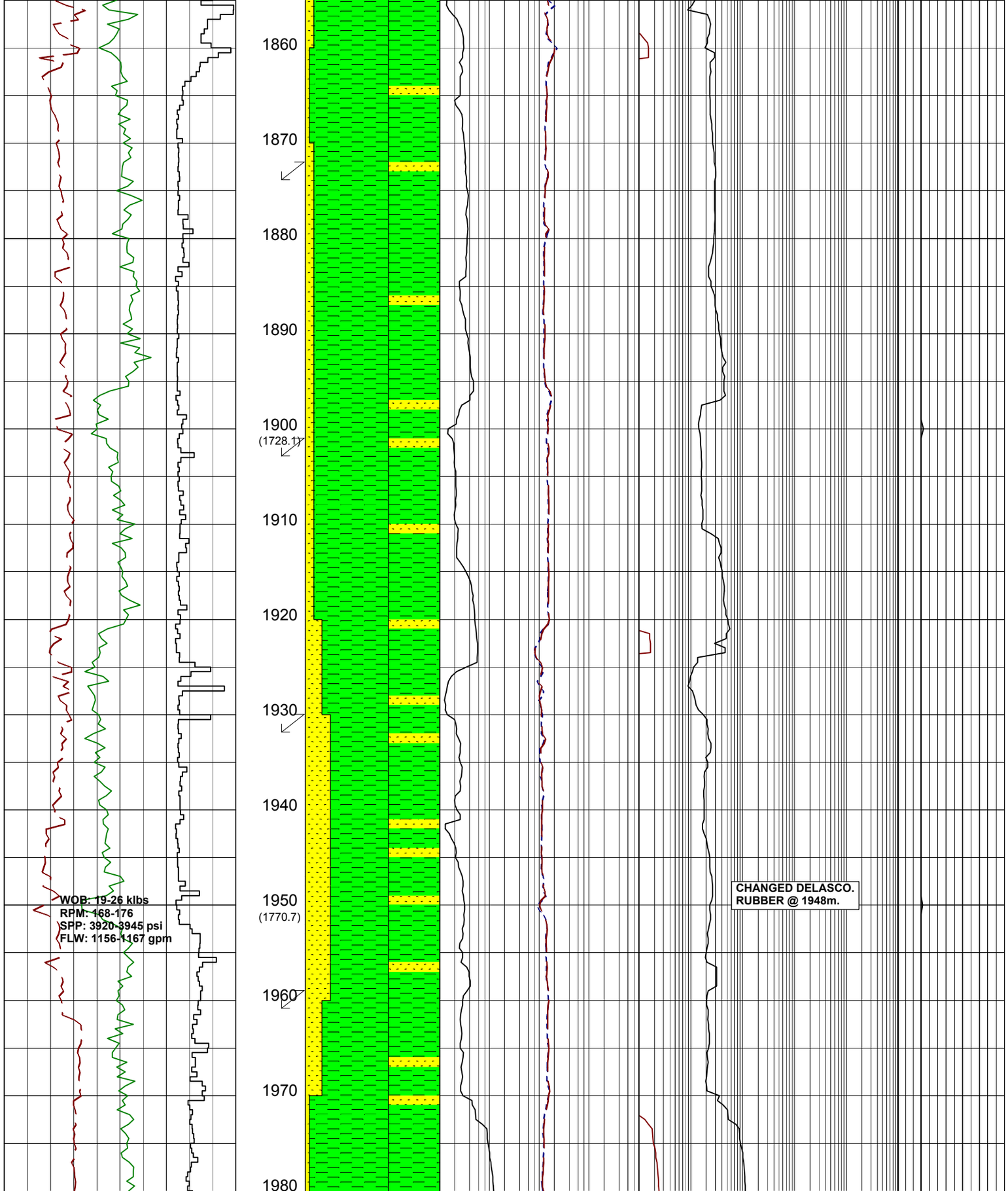
SANDSTONE:clr,trnsl,frstd,yelsh brn, med-crs,occ v crs,pr srt,sbang-sbrnd, lse,gd inf por,no fluor.

SILTY CLAYSTONE:dk gry-grysh blk, abdt slt,tr mnr vf qtz grs,tr lith,tr dissem pyr,tr carb spks,sft-frm,blky.

SANDSTONE:clr,trnsl,frstd,yelsh brn, med-crs,tr f,pr srt,sbang-sbrnd, lse,gd inf por,no fluor.

Survey: 1729.45mMD(1583.72mTVD) 31.83°Inc 196.87°Az.


1740
1750
(1601.1)
1760
1770
1780
1790
1800
(1643.5)
1810
1820
1830
1840
1850
(1685.8)
WOB: 13-21 klbs
RPM: 169-170
SPP: 3770-3800 psi
FLW: 1050-1150 gpm
WOB: 13-21 klbs
RPM: 169-170
SPP: 3770-3800 psi
FLW: 1050-1150 gpm
SILTY CLAYSTONE:dk gry-grysh blk, abdt qtz slt,tr mnr vf qtz grs,tr lith,tr dissem pyr,tr carb spks,sft-frm,blky.
Survey: 1758.40mMD(1608.26mTVD) 32.33°Inc 194.83°Az.
SILTY CLAYSTONE:dk gry-grysh blk, abdt qtz slt,tr mnr vf qtz grs,tr lith,tr dissem pyr,tr carb spks,sft-frm,blky.
SANDSTONE:clr,trnsl,frstd,yelsh brn, med-crs,tr f,pr srt,sbang-sbrnd, lse,gd inf por,no fluor.
Survey: 1787.33mMD(1632.75mTVD) 31.96°Inc 195.03°Az.
SILTY CLAYSTONE:dk gry-grysh blk, abdt qtz slt,tr mnr vf qtz grs,tr lith,tr dissem pyr,tr carb spks,sft-frm,blky.
SILTY CLAYSTONE:dk gry-grysh blk, abdt qtz slt,tr mnr vf qtz grs,tr lith,tr nod pyr,tr carb spks,sft-frm,blky.
Survey: 1816.31mMD(1657.30mTVD) 32.21°Inc 195.30°Az.
SILTY CLAYSTONE:dk gry-grysh blk, abdt qtz slt,tr mnr vf qtz grs,tr lith,tr nod pyr,tr carb spks,sft-frm,blky.
Survey: 1845.27mMD(1681.83mTVD) 32.03°Inc 193.45°Az.
SILTY CLAYSTONE:dk gry-grysh blk,



abdt qtz slt,tr mnr vf qtz grs,tr liths,tr nod pyr,tr carb spks,sft-frm,blky.

Survey: 1874.19mMD(1706.24mTVD) 32.87°Inc 193.78°Az.

SILTY CLAYSTONE:dk gry-grysh blk, abdt qtz slt,tr mnr vf qtz grs,tr liths,tr nod pyr,tr carb spks,sft-frm,blky.

SANDSTONE:mod yelsh brn,clr,trnsl, f-crs,pr-mod srt,sbang-sbrnd,lse, no vis mtx,gd-fr inf por,no fluor.

SILTY CLAYSTONE:grysh brn,grysh blk,olv blk,abdt qtz slt,tr nod pyr, tr calc,v sft-sft,amorph i/p,sbblky-blky.

Survey: 1903.18mMD(1730.75mTVD) 31.63°Inc 193.99°Az.

SILTY CLAYSTONE:grysh brn,grysh blk,olv blk,abdt qtz slt,tr nod pyr,tr carb spks,v sft-sft,amorph i/p,sbblky -blky.

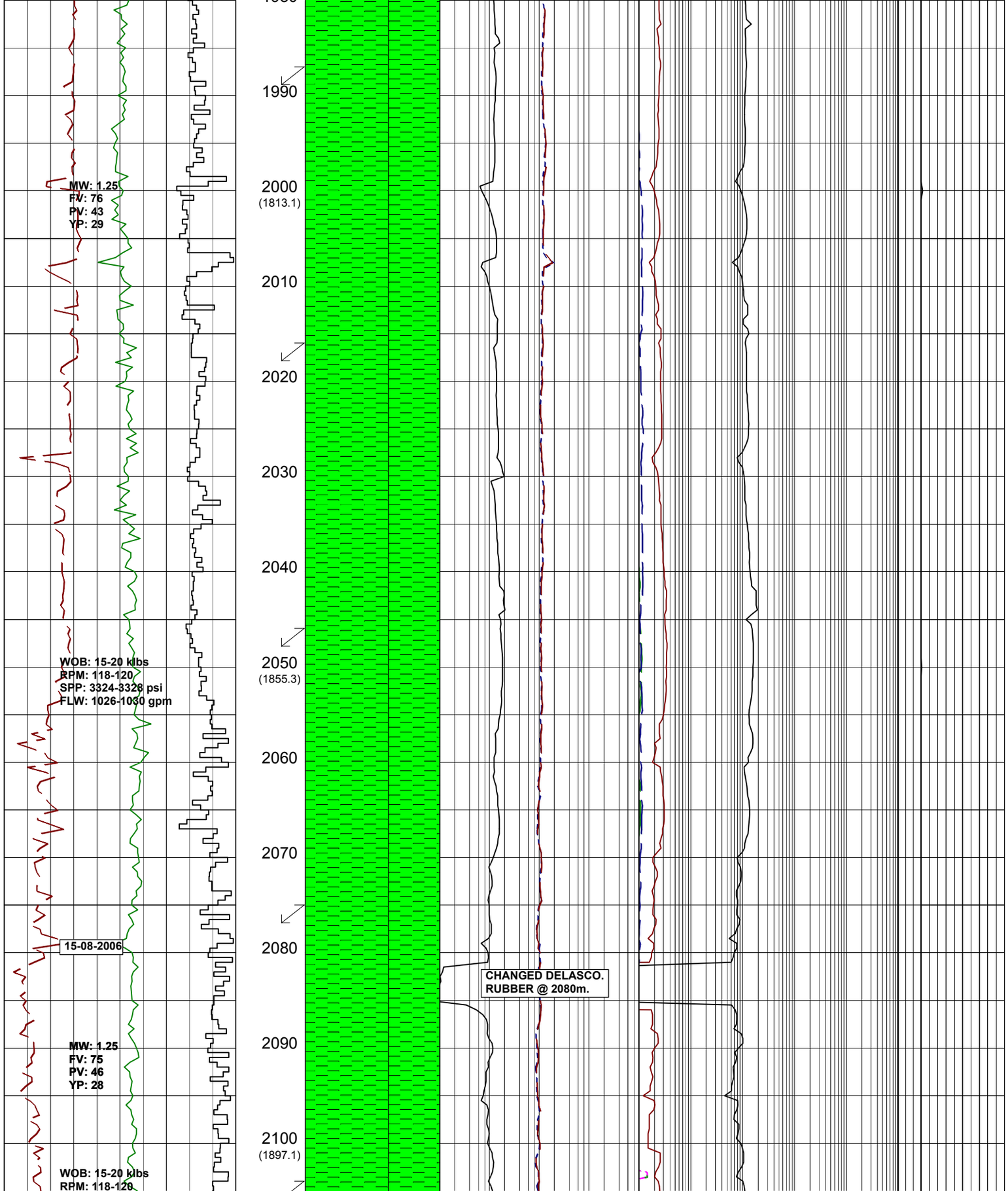
Survey: 1932.12mMD(1755.44mTVD) 31.27°Inc 194.24°Az.

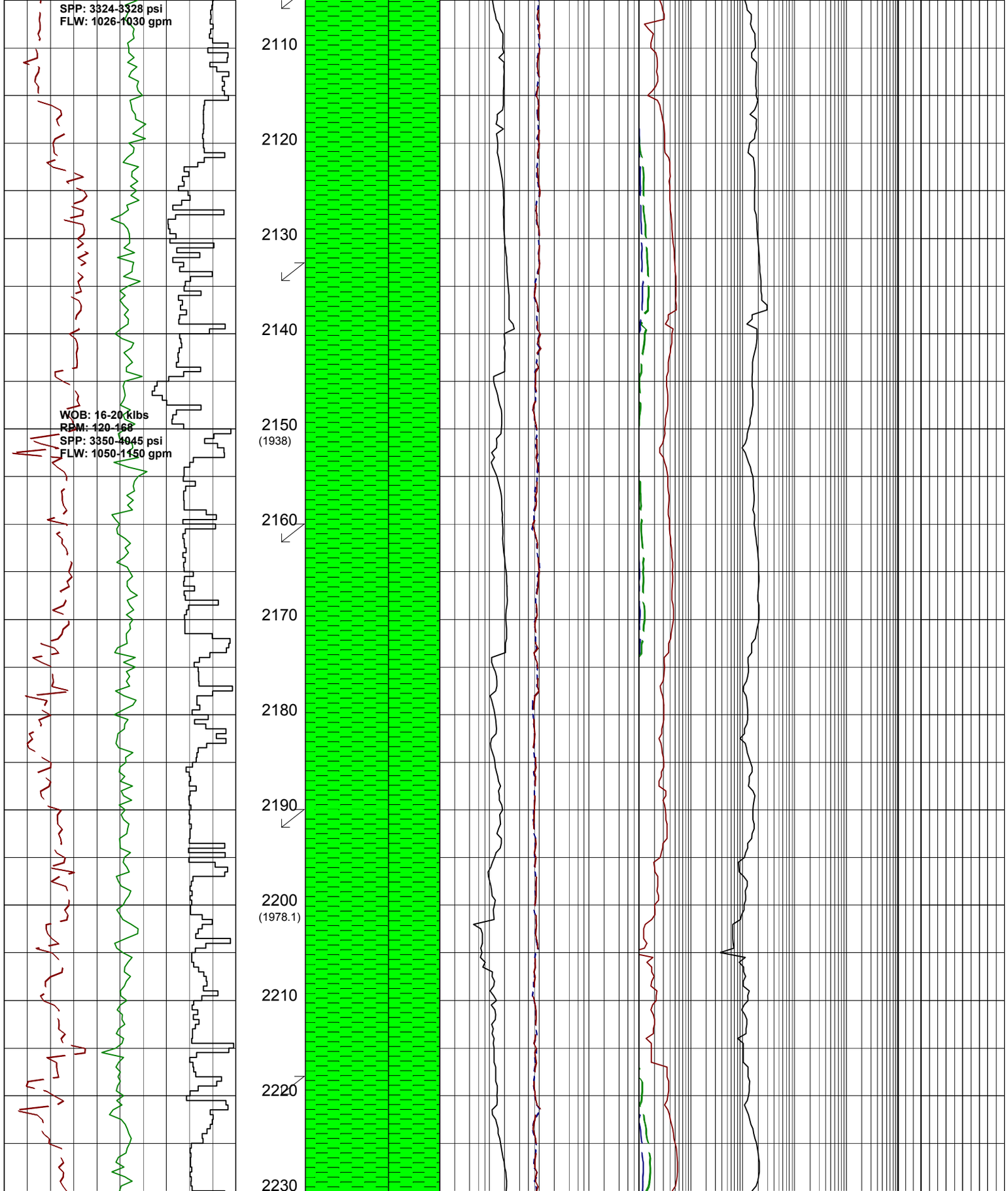
SILTY CLAYSTONE:grysh brn,olv gry,olv blk,abdt qtz slt,tr pyr,sft-frm, amorph i/p,sbblky-blky.

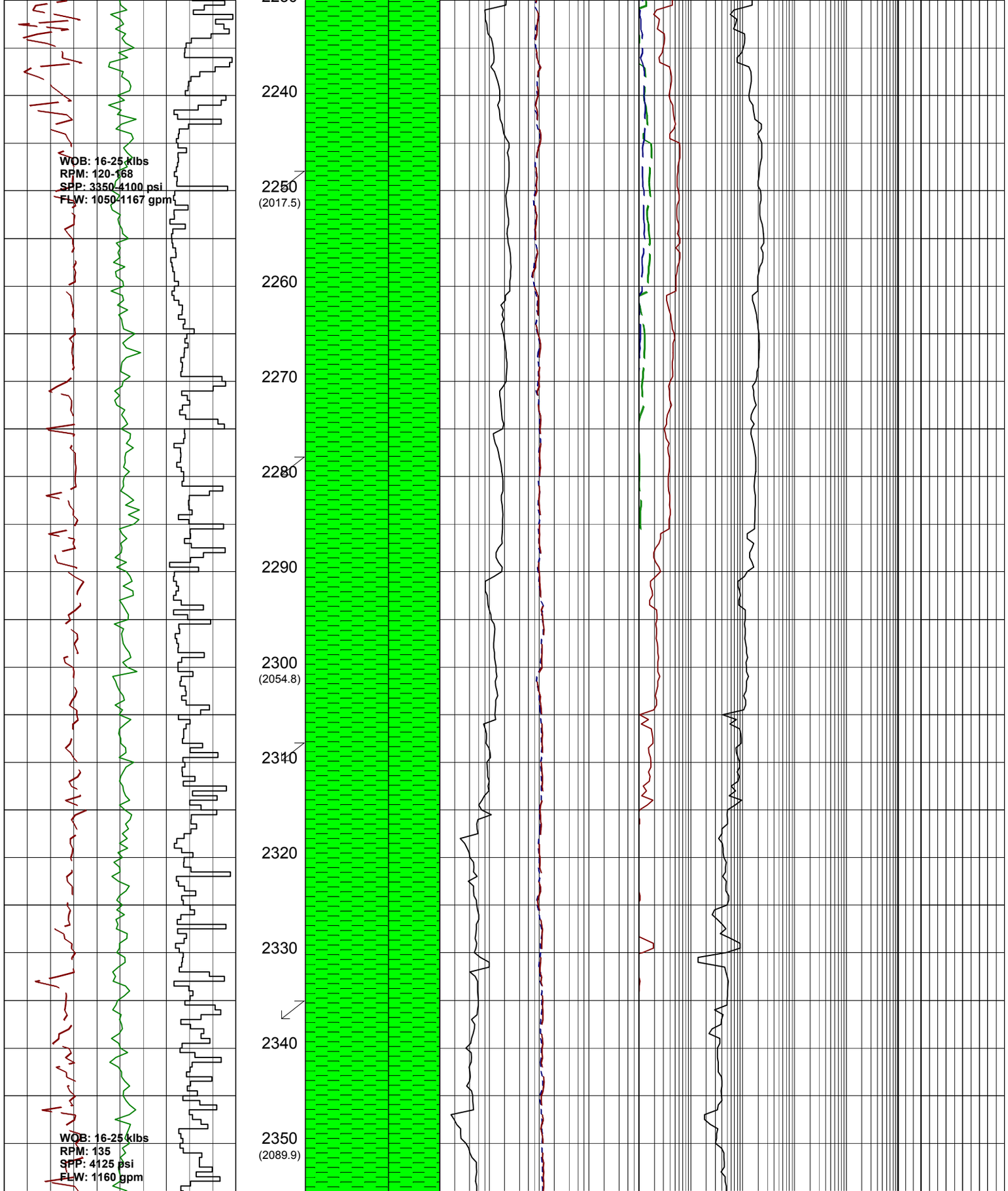
SANDSTONE:lt gry,med lt gry,clr-trnsl, pred vf-f,tr med-crs,pr srt,sbang-sbrnd, tr carb spks,lse-fri,pr-fr inf por,no fluor.

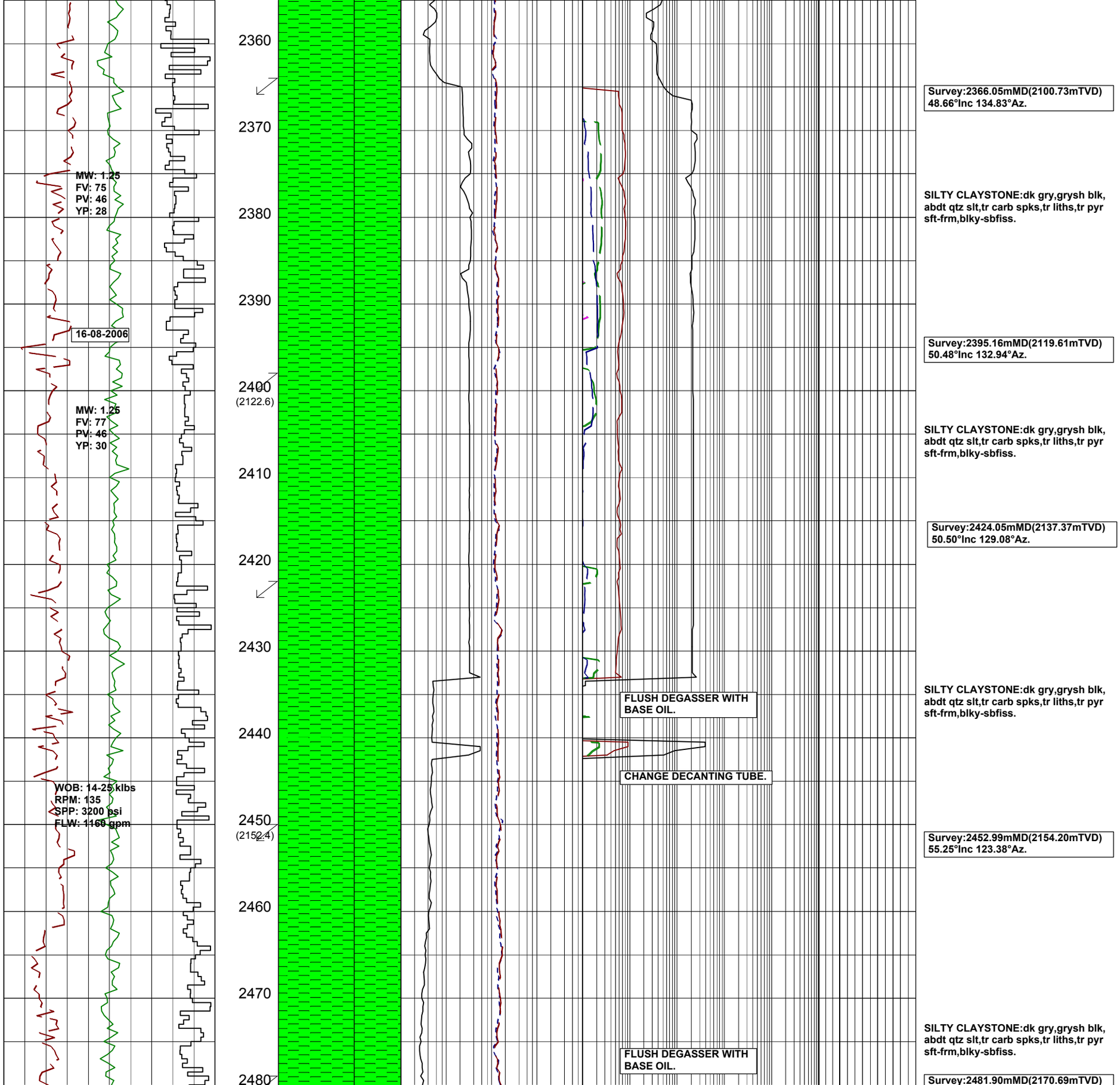
Survey: 1961.07mMD(1780.10mTVD) 31.95°Inc 194.52°Az.

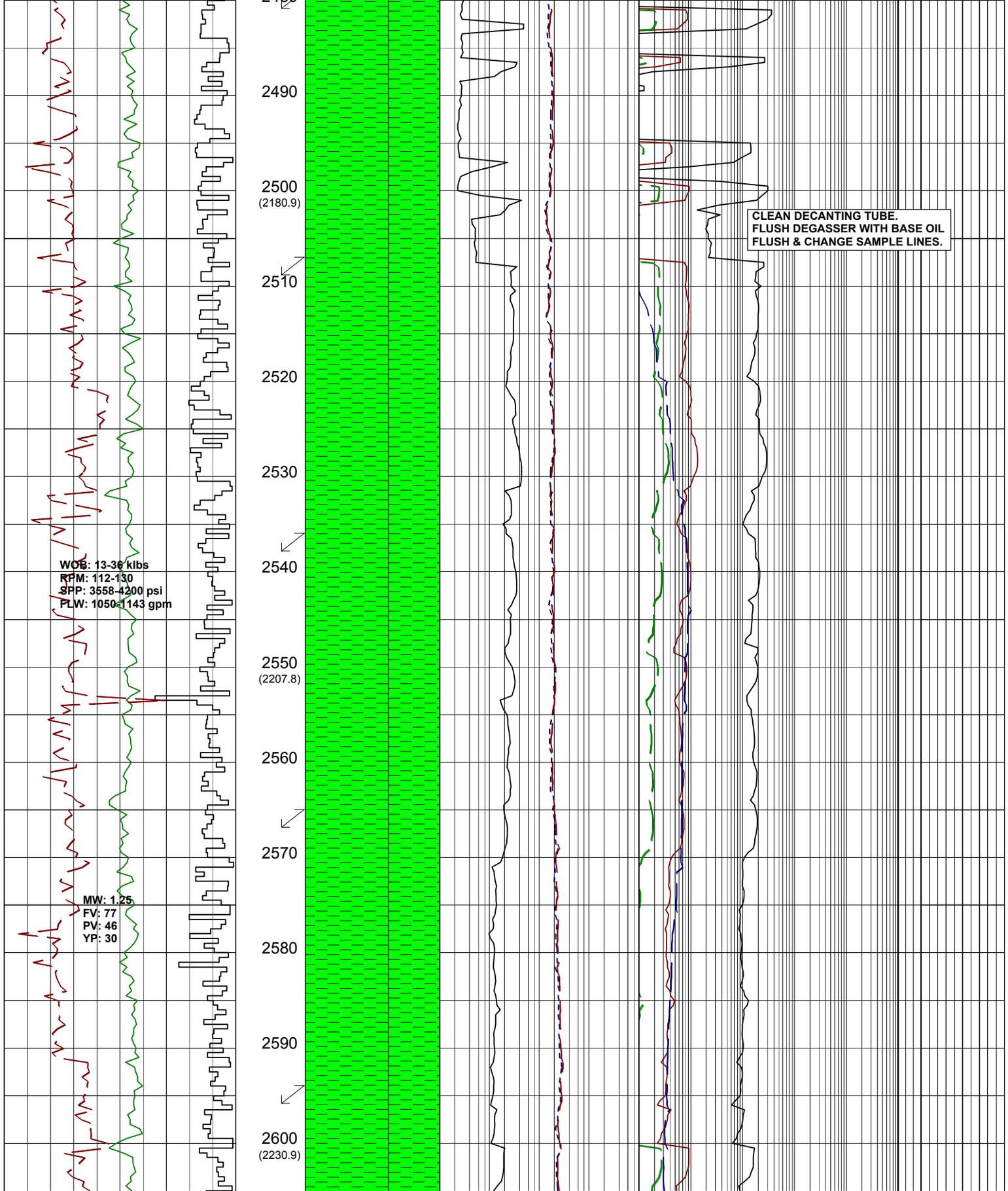
SILTY CLAYSTONE:grysh brn,olv gry,olv gry,olv blk,abdt qtz slt,tr pyr, sft-frm,amorph i/p,sbblky-blky.

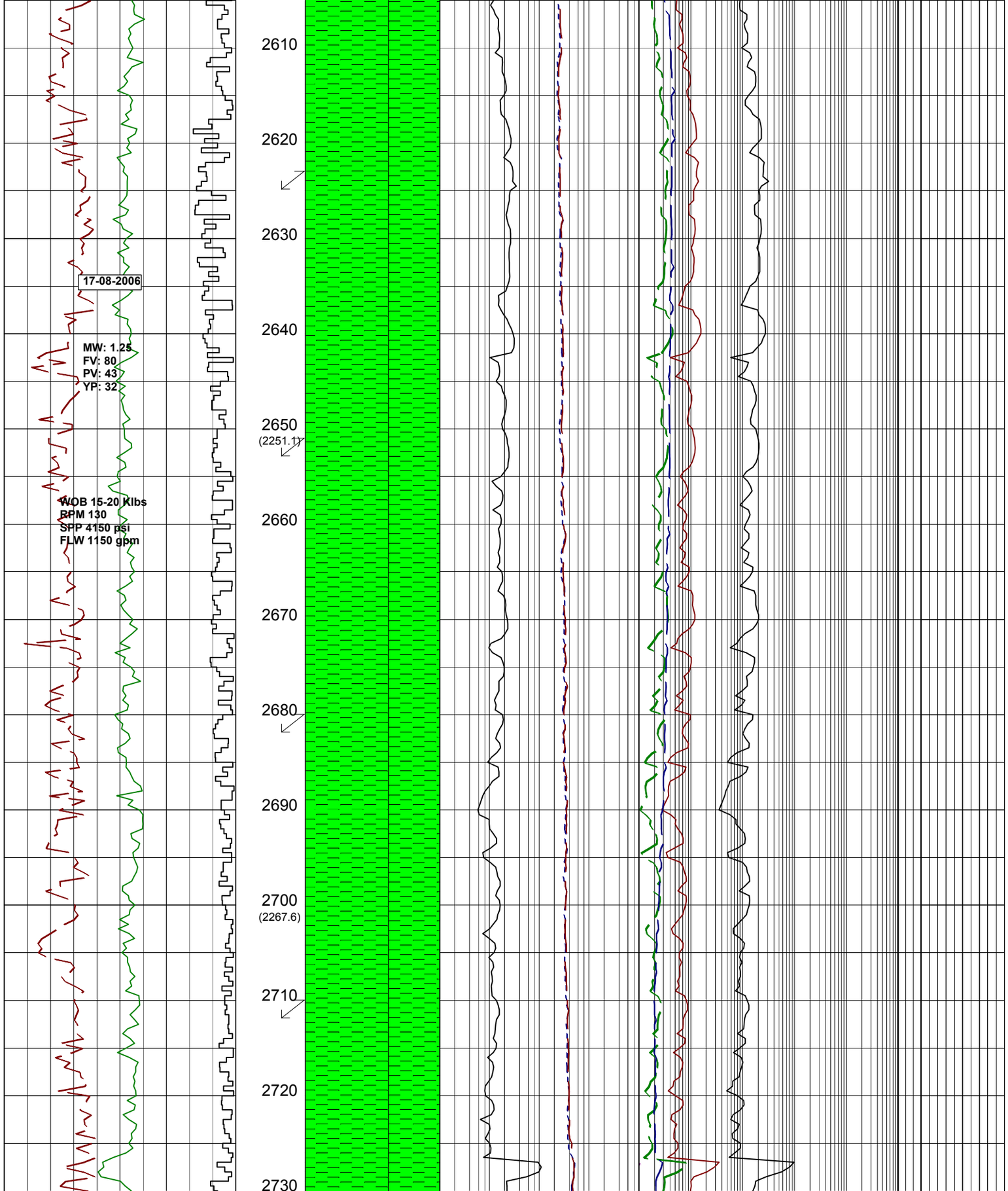

1990
2000
(1813.1)
2010
2020
2030
2040
2050
(1855.3)
2060
2070
2080
2090
2100
(1897.1)
MW: 1.25
FV: 76
PV: 43
YP: 29
WOB: 15-20 klbs
RPM: 118-120
SPP: 3324-3328 psi
FLW: 1026-1030 gpm
15-08-2006
MW: 1.25
FV: 75
PV: 46
YP: 28
WOB: 15-20 klbs
RPM: 118-120
CHANGED DELASCO.
RUBBER @ 2080m.
Survey: 1989.91mMD(1804.54mTVD)
32.22°Inc 189.82°Az.
SILTY CLAYSTONE:dk gry,grysh blk,
abdt qtz slt,com carb spks,tr liths,sft-
frm,sbblky-blky.
Survey: 2018.81mMD(1829.01mTVD)
32.07°Inc 182.90°Az.
SILTY CLAYSTONE:dk gry,olv gry,olv
blk,abdt qtz qtz slt,com carb spks,tr
liths,tr glauc,sft-frm,sbblky-blky.
Survey: 2047.73mMD(1853.45mTVD)
32.63°Inc 178.55°Az.
SILTY CLAYSTONE:dk gry,grysh blk,
abdt qtz slt,com carb spks,tr liths,sft-
frm,sbblky-blky.
SILTY CLAYSTONE:dk gry,grysh blk,
abdt qtz slt,tr carb spks,tr liths,tr glauc,
sft-frm,sbblky-blky.
Survey:2076.66mMD(1877.70mTVD)
33.52°Inc 174.02°Az
SILTY CLAYSTONE:dk gry,grysh blk,
abdt qtz slt,tr carb spks,tr liths,tr pyr
sft-frm,sbblky-blky.
Survey:2105.61mMD(1901.73mTVD)
34.25°Inc 170.36°Az

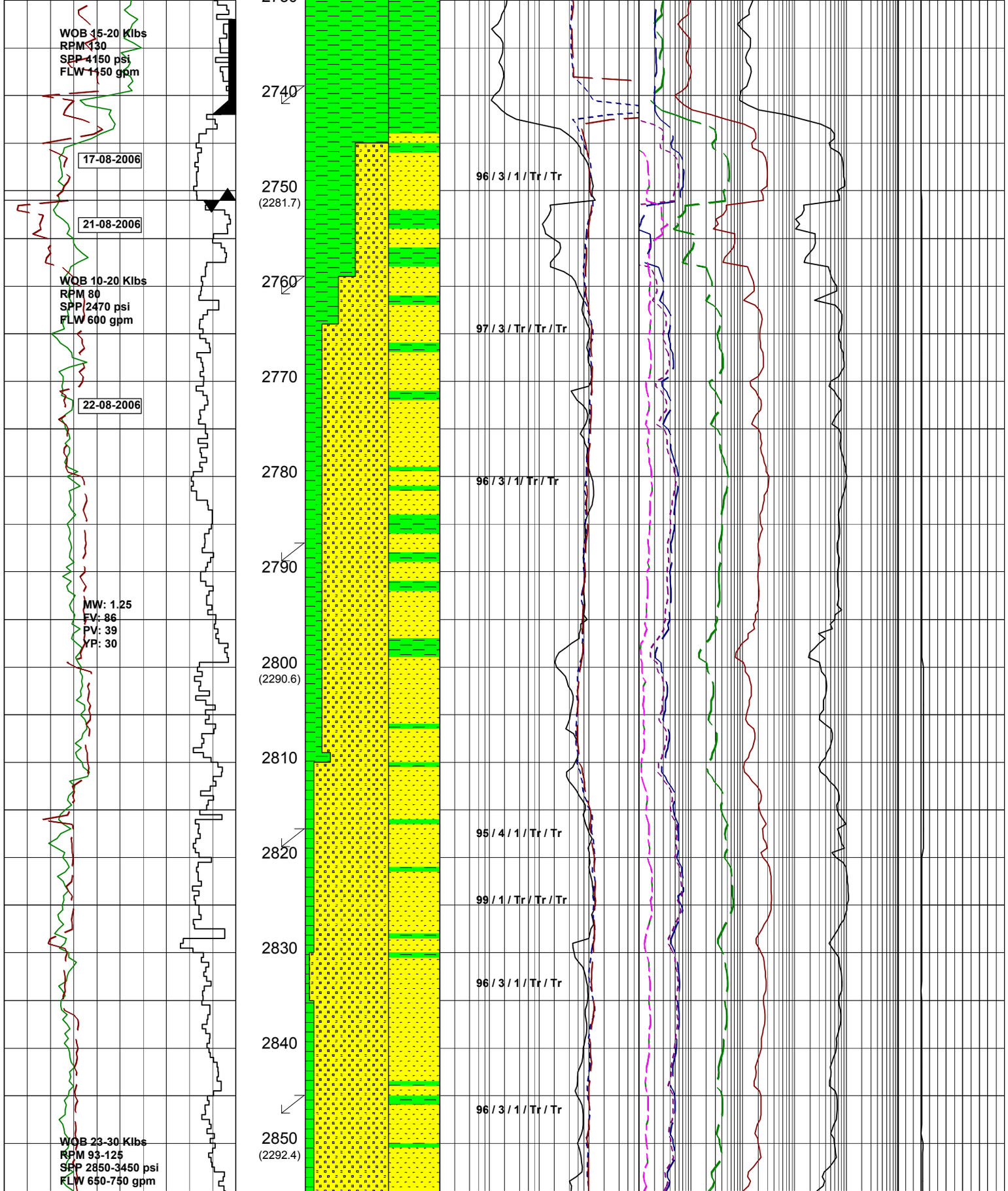

SPP: 3324-3328 psi
FLW: 1026-1030 gpm
2110
2120
2130
2140
WOB: 16-20 klbs
RPM: 120-168
SPP: 3350-4045 psi
FLW: 1050-1150 gpm
2150
(1938)
2160
2170
2180
2190
2200
(1978.1)
2210
2220
2230
SILTY CLAYSTONE:dk gry,grysh blk, abdt slt,tr carb spks,tr liths,tr glauc, sft-frm,blky-occ sbfiss.
Survey:2134.58mMD(1925.52mTVD) 35.30°Inc 163.82°Az
SILTY CLAYSTONE:dk gry,grysh blk, abdt slt,tr carb spks,tr liths,tr glauc, sft-frm,blky-occ sbfiss.
Survey:2163.44mMD(1948.99mTVD) 36.78°Inc 153.99°Az
SILTY CLAYSTONE:dk gry,grysh blk, abdt slt,tr carb spks,tr liths,tr pyr, sft-frm,blky-occ sbfiss.
Survey:2192.41mMD(1972.06mTVD) 37.04°Inc 147.72°Az
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,tr pyr sft-frm,blky-sbfiss.
Survey:2221.34mMD(1995.12mTVD) 37.25°Inc 147.33°Az


WOB: 16-25 klbs
RPM: 120-168
SPP: 3350-4100 psi
FLW: 1050-1167 gpm
2240
2250
(2017.5)
2260
2270
2280
2290
2300
(2054.8)
2310
2320
2330
2340
2350
(2089.9)
WOB: 16-25 klbs
RPM: 135
SPP: 4125 psi
FLW: 1160 gpm
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,tr pyr sft-frm,blky-sbfiss.
Survey:2250.24mMD(2017.72mTVD) 39.85°Inc 148.53°Az
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,tr pyr sft-frm,blky-sbfiss.
Survey:2279.24mMD(2039.62mTVD) 42.08°Inc 144.94°Az.
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,tr pyr sft-frm,blky-sbfiss.
Survey:2308.15mMD(2060.75mTVD) 43.98°Inc 140.53°Az.
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,tr pyr sft-frm,blky-sbfiss.
Survey:2337.08mMD(2081.16mTVD) 46.34°Inc 136.35°Az.
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,tr pyr sft-frm,blky-sbfiss.


2360
2370
2380
2390
2400
(2122.6)
2410
2420
2430
2440
2450
(2152.4)
2460
2470
2480
MW: 1.25
FV: 75
PV: 46
YP: 28
16-08-2006
MW: 1.25
FV: 77
PV: 46
YP: 30
WOB: 14-25 klbs
RPM: 135
SPP: 3200 psi
FLW: 1160 gpm
Survey:2366.05mMD(2100.73mTVD)
48.66°Inc 134.83°Az.
SILTY CLAYSTONE:dk gry,grysh blk,
abdt qtz slt,tr carb spks,tr liths,tr pyr
sft-frm,blky-sbfiss.
Survey:2395.16mMD(2119.61mTVD)
50.48°Inc 132.94°Az.
SILTY CLAYSTONE:dk gry,grysh blk,
abdt qtz slt,tr carb spks,tr liths,tr pyr
sft-frm,blky-sbfiss.
Survey:2424.05mMD(2137.37mTVD)
50.50°Inc 129.08°Az.
FLUSH DEGASSER WITH
BASE OIL.
SILTY CLAYSTONE:dk gry,grysh blk,
abdt qtz slt,tr carb spks,tr liths,tr pyr
sft-frm,blky-sbfiss.
CHANGE DECANTING TUBE.
Survey:2452.99mMD(2154.20mTVD)
55.25°Inc 123.38°Az.
SILTY CLAYSTONE:dk gry,grysh blk,
abdt qtz slt,tr carb spks,tr liths,tr pyr
sft-frm,blky-sbfiss.
FLUSH DEGASSER WITH
BASE OIL.
Survey:2481.90mMD(2170.69mTVD)


55.17°Inc 121.40°Az.
2490
2500
(2180.9)
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,sft-frm, blky-sbfiss.
CLEAN DECANTING TUBE.
FLUSH DEGASSER WITH BASE OIL
FLUSH & CHANGE SAMPLE LINES.
2510
Survey:2509.33mMD(2186.14mTVD)
56.34°Inc 122.19°Az.
2520
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,sft-frm, blky-sbfiss.
2530
2540
Survey:2538.24mMD(2201.86mTVD)
57.74°Inc 122.37°Az.
WOB: 13-36 klbs
RPM: 112-130
SPP: 3558-4200 psi
PLW: 1050-1143 gpm
2550
(2207.8)
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,sft-frm, blky-sbfiss.
2560
2570
Survey:2567.19mMD(2216.40mTVD)
61.95°Inc 120.21°Az.
MW: 1.25
FV: 77
PV: 46
YP: 30
2580
2590
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,sft-frm, blky-sbfiss.
Survey:2596.08mMD(2229.29mTVD)
65.06°Inc 117.03°Az.
2600
(2230.9)


2610
2620
2630
2640
2650
(2251.1)
2660
2670
2680
2690
2700
(2267.6)
2710
2720
2730
17-08-2006
MW: 1.25
FV: 80
PV: 43
YP: 32
WOB 15-20 Klbs
RPM 130
SPP 4150 psi
FLW 1150 gpm
Survey:2625.01mMD(2241.44mTVD)
65.29°Inc 116.41°Az.
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,sft-frm, blky-sbfiss.
Survey:2653.14mMD(2252.62mTVD)
69.24°Inc 116.73°Az.
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,sft-frm, blky-sbfiss.
Survey:2682.84mMD(2262.31mTVD)
71.58°Inc 113.35°Az.
DRILL WITH ONLY 2 PUMPS FROM 2694m-2713m.
SILTY CLAYSTONE:dk gry,grysh blk, abdt qtz slt,tr carb spks,tr liths,sft-frm, blky-sbfiss.
SILTY CLAYSTONE:dk gry,abdt qtz slt,tr nod pyr,tr carb spks & mat, sft-frm,blky-sbblky.
Survey:2712.93mMD(2271.61mTVD)
72.42°Inc 112.26°Az.
SANDSTONE:wh-off wh,lt gry,clr, trnsl,f-crs grs,dom vf-f,wl srt,sbang-sbrnd,com qtz slt,tr glauc,lse-fri,gd inf por,no fluor.



SILTY CLAYSTONE:dk gry,wh-off wh,lt olv gry,abdt qtz slt,tr liths,tr carb spks, tr glauc,sft-frm,blky-sbfiss.

473mm (9.625")
CASING SET @ 2142.8m

Survey:2740.73mMD(2279.44mTVD)
74.87°Inc 112.04°Az.

SANDSTONE:wh-off wh,lt gry,clr, trnsl,f-crs grs,dom med,wl srt,sbang-sbrnd,mnr qtz slt,tr glauc,tr pyr nod, tr carb spks,fr inf por,no fluor.

BIT# 4: 8½" (216mm)
SECURITY DBS FMF3653Z
JETS: 3x16, 3x15
IN: 2751m OUT: 3194m
RUN: 443m HRS: 19.4
COND:1-1-NO-A-X-IN-NO-BHA

Survey:2760.53mMD(2284.27mTVD)
76.93°Inc 111.89°Az.

SILTY CLAYSTONE:dk gry,wh-off wh,lt olv gry,abdt qtz slt,tr liths,tr carb spks, tr glauc,sft-frm,blky-sbfiss.

DRILL FROM 638m TO 2751m WITH A SYN-TEC SBM SYSTEM

Survey:2789.54mMD(2289.60mTVD)
81.86°Inc 112.24°Az.

SANDSTONE:clr,trnsl,lt gry,off wh,lse, f-crs grs,med aggs,mod-wl srt,sbang-sbrnd,tr arg mtx,tr glauc,tr carb spks, tr liths,pr vis por,pr-fr inf por,no fluor.

DRILL FROM 638m TO 2751m WITH A ROTARY STEERABLE BHA

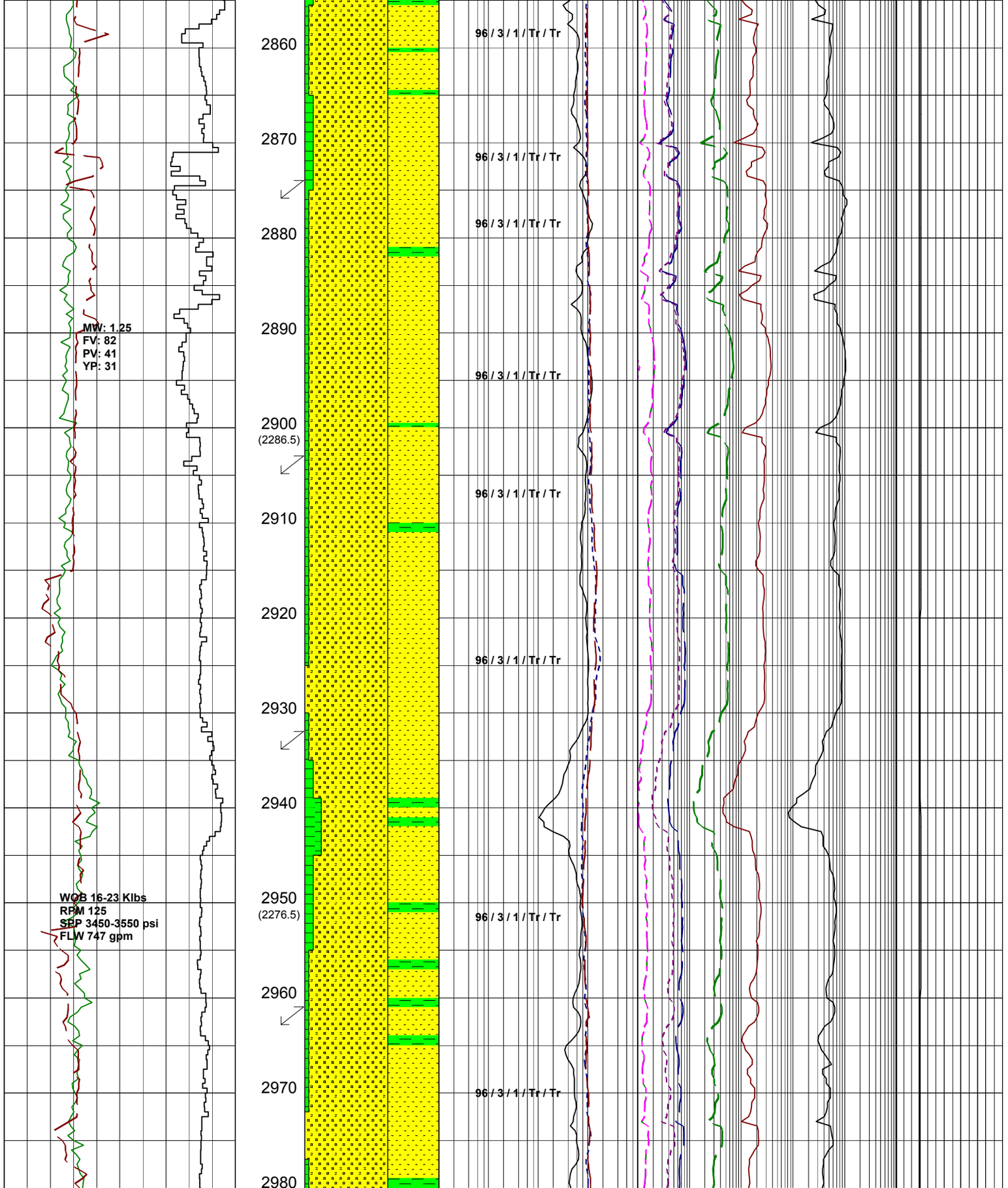
SILTY CLAYSTONE:dk gry,wh-off wh,lt olv gry,abdt qtz slt,tr liths,tr carb spks, tr glauc,sft-frm,blky-sbfiss.

Survey:2818.50mMD(2292.34mTVD)
87.26°Inc 113.06°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,off wh,lse,f-crs grs,dom med aggs, mod-wl srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr carb spks,tr liths,pr vis por, pr-fr inf por,no fluor.

Survey:2847.45mMD(2292.60mTVD)
91.70°Inc 113.17°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl,



lt gry,off wh,lse,f-crs grs,dom med aggs, mod-wl srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr carb spks,tr liths,pr vis por, pr-fr inf por,no fluor.

Survey:2876.38mMD(2290.31mTVD) 97.39°Inc 113.51°Az.

SILTY CLAYSTONE:dk gry,wh-off wh,lt olv gry,abdt qtz slt,tr liths,tr carb spks, tr glauc,sft-frm,blky-sbfiss.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,off wh,lse,f-crs grs,dom med aggs, mod-wl srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr carb spks,tr liths,pr vis por, pr-fr inf por,no fluor.

Survey:2905.33mMD(2285.67mTVD) 101.06°Inc 113.86°Az.

SILTY CLAYSTONE:dk gry,wh-off wh,lt olv gry,abdt qtz slt,tr liths,tr carb spks, tr glauc,sft-frm,blky-sbfiss.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,off wh,lse,f-crs grs,dom med aggs, mod-wl srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr carb spks,tr liths,pr vis por, pr-fr inf por,no fluor.

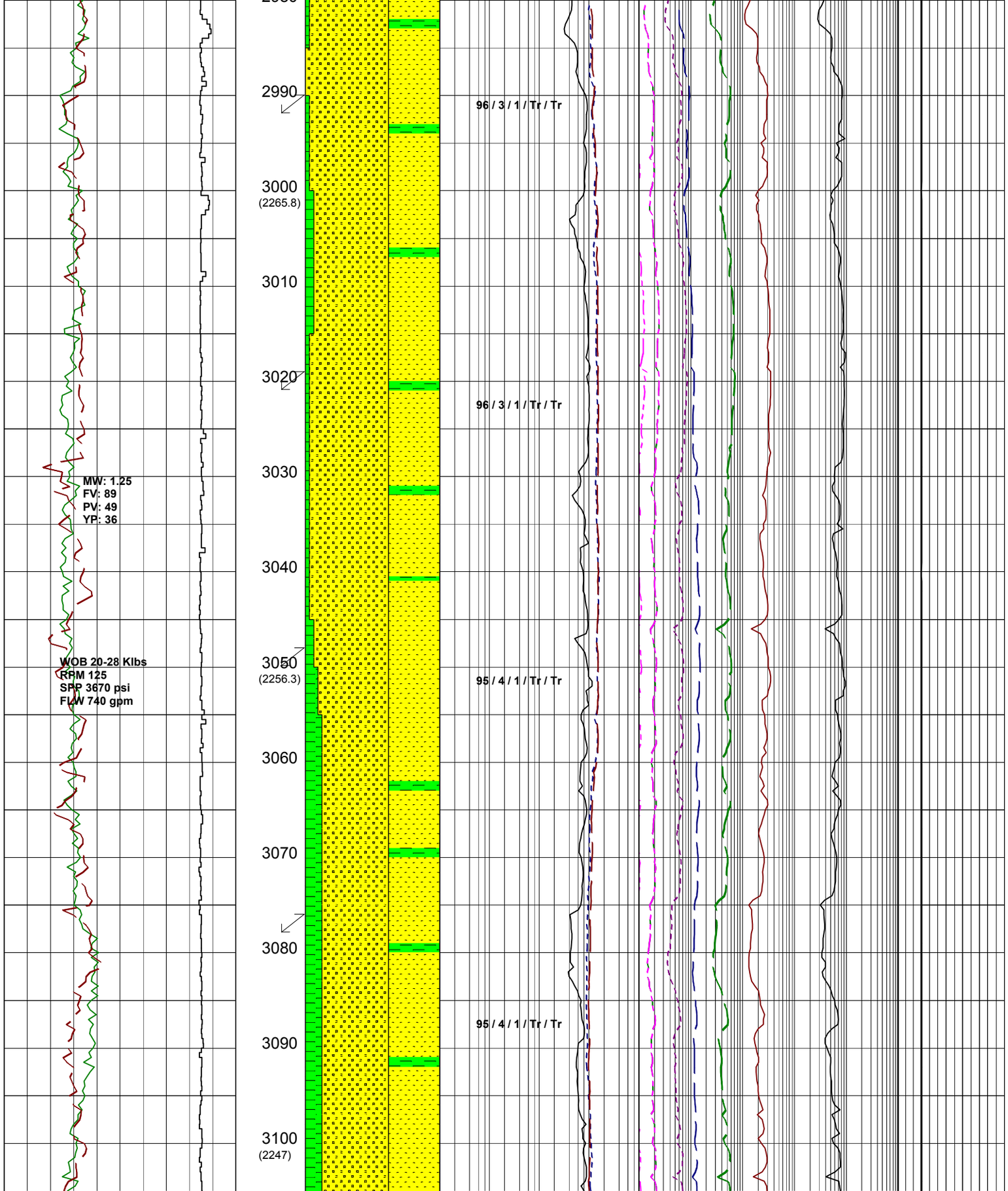
Survey:2934.26mMD(2279.87mTVD) 102.06°Inc 114.41°Az.

SILTY CLAYSTONE:dk gry,wh-off wh,lt olv gry,abdt slt,tr liths,tr carb spks, tr glauc,sft-frm,blky-sbfiss.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,off wh,lse,f-crs grs,dom med aggs, mod-wl srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr carb spks,tr liths,pr vis por, pr-fr inf por,no fluor.

Survey:2963.19mMD(2273.69mTVD) 102.63°Inc 114.71°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl lt gry,off wh,lse f-crs,dom med grs,pred wl srt,sbang-sbrnd,abdt arg mtx,tr glauc, tr liths,pr vis por,pr-fr inf por,no fluor.



Survey:2992.13mMD(2267.41mTVD)
102.45°Inc 112.78°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl lt gry,off wh,lse f-crs,dom med grs,pred wl srt,sbang-sbrnd,abdt arg mtx,tr glauc, tr liths,pr vis por,pr-fr inf por,no fluor.

Survey:3021.10mMD(2261.56mTVD)
100.84°Inc 108.83°Az.

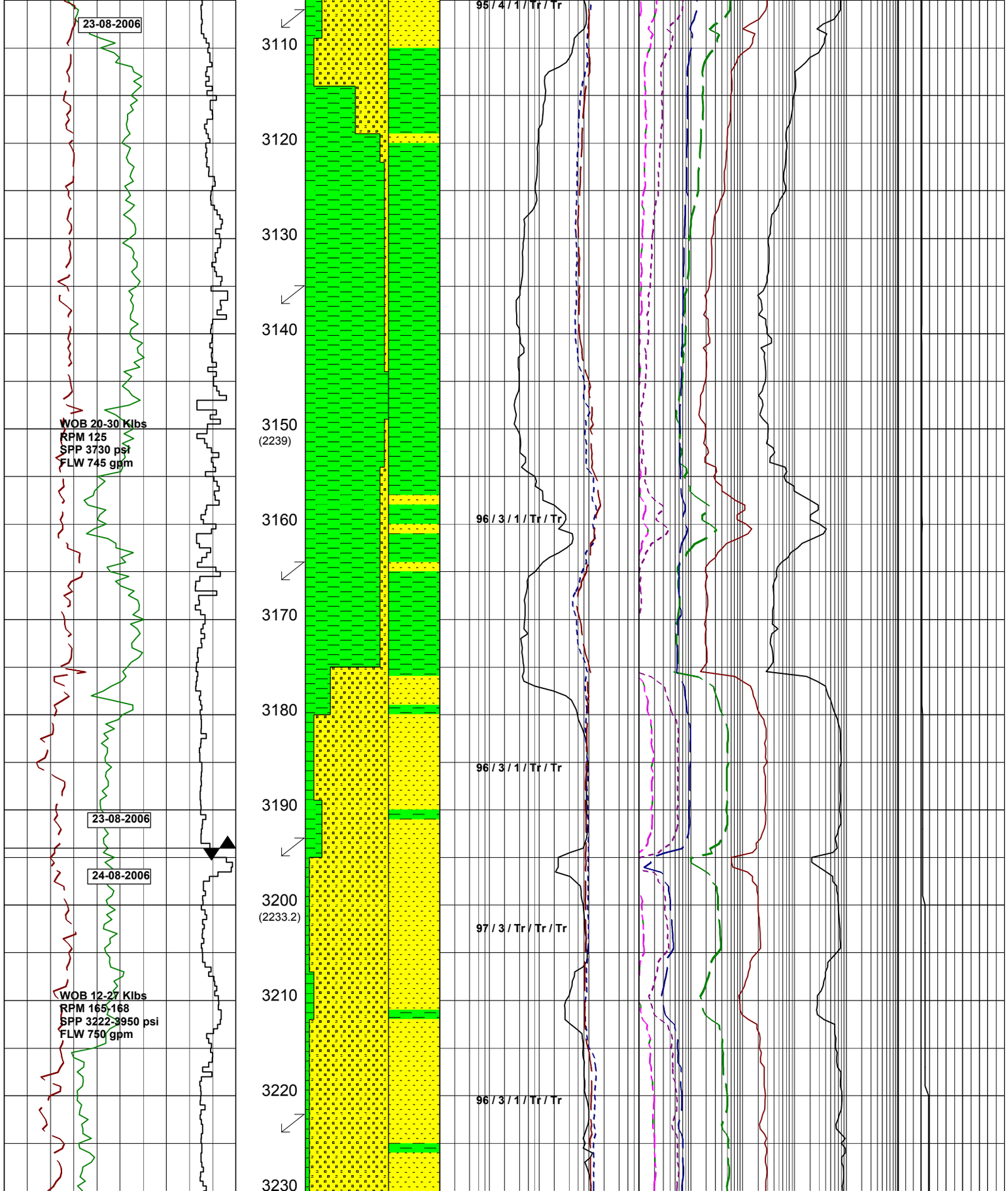
SILTY CLAYSTONE:dk gry,wh-off wh,lt olv gry,abdt qtz slt,tr liths,tr carb spks, tr glauc,sft-frm,blky-sbfiss.

Survey:3050.04mMD(2256.26mTVD)
100.25°Inc 110.72°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl lt gry,off wh,lse f-crs,dom med grs,pred wl srt,sbang-sbrnd,abdt arg mtx,tr glauc, tr liths,pr vis por,pr-fr inf por,no fluor.

Survey:3078.94mMD(2250.98mTVD)
100.82°Inc 109.65°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl lt gry,off wh,lse f-crs,dom med grs,pred wl srt,sbang-sbrnd,abdt arg mtx,tr glauc, tr liths,pr vis por,pr-fr inf por,no fluor.



Survey:3107.89mMD(2245.58mTVD)
100.67°Inc 108.87°Az.

SILTY CLAYSTONE:dk gry,grysh blk,lt olv gry,abdt qtz slt,tr liths,tr carb spks, sft-frm,blky-sbfiss.

Survey:3136.86mMD(2240.79mTVD)
98.37°Inc 105.95°Az.

SILTY CLAYSTONE:dk gry,grysh blk,lt yelsh brn,abdt qtz slt,tr liths,tr carb spks, tr glauc,sft-frm,blky.

ARGILLACEOUS SANDSTONE:clr,trnsl lt gry,off wh,lse f-crs,dom med grs,pred wl srt,sbang-sbrnd,abdt arg mtx,tr glauc, tr liths,pr vis por,pr-fr inf por,no fluor.

Survey:3165.84mMD(2236.96mTVD)
96.93°Inc 104.34°Az.

SILTY CLAYSTONE:dk gry,grysh blk,lt yelsh brn,abdt slt,tr liths,tr carb spks, tr glauc,sft-frm,blky.

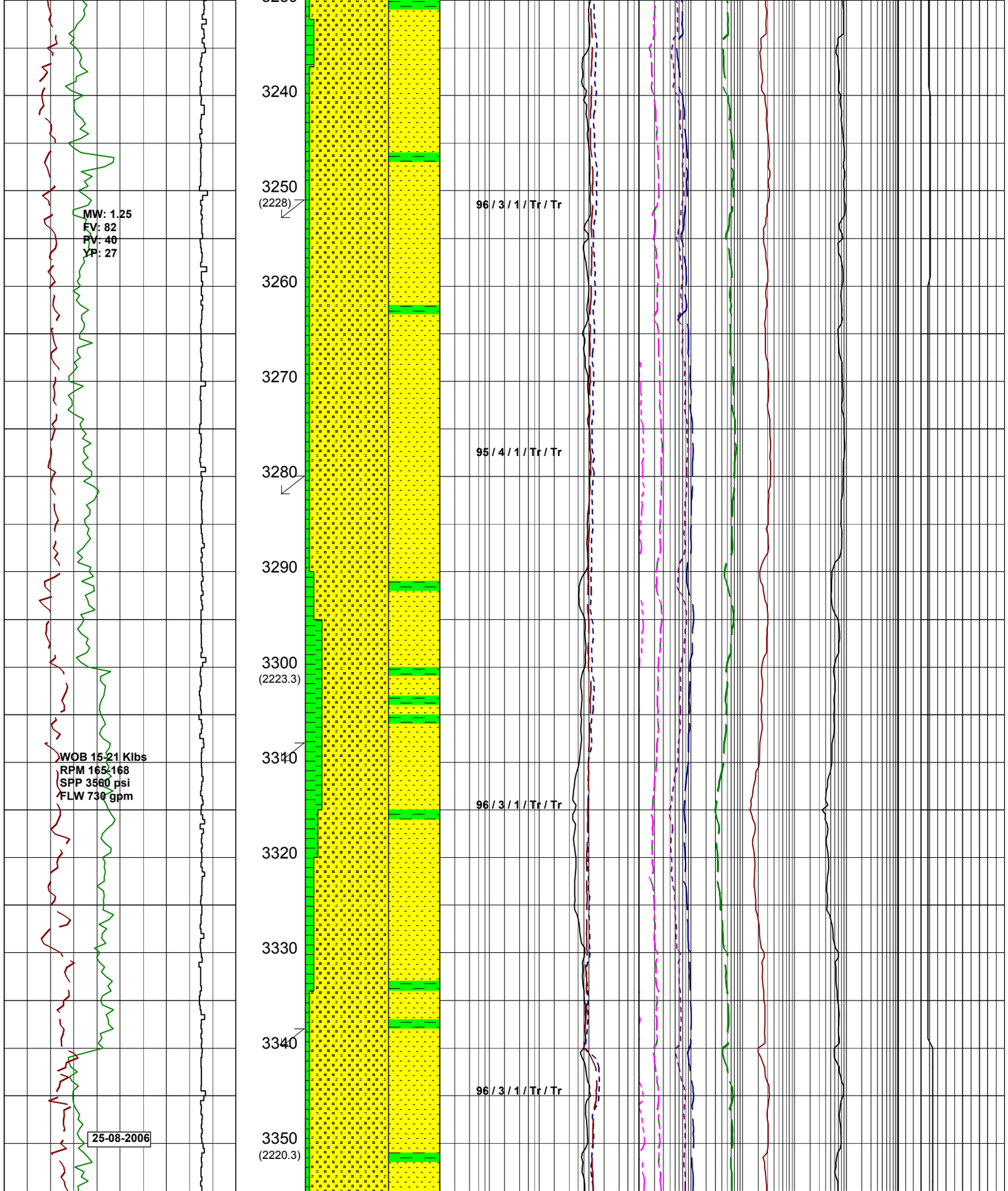
ARGILLACEOUS SANDSTONE:clr,trnsl lt gry,off wh,lse f-crs,dom med grs,pred wl srt,sbang-sbrnd,abdt arg mtx,tr glauc, tr liths,pr vis por,pr-fr inf por,no fluor.

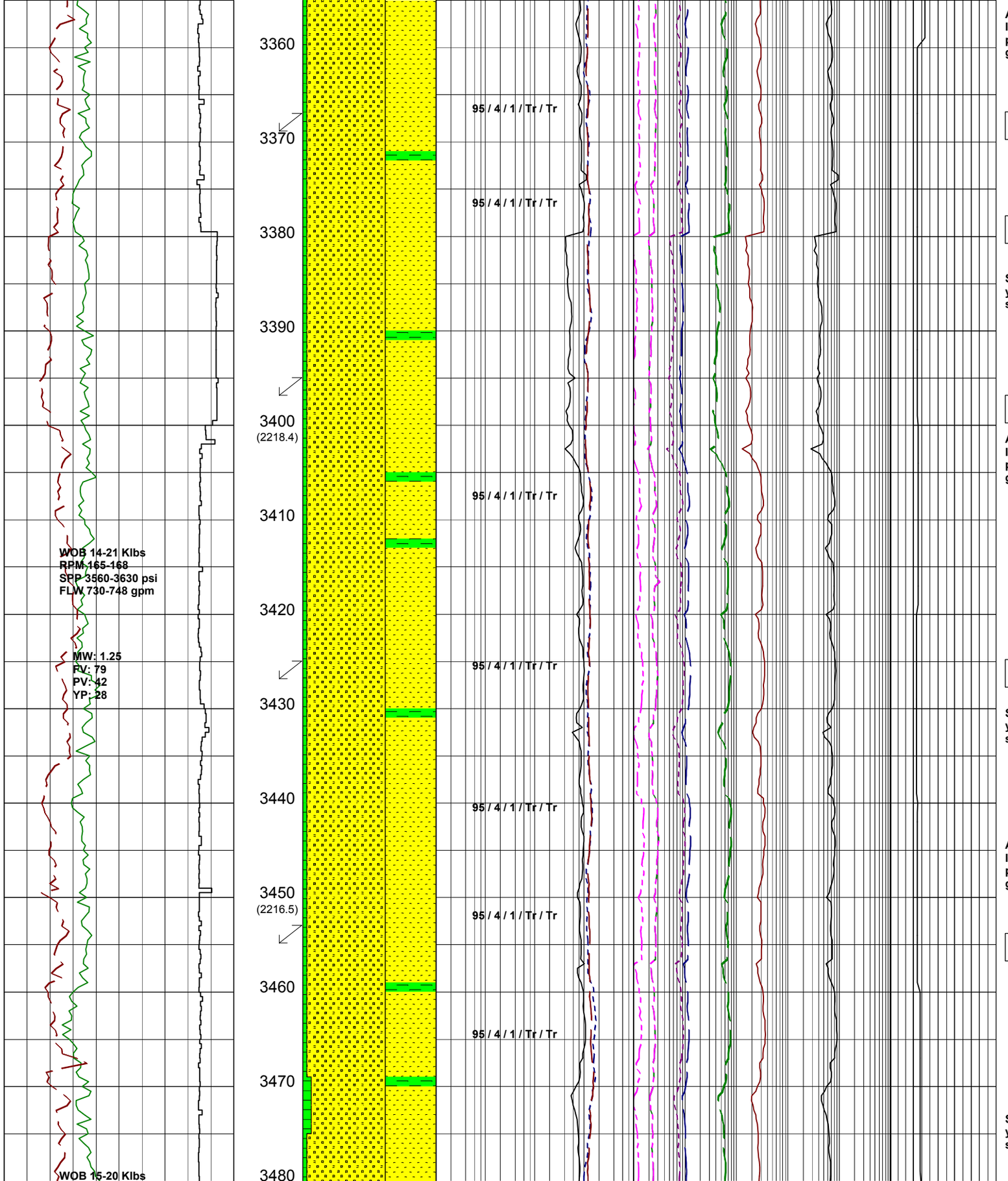
Survey:3195.21mMD(2233.73mTVD)
95.81°Inc 101.40°Az.

POOH FOR MWD SIGNAL FAILURE.

BIT# 4RR: 8½" (216mm)
SECURITY DBS FMF3653Z
JETS: 3x16, 3x15
IN: 3194m OUT: 3987m
RUN: 793m HRS: 33.5
COND:0-0-NO-A-X-IN-ER-TD

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med grs, pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,pr-fr inf por,no fluor.


3240
3250
(2228)
3260
3270
3280
3290
3300
(2223.3)
3310
3320
3330
3340
3350
(2220.3)
MW: 1.25
FV: 82
PV: 40
YP: 27
WOB 15-21 Klbs
RPM 165-168
SPP 3560 psi
FLW 730 gpm
25-08-2006
96 / 3 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
96 / 3 / 1 / Tr / Tr
96 / 3 / 1 / Tr / Tr
ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med grs, pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,pr-fr inf por,no fluor.
Survey:3253.07mMD(2227.72mTVD) 96.12°Inc 101.34°Az.
SILTY CLAYSTONE:dk gry,grysh blk,lt yelsh brn,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.
Survey:3282.02mMD(2224.82mTVD) 95.38°Inc 101.48°Az.
ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med grs, pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,pr-fr inf por,no fluor.
SILTY CLAYSTONE:dk gry,grysh blk,lt yelsh brn,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.
Survey:3310.99mMD(2222.44mTVD) 94.02°Inc 101.74°Az.
ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med grs, pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,pr-fr inf por,no fluor.
Survey:3339.94mMD(2220.76mTVD) 92.66°Inc 101.22°Az.
SILTY CLAYSTONE:dk gry,grysh blk,lt yelsh brn,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.



ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med grs, pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,pr-fr inf por,no fluor.

Survey:3368.84mMD(2219.48mTVD) 92.41°Inc 99.37°Az.

REDUCE ROP DUE TO BHA PROXIMITY TO THYLACINE SOUTH-1

SILTY CLAYSTONE:dk gry,grysh blk,lt yelsh brn,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.

Survey:3397.77mMD(2218.51mTVD) 91.42°Inc 97.62°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med grs, pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,pr-fr inf por,no fluor.

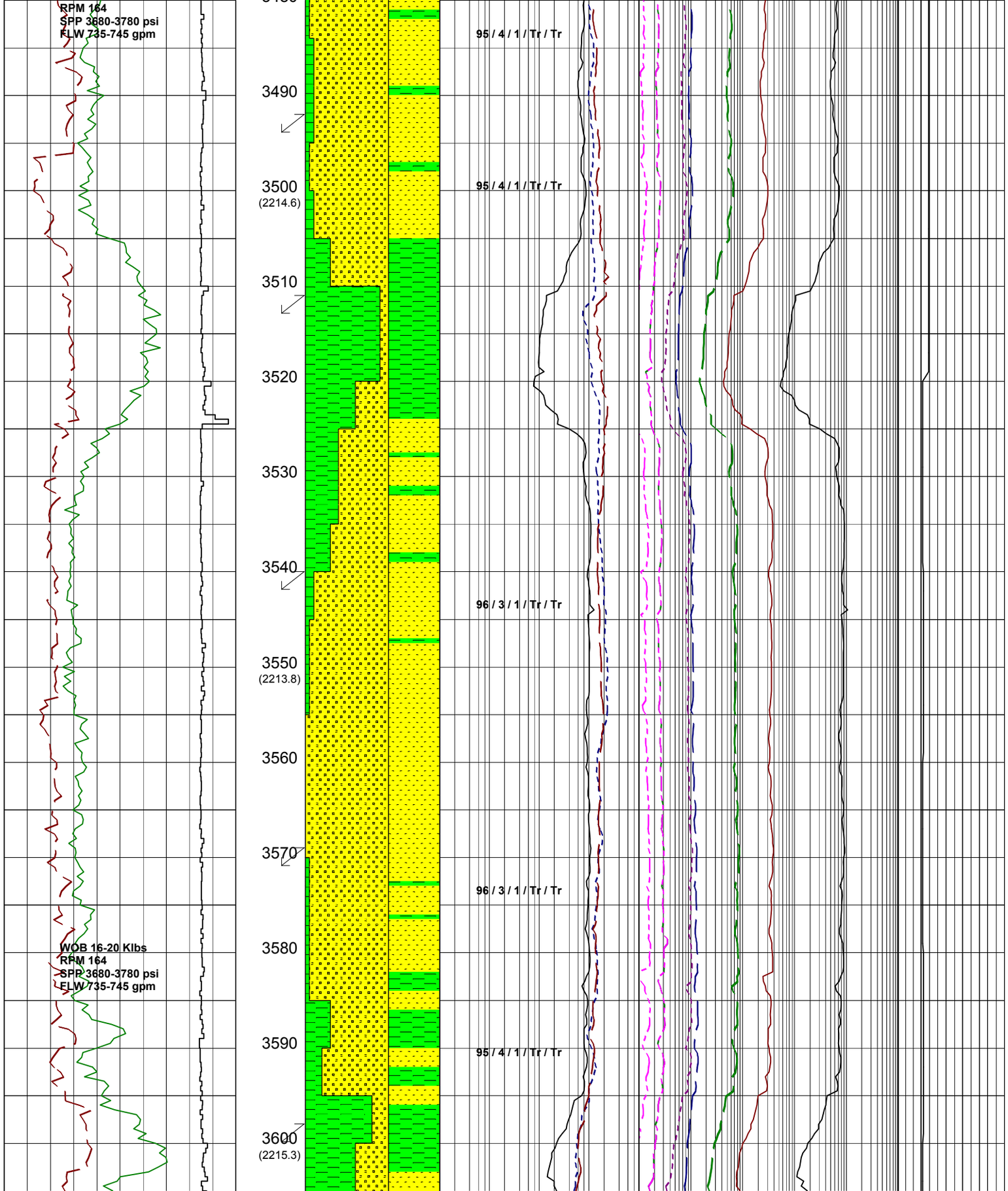
Survey:3426.72mMD(2217.50mTVD) 92.72°Inc 99.37°Az.

SILTY CLAYSTONE:dk gry,grysh blk,lt yelsh brn,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med grs, pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,pr-fr inf por,no fluor.

Survey:3455.57mMD(2216.27mTVD) 92.29°Inc 98.64°Az.

SILTY CLAYSTONE:dk gry,grysh blk,lt yelsh brn,abdt qtz slt,tr liths,tr carb spks,sft-frm,blky.



Survey:3484.49mMD(2215.11mTVD)
92.29°Inc 97.77°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med aggs,pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,tr carb spks,pr vis por,pr-fr inf por,no fluor.

SILTY CLAYSTONE:dk gry,grysh blk,olv gry-olv blk,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.

Survey:3513.42mMD(2214.13mTVD)
91.61°Inc 97.05°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med aggs,pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,tr carb spks,pr vis por,pr-fr inf por,no fluor.

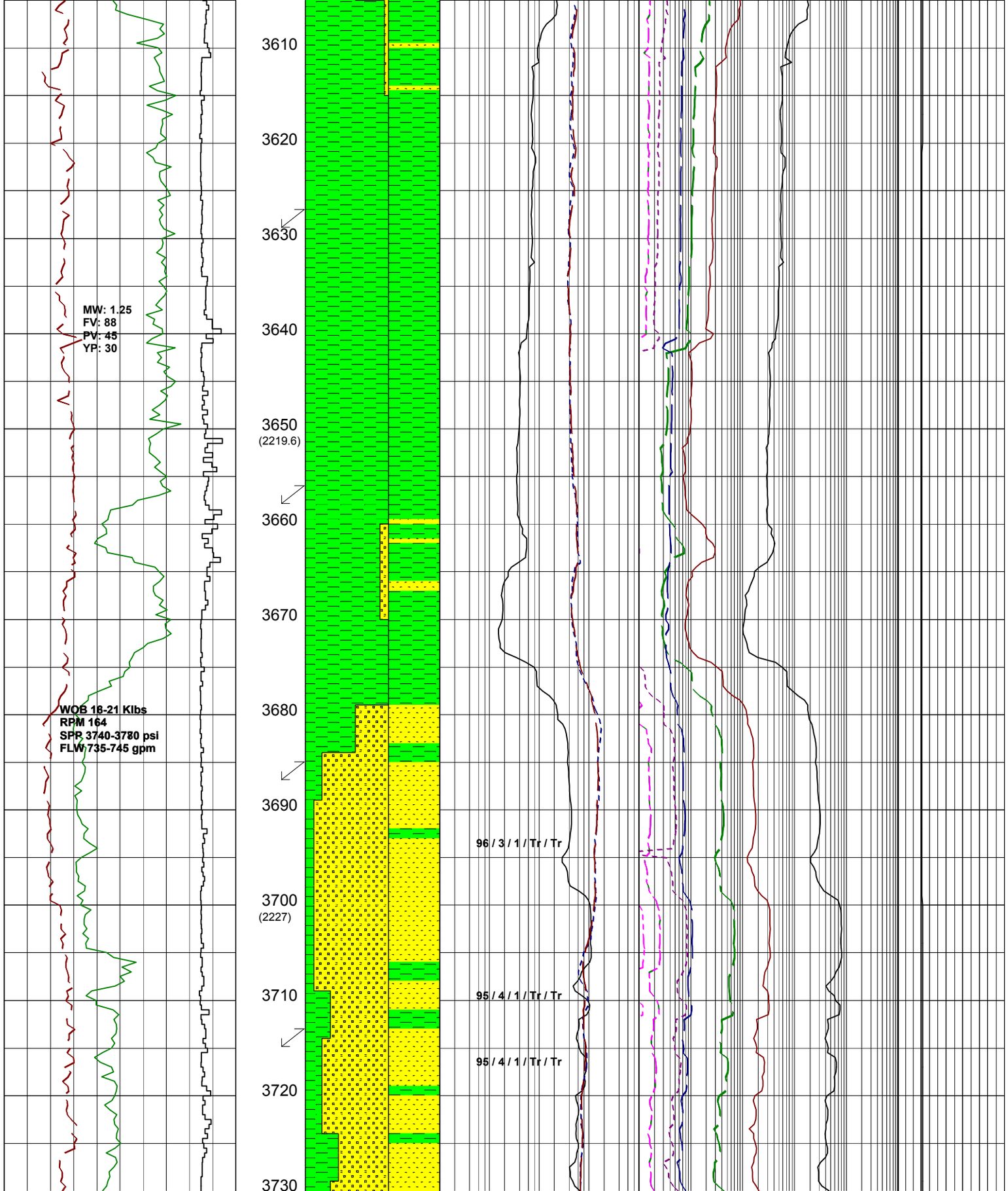
Survey:3542.38mMD(2214.00mTVD)
90.19°Inc 96.08°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med aggs,pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,tr carb spks,pr vis por,pr-fr inf por,no fluor.

Survey:3571.30mMD(2213.99mTVD)
88.52°Inc 94.45°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med aggs,pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,tr carb spks,pr vis por,pr-fr inf por,no fluor.

Survey:3600.24mMD(2215.33mTVD)
86.18°Inc 94.28°Az.



SILTY CLAYSTONE:dk gry,grysh blk,olv gry-olv blk,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.

Survey:3629.18mMD(2217.45mTVD) 85.43°Inc 94.07°Az.

SILTY CLAYSTONE:dk gry,grysh blk,olv gry-olv blk,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.

REPLACE GZG DELASCO RUBBER @ 3650m

Survey:3658.15mMD(2220.41mTVD) 82.83°Inc 94.52°Az.

SILTY CLAYSTONE:dk gry,grysh blk,olv gry-olv blk,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.

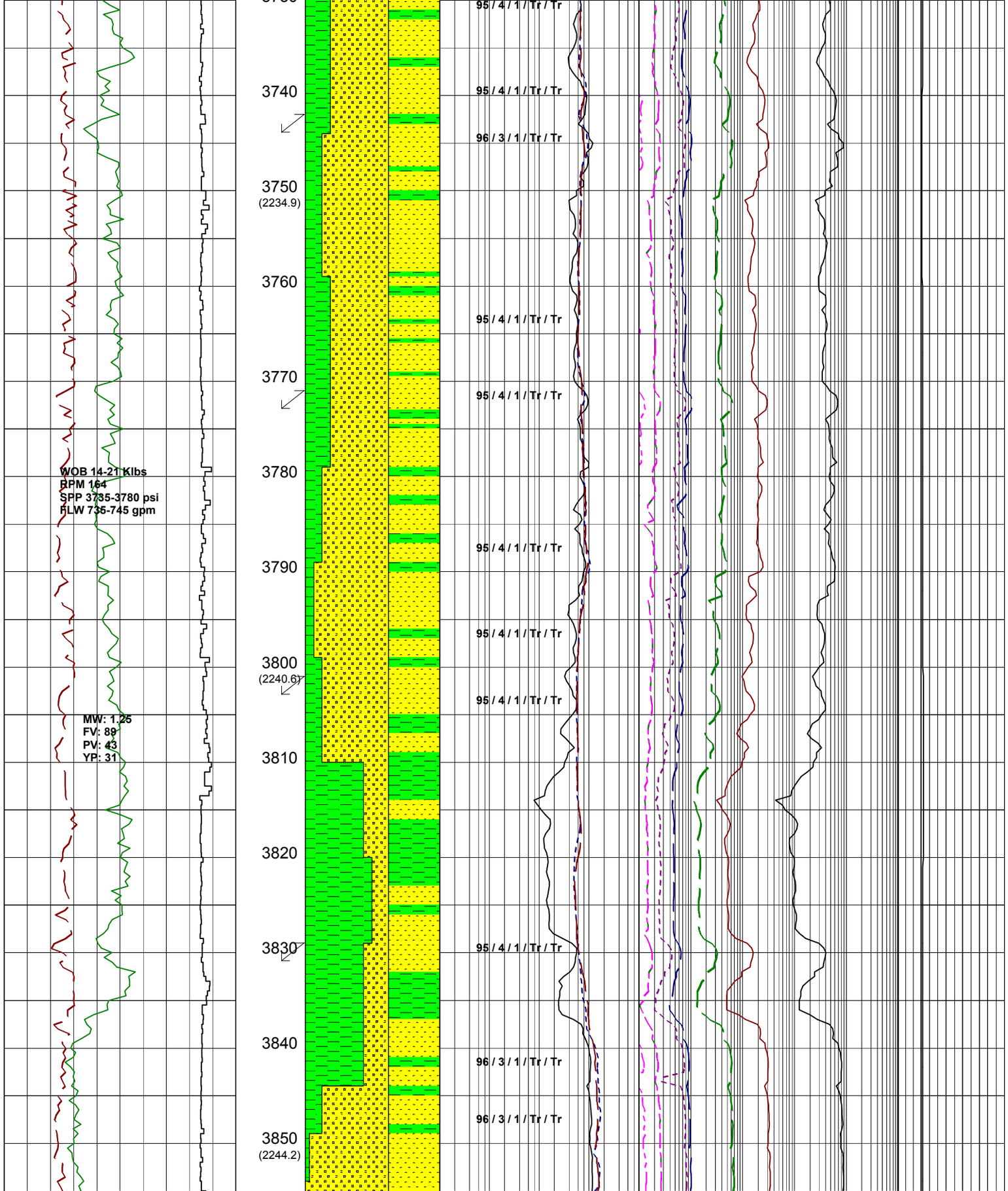
ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med aggs,pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,tr carb spks,pr vis por,pr-fr inf por,no fluor.

Survey:3687.12mMD(2224.80mTVD) 79.76°Inc 93.37°Az.

SILTY CLAYSTONE:dk gry,grysh blk,olv gry-olv blk,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.

Survey:3715.07mMD(2229.58mTVD) 80.65°Inc 95.43°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med aggs,pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,tr carb spks,pr vis por,pr-fr inf por,no fluor.



Survey:3744.95mMD(2234.24mTVD)
81.33°Inc 96.49°Az.

SILTY CLAYSTONE:dk gry,grysh blk,olv gry-olv blk,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med aggs,pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,tr carb spks,pr vis por,pr-fr inf por,no fluor.

Survey:3773.83mMD(2238.09mTVD)
83.32°Inc 95.40°Az.

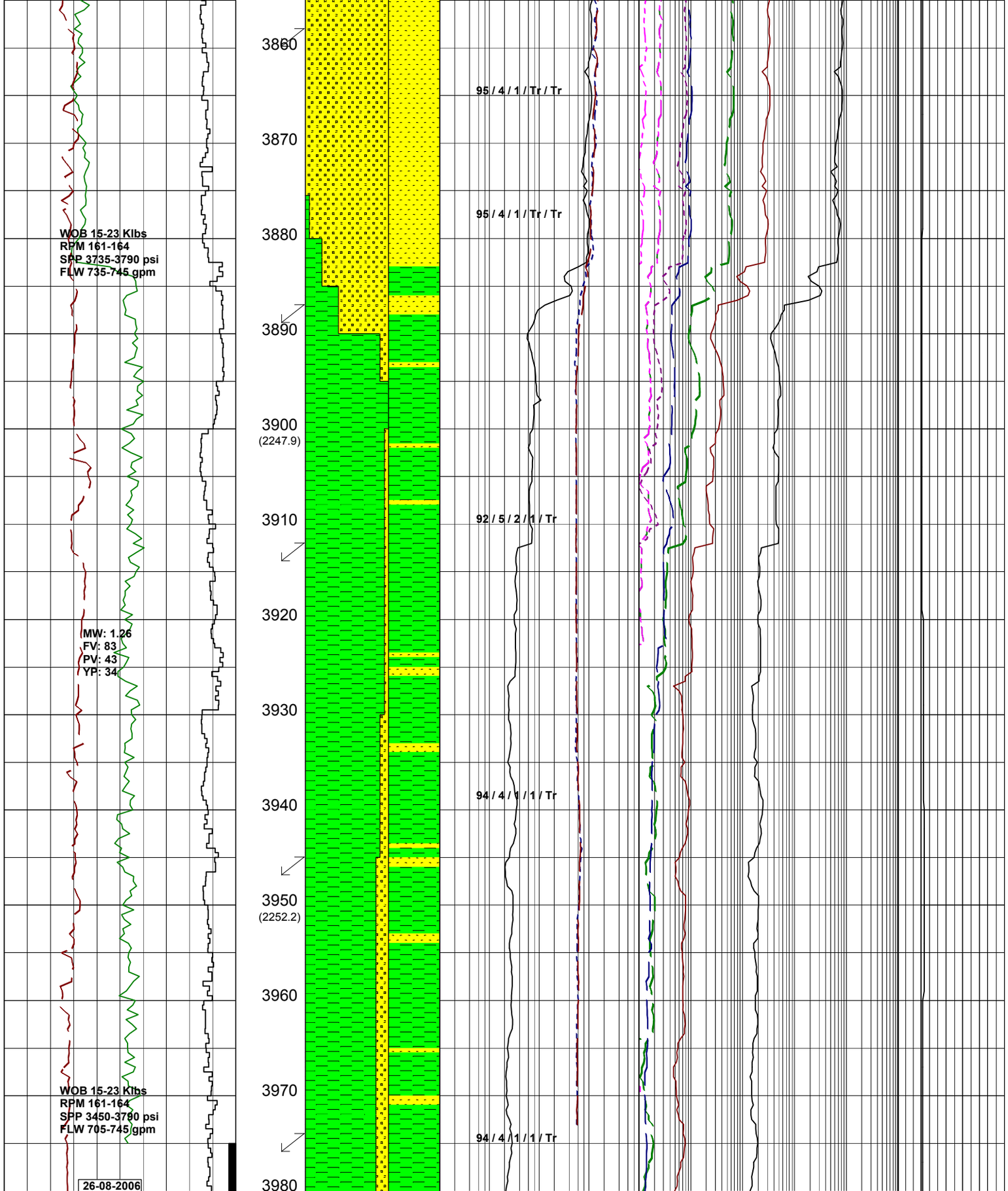
ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med aggs,pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,tr carb spks,pr vis por,pr-fr inf por,no fluor.

Survey:3802.71mMD(2240.83mTVD)
85.81°Inc 97.87°Az.

SILTY CLAYSTONE:dk gry,grysh blk,olv gry-olv blk,abdt qtz slt,tr liths,tr carb spks,tr glauc,sft-frm,blky.

Survey:3831.66mMD(2242.96mTVD)
85.74°Inc 99.00°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med aggs,pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,tr carb spks,pr vis por,pr-fr inf por,no fluor.



Survey:3860.59mMD(2244.86mTVD)
86.73°Inc 99.67°Az.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med aggs,pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,tr carb spks,pr vis por,pr-fr inf por,no fluor.

Survey:3889.57mMD(2246.96mTVD)
84.94°Inc 99.10°Az.

SILTY CLAYSTONE:dk gry,grysh blk,olv gry-olv blk,abdt qtz slt,tr liths,tr carb spks,sft-frm,blky.

Survey:3918.45mMD(2249.90mTVD)
84.50°Inc 98.36°Az.

SILTY CLAYSTONE:dk gry,grysh blk,olv gry-olv blk,abdt qtz slt,tr liths,tr carb spks,sft-frm,blky.

ARGILLACEOUS SANDSTONE:clr,trnsl, lt gry,pl yelsh brn,lse,f-crs,dom med aggs,pr-mod srt,sbang-sbrnd,abdt arg mtx,tr glauc,tr liths,tr carb spks,pr vis por,pr-fr inf por,no fluor.

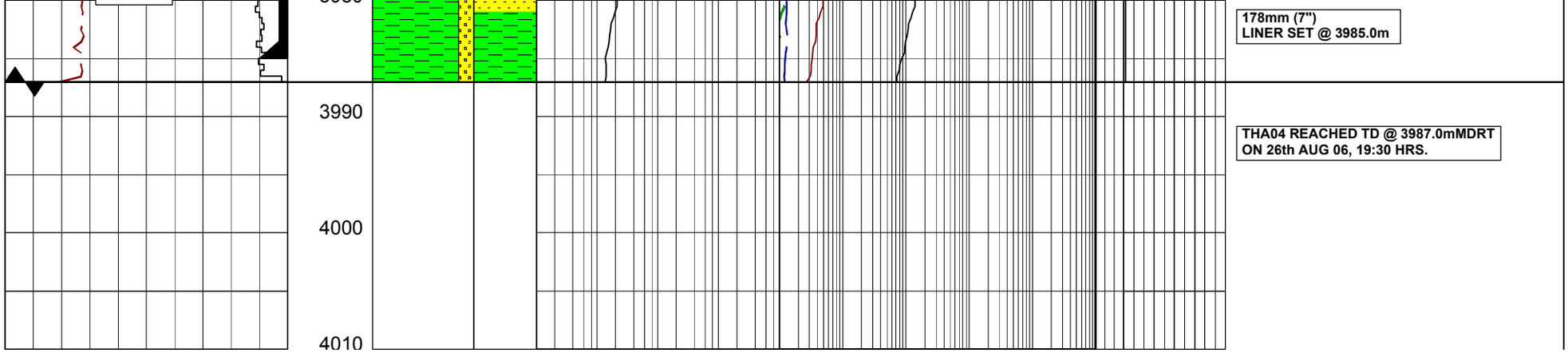
Survey:3947.39mMD(2252.30mTVD)
85.99°Inc 98.56°Az.

SILTY CLAYSTONE:dk gry,grysh blk,olv gry-olv blk,abdt qtz slt,tr liths,tr carb spks,sft-frm,blky.

Survey:3976.36mMD(2253.53mTVD)
88.03°Inc 99.24°Az.

SILTY CLAYSTONE:dk gry,grysh blk,olv gry-olv blk,abdt qtz slt,tr liths,tr carb spks,sft-frm,blky.

Survey:3987.00mMD(2253.82mTVD)
88.80°Inc 99.50°Az.


178mm (7")
LINER SET @ 3985.0m
3990
THA04 REACHED TD @ 3987.0mMDRT
ON 26th AUG 06, 19:30 HRS.
4000
4010

Enclosure C

DRILLING DATA PLOT

1 : 1000

DRILLING DATA PLOT

WELL : THA04

WOODSIDE

Geoservices

FROM (m): 200 TO (m): 4030 SCALE: 1/ 1000

Country	: AUSTRALIA	**POSITION**		**CASING**	
Region	: Otway Basin	Latitude	: 39° 14' 14.56" S	660mm Shoe at (mMDRT)	: 217.0
Field	: Thylacine	Longitude	: 142° 54' 07.58" E	473mm Shoe at (mMDRT)	: 633.0
Permit	: Maersk Guardian	X (m)	: 5655156.8 N	244mm Shoe at (mMDRT)	: 2742.8
Well Type	: Exp/Appraisal	Y (m)	: 664161.0 E	178mm Shoe at (mMDRT)	: 3985.0
Rig Name	: Maersk Guardian	RT-LAT (m)	: 50.5		
		RT-Seabed (m)	: 149.8		

Spud Date	: 12-08-2006
Total Depth Date	: 26-08-2006
Total Depth (mRT)	3987.0
T.V.D. (mSSLAT)	: 2203.3
Status	: Completed

ABBREVIATIONS

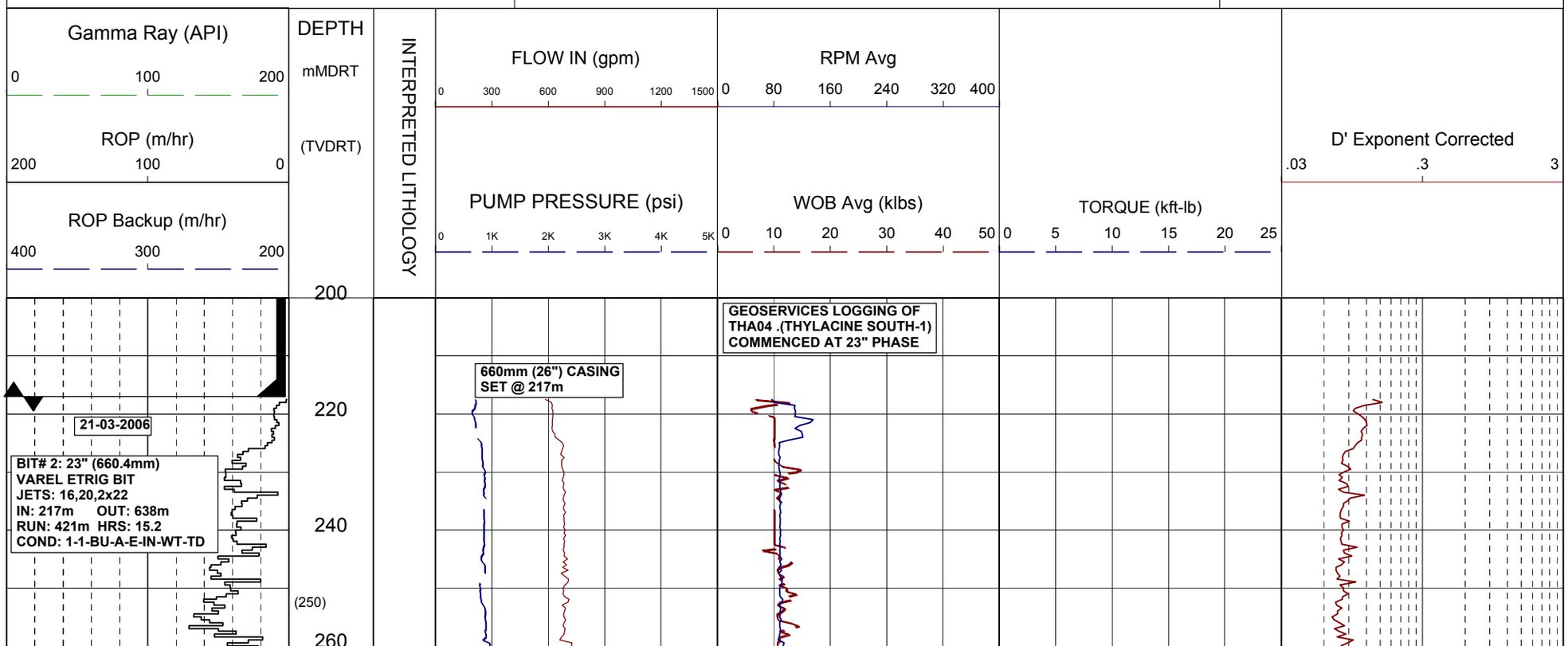
MW MUD WEIGHT	NB NEW BIT
FV FUNNEL VISCOSITY	RR RERUN BIT
PV PLASTIC VISCOSITY	CB CORE BIT
YP YIELD POINT	WOB WEIGHT ON BIT
FC FILTER CAKE	RPM REVS PER MINUTE
SOL SOLIDS	FLC FLOW CHECK
WL FILTRATE	CR CIRCULATE RETURNS
SD SAND - %	PR POOR RETURNS
S SALINITY - PPM	NR NO RETURNS
RM MUD RESISTIVITY	BG BACKGROUND GAS
RMF MUD FILTRATE	TG TRIP GAS
C CARBIDE TEST	STG SHORT TRIP GAS
LAT LOGGED AFTER TRIP	CG CONNECTION GAS
DS DEVIATION SURVEY	SG SWAB GAS
	SVG SURVEY GAS

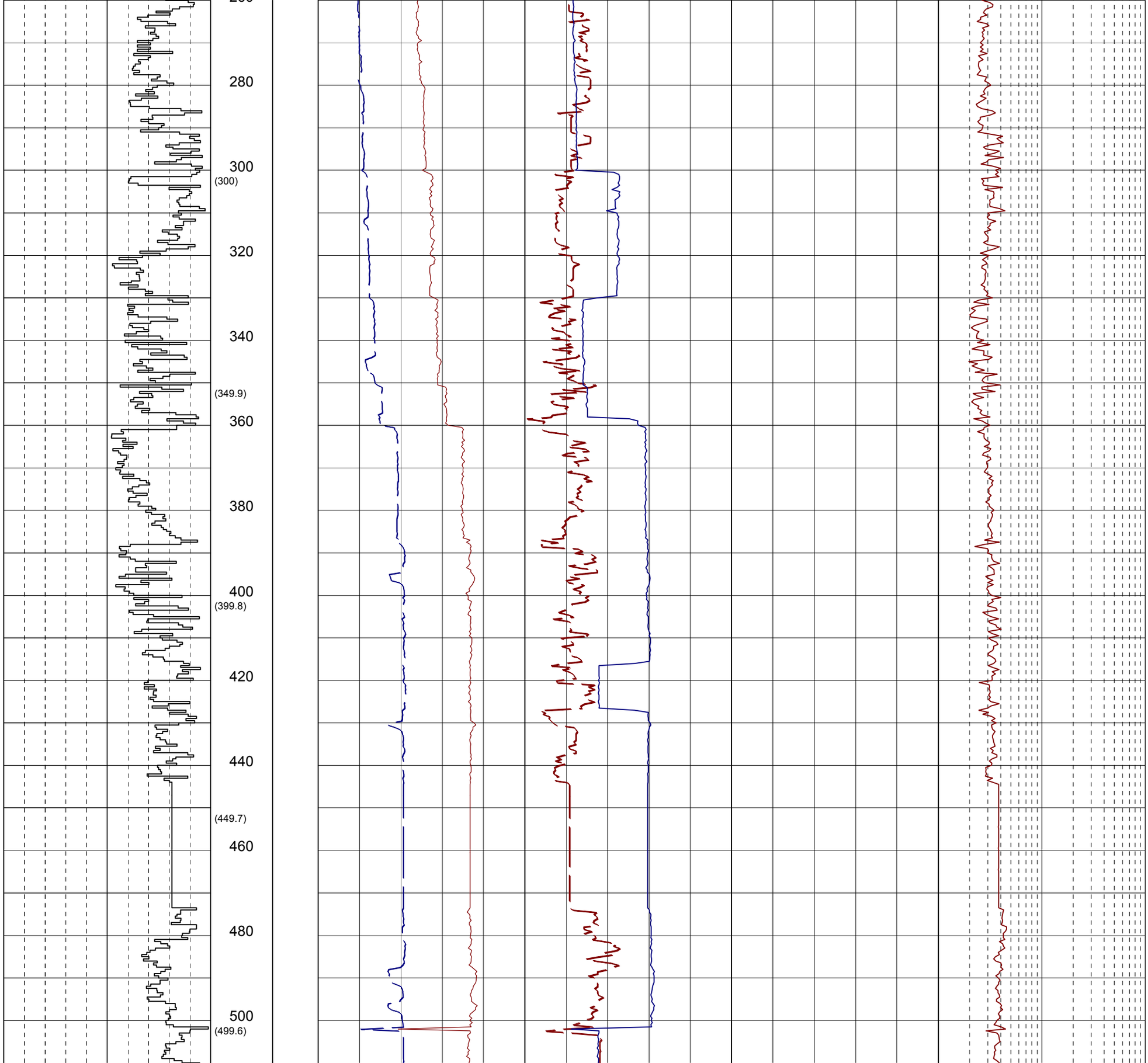
LITHOLOGY LEGEND

Limestone	Calcarenite	Pyrite
Coal	Gypsum	Glauconite
Fine Sandstone	Marl	Mica
Siltstone	Dolomite	Ferrous
Carb. Siltstone	Claystone	Fossils
Calc. Siltstone	Calc Claystone	Calcareous
Calcisiltite	Lithic frag	Dolomitic
Calcilutite	Foraminifera	Chert

ENGINEERING LEGEND

- Deviation Survey
- Casing Shoe
- Wiper Trip
- SWC (rec)
- SWC (unrec)
- Core
- Bit Trip




280
300
(300)
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(399.8)
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440
(449.7)
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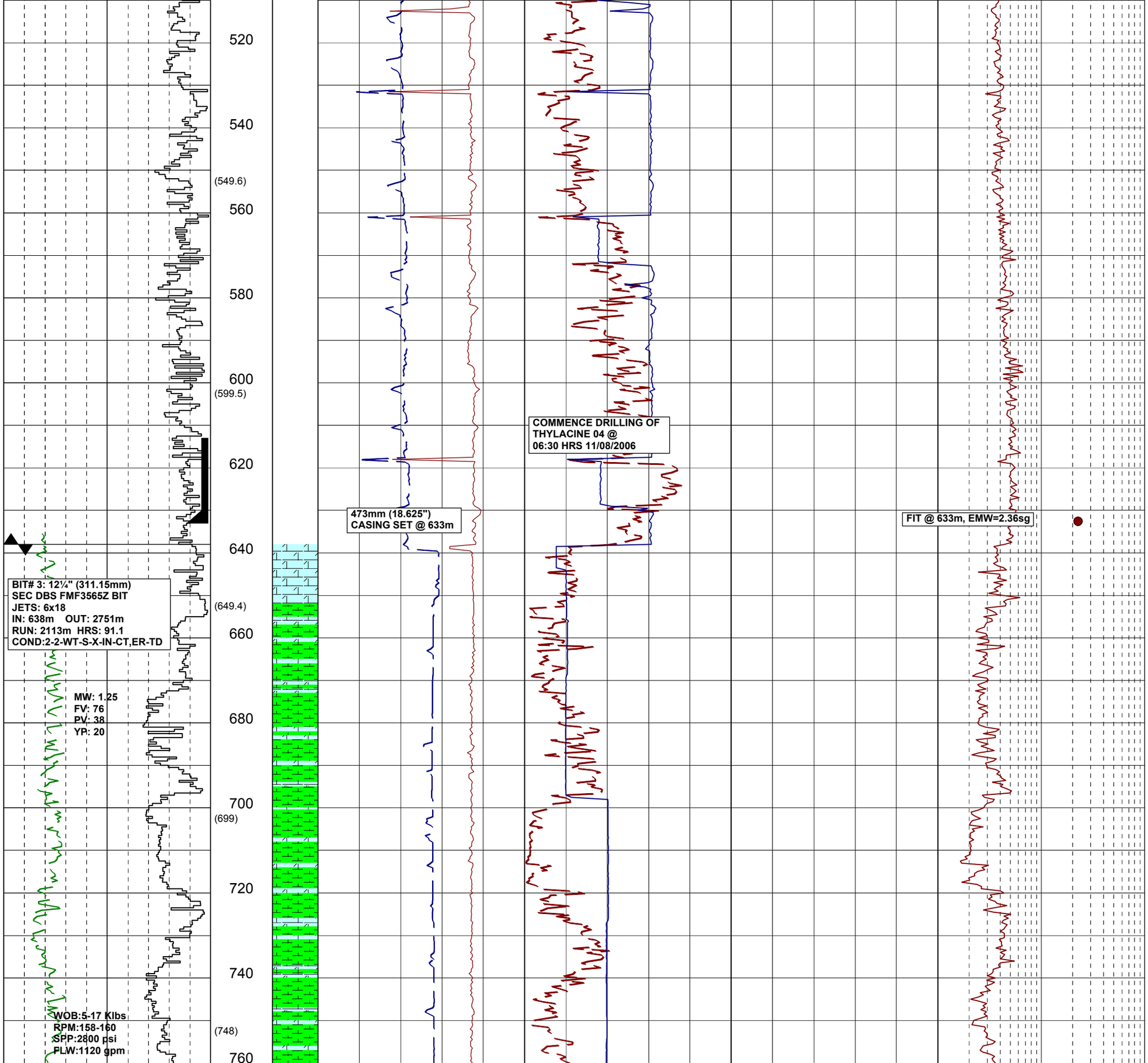
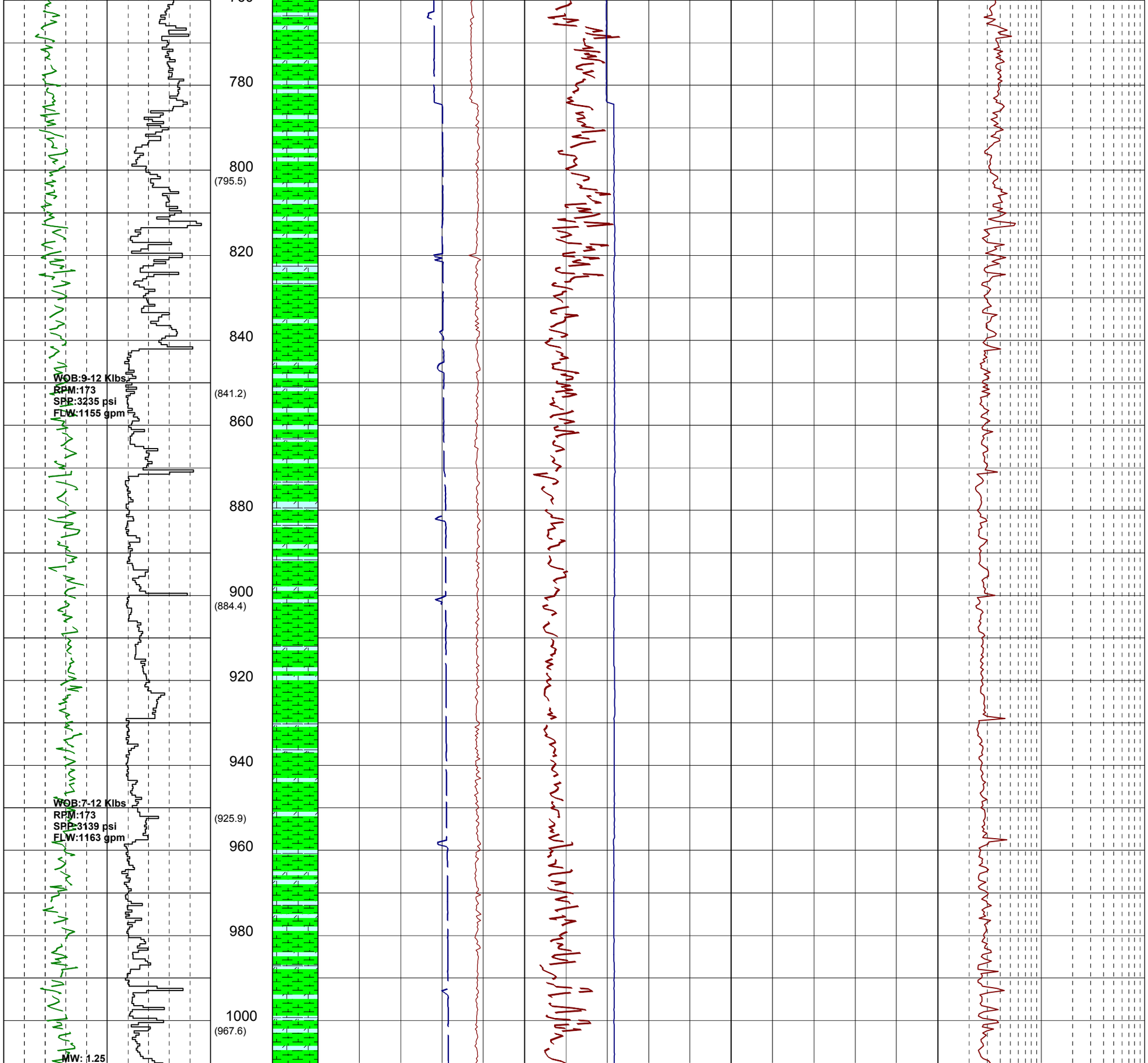
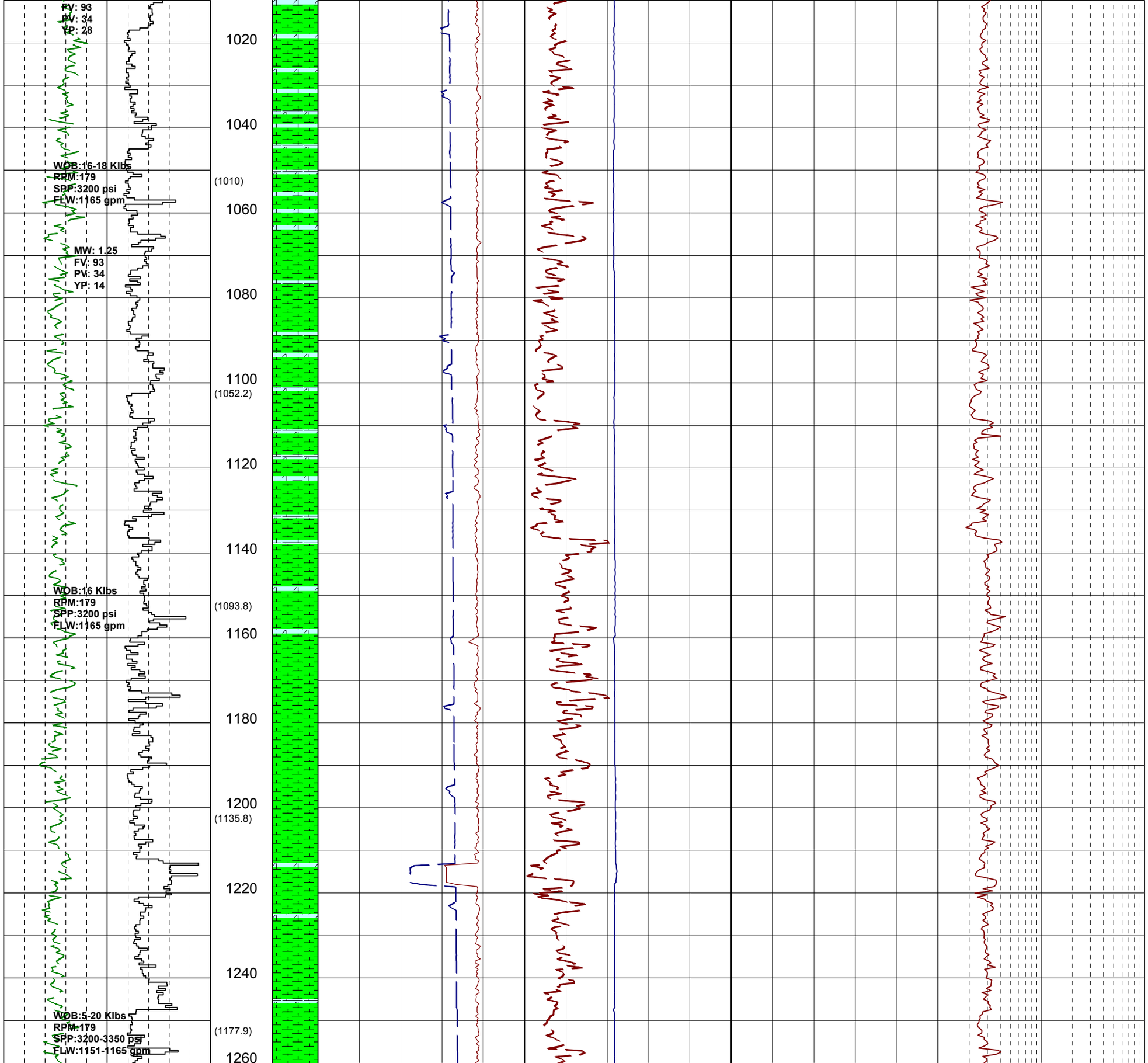
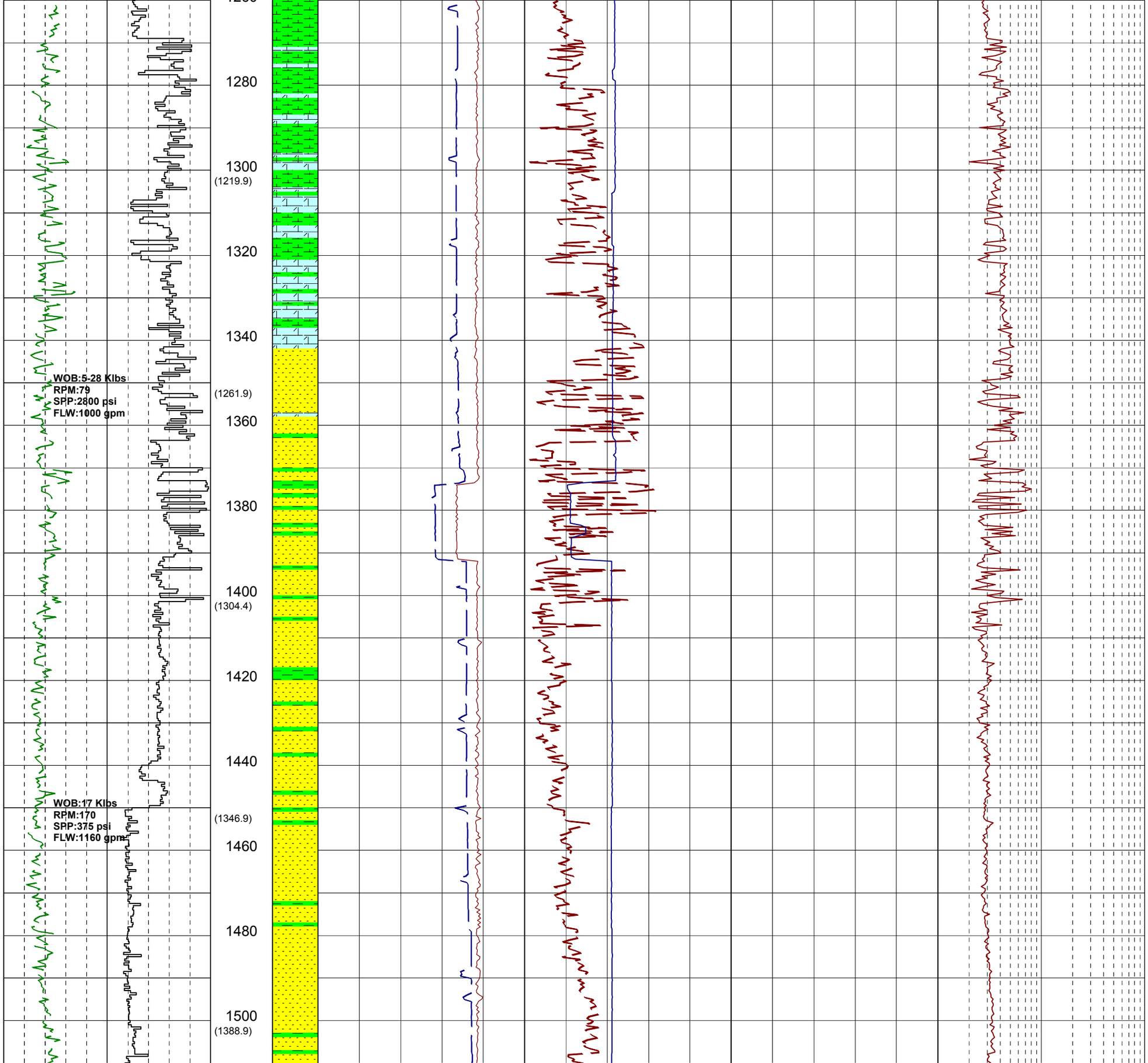
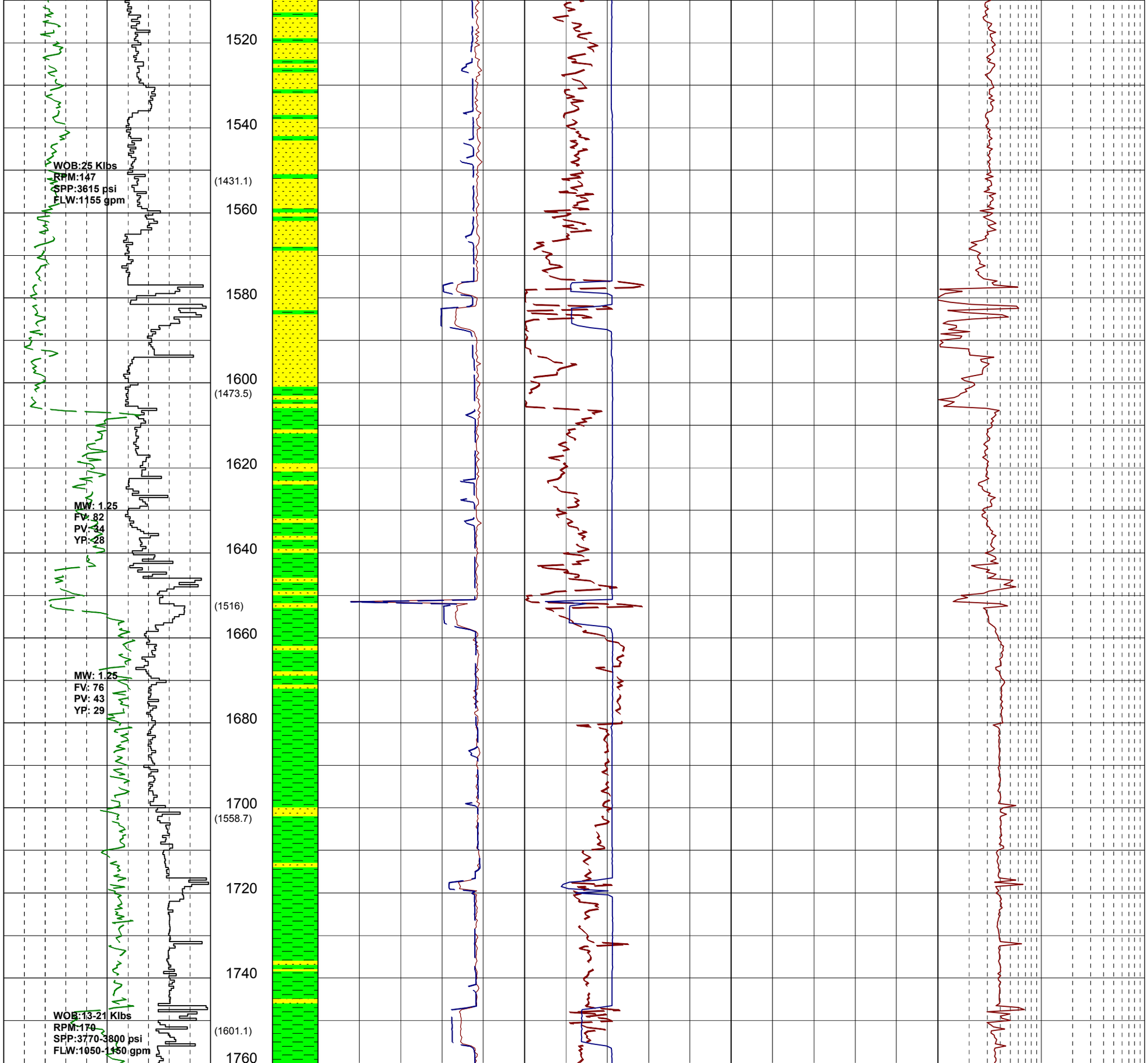
500
(499.6)

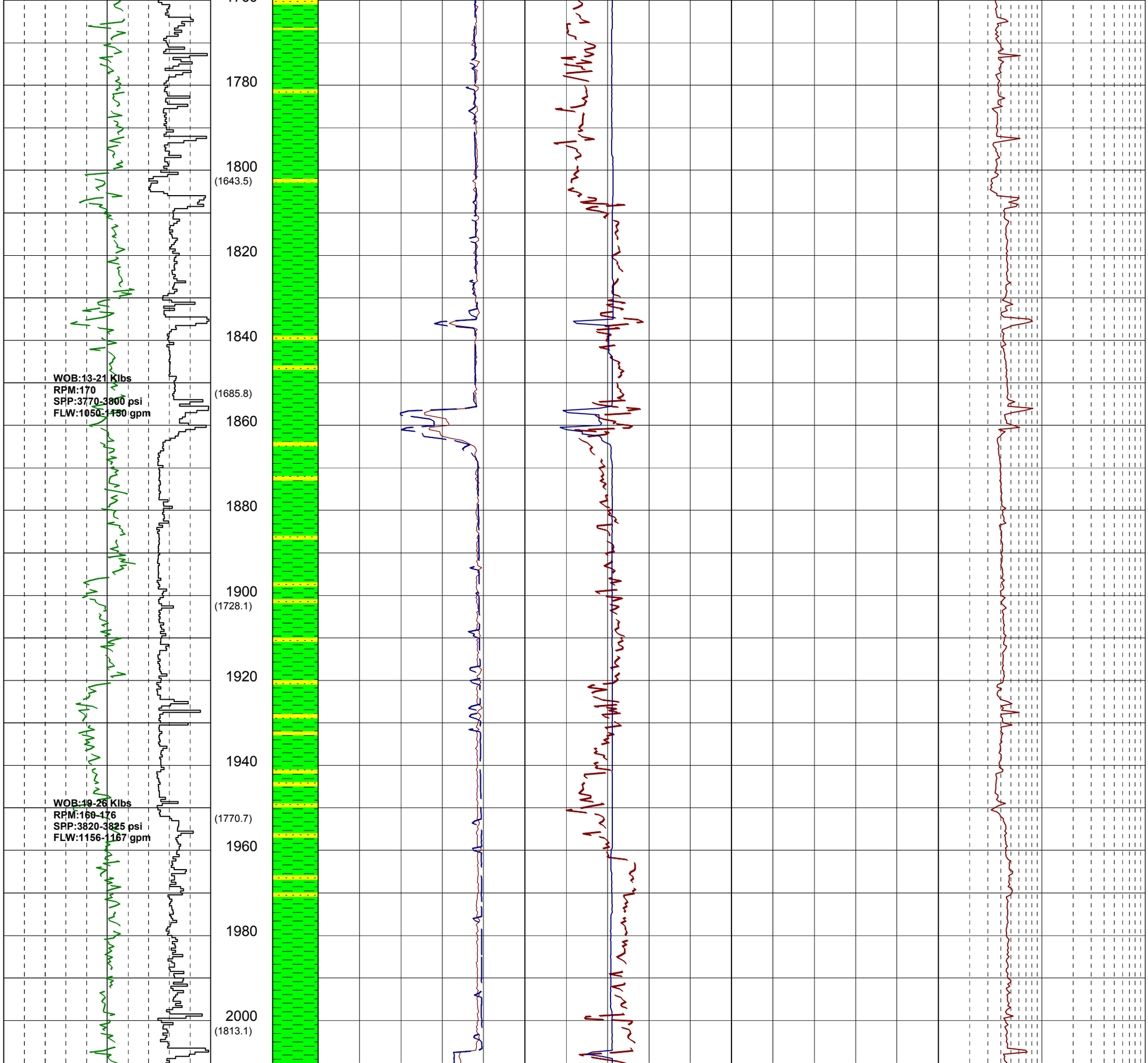

520
540
(549.6)
560
580
600
(599.5)
620
640
(649.4)
660
680
700
(699)
720
740
(748)
760
BIT# 3: 12¼" (311.15mm)
SEC DBS FMF3565Z BIT
JETS: 6x18
IN: 638m OUT: 2751m
RUN: 2113m HRS: 91.1
COND:2-2-WT-S-X-IN-CT,ER-TD
MW: 1.25
FV: 76
PV: 38
YP: 20
WOB:5-17 Klbs
RPM:158-160
SPP:2800 psi
PLW:1120 gpm
473mm (18.625")
CASING SET @ 633m
COMMENCE DRILLING OF
THYLACINE 04 @
06:30 HRS 11/08/2006
FIT @ 633m, EMW=2.36sg

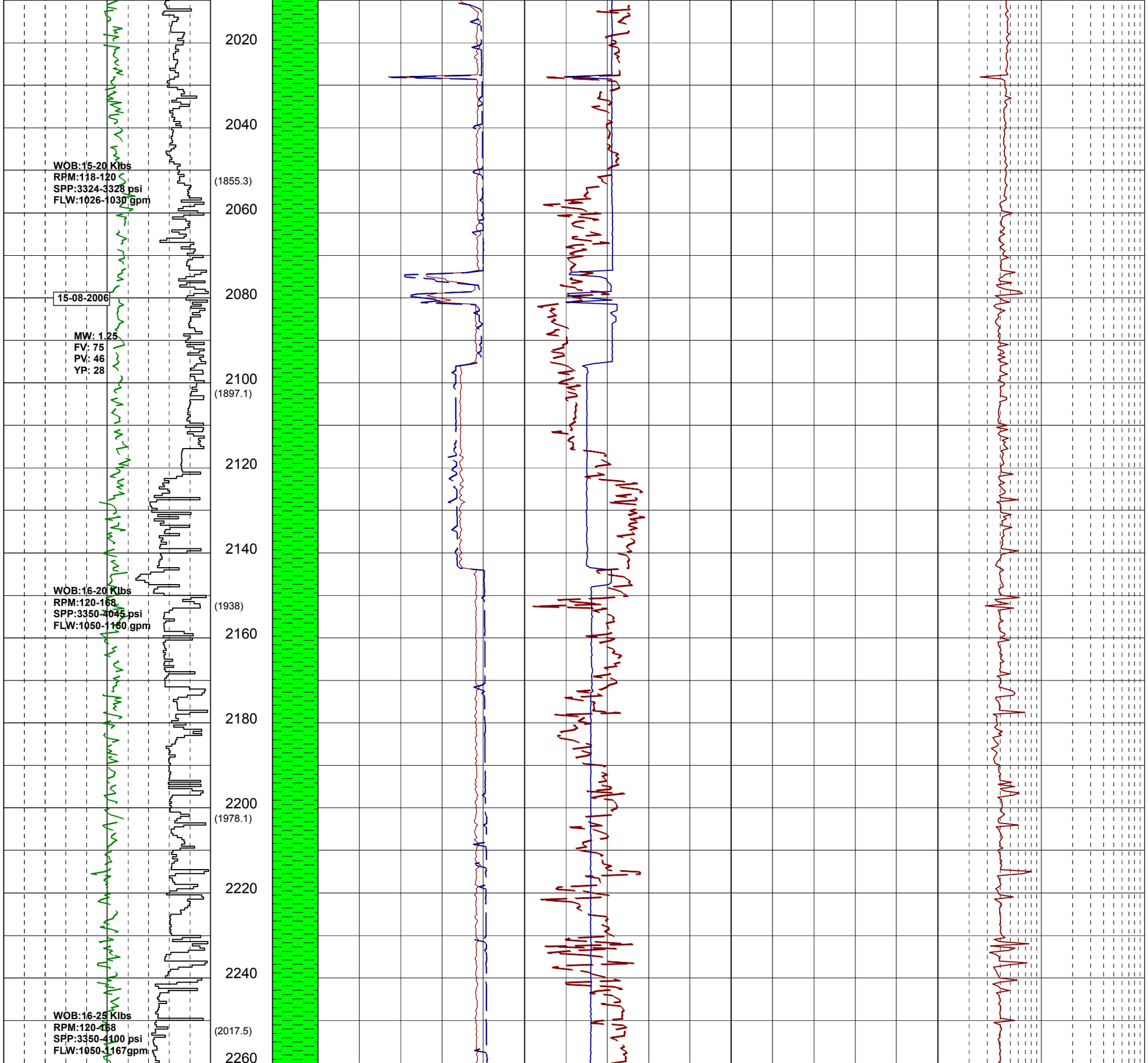

780
800
(795.5)
820
840
WOB:9-12 Klbs
RPM:173
SPP:3235 psi
FLW:1155 gpm
(841.2)
860
880
900
(884.4)
920
940
WOB:7-12 Klbs
RPM:173
SPP:3139 psi
FLW:1163 gpm
(925.9)
960
980
1000
(967.6)
MW: 1.25

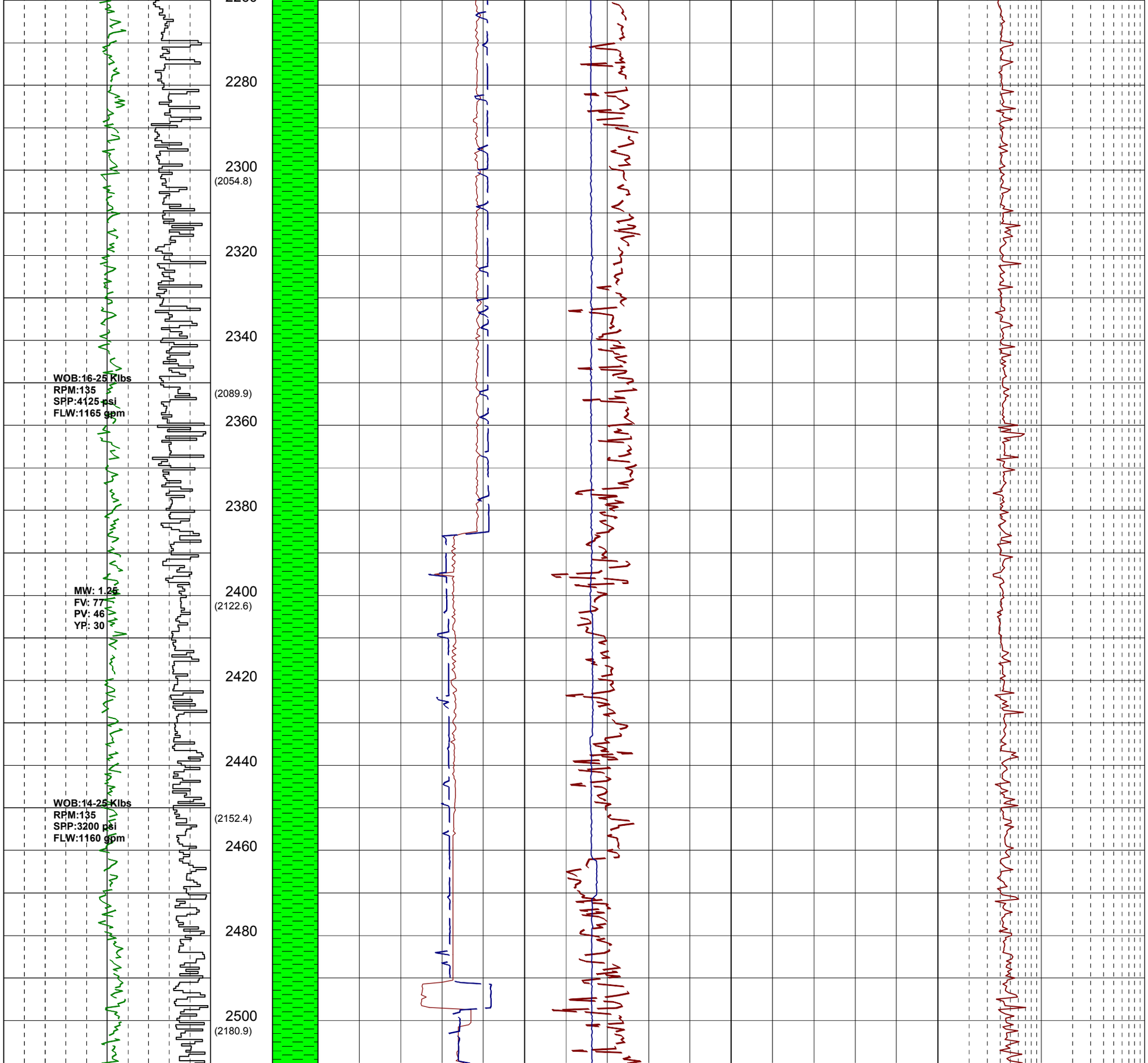

FV: 93
PV: 34
YP: 28
1020
1040
WOB:16-18 Klbs
RPM:179
SPP:3200 psi
FLW:1165 gpm
(1010)
1060
MW: 1.25
FV: 93
PV: 34
YP: 14
1080
1100
(1052.2)
1120
1140
WOB:16 Klbs
RPM:179
SPP:3200 psi
FLW:1165 gpm
(1093.8)
1160
1180
1200
(1135.8)
1220
1240
WOB:5-20 Klbs
RPM:179
SPP:3200-3350 psi
FLW:1151-1165 gpm
(1177.9)
1260

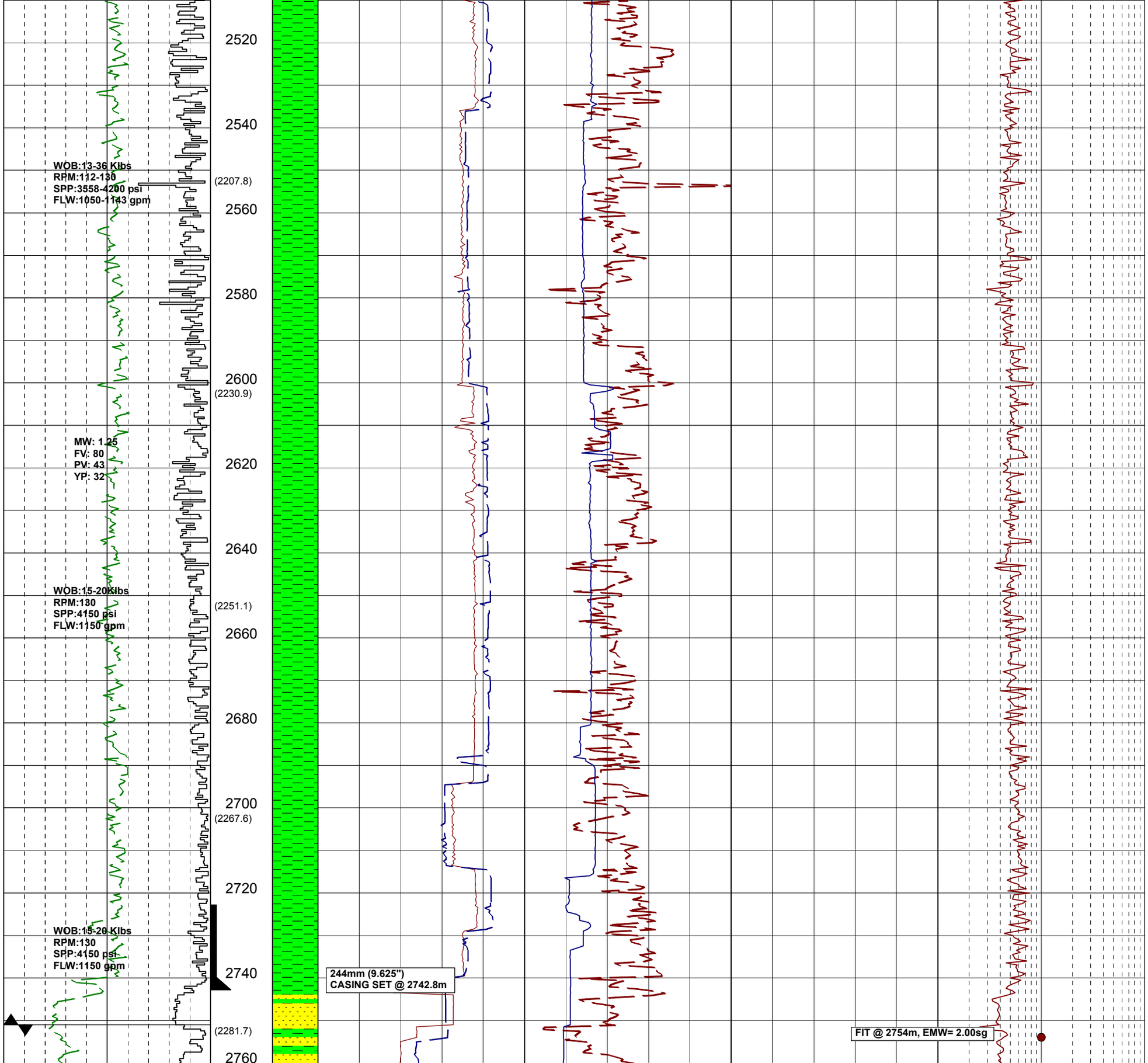

1280
1300
(1219.9)
1320
1340
WOB:5-28 Klbs
RPM:79
SPP:2800 psi
FLW:1000 gpm
(1261.9)
1360
1380
1400
(1304.4)
1420
1440
WOB:17 Klbs
RPM:170
SPP:375 psi
FLW:1160 gpm
(1346.9)
1460
1480
1500
(1388.9)

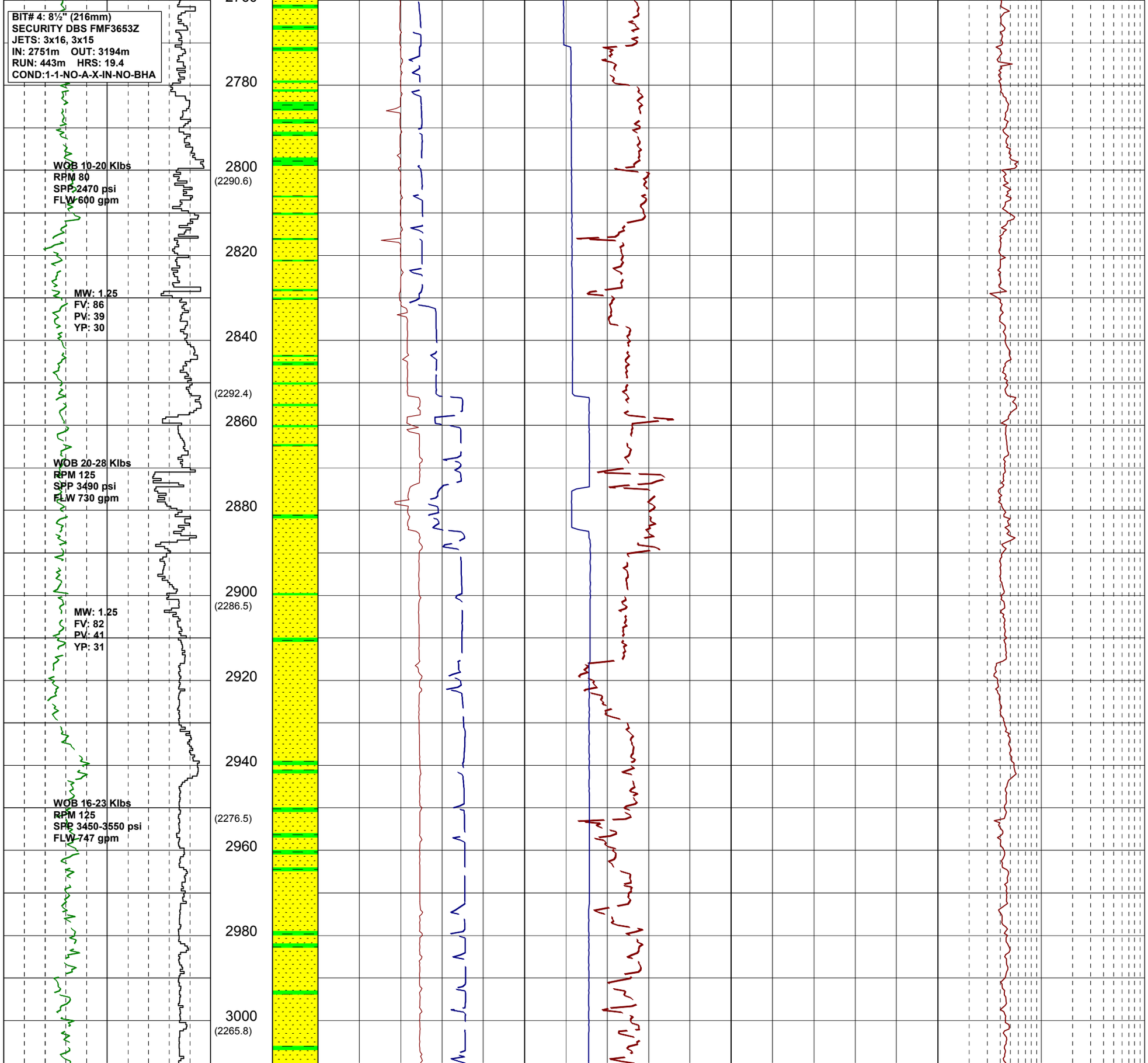

1520
1540
WOB:25 Klbs
RPM:147
SPP:3615 psi
FLW:1155 gpm
(1431.1)
1560
1580
1600
(1473.5)
1620
MW: 1.25
FV: 82
PV: 34
YP: 28
1640
(1516)
1660
MW: 1.25
FV: 76
PV: 43
YP: 29
1680
1700
(1558.7)
1720
1740
WOB:13-21 Klbs
RPM:170
SPP:3770-3800 psi
FLW:1050-1150 gpm
(1601.1)
1760

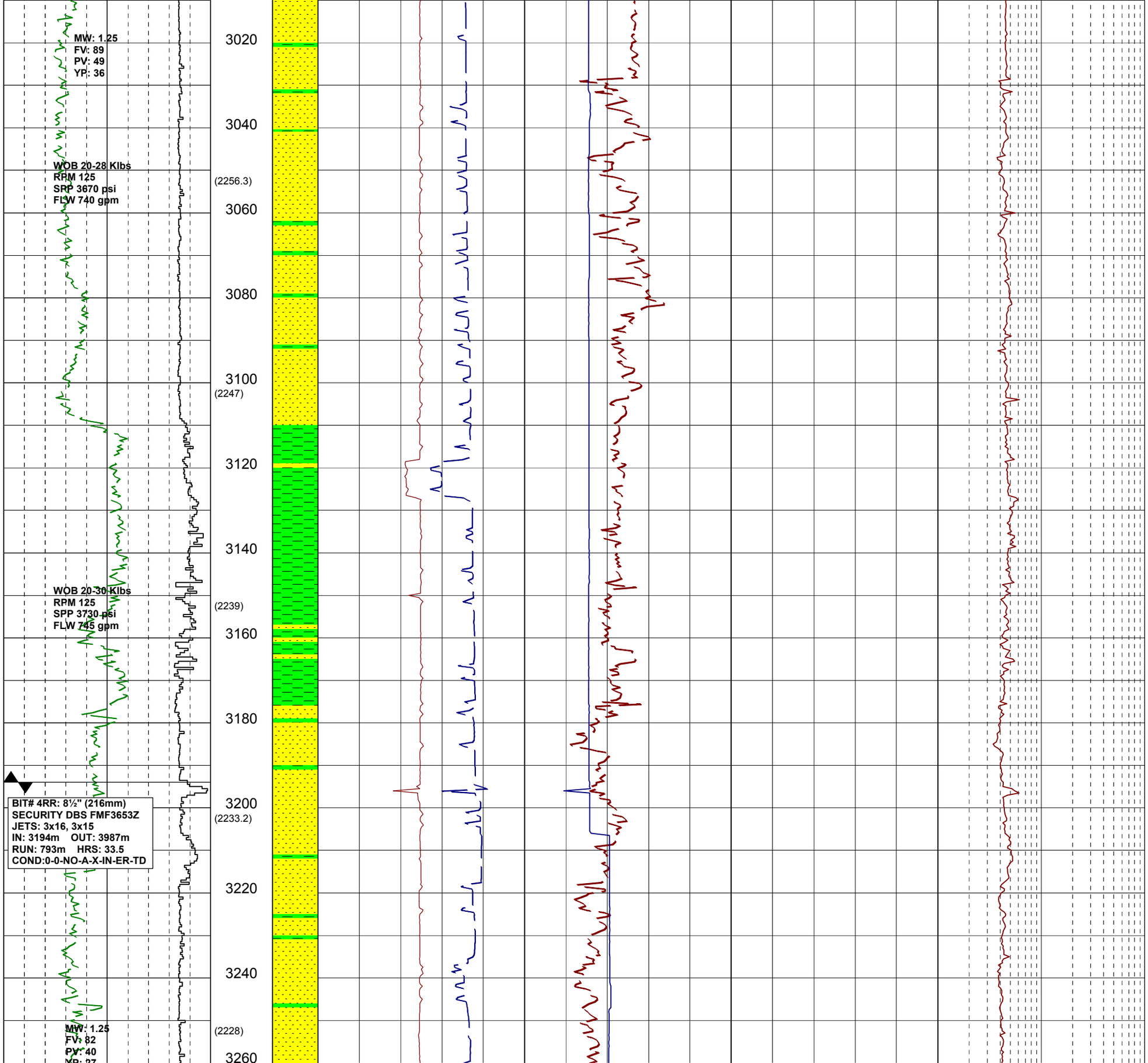

1780
1800
(1643.5)
1820
1840
WOB:13-21 Klbs
RPM:170
SPP:3770-3800 psi
FLW:1050-1150 gpm
(1685.8)
1860
1880
1900
(1728.1)
1920
1940
WOB:19-26 Klbs
RPM:160-176
SPP:3820-3825 psi
FLW:1156-1167 gpm
(1770.7)
1960
1980
2000
(1813.1)

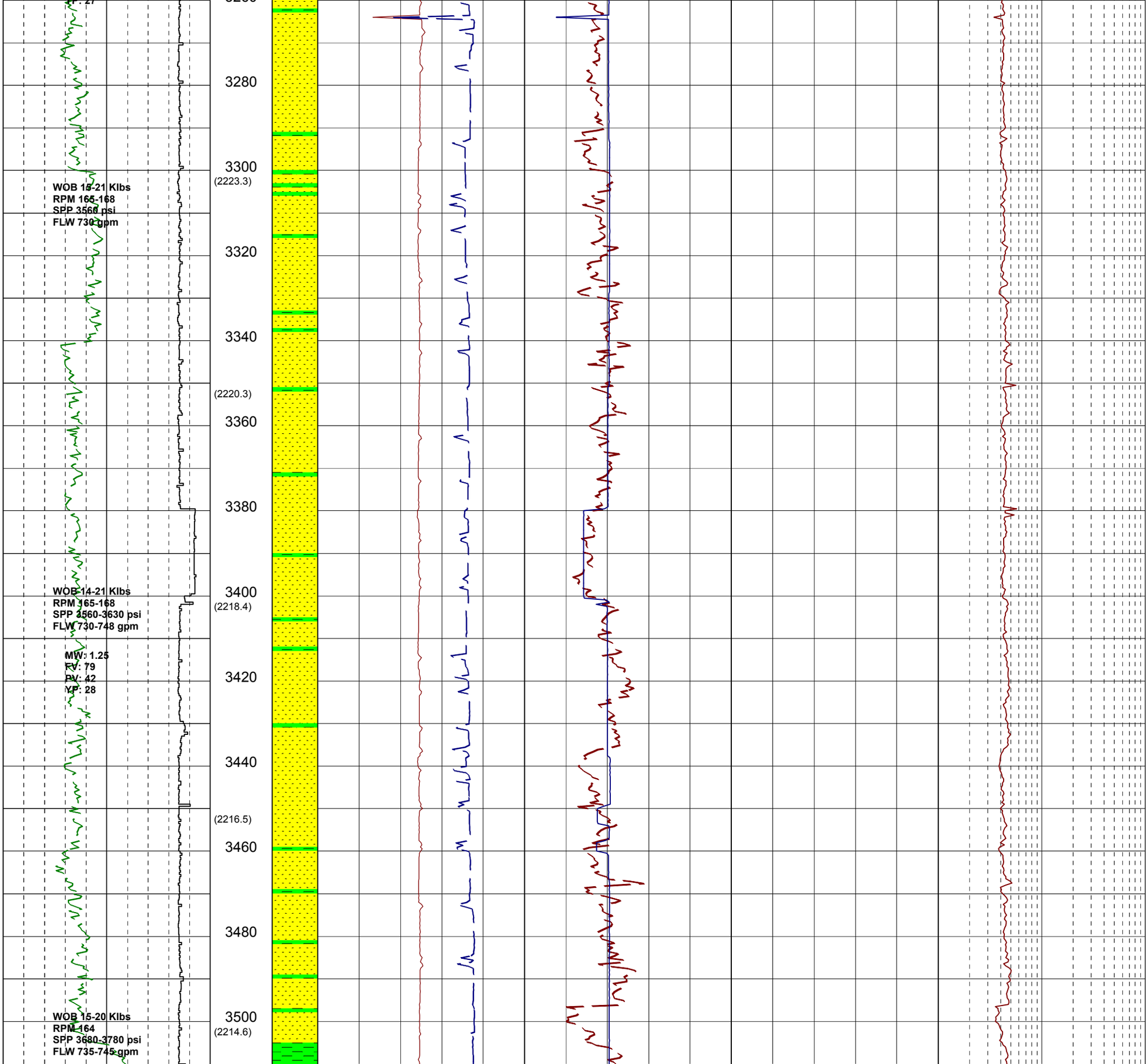

2020
2040
WOB:15-20 Klbs
RPM:118-120
SPP:3324-3328 psi
FLW:1026-1030 gpm
(1855.3)
2060
15-08-2006
2080
MW: 1.25
FV: 75
PV: 46
YP: 28
2100
(1897.1)
2120
2140
WOB:16-20 Klbs
RPM:120-168
SPP:3350-4045 psi
FLW:1050-1150 gpm
(1938)
2160
2180
2200
(1978.1)
2220
2240
WOB:16-25 Klbs
RPM:120-168
SPP:3350-4100 psi
FLW:1050-1167gpm
(2017.5)
2260

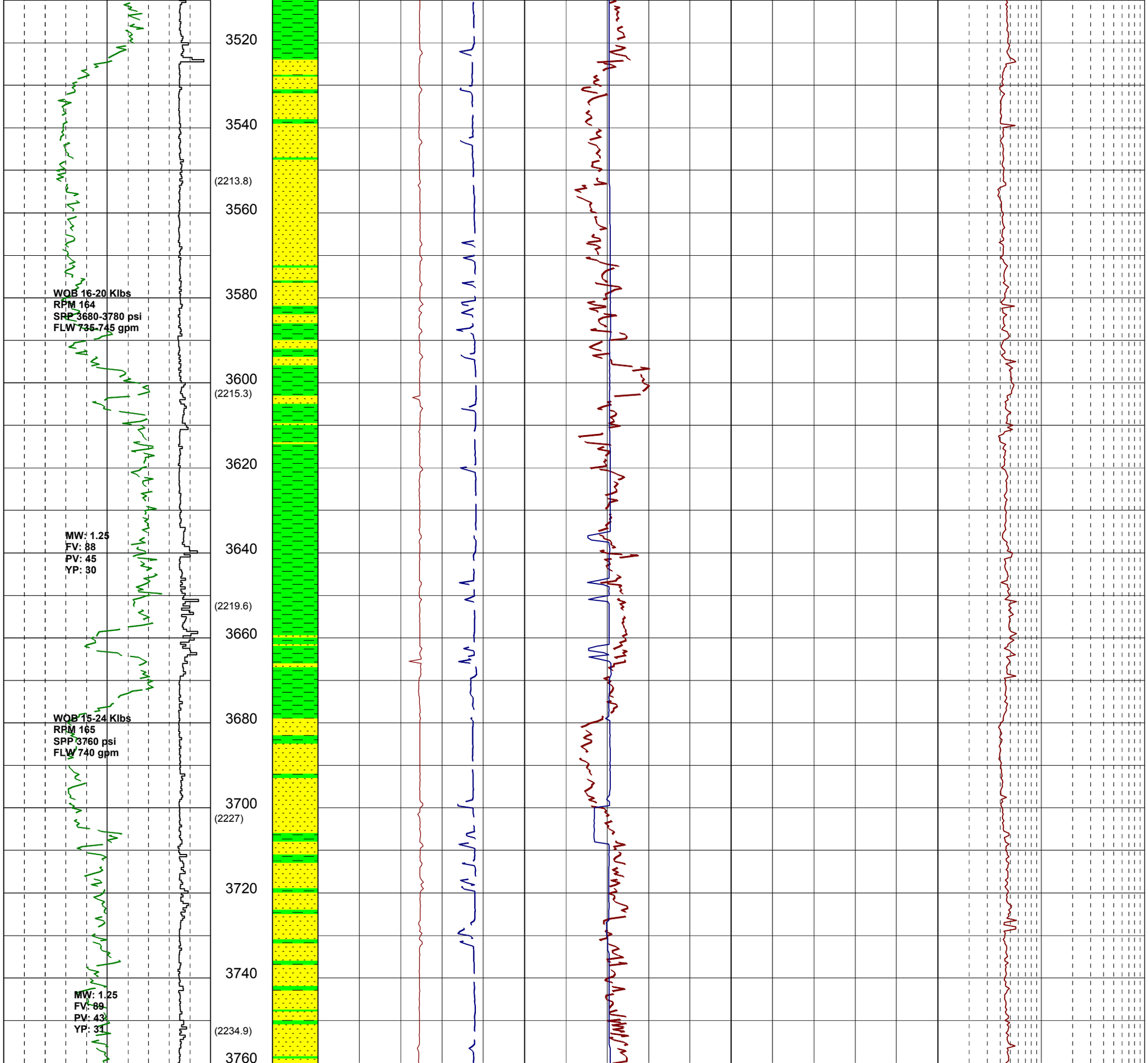

2280
2300
(2054.8)
2320
2340
WOB:16-25 Klbs
RPM:135
SPP:4125 psi
FLW:1165 gpm
(2089.9)
2360
2380
MW: 1.25
FV: 77
PV: 46
YP: 30
2400
(2122.6)
2420
2440
WOB:14-25 Klbs
RPM:135
SPP:3200 psi
FLW:1160 gpm
(2152.4)
2460
2480
2500
(2180.9)

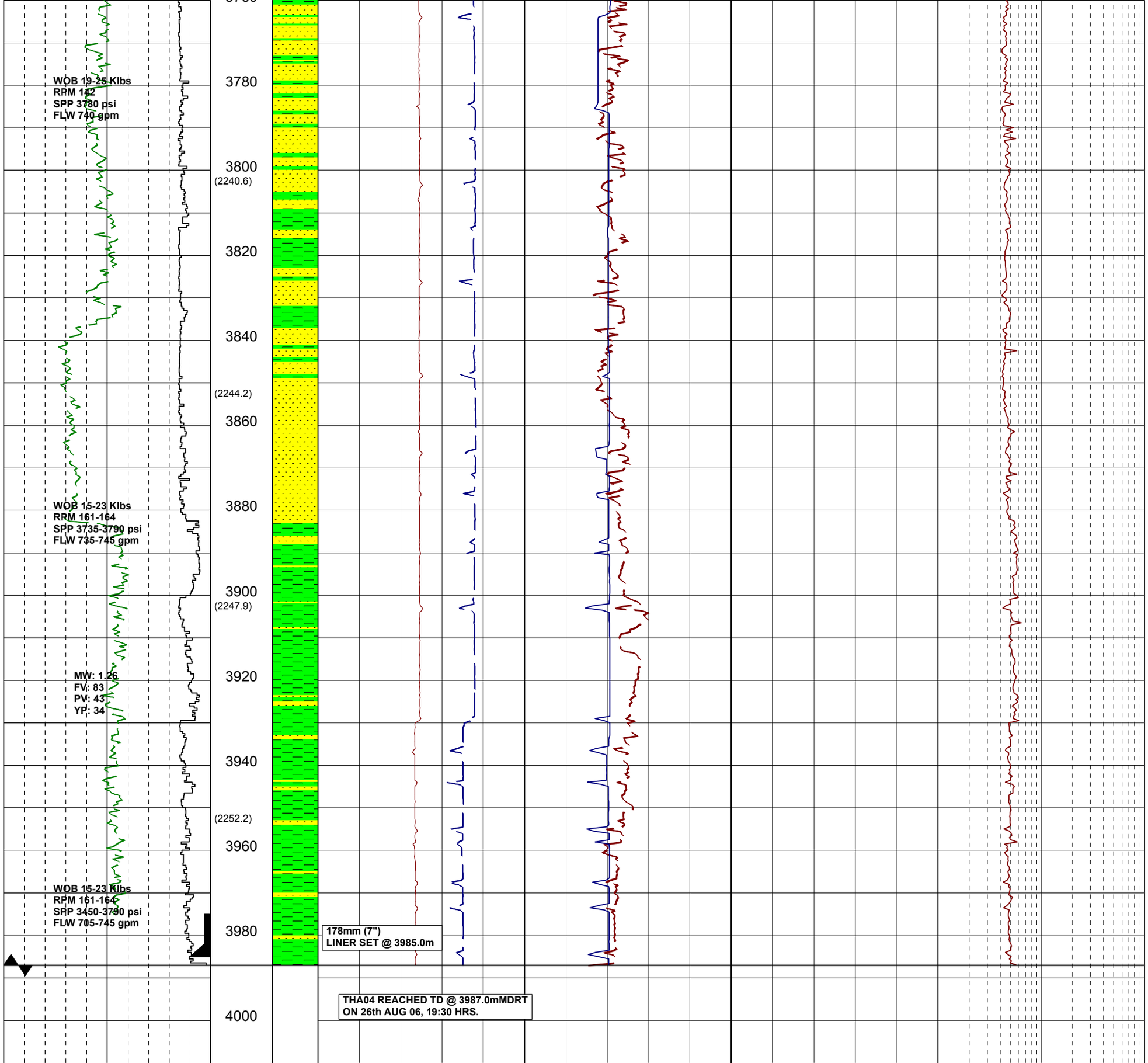

2520
2540
WOB:13-36 Klbs
RPM:112-130
SPP:3558-4200 psi
FLW:1050-1143 gpm
(2207.8)
2560
2580
2600
(2230.9)
MW: 1.25
FV: 80
PV: 43
YP: 32
2620
2640
WOB:15-20 Klbs
RPM:130
SPP:4150 psi
FLW:1150 gpm
(2251.1)
2660
2680
2700
(2267.6)
2720
WOB:15-20 Klbs
RPM:130
SPP:4150 psi
FLW:1150 gpm
2740
244mm (9.625")
CASING SET @ 2742.8m
(2281.7)
2760
FIT @ 2754m, EMW= 2.00sg

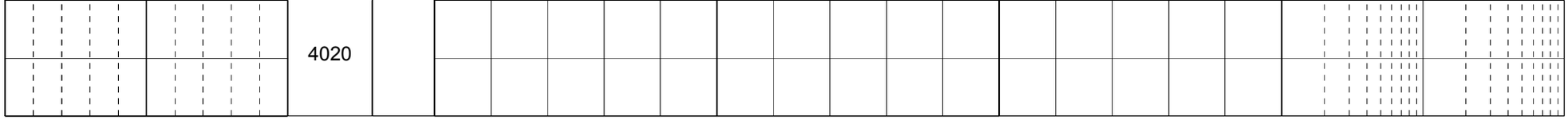

BIT# 4: 8½" (216mm)
SECURITY DBS FMF3653Z
JETS: 3x16, 3x15
IN: 2751m OUT: 3194m
RUN: 443m HRS: 19.4
COND:1-1-NO-A-X-IN-NO-BHA
2780
2800
(2290.6)
WOB 10-20 Klbs
RPM 80
SPP 2470 psi
FLW 600 gpm
2820
MW: 1.25
FV: 86
PV: 39
YP: 30
2840
(2292.4)
2860
WOB 20-28 Klbs
RPM 125
SPP 3490 psi
FLW 730 gpm
2880
2900
(2286.5)
MW: 1.25
FV: 82
PV: 41
YP: 31
2920
2940
WOB 16-23 Klbs
RPM 125
SPP 3450-3550 psi
FLW 747 gpm
(2276.5)
2960
2980
3000
(2265.8)


MW: 1.25
FV: 89
PV: 49
YP: 36
WOB 20-28 Klbs
RPM 125
SPP 3670 psi
FLW 740 gpm
WOB 20-30 Klbs
RPM 125
SPP 3730 psi
FLW 745 gpm
BIT# 4RR: 8½" (216mm)
SECURITY DBS FMF3653Z
JETS: 3x16, 3x15
IN: 3194m OUT: 3987m
RUN: 793m HRS: 33.5
COND:0-0-NO-A-X-IN-ER-TD
MW: 1.25
FV: 82
PV: 40
YP: 27
3020
3040
(2256.3)
3060
3080
3100
(2247)
3120
3140
(2239)
3160
3180
3200
(2233.2)
3220
3240
(2228)
3260


YP: 27
3280
3300
(2223.3)
WOB 15-21 Klbs
RPM 165-168
SPP 3560 psi
FLW 730 gpm
3320
3340
(2220.3)
3360
3380
3400
(2218.4)
WOB 14-21 Klbs
RPM 165-168
SPP 3560-3630 psi
FLW 730-748 gpm
MW: 1.25
FV: 79
PV: 42
YP: 28
3420
3440
(2216.5)
3460
3480
3500
(2214.6)
WOB 15-20 Klbs
RPM 164
SPP 3680-3780 psi
FLW 735-745 gpm


3520
3540
(2213.8)
3560
WOB 16-20 Klbs
RPM 164
SPP 3680-3780 psi
FLW 735-745 gpm
3580
3600
(2215.3)
3620
MW: 1.25
FV: 88
PV: 45
YP: 30
3640
(2219.6)
3660
WOB 15-24 Klbs
RPM 165
SPP 3760 psi
FLW 740 gpm
3680
3700
(2227)
3720
3740
MW: 1.25
FV: 89
PV: 43
YP: 31
(2234.9)
3760


WOB 19-25 Klbs
RPM 142
SPP 3780 psi
FLW 740 gpm
3780
3800
(2240.6)
3820
3840
(2244.2)
3860
WOB 15-23 Klbs
RPM 161-164
SPP 3735-3790 psi
FLW 735-745 gpm
3880
3900
(2247.9)
MW: 1.26
FV: 83
PV: 43
YP: 34
3920
3940
(2252.2)
3960
WOB 15-23 Klbs
RPM 161-164
SPP 3450-3790 psi
FLW 705-745 gpm
3980
178mm (7")
LINER SET @ 3985.0m
THA04 REACHED TD @ 3987.0mMDRT
ON 26th AUG 06, 19:30 HRS.
4000



4020

Enclosure D

PRESSURE EVALUATION PLOT

1 : 1000

PRESSURE EVALUATION LOG

WELL : THA04

WOODSIDE

Geoservices

FROM (m): 200 TO (m): 4020 SCALE: 1/ 1000

Country	: AUSTRALIA	**POSITION**		**CASING**	
Region	: Otway Basin	Latitude	: 39° 14' 14.56" S	660mm Shoe at (mMDRT)	: 217.0
Field	: Thylacine	Longitude	: 142° 54' 07.58" E	473mm Shoe at (mMDRT)	: 633.0
Permit	: T/L2	X (m)	: 5655156.8 N	244mm Shoe at (mMDRT)	: 2742.8
Well Type	: Exp/Appraisal	Y (m)	: 664161.0 E	178mm Shoe at (mMDRT)	: 3985.0
Rig Name	: Maersk Guardian	RT-LAT (m)	: 50.5		
		RT-Seabed (m)	: 149.8		

Spud Date	: 12-08-2006
Total Depth Date	: 26-08-2006
Total Depth (mRT)	3987.0
T.V.D. (mSSLAT)	: 2203.3
Status	: Completed

ABBREVIATIONS

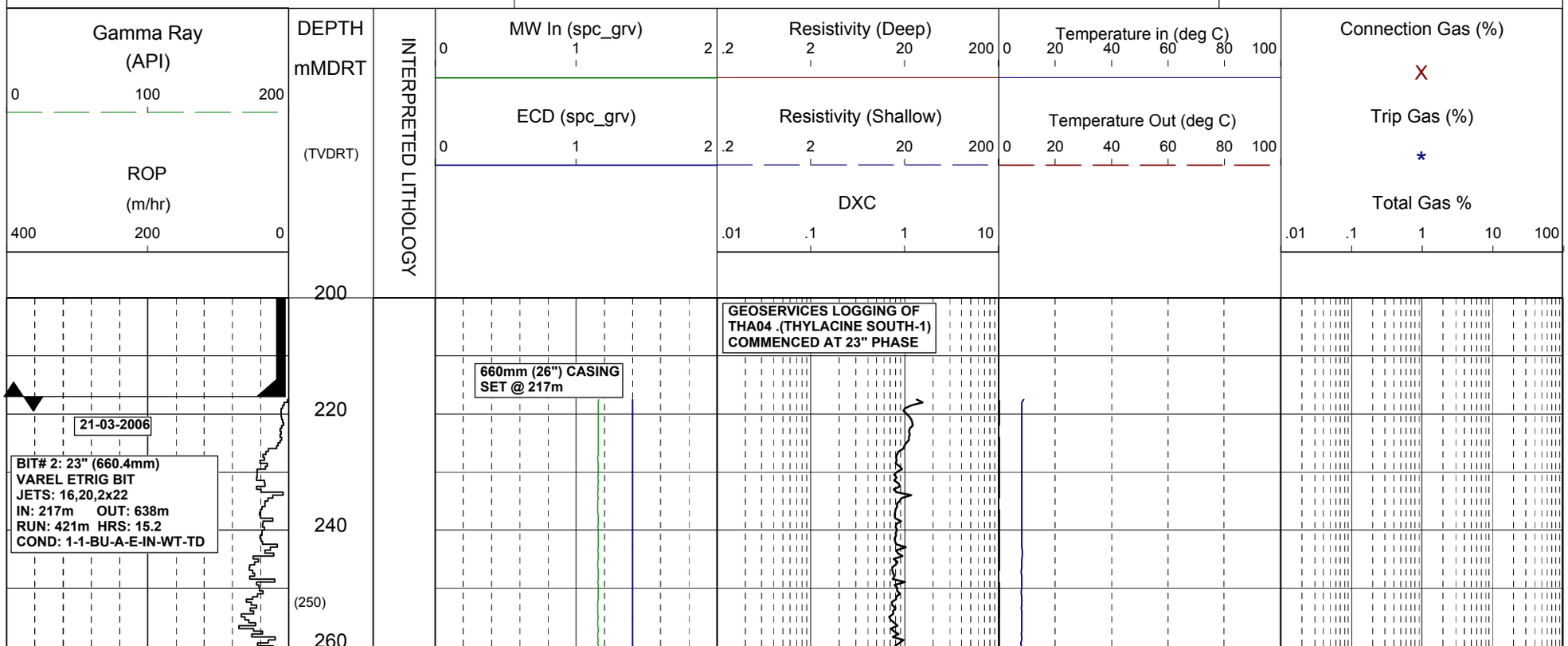
MW MUD WEIGHT	NB NEW BIT
FV FUNNEL VISCOSITY	RR RERUN BIT
PV PLASTIC VISCOSITY	CB CORE BIT
YP YIELD POINT	WOB WEIGHT ON BIT
FC FILTER CAKE	RPM REVS PER MINUTE
SOL SOLIDS	FLC FLOW CHECK
WL FILTRATE	CR CIRCULATE RETURNS
SD SAND - %	PR POOR RETURNS
S SALINITY - PPM	NR NO RETURNS
RM MUD RESISTIVITY	BG BACKGROUND GAS
RMF MUD FILTRATE	TG TRIP GAS
C CARBIDE TEST	STG SHORT TRIP GAS
LAT LOGGED AFTER TRIP	CG CONNECTION GAS
DS DEVIATION SURVEY	SG SWAB GAS
	SVG SURVEY GAS

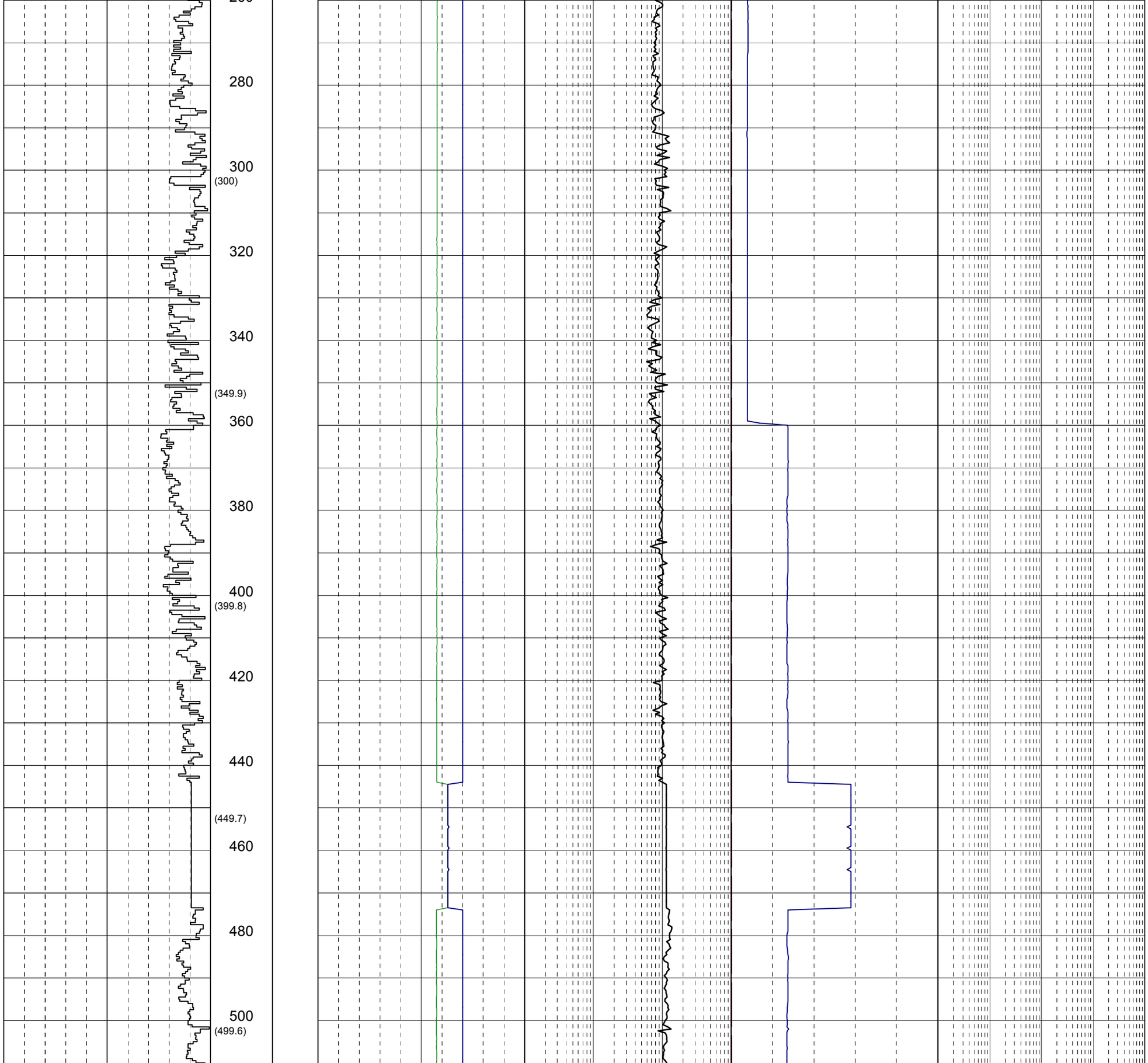
LITHOLOGY LEGEND

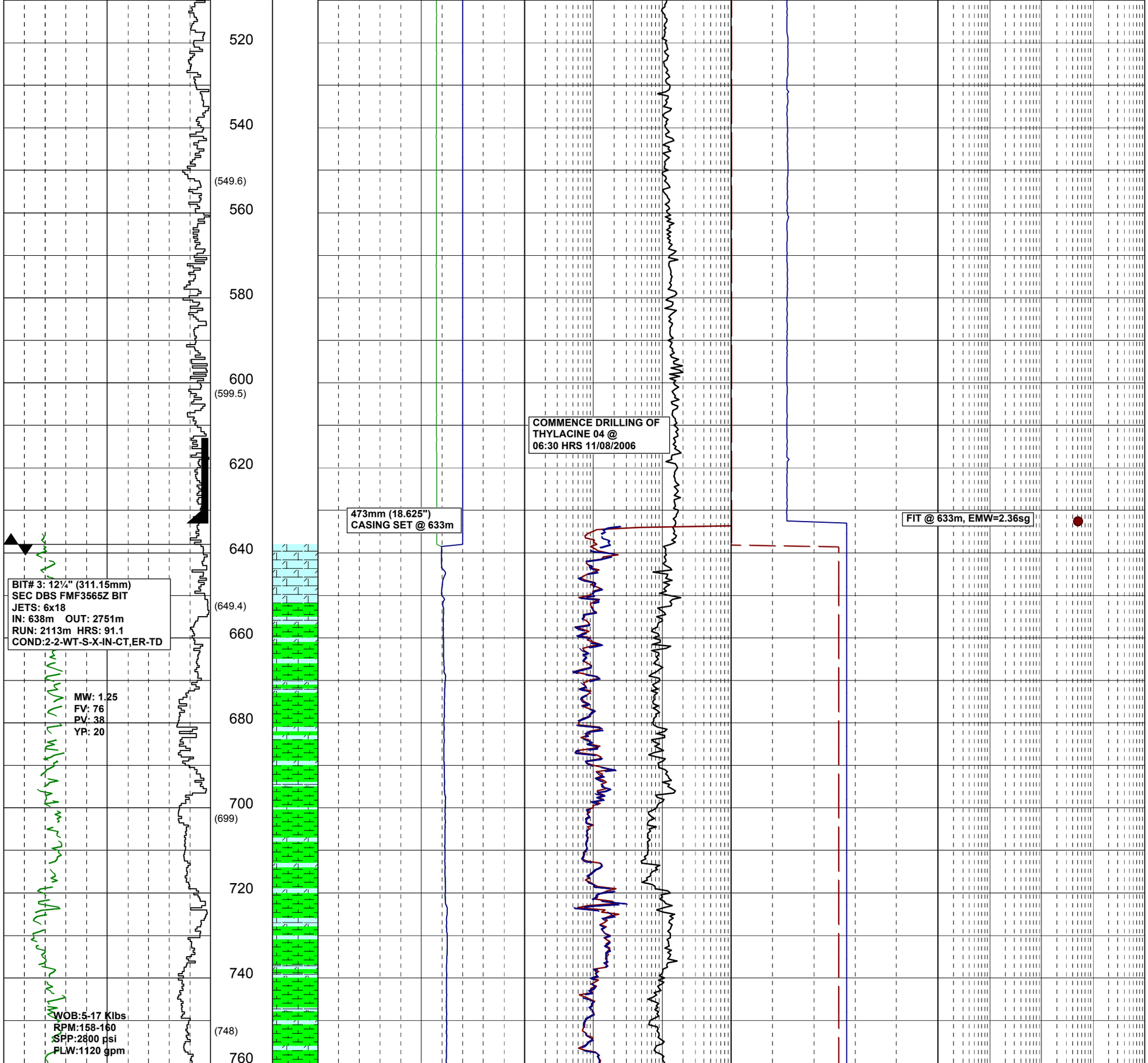
Limestone	Calcarenite	Pyrite
Coal	Gypsum	Glauconite
Fine Sandstone	Marl	Mica
Siltstone	Dolomite	Ferrous
Carb. Siltstone	Claystone	Fossils
Calc. Siltstone	Calc Claystone	Calcareous
Calcisiltite	Lithic frag	Dolomitic
Calcilutite	Foraminifera	

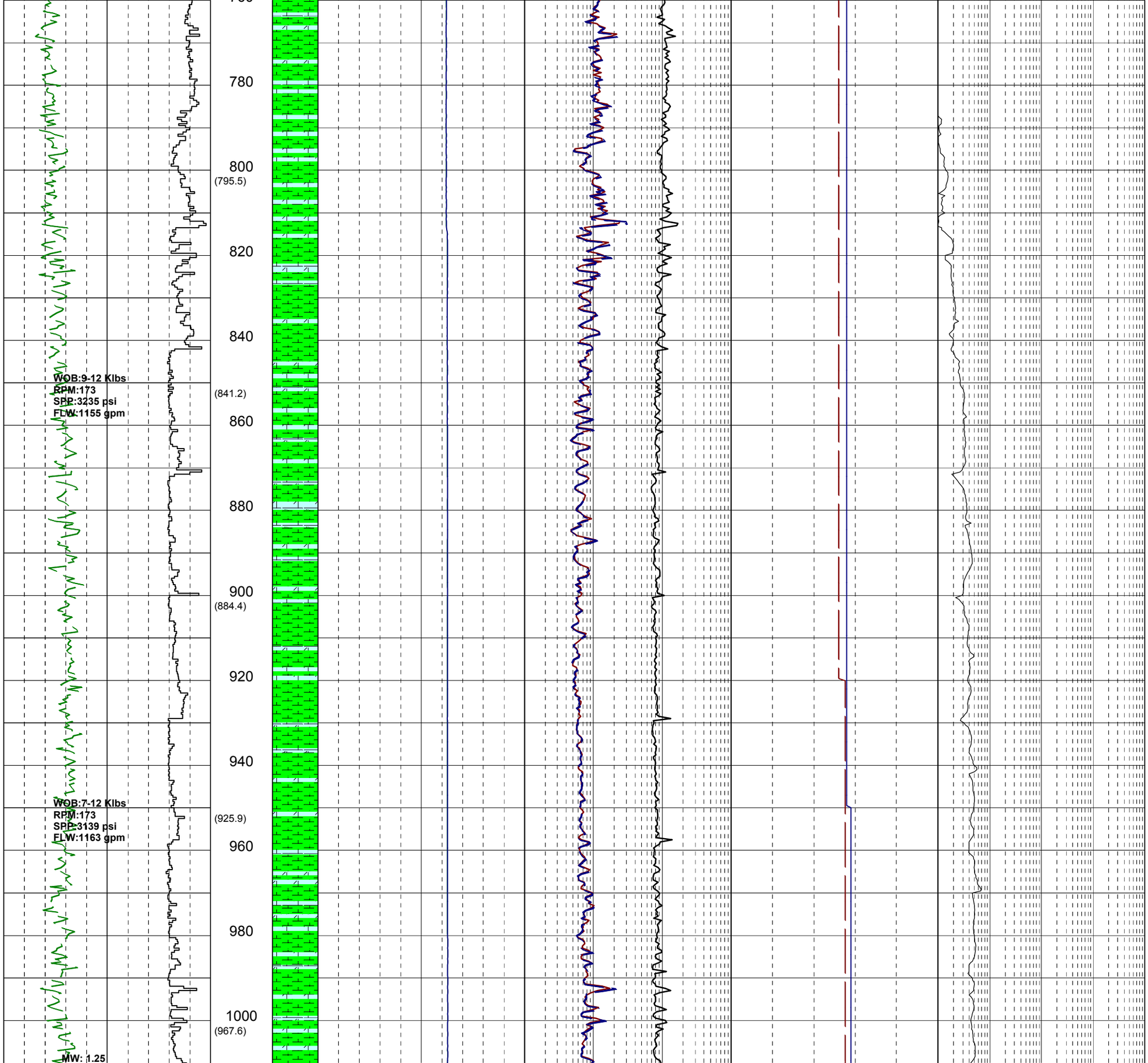
ENGINEERING LEGEND

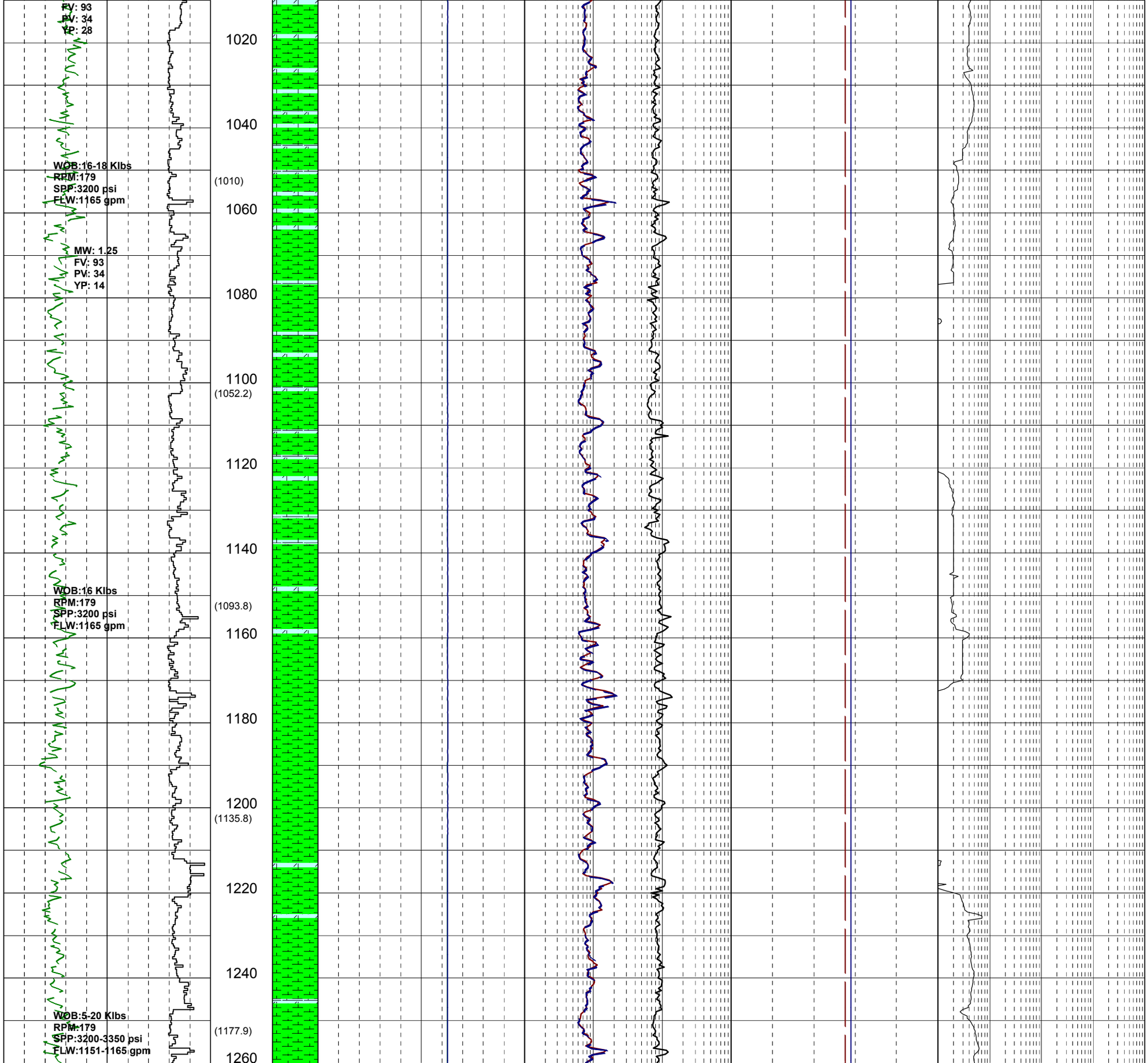
Deviation Survey
Casing Shoe
Wiper Trip
SWC (rec)
SWC (unrec)
Core
Bit Trip

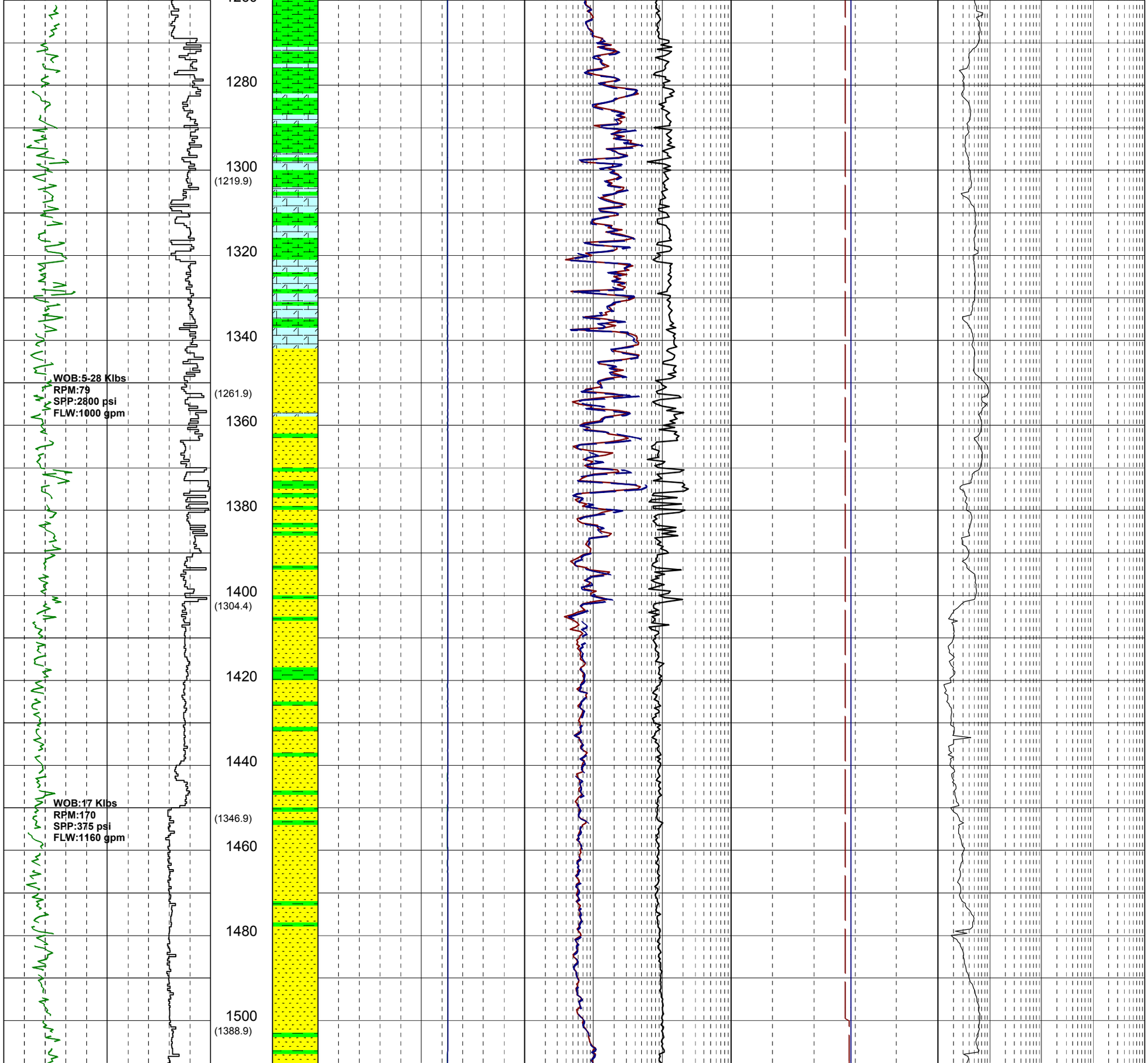


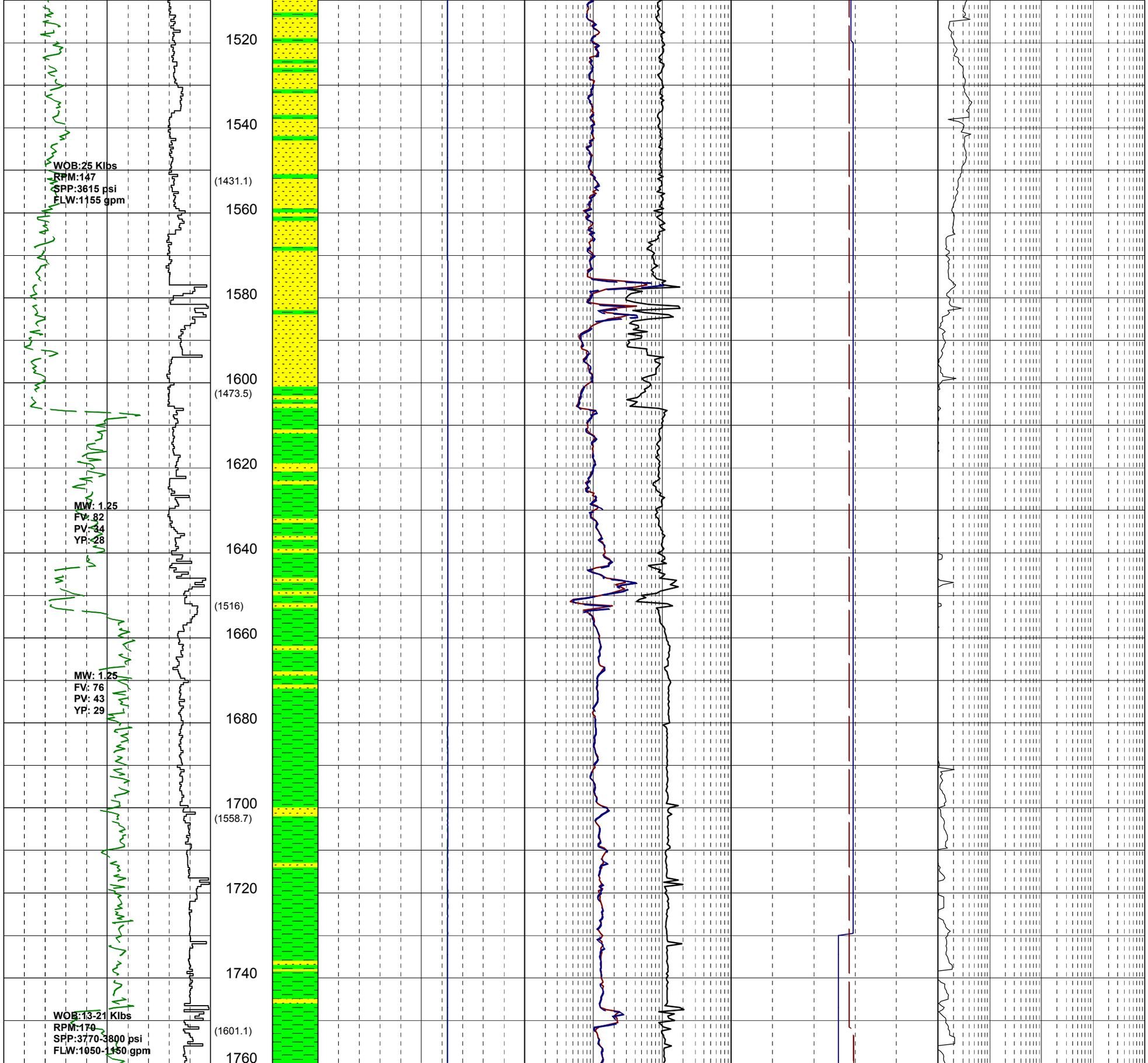

280
300
(300)
320
340
(349.9)
360
380
400
(399.8)
420
440
(449.7)
460
480
500
(499.6)

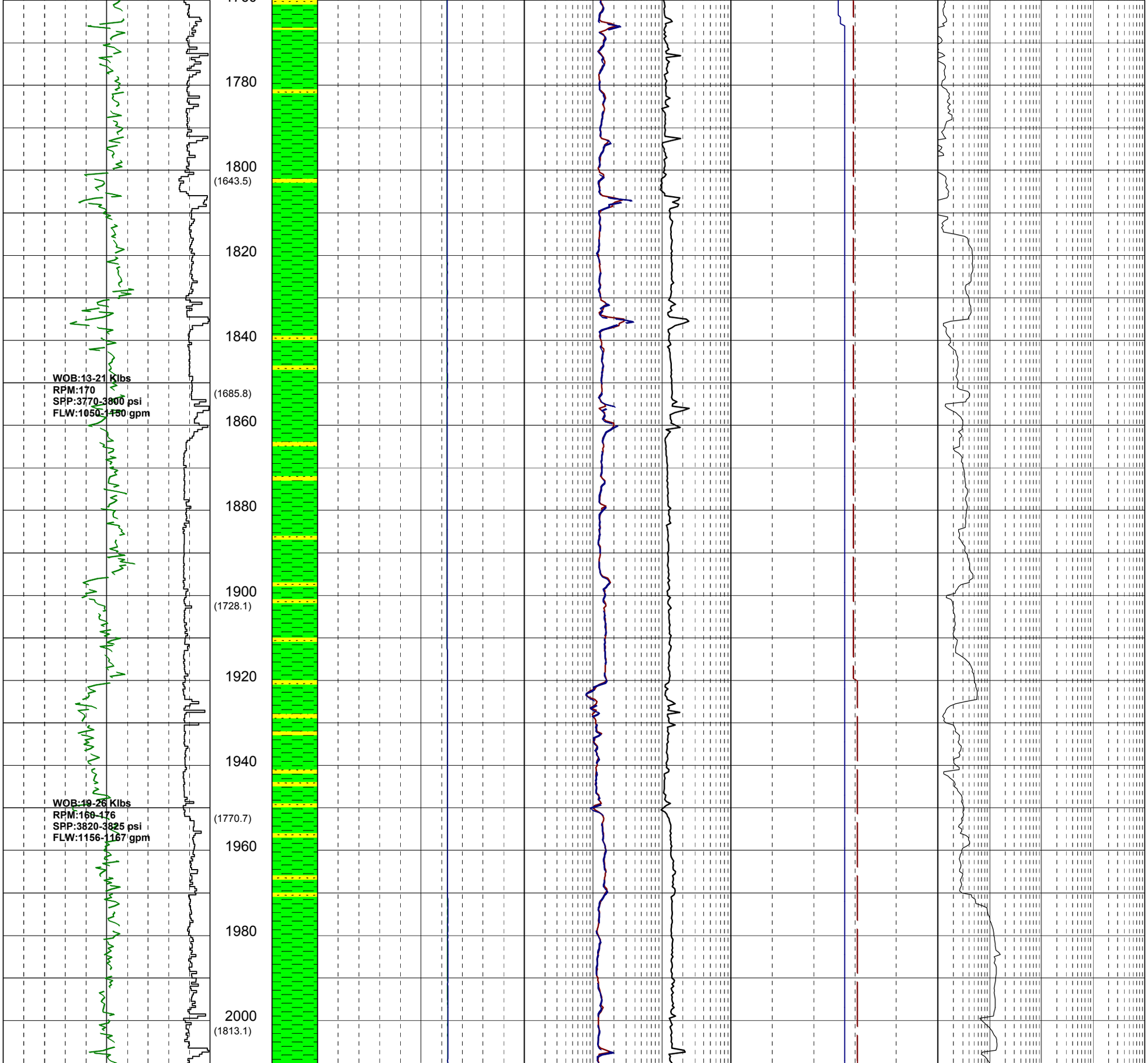

520
540
(549.6)
560
580
600
(599.5)
620
640
(649.4)
660
680
700
(699)
720
740
(748)
760
BIT# 3: 12¼" (311.15mm)
SEC DBS FMF3565Z BIT
JETS: 6x18
IN: 638m OUT: 2751m
RUN: 2113m HRS: 91.1
COND:2-2-WT-S-X-IN-CT,ER-TD
MW: 1.25
FV: 76
PV: 38
YP: 20
WOB:5-17 Klbs
RPM:158-160
SPP:2800 psi
PLW:1120 gpm
473mm (18.625")
CASING SET @ 633m
COMMENCE DRILLING OF
THYLACINE 04 @
06:30 HRS 11/08/2006
FIT @ 633m, EMW=2.36sg

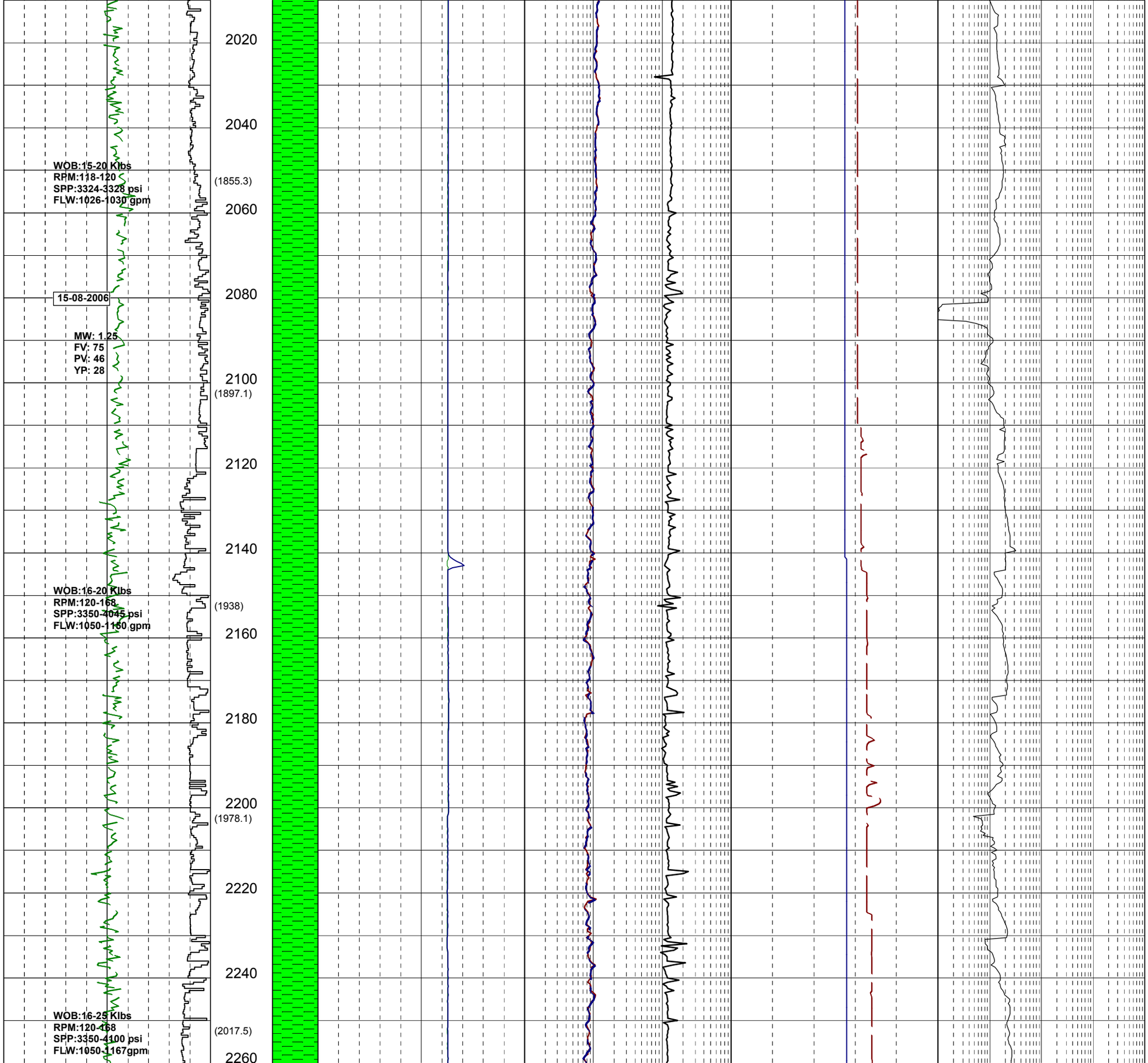

780
800
(795.5)
820
840
WOB:9-12 Klbs
RPM:173
SPP:3235 psi
FLW:1155 gpm
(841.2)
860
880
900
(884.4)
920
940
WOB:7-12 Klbs
RPM:173
SPP:3139 psi
FLW:1163 gpm
(925.9)
960
980
1000
(967.6)
MW: 1.25

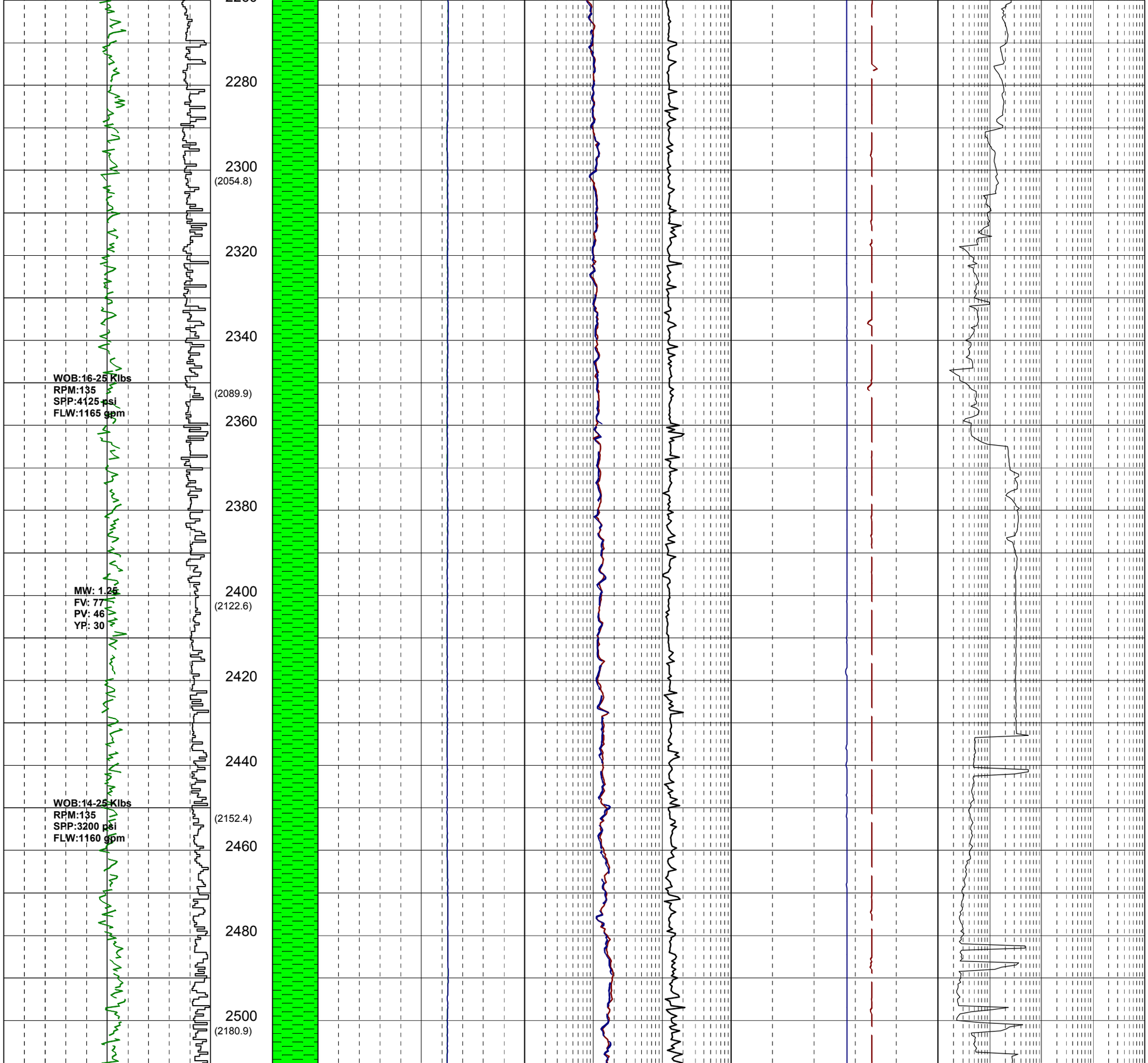

FV: 93
PV: 34
YP: 28
1020
1040
WOB:16-18 Klbs
RPM:179
SPP:3200 psi
FLW:1165 gpm
(1010)
1060
MW: 1.25
FV: 93
PV: 34
YP: 14
1080
1100
(1052.2)
1120
1140
WOB:16 Klbs
RPM:179
SPP:3200 psi
FLW:1165 gpm
(1093.8)
1160
1180
1200
(1135.8)
1220
1240
WOB:5-20 Klbs
RPM:179
SPP:3200-3350 psi
FLW:1151-1165 gpm
(1177.9)
1260

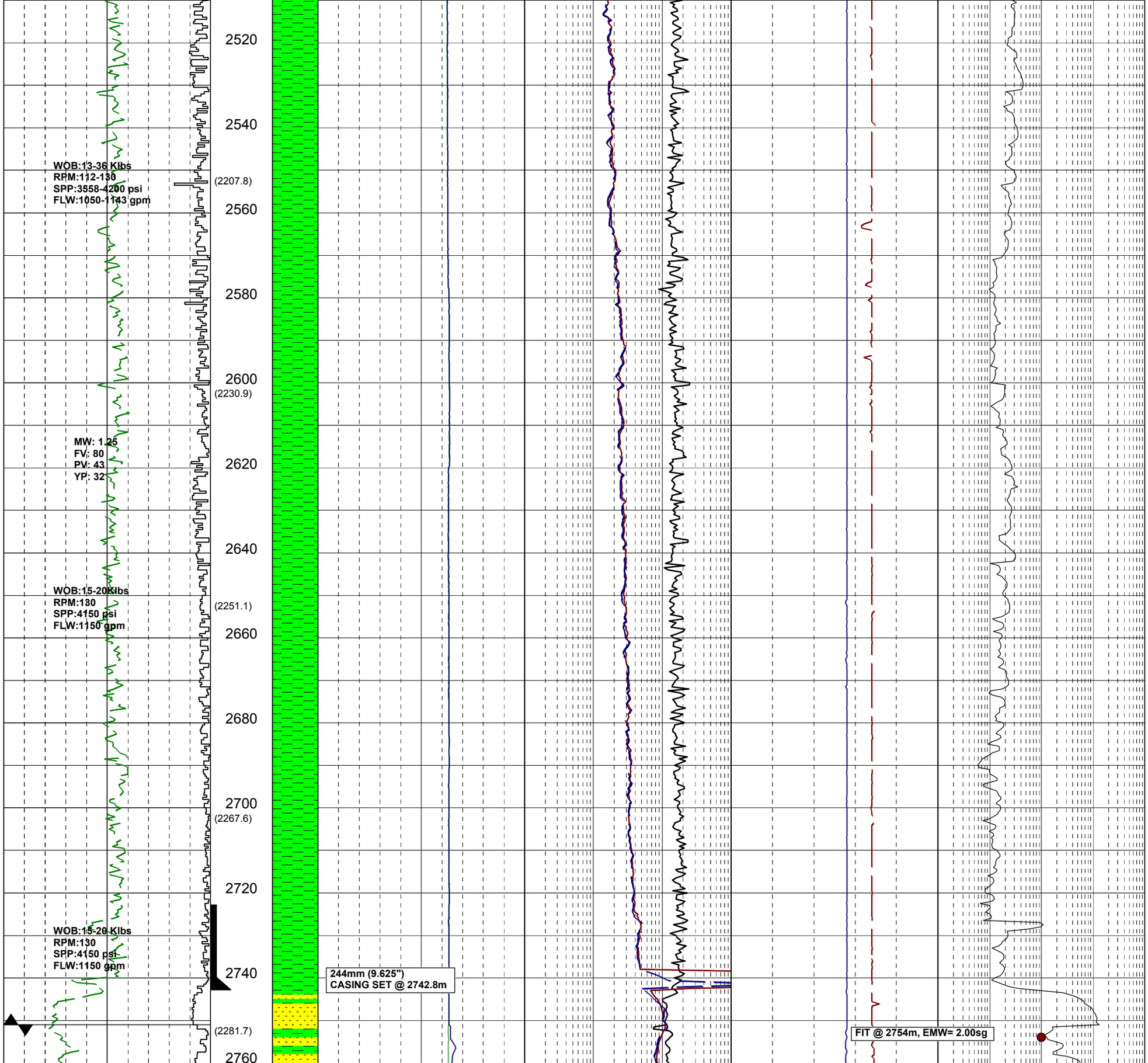

1280
1300
(1219.9)
1320
1340
WOB:5-28 Klbs
RPM:79
SPP:2800 psi
FLW:1000 gpm
(1261.9)
1360
1380
1400
(1304.4)
1420
1440
WOB:17 Klbs
RPM:170
SPP:375 psi
FLW:1160 gpm
(1346.9)
1460
1480
1500
(1388.9)

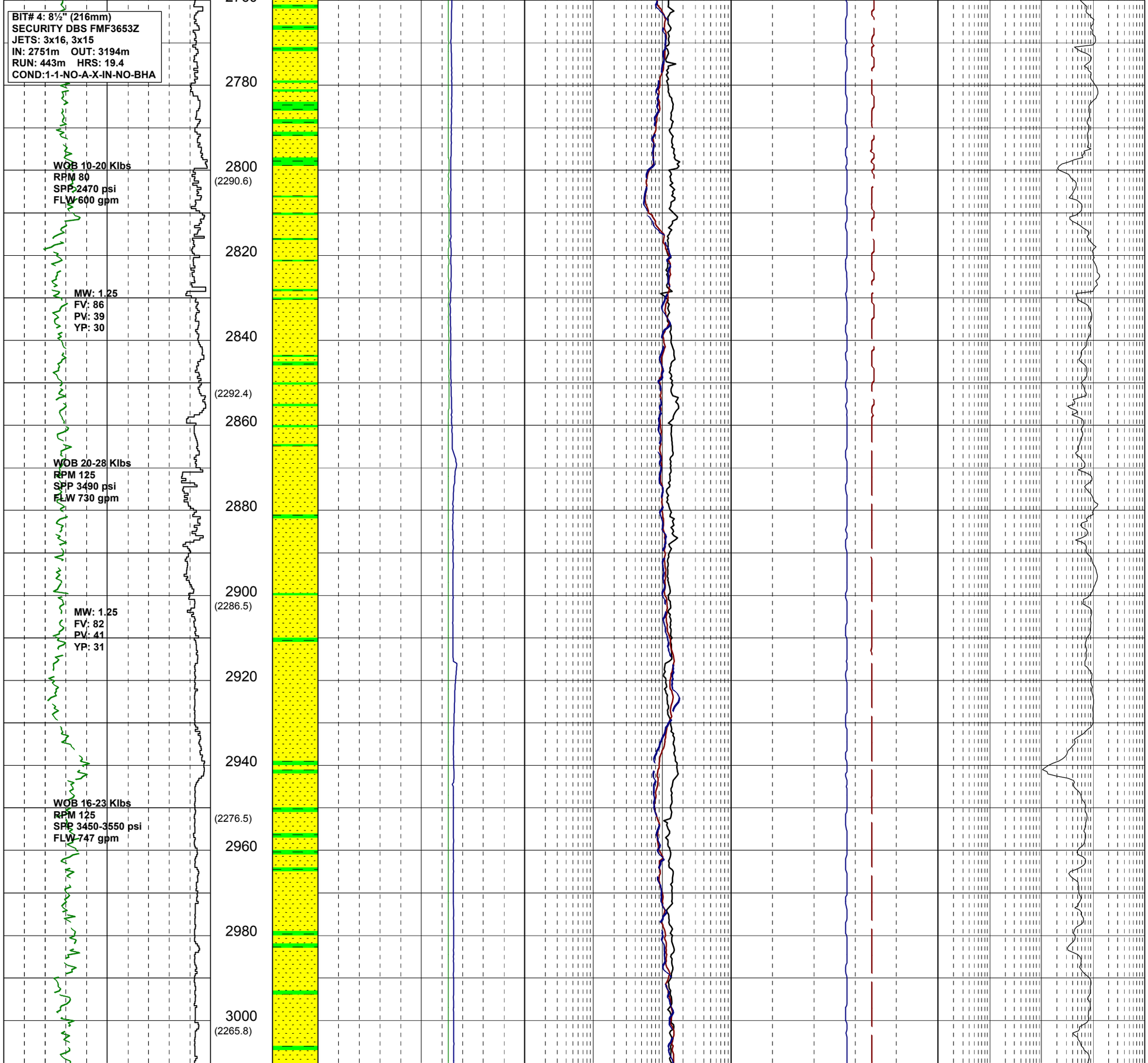

1520
1540
WOB:25 Klbs
RPM:147
SPP:3615 psi
FLW:1155 gpm
(1431.1)
1560
1580
1600
(1473.5)
1620
MW: 1.25
FV: 82
PV: 34
YP: 28
1640
(1516)
1660
MW: 1.25
FV: 76
PV: 43
YP: 29
1680
1700
(1558.7)
1720
1740
WOB:13-21 Klbs
RPM:170
SPP:3770-3800 psi
FLW:1050-1150 gpm
(1601.1)
1760

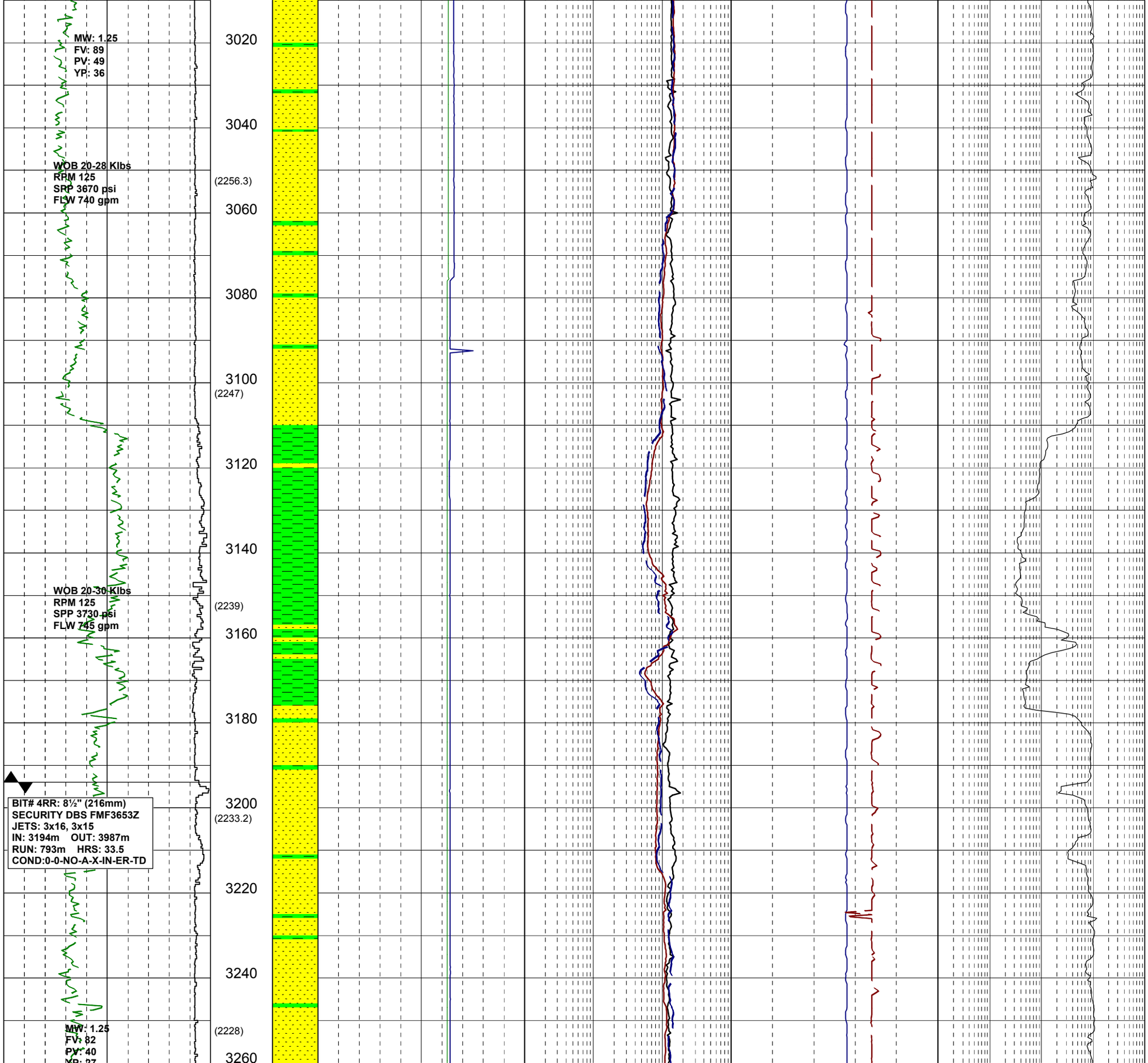

1780
1800
(1643.5)
1820
1840
WOB:13-21 Klbs
RPM:170
SPP:3770-3800 psi
FLW:1050-1150 gpm
(1685.8)
1860
1880
1900
(1728.1)
1920
1940
WOB:19-26 Klbs
RPM:160-176
SPP:3820-3825 psi
FLW:1156-1167 gpm
(1770.7)
1960
1980
2000
(1813.1)

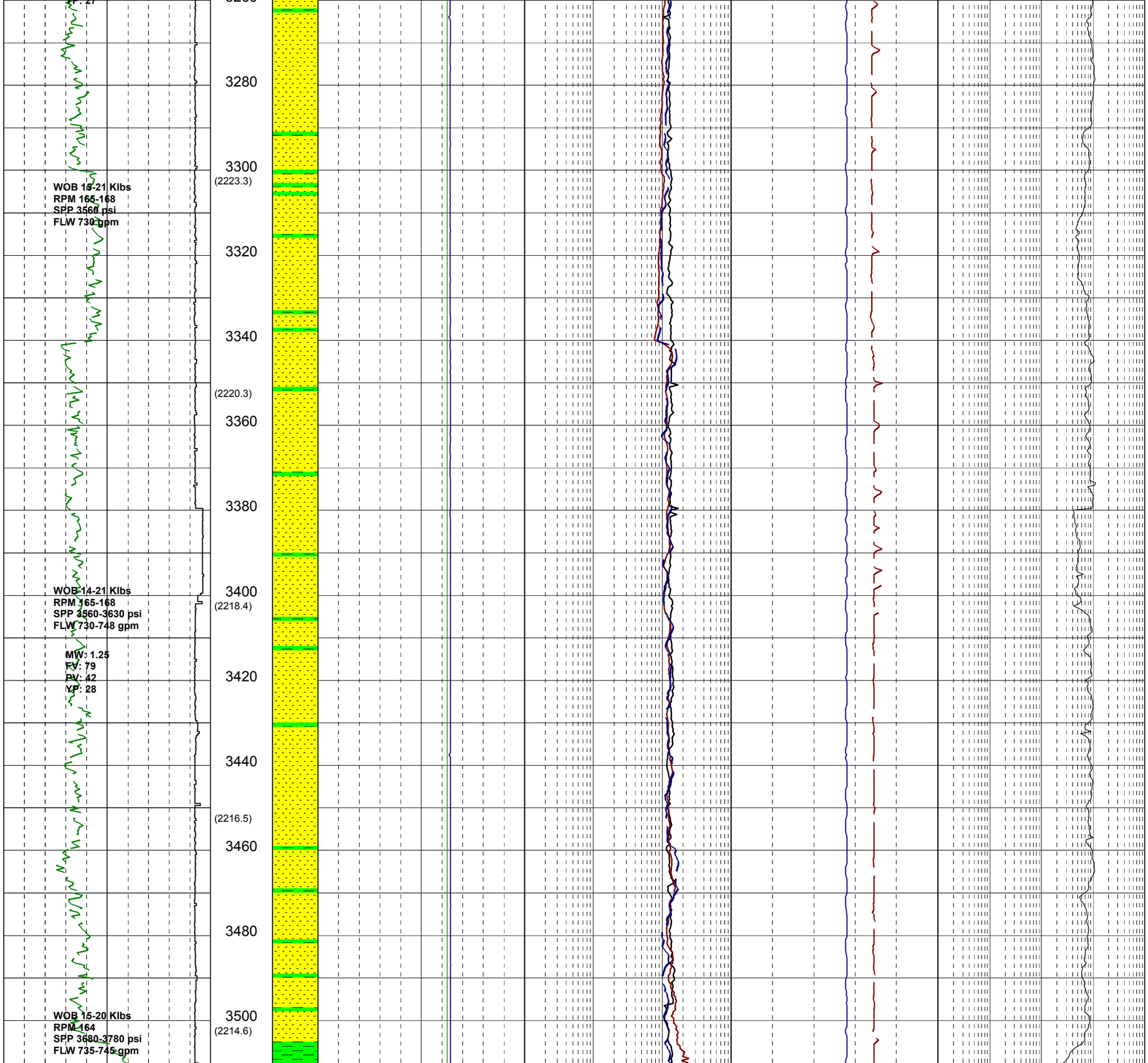

2020
2040
WOB:15-20 Klbs
RPM:118-120
SPP:3324-3328 psi
FLW:1026-1030 gpm
(1855.3)
2060
15-08-2006
2080
MW: 1.25
FV: 75
PV: 46
YP: 28
2100
(1897.1)
2120
2140
WOB:16-20 Klbs
RPM:120-168
SPP:3350-4045 psi
FLW:1050-1150 gpm
(1938)
2160
2180
2200
(1978.1)
2220
2240
WOB:16-25 Klbs
RPM:120-168
SPP:3350-4100 psi
FLW:1050-1167gpm
(2017.5)
2260

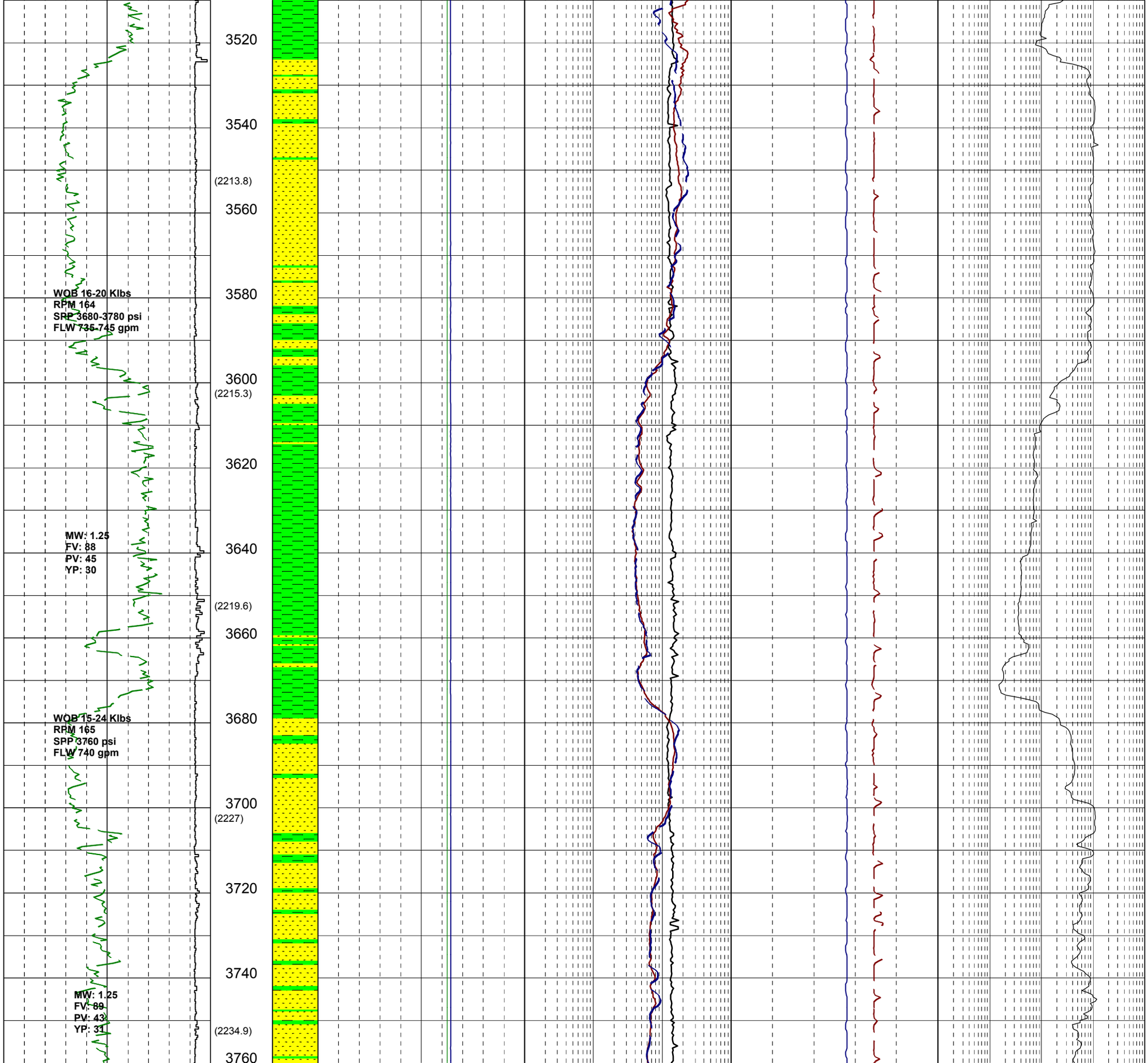

2280
2300
(2054.8)
2320
2340
WOB:16-25 Klbs
RPM:135
SPP:4125 psi
FLW:1165 gpm
(2089.9)
2360
2380
MW: 1.25
FV: 77
PV: 46
YP: 30
2400
(2122.6)
2420
2440
WOB:14-25 Klbs
RPM:135
SPP:3200 psi
FLW:1160 gpm
(2152.4)
2460
2480
2500
(2180.9)

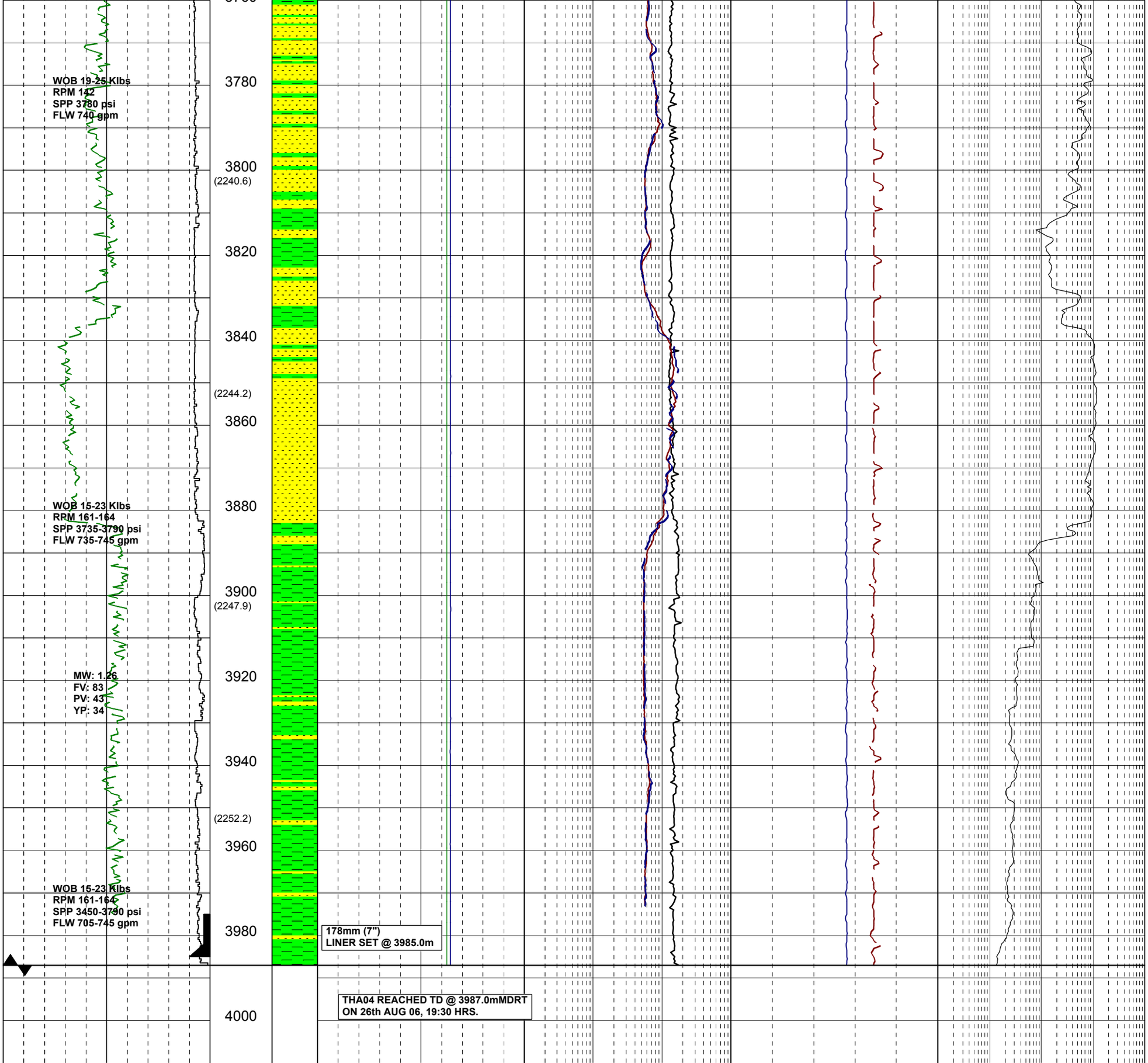

2520
2540
WOB:13-36 Klbs
RPM:112-130
SPP:3558-4200 psi
FLW:1050-1143 gpm
(2207.8)
2560
2580
2600
(2230.9)
MW: 1.25
FV: 80
PV: 43
YP: 32
2620
2640
WOB:15-20 Klbs
RPM:130
SPP:4150 psi
FLW:1150 gpm
(2251.1)
2660
2680
2700
(2267.6)
2720
WOB:15-20 Klbs
RPM:130
SPP:4150 psi
FLW:1150 gpm
2740
244mm (9.625")
CASING SET @ 2742.8m
(2281.7)
2760
FIT @ 2754m, EMW= 2.00sg


BIT# 4: 8½" (216mm)
SECURITY DBS FMF3653Z
JETS: 3x16, 3x15
IN: 2751m OUT: 3194m
RUN: 443m HRS: 19.4
COND:1-1-NO-A-X-IN-NO-BHA
2780
WOB 10-20 Klbs
RPM 80
SPP 2470 psi
FLW 600 gpm
2800
(2290.6)
2820
MW: 1.25
FV: 86
PV: 39
YP: 30
2840
(2292.4)
2860
WOB 20-28 Klbs
RPM 125
SPP 3490 psi
FLW 730 gpm
2880
2900
(2286.5)
MW: 1.25
FV: 82
PV: 41
YP: 31
2920
2940
WOB 16-23 Klbs
RPM 125
SPP 3450-3550 psi
FLW 747 gpm
(2276.5)
2960
2980
3000
(2265.8)


MW: 1.25
FV: 89
PV: 49
YP: 36
WOB 20-28 Klbs
RPM 125
SPP 3670 psi
FLW 740 gpm
WOB 20-30 Klbs
RPM 125
SPP 3730 psi
FLW 745 gpm
BIT# 4RR: 8½" (216mm)
SECURITY DBS FMF3653Z
JETS: 3x16, 3x15
IN: 3194m OUT: 3987m
RUN: 793m HRS: 33.5
COND:0-0-NO-A-X-IN-ER-TD
MW: 1.25
FV: 82
PV: 40
YP: 27
3020
3040
3060
3080
3100
3120
3140
3160
3180
3200
3220
3240
3260
(2256.3)
(2247)
(2239)
(2233.2)
(2228)


YP: 27
3280
3300
(2223.3)
WOB 15-21 Klbs
RPM 165-168
SPP 3560 psi
FLW 730 gpm
3320
3340
(2220.3)
3360
3380
3400
(2218.4)
WOB 14-21 Klbs
RPM 165-168
SPP 3560-3630 psi
FLW 730-748 gpm
MW: 1.25
FV: 79
PV: 42
YP: 28
3420
3440
(2216.5)
3460
3480
3500
(2214.6)
WOB 15-20 Klbs
RPM 164
SPP 3680-3780 psi
FLW 735-745 gpm


3520
3540
(2213.8)
3560
WOB 16-20 Klbs
RPM 164
SPP 3680-3780 psi
FLW 735-745 gpm
3580
3600
(2215.3)
3620
MW: 1.25
FV: 88
PV: 45
YP: 30
3640
(2219.6)
3660
WOB 15-24 Klbs
RPM 165
SPP 3760 psi
FLW 740 gpm
3680
3700
(2227)
3720
3740
MW: 1.25
FV: 89
PV: 43
YP: 31
(2234.9)
3760


WOB 19-25 Klbs
RPM 142
SPP 3780 psi
FLW 740 gpm
3780
3800
(2240.6)
3820
3840
(2244.2)
3860
WOB 15-23 Klbs
RPM 161-164
SPP 3735-3790 psi
FLW 735-745 gpm
3880
3900
(2247.9)
MW: 1.26
FV: 83
PV: 43
YP: 34
3920
3940
(2252.2)
3960
WOB 15-23 Klbs
RPM 161-164
SPP 3450-3790 psi
FLW 705-745 gpm
3980
178mm (7")
LINER SET @ 3985.0m
THA04 REACHED TD @ 3987.0mMDRT
ON 26th AUG 06, 19:30 HRS.
4000

4020

Enclosure E

GAS EVALUATION LOG

1 : 500

GAS LOG

WOODSIDE

Geoservices

FROM :(m) 610 TO :(m) 4010 SCALE : 1/ 500

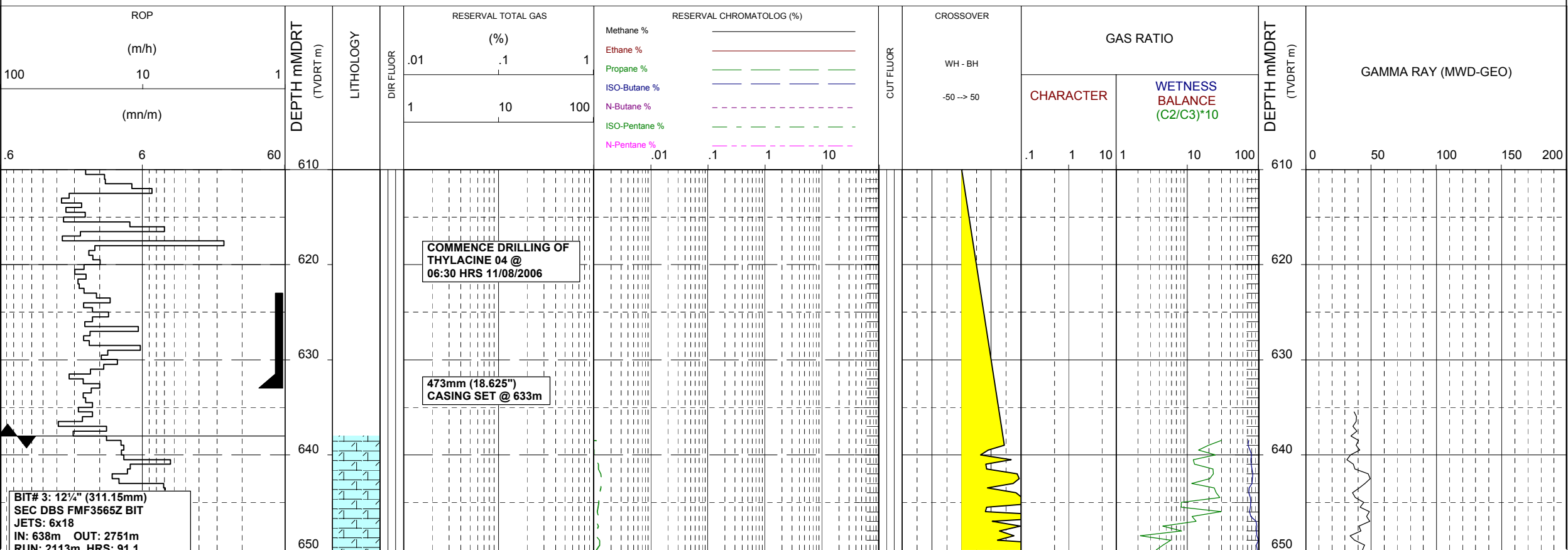
Well name	: THA04	Location	: 39° 14' 14.56" S 142° 54' 07.58" E	Rig Name	: Maersk Guardian
Client name	: Woodside Energy LTD	Country	: AUSTRALIA	Rig Type	: Jack-up
RT-LAT (m)	: 50.5	Final TD (m)	: 3987.0	X coordinate (m)	: 5655156.8 N
RT-Seabed (m)	: 149.8	TVD (mSSLAT)	: 2203.3	Y Coordinate (m)	: 664161.0 E

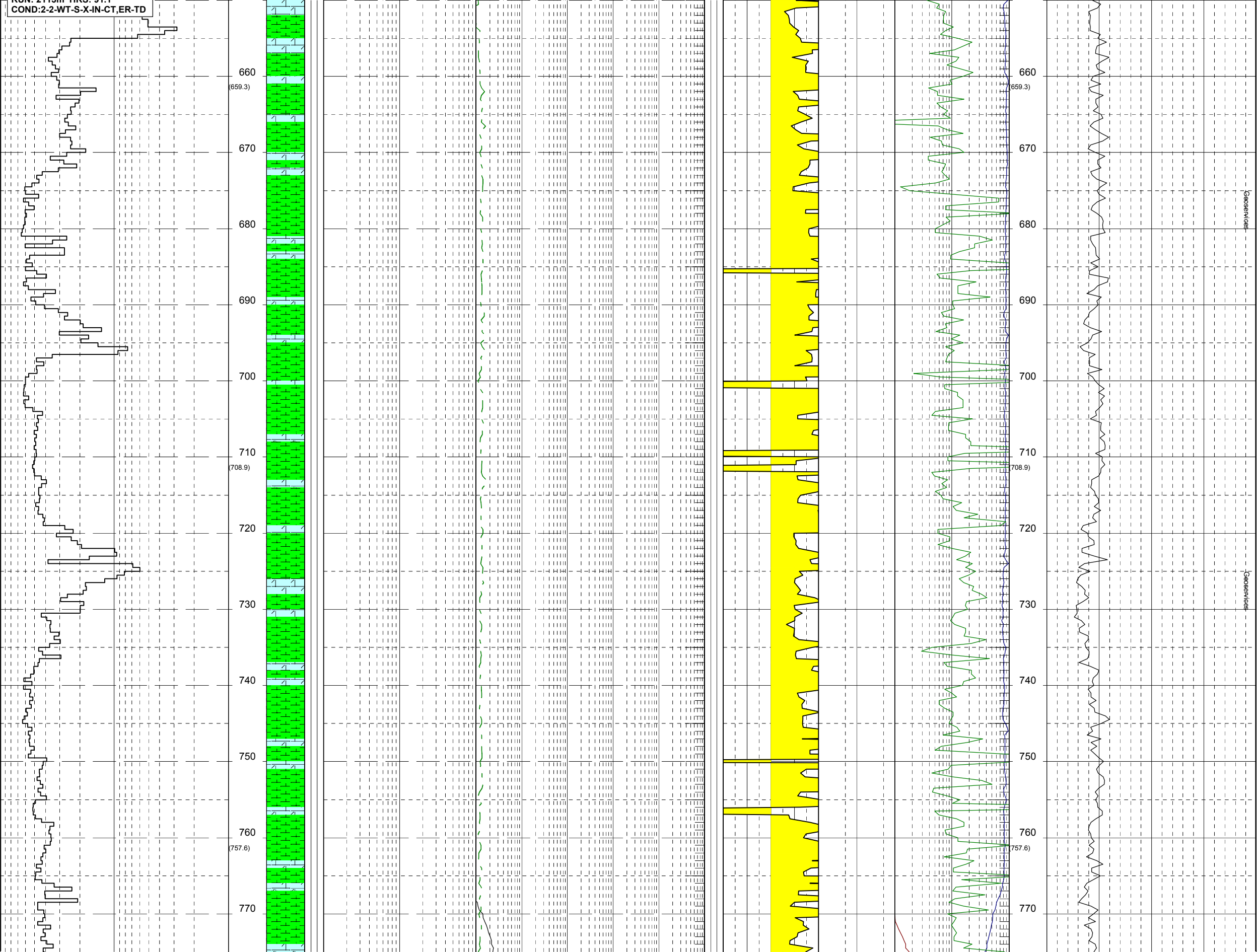
Limestone, Coal, Fine Sandstone, Siltstone, Carb. Siltstone, Calc. Siltstone, Calcisiltite, Calcilutite, Calcarenite

Gypsum, Marl, Dolomite, Claystone, Calc Claystone

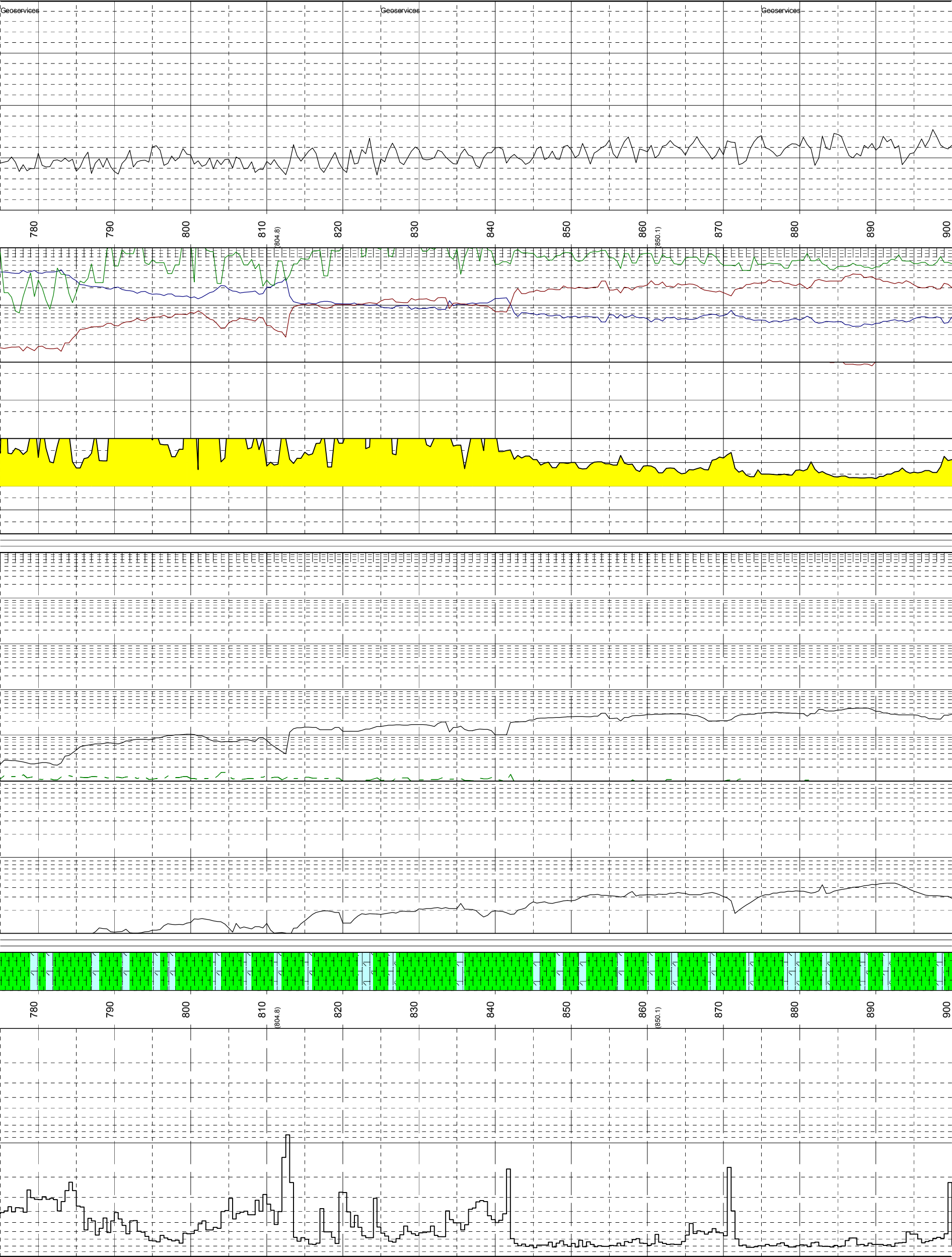
Lithic frag, Foraminifera, Pyrite, Glauconite, Mica, Ferrous, Fossils, Calcareous, Chert

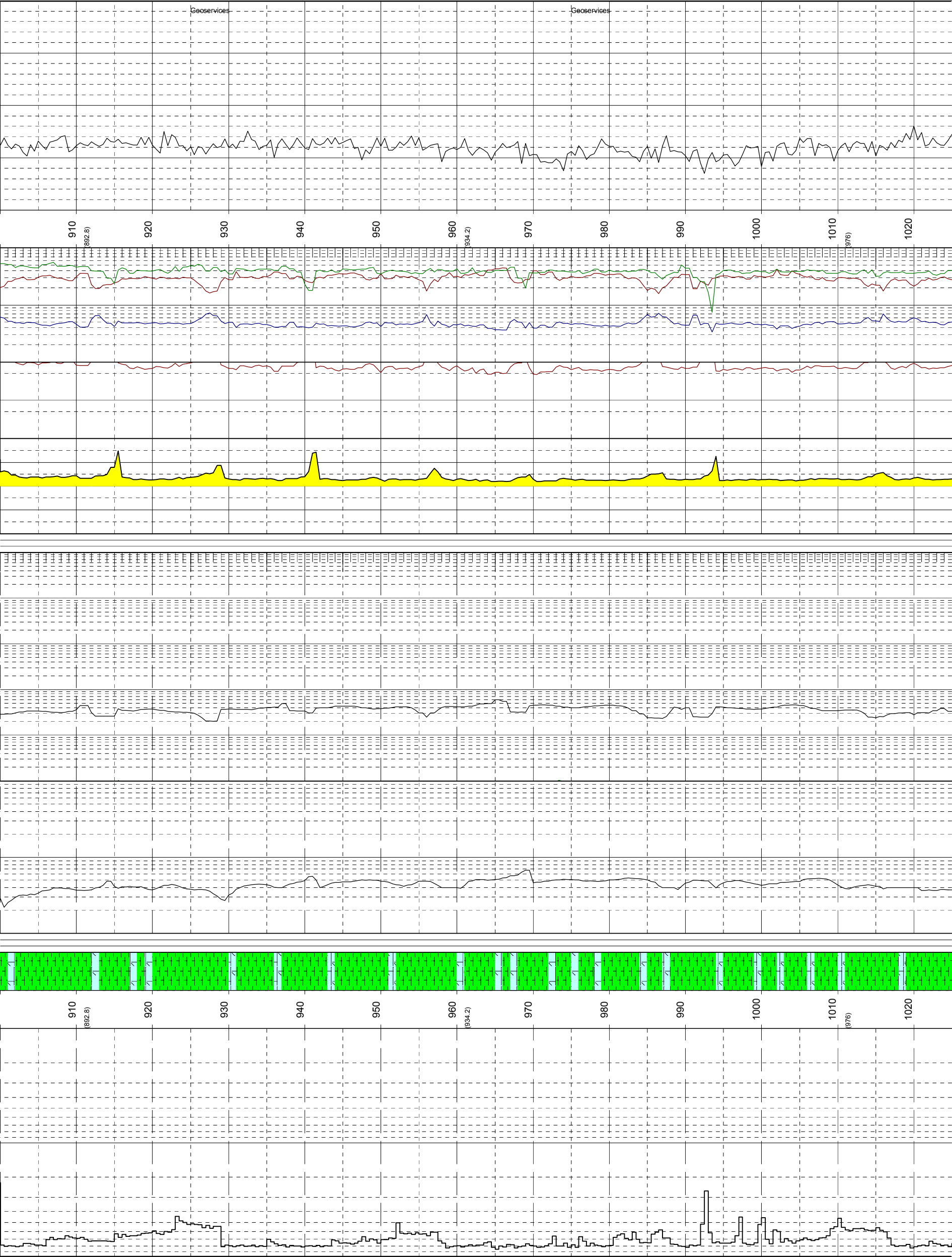
Deviation Survey, Casing Shoe, Wiper Trip, SWC (rec), SWC (unrec), Core, Bit Trip

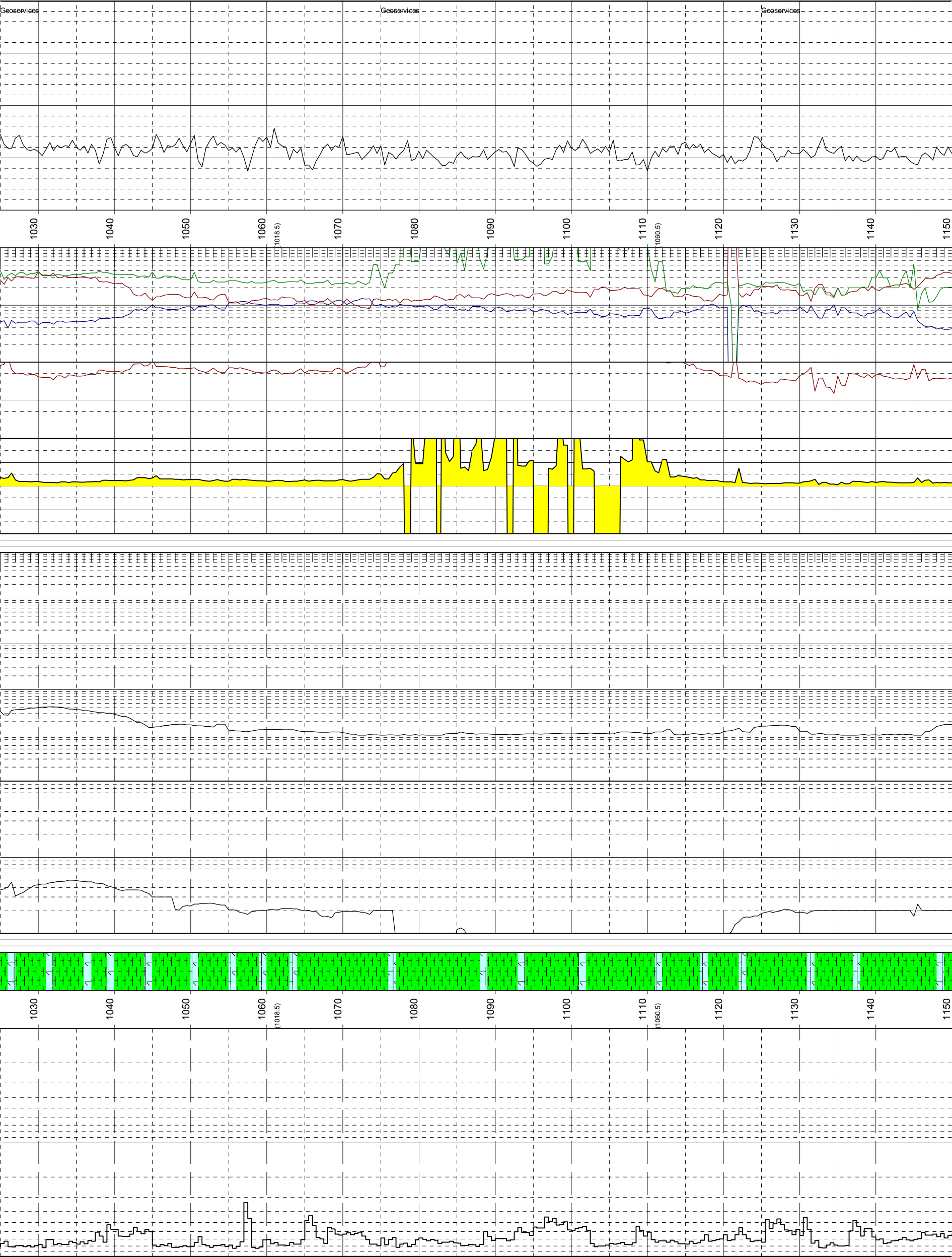


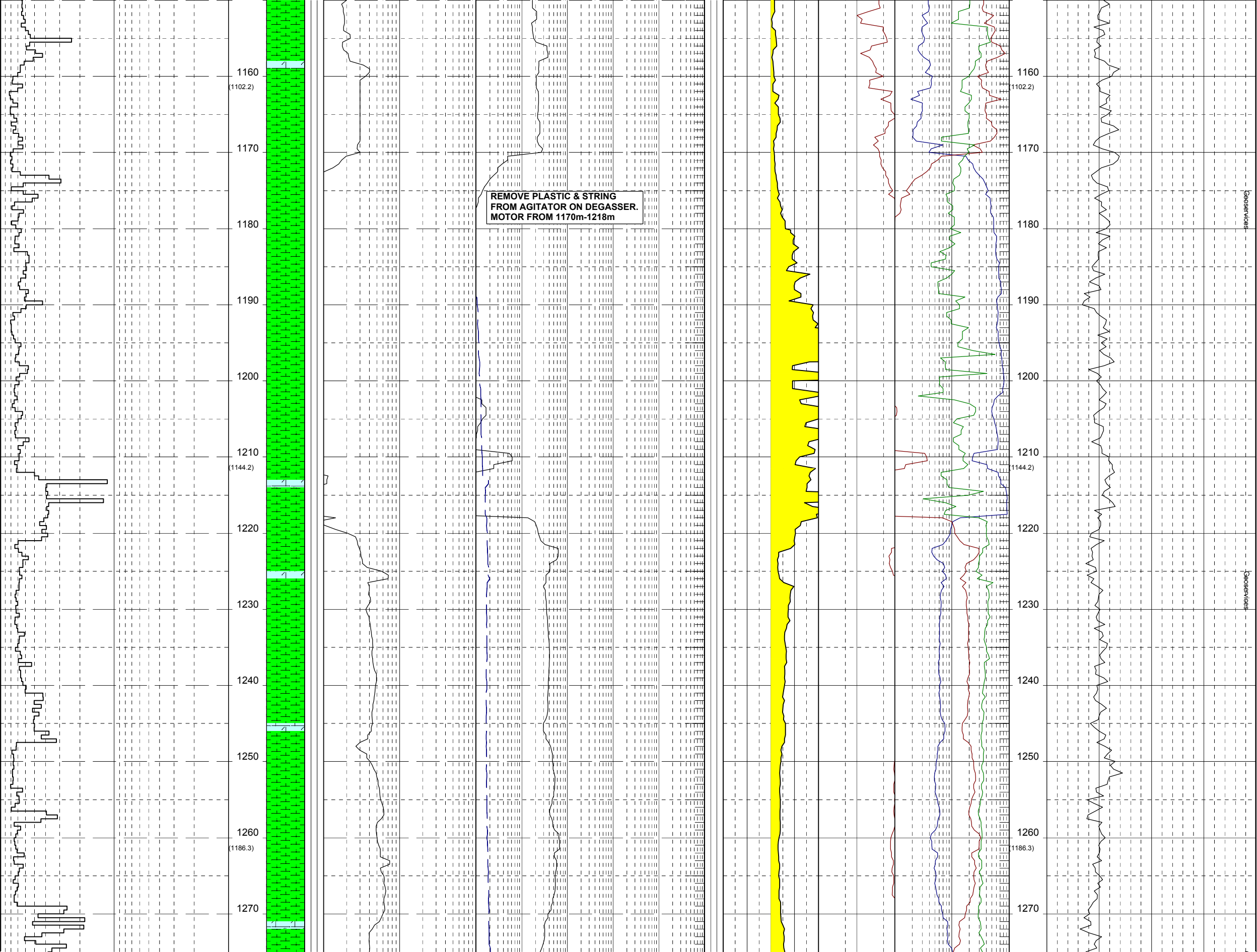


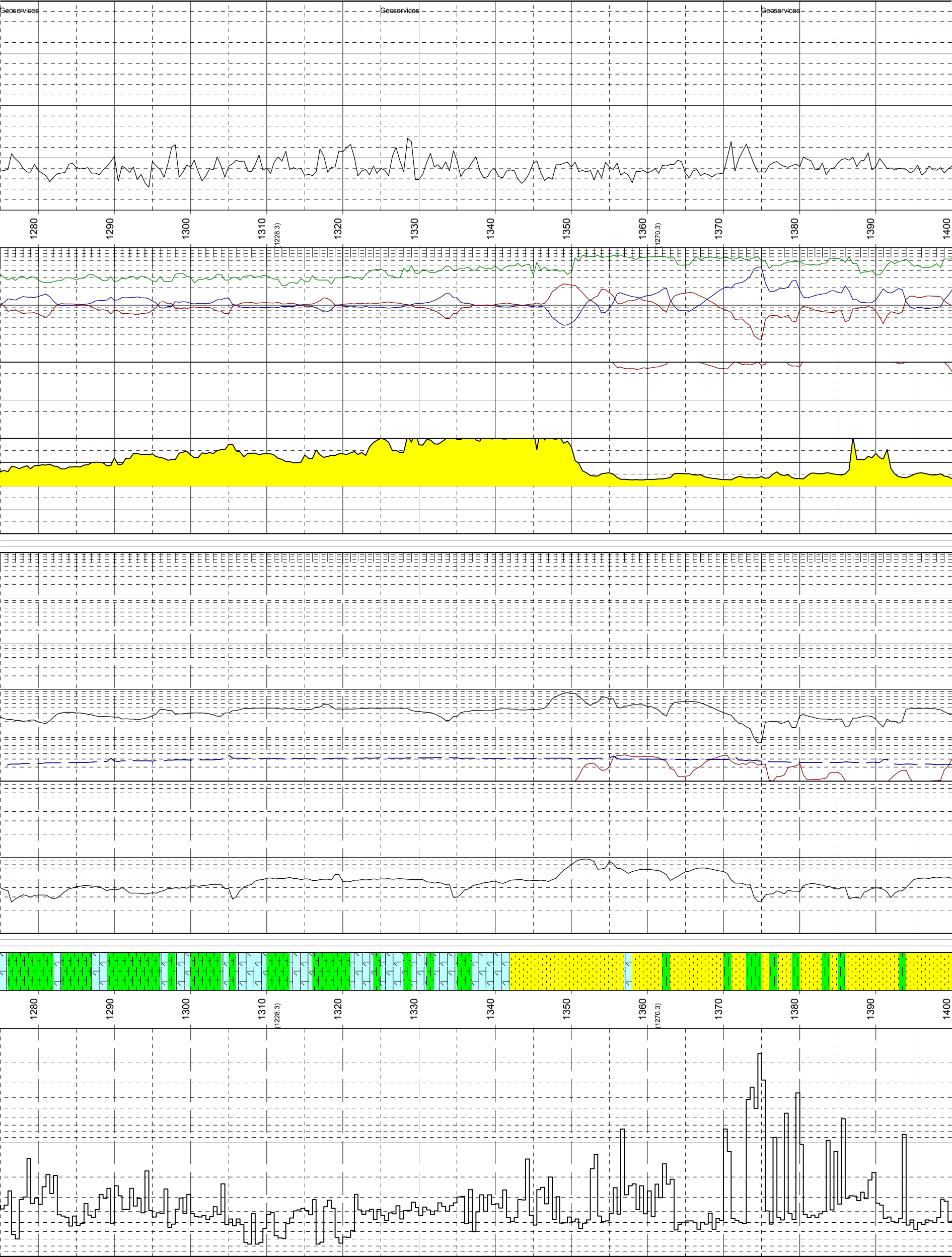
COND:2-2-WT-S-X-IN-CT,ER-TD
660
(659.3)
670
680
690
700
710
(708.9)
720
730
740
750
760
(757.6)
770
Geoservices

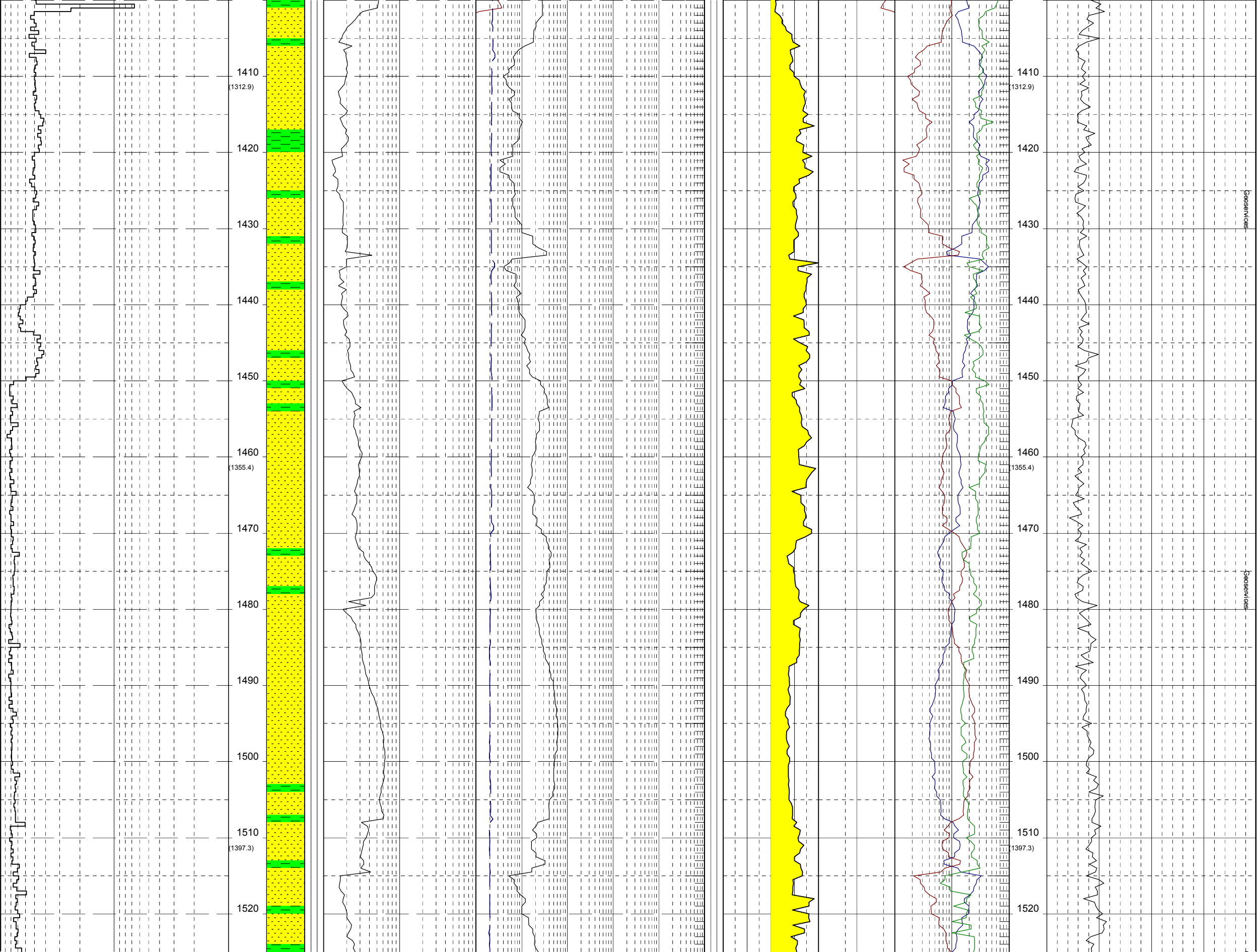

Geoservices
Geoservices
Geoservices
780
790
800
810
(804.8)
820
830
840
850
860
(850.1)
870
880
890
900
780
790
800
810
(804.8)
820
830
840
850
860
(850.1)
870
880
890
900

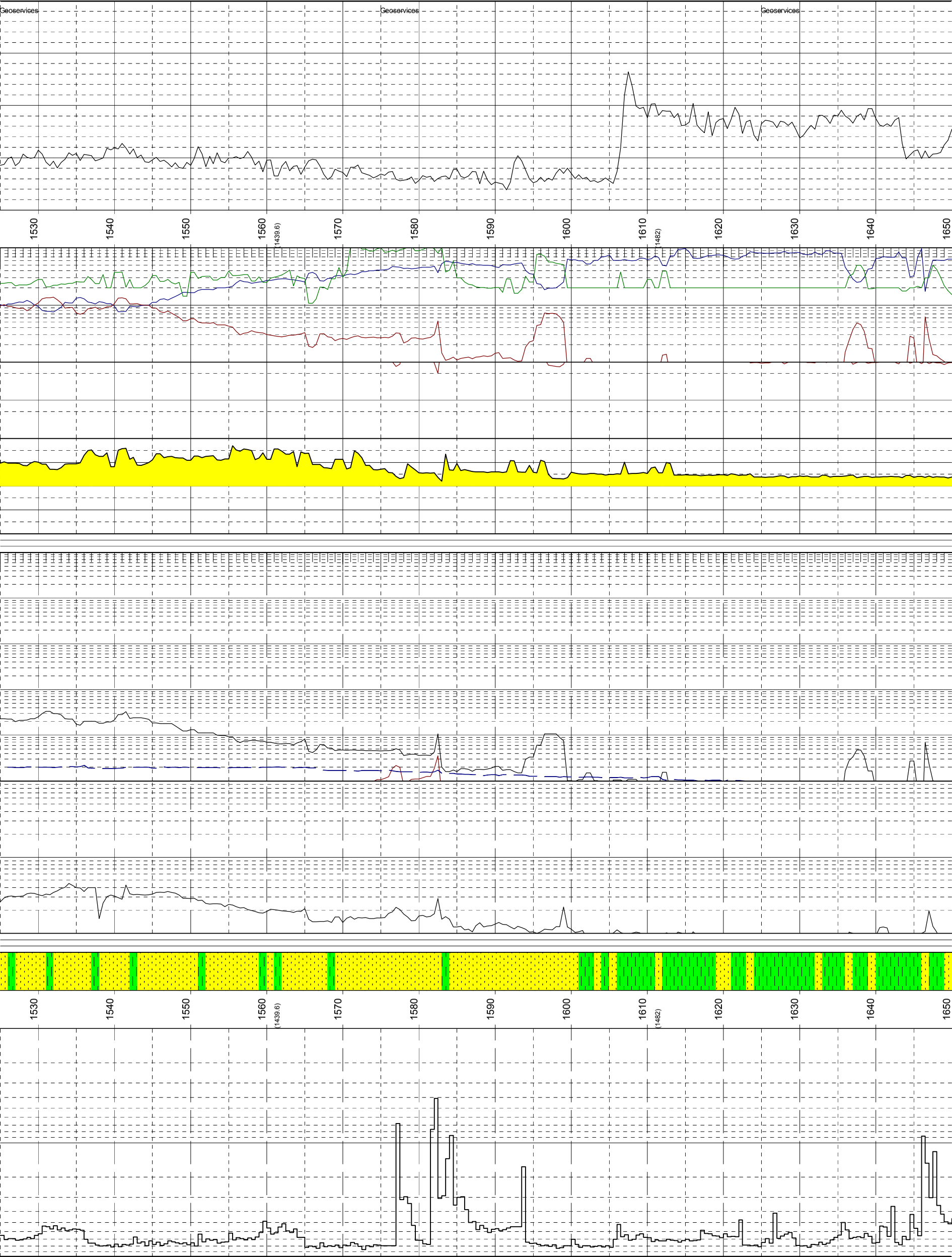

Geoservices
Geoservices
910
(892.8)
920
930
940
950
960
(934.2)
970
980
990
1000
1010
(976)
1020
910
(892.8)
920
930
940
950
960
(934.2)
970
980
990
1000
1010
(976)
1020

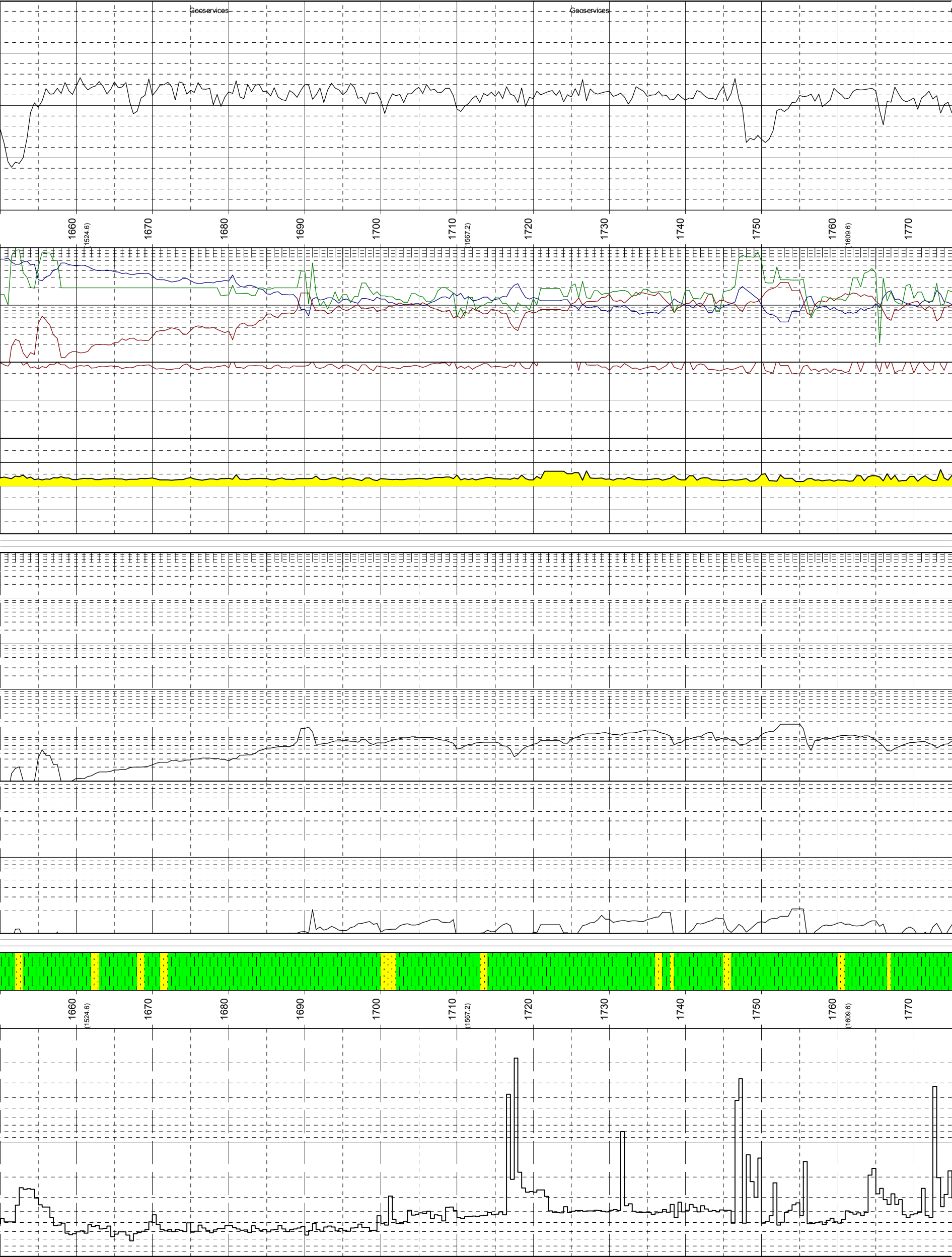

Geoservices
Geoservices
Geoservices
1030
1040
1050
1060
(1018.5)
1070
1080
1090
1100
1110
(1060.5)
1120
1130
1140
1150
1030
1040
1050
1060
(1018.5)
1070
1080
1090
1100
1110
(1060.5)
1120
1130
1140
1150

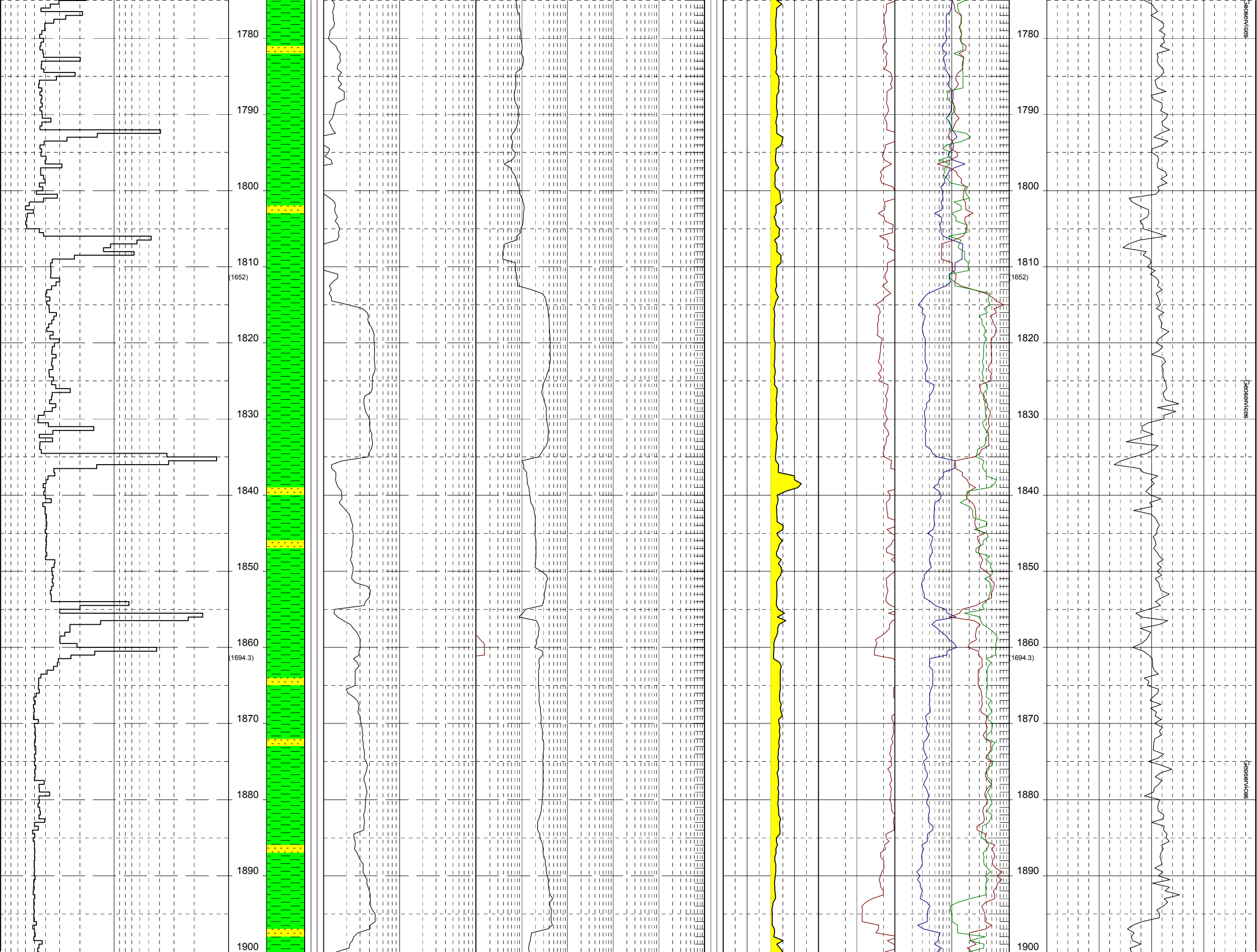

1160
(1102.2)
1170
1180
1190
1200
1210
(1144.2)
1220
1230
1240
1250
1260
(1186.3)
1270
REMOVE PLASTIC & STRING
FROM AGITATOR ON DEGASSER.
MOTOR FROM 1170m-1218m
Geoservices
Geoservices

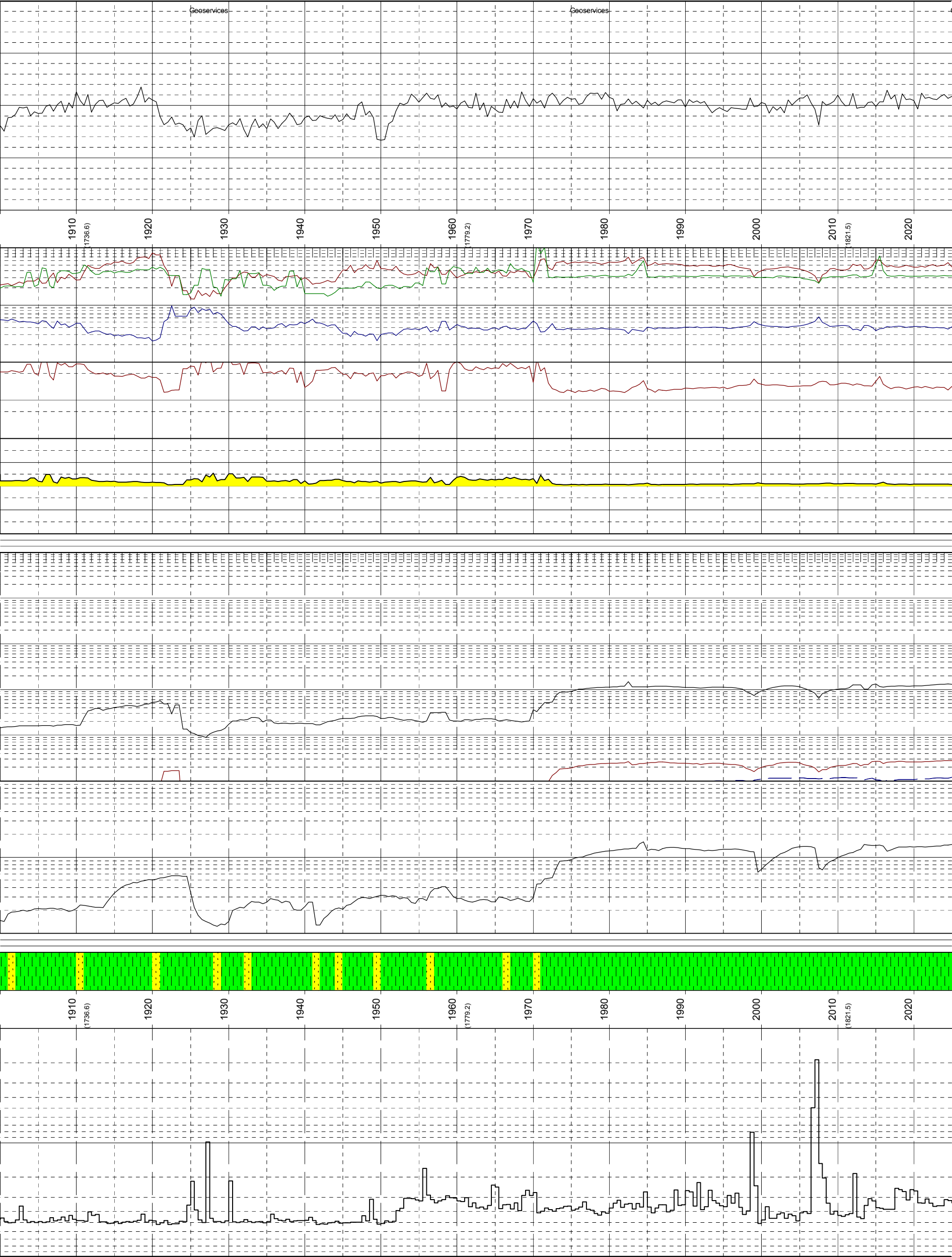

Geoservices
Geoservices
Geoservices
1280
1290
1300
1310
(1228.3)
1320
1330
1340
1350
1360
(1270.3)
1370
1380
1390
1400
1280
1290
1300
1310
(1228.3)
1320
1330
1340
1350
1360
(1270.3)
1370
1380
1390
1400

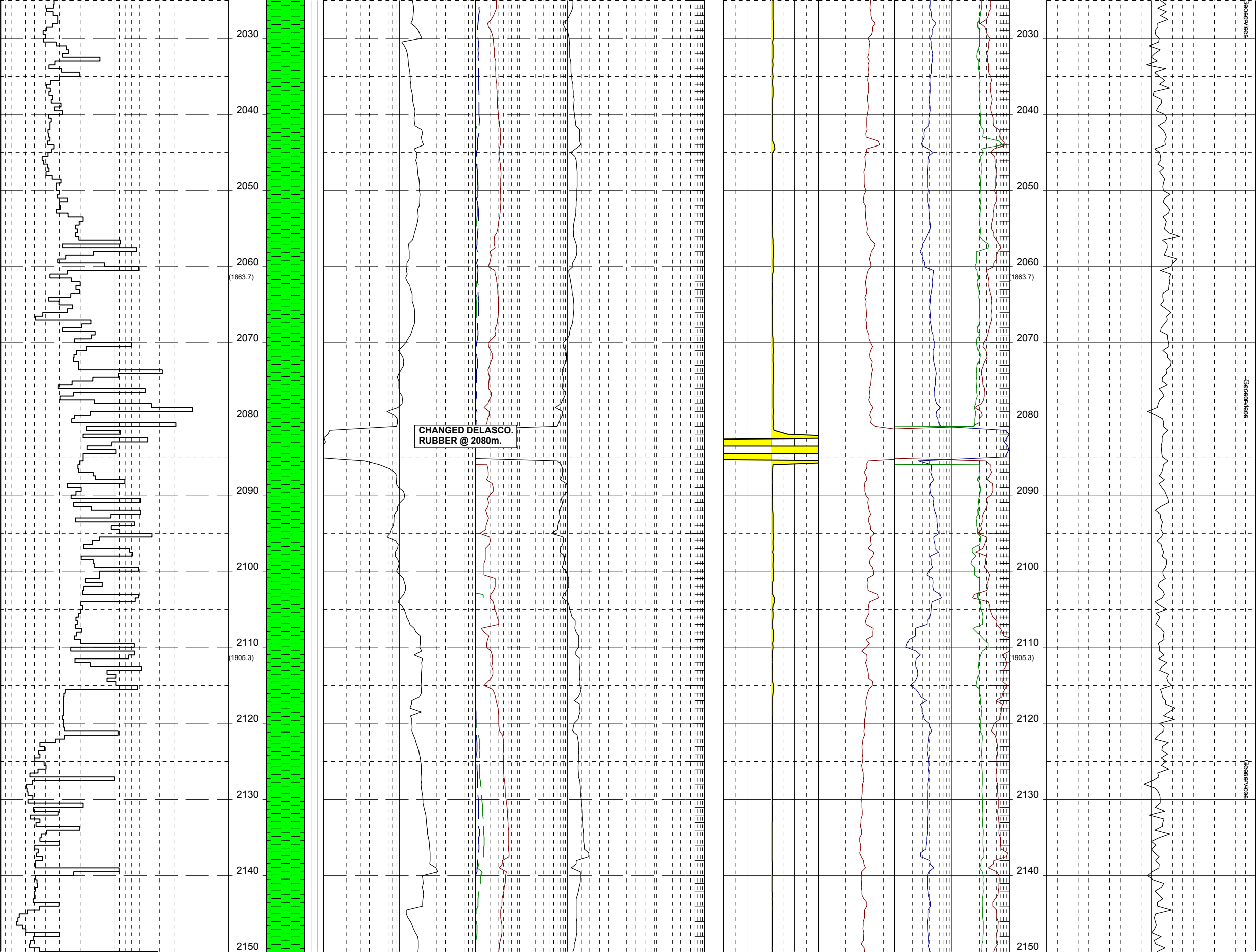

1410
(1312.9)
1420
1430
1440
1450
1460
(1355.4)
1470
1480
1490
1500
1510
(1397.3)
1520
geoservices

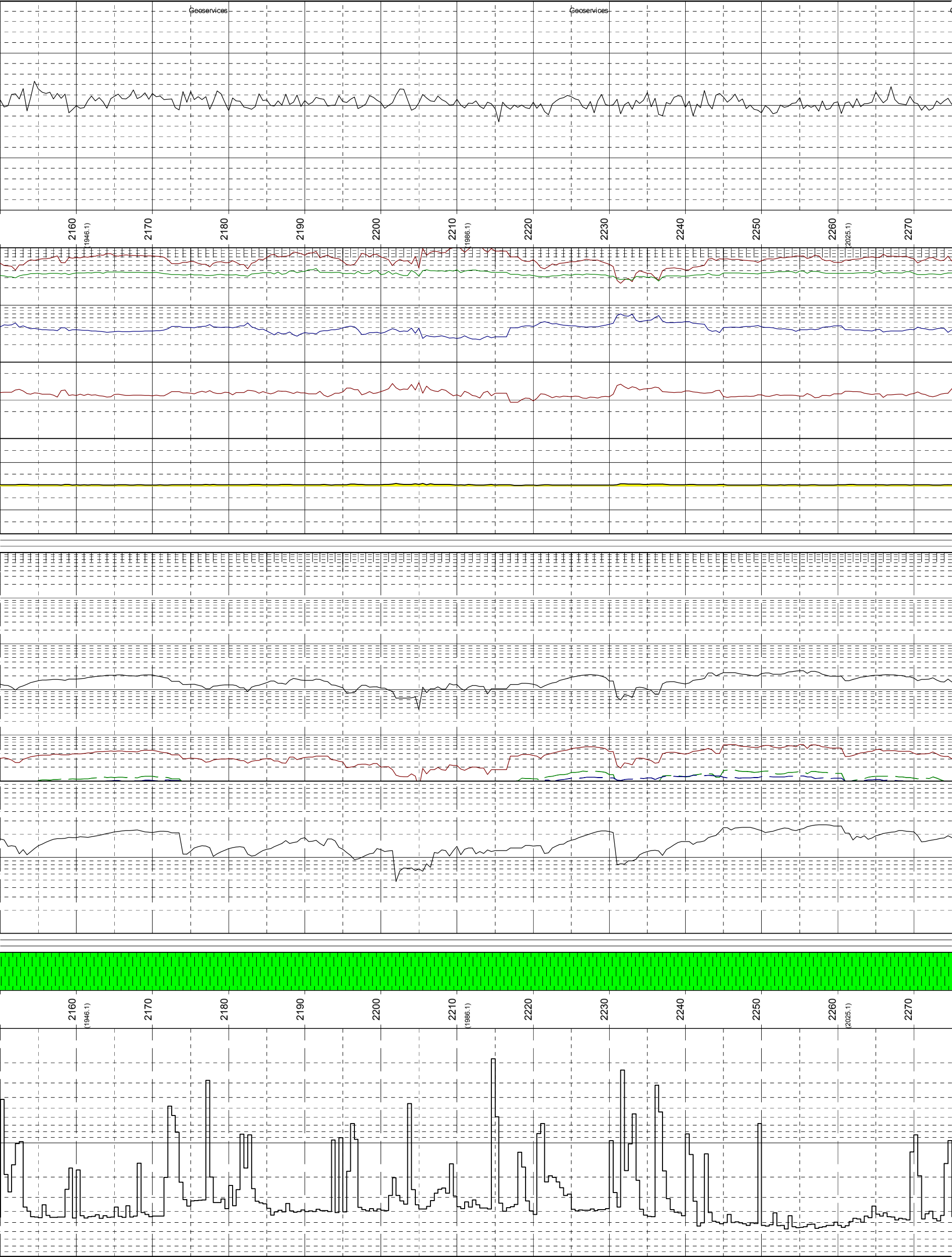

Geoservices
Geoservices
Geoservices
1530
1540
1550
1560
(1439.6)
1570
1580
1590
1600
1610
(1482)
1620
1630
1640
1650
1530
1540
1550
1560
(1439.6)
1570
1580
1590
1600
1610
(1482)
1620
1630
1640
1650

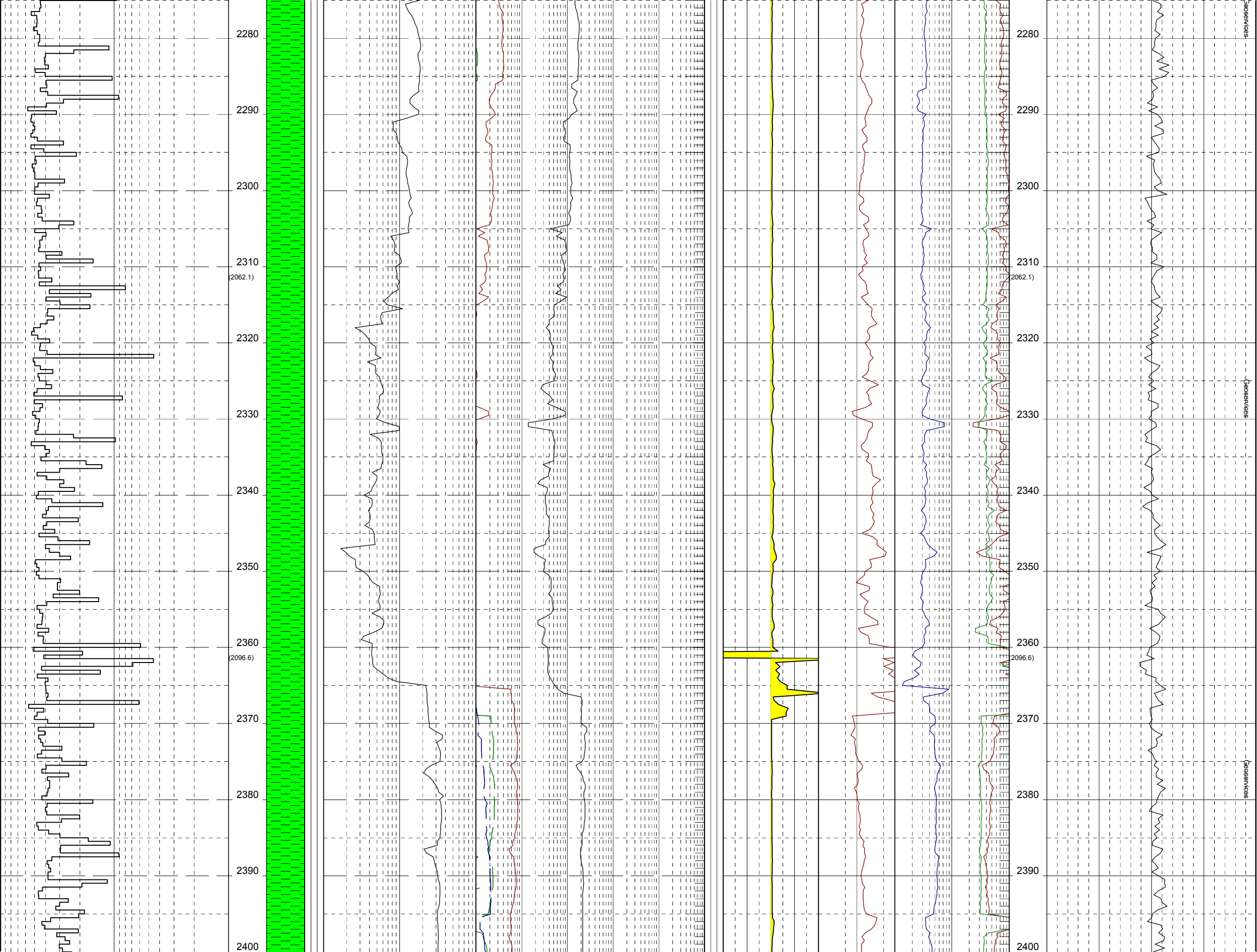

Geoservices
Geoservices
1660
(1524.6)
1670
1680
1690
1700
1710
(1567.2)
1720
1730
1740
1750
1760
(1609.6)
1770
1660
(1524.6)
1670
1680
1690
1700
1710
(1567.2)
1720
1730
1740
1750
1760
(1609.6)
1770

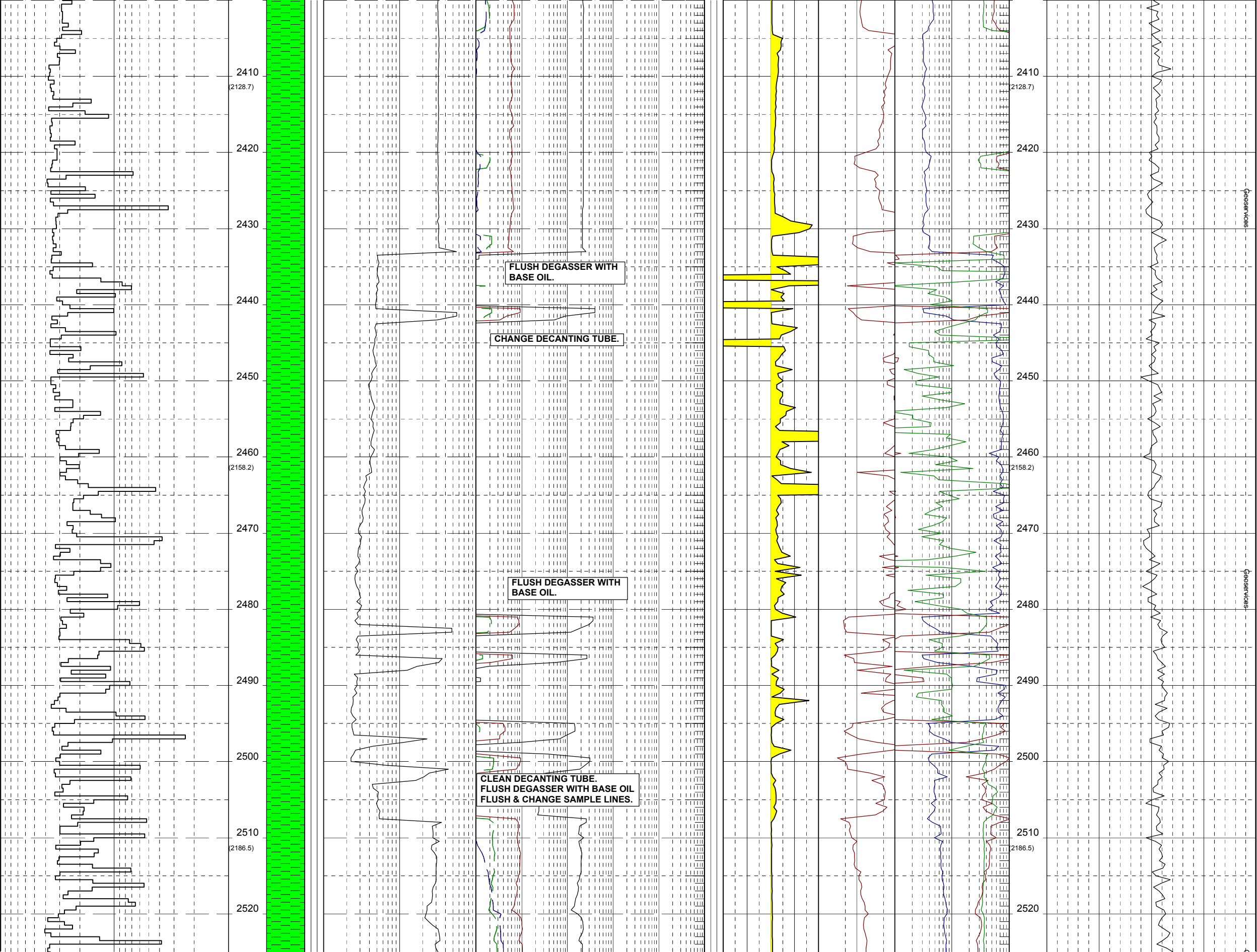

1780
1790
1800
1810
(1652)
1820
1830
1840
1850
1860
(1694.3)
1870
1880
1890
1900
Geoservices

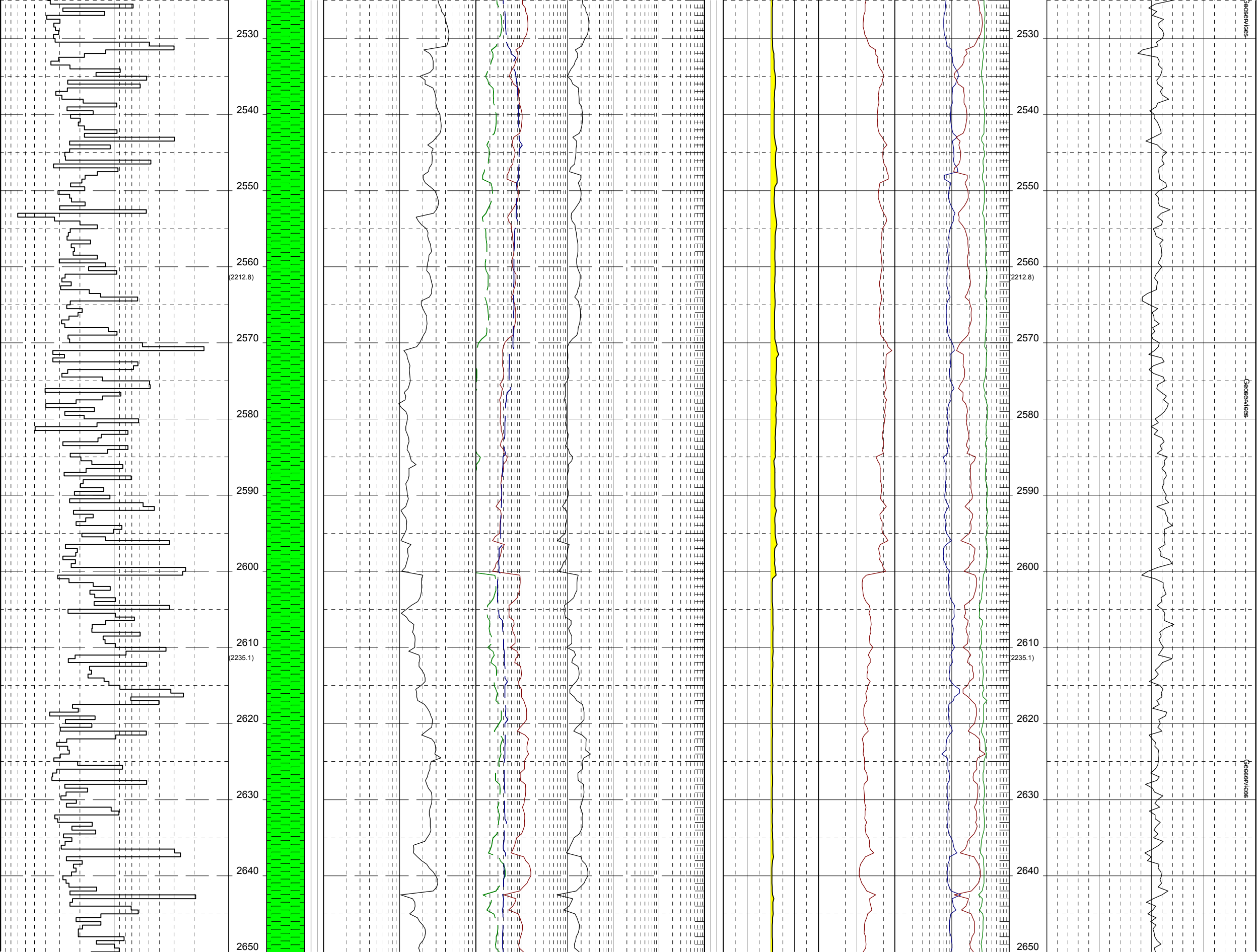

Geoservices
Geoservices
1910
(1736.6)
1920
1930
1940
1950
1960
(1779.2)
1970
1980
1990
2000
2010
(1821.5)
2020
1910
(1736.6)
1920
1930
1940
1950
1960
(1779.2)
1970
1980
1990
2000
2010
(1821.5)
2020

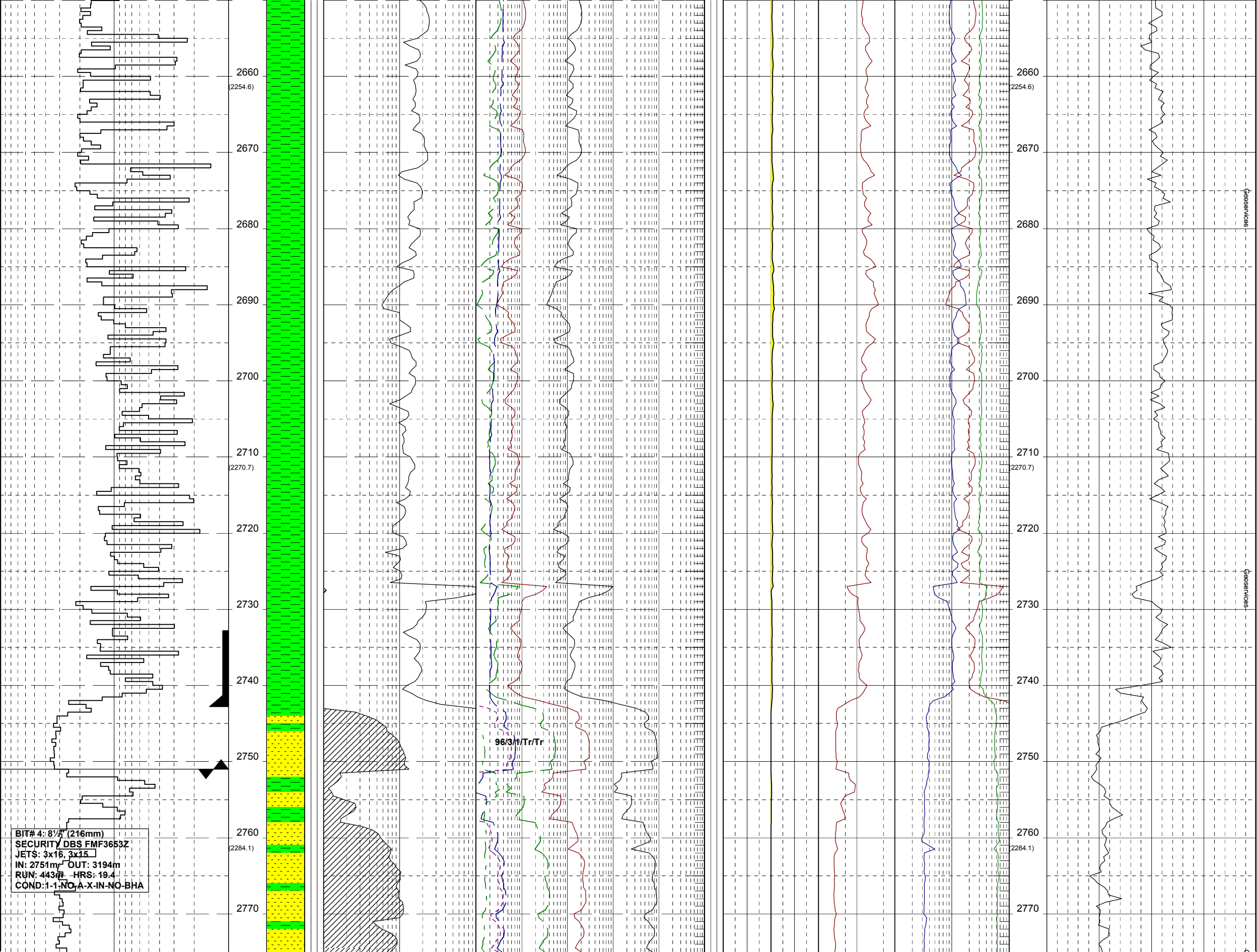

2030
2040
2050
2060
(1863.7)
2070
2080
2090
2100
2110
(1905.3)
2120
2130
2140
2150
CHANGED DELASCO.
RUBBER @ 2080m.
Geoservices

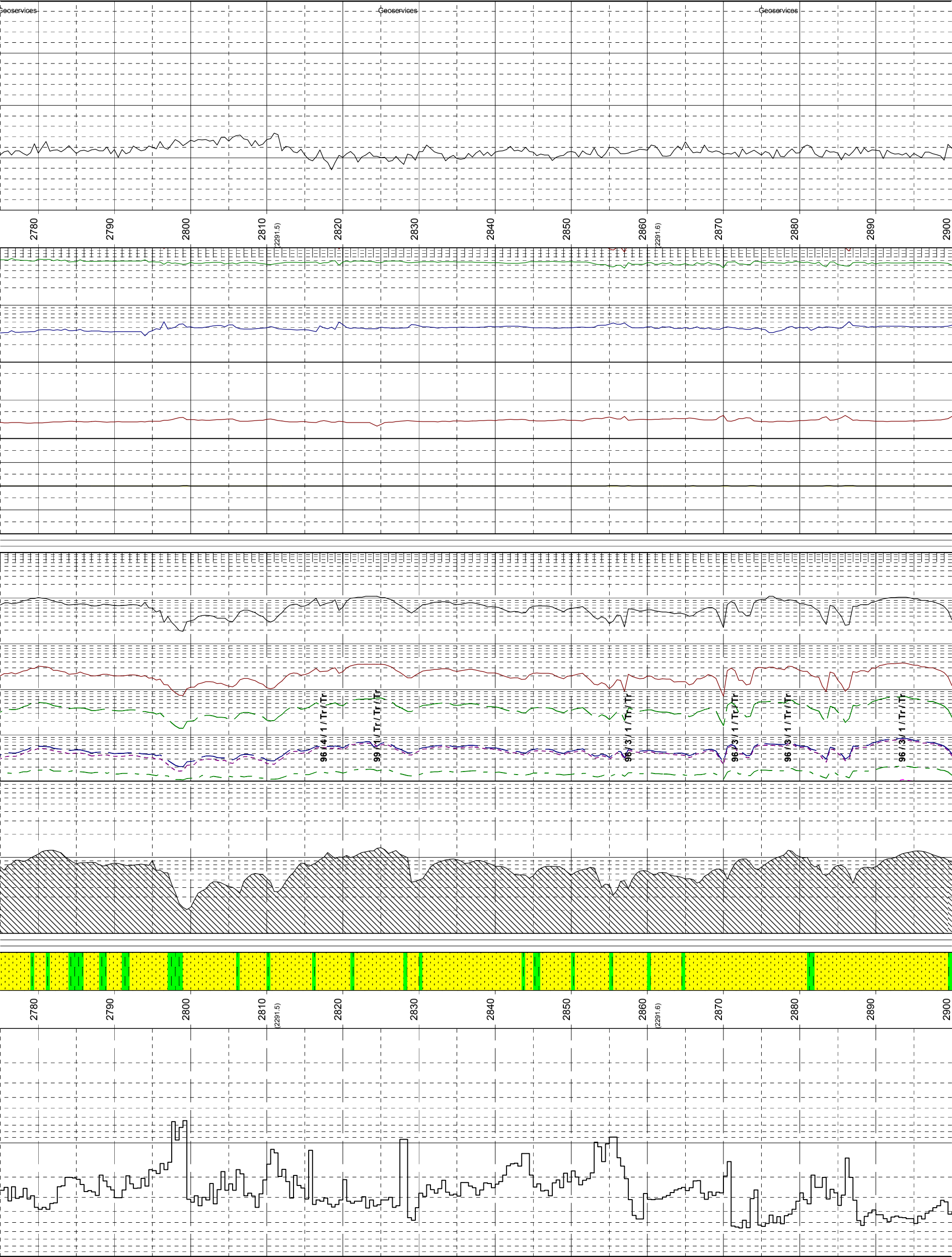

Geoservices
Geoservices
2160
(1946.1)
2170
2180
2190
2200
2210
(1986.1)
2220
2230
2240
2250
2260
(2025.1)
2270
2160
(1946.1)
2170
2180
2190
2200
2210
(1986.1)
2220
2230
2240
2250
2260
(2025.1)
2270

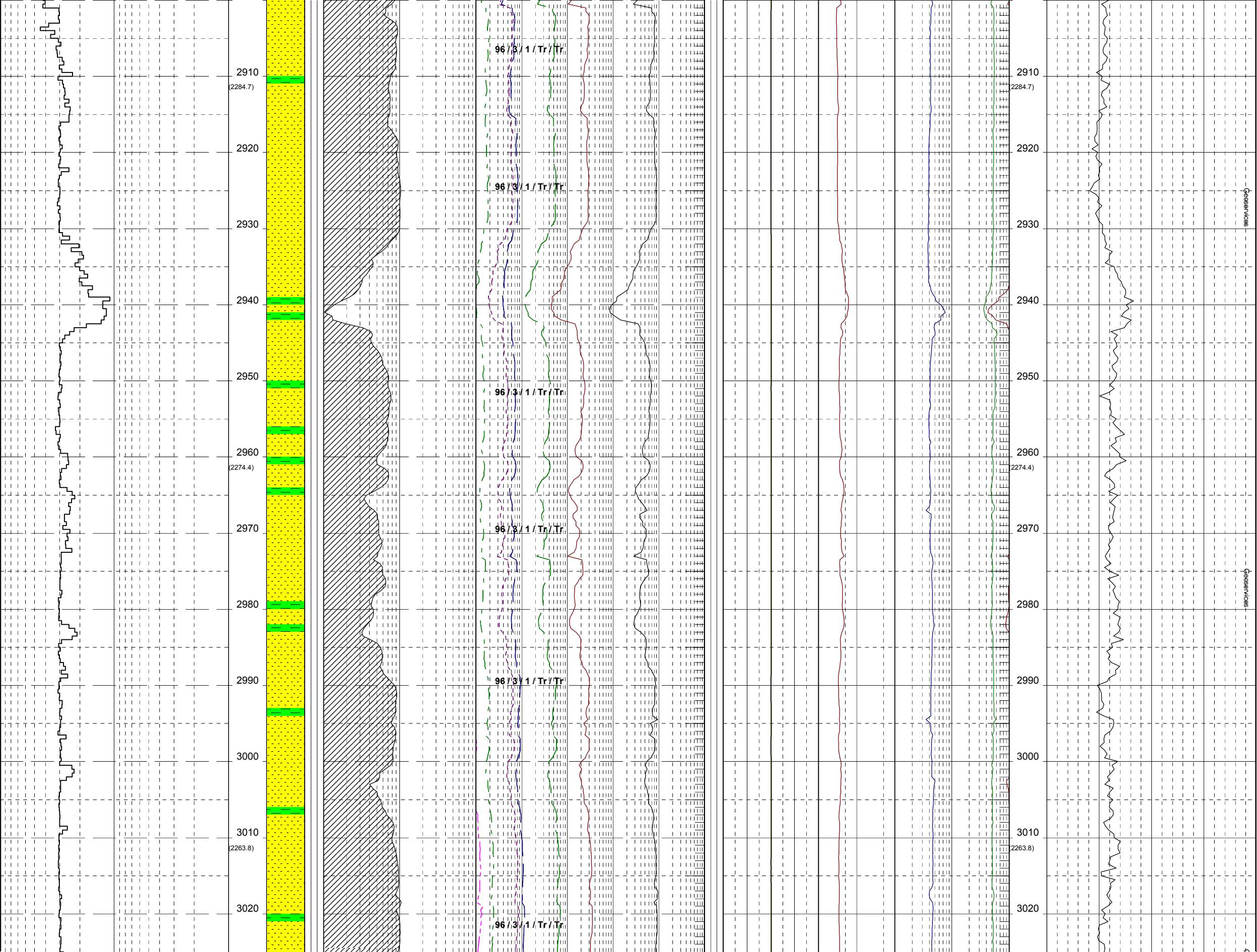

2280
2290
2300
2310
(2062.1)
2320
2330
2340
2350
2360
(2096.6)
2370
2380
2390
2400
Geoservices

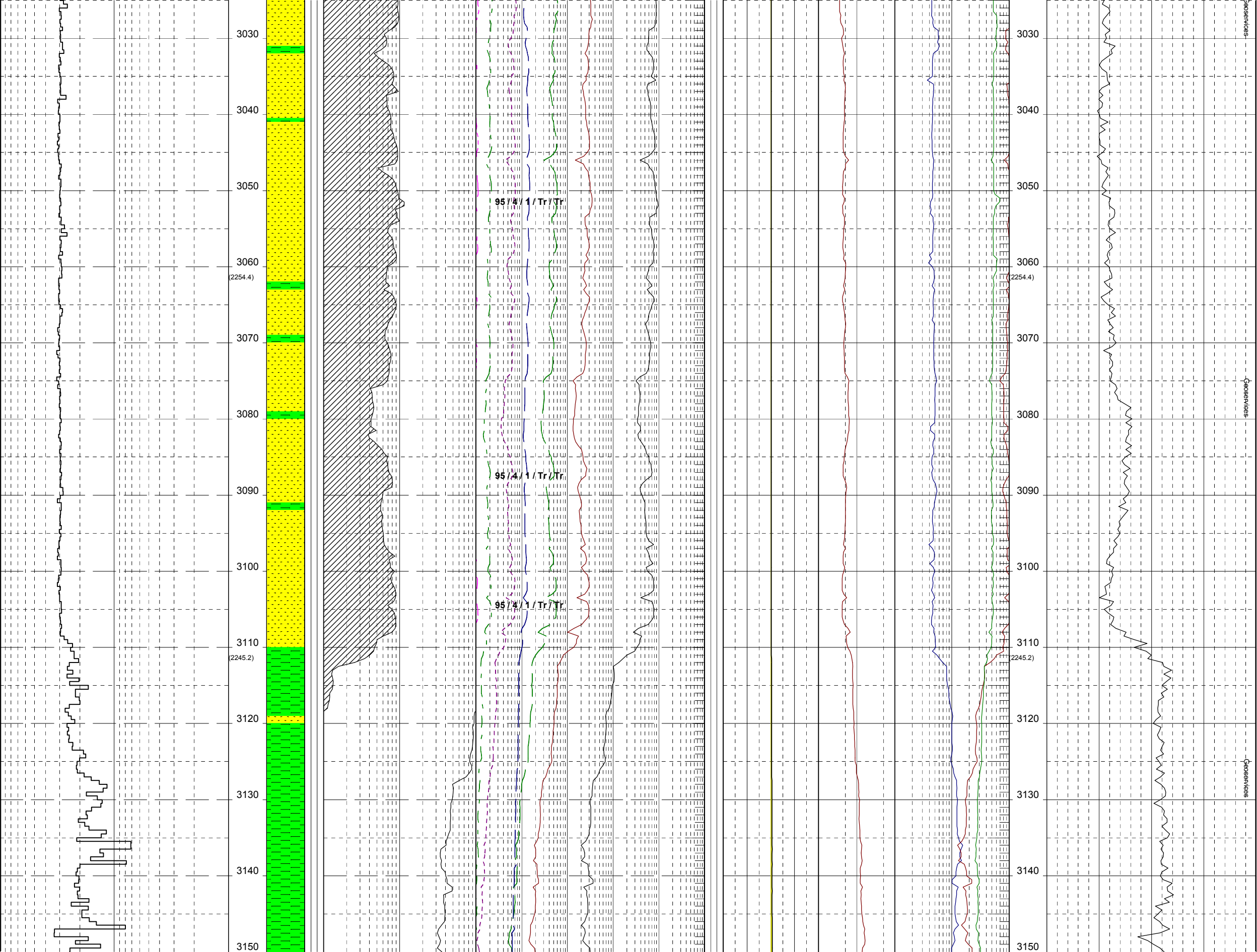

2410
(2128.7)
2420
2430
2440
2450
2460
(2158.2)
2470
2480
2490
2500
2510
(2186.5)
2520
FLUSH DEGASSER WITH BASE OIL.
CHANGE DECANTING TUBE.
FLUSH DEGASSER WITH BASE OIL.
CLEAN DECANTING TUBE.
FLUSH DEGASSER WITH BASE OIL
FLUSH & CHANGE SAMPLE LINES.
Geoservices
Geoservices


2530
2540
2550
2560
(2212.8)
2570
2580
2590
2600
2610
(2235.1)
2620
2630
2640
2650
Geoservices


2660
(2254.6)
2670
2680
2690
2700
2710
(2270.7)
2720
2730
2740
2750
2760
(2284.1)
2770
BIT# 4: 8½" (216mm)
SECURITY DBS FMF3653Z
JETS: 3x16, 3x15
IN: 2751m OUT: 3194m
RUN: 443m HRS: 19.4
COND:1-1-NO-A-X-IN-NO-BHA
96/3/1/Tr/Tr
Geoservices


Geoservices
Geoservices
Geoservices
2780
2790
2800
2810
(2291.5)
2820
2830
2840
2850
2860
(2291.6)
2870
2880
2890
2900
96 / 4 / 1 / Tr / Tr
99 / 1 / Tr / Tr / Tr
96 / 3 / 1 / Tr / Tr
96 / 2 / 1 / Tr / Tr
96 / 9 / 1 / Tr / Tr
96 / 3 / 1 / Tr / Tr
2780
2790
2800
2810
(2291.5)
2820
2830
2840
2850
2860
(2291.6)
2870
2880
2890
2900


2910
(2284.7)
2920
2930
2940
2950
2960
(2274.4)
2970
2980
2990
3000
3010
(2263.8)
3020
96 / 3 / 1 / Tr / Tr
Geoservices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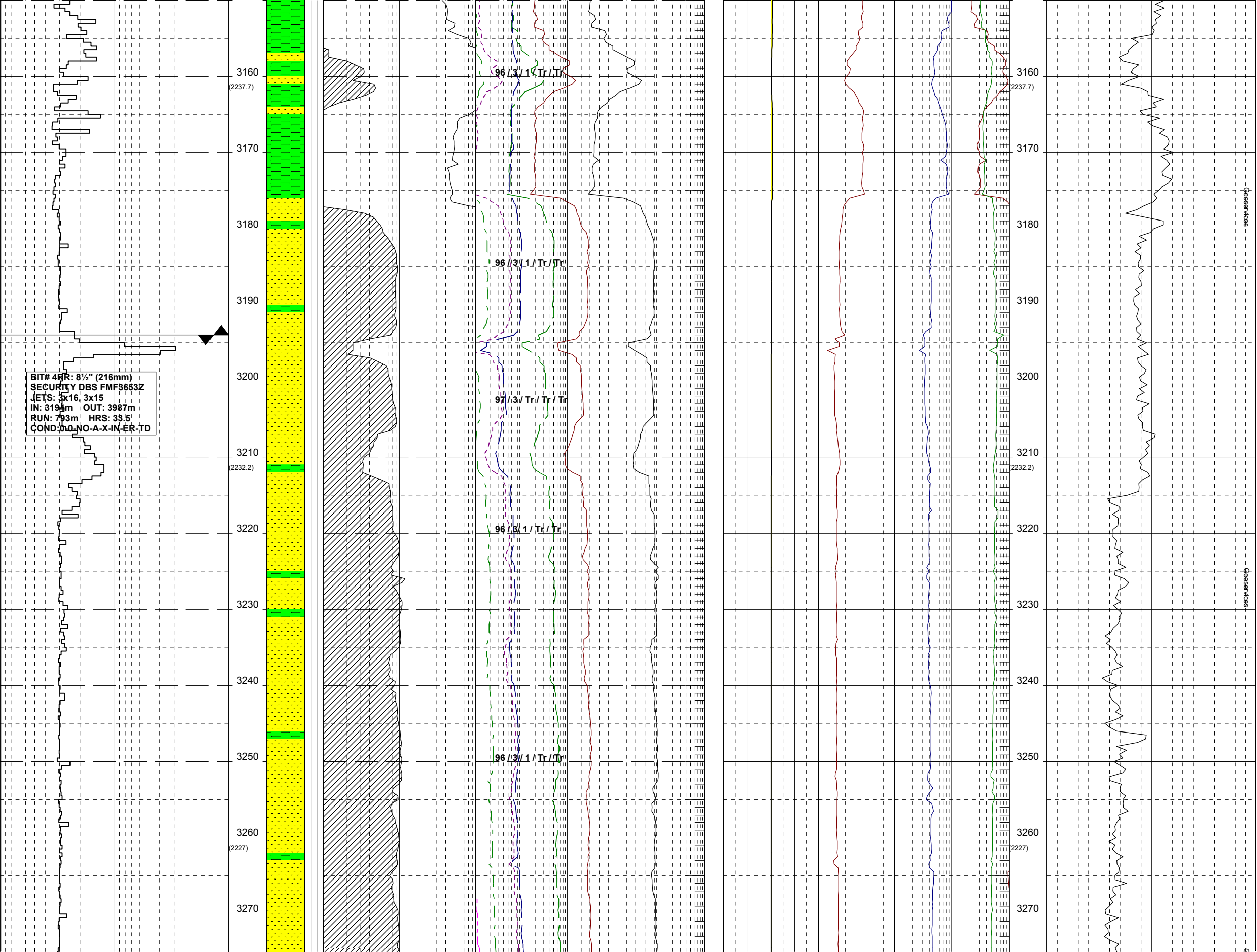
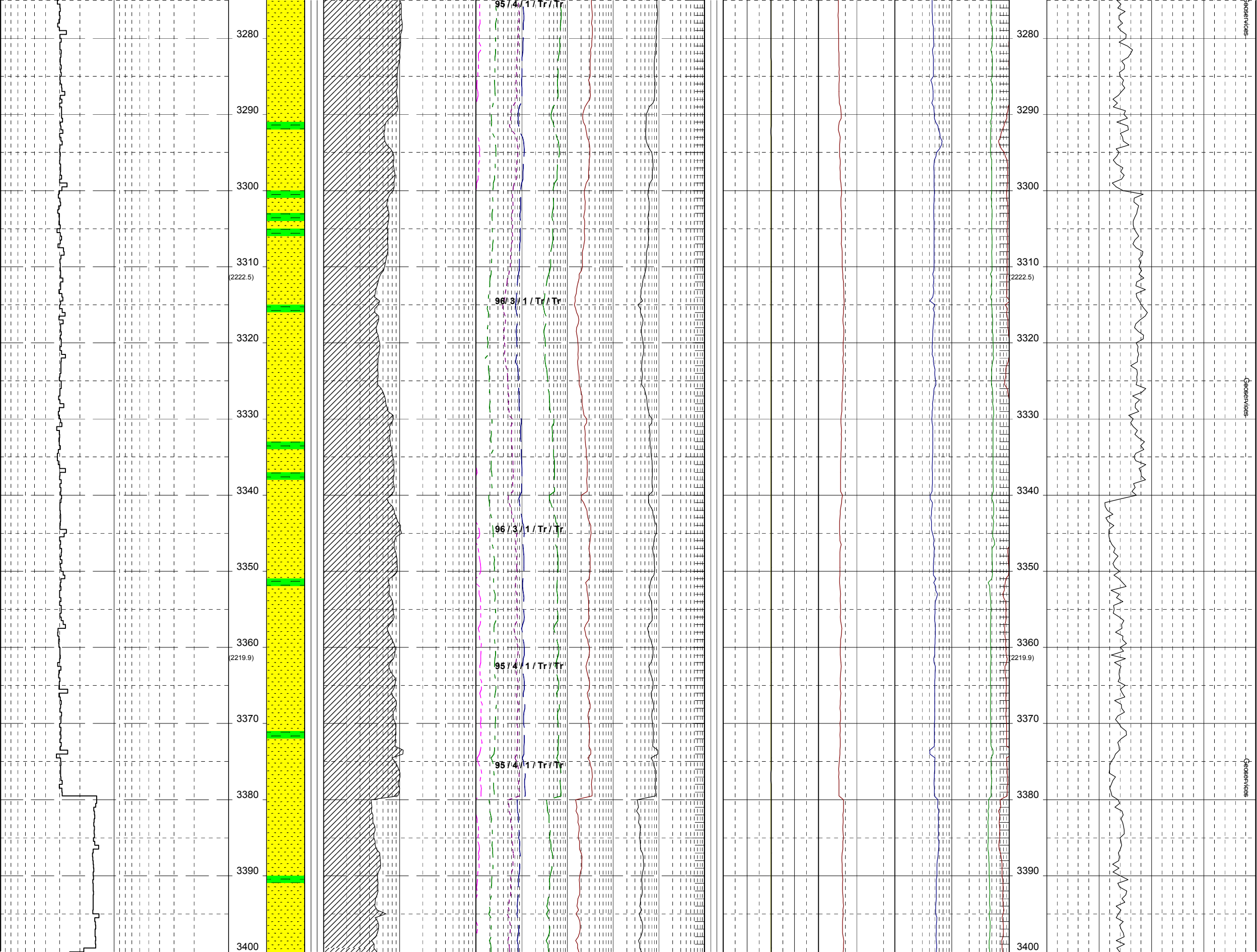
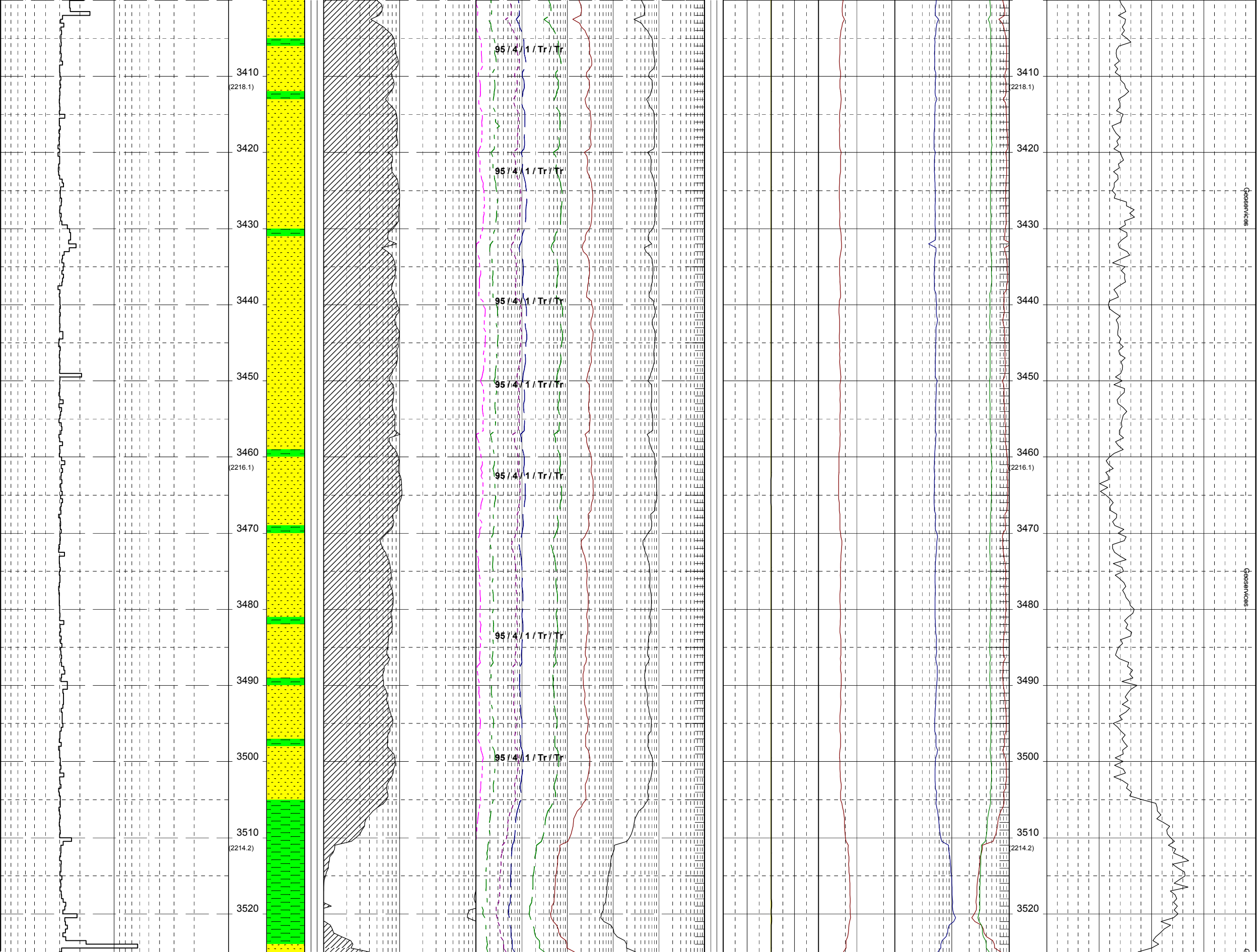
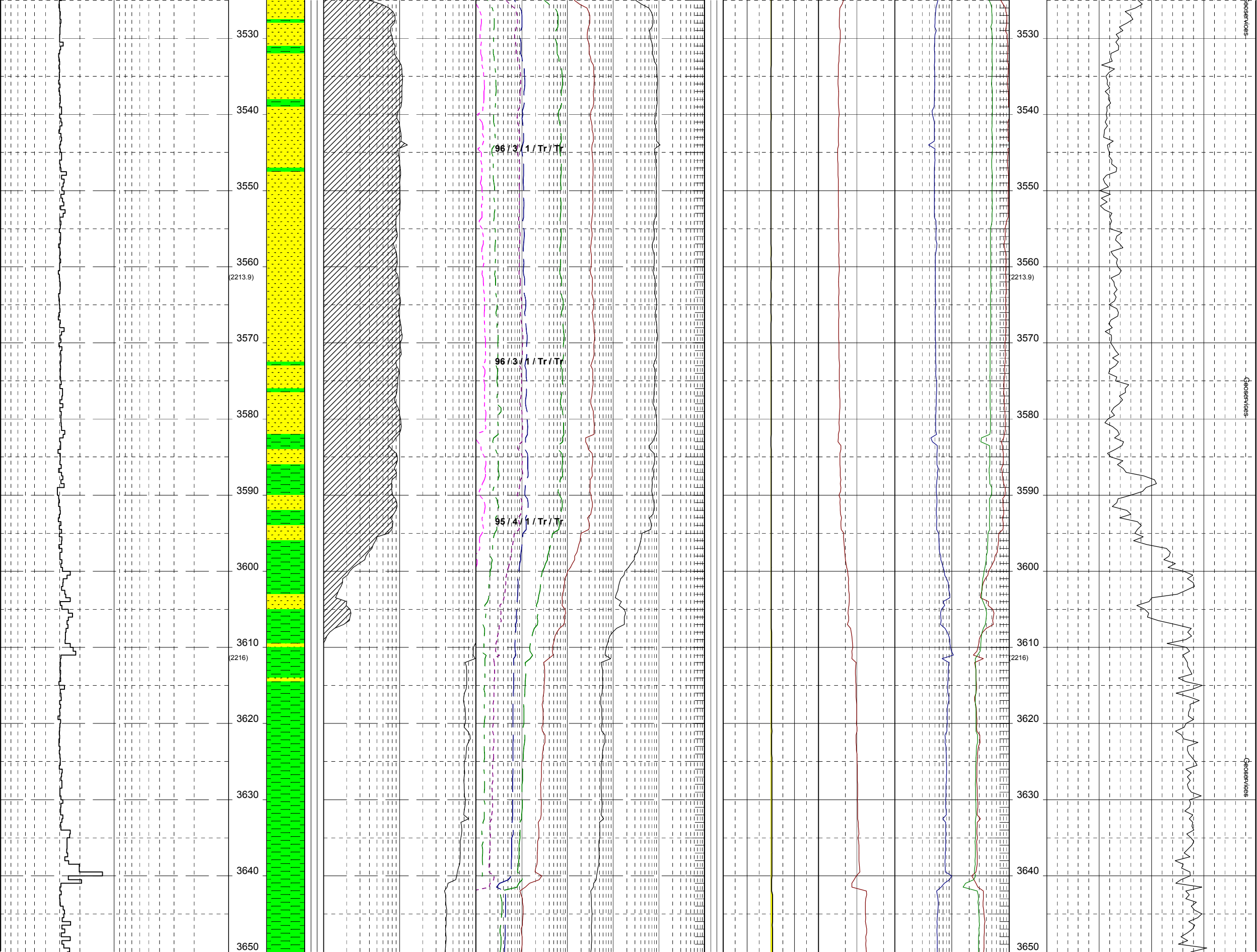
3040
3050
3060
(2254.4)
3070
3080
3090
3100
3110
(2245.2)
3120
3130
3140
3150
95 / 4 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
Geoservices
Geoservices
Geoservices


BIT# 4RR: 8½" (216mm)
SECURITY DBS FMF3653Z
JETS: 3x16, 3x15
IN: 3194m OUT: 3987m
RUN: 793m HRS: 33.5
COND: 0-0-NO-A-X-IN-ER-TD
3160
(2237.7)
3170
3180
3190
3200
3210
(2232.2)
3220
3230
3240
3250
3260
(2227)
3270
96 / 3 / 1 / Tr / Tr
96 / 3 / 1 / Tr / Tr
97 / 3 / Tr / Tr / Tr
96 / 3 / 1 / Tr / Tr
96 / 3 / 1 / Tr / Tr
Geoservices
Geoservices


3280
3290
3300
3310
(2222.5)
3320
3330
3340
3350
3360
(2219.9)
3370
3380
3390
3400
95 / 4 / 1 / Tr / Tr
96 / 3 / 1 / Tr / Tr
96 / 3 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
Geoservices


3410
(2218.1)
3420
3430
3440
3450
3460
(2216.1)
3470
3480
3490
3500
3510
(2214.2)
3520
95 / 4 / 1 / Tr / Tr
Geoservices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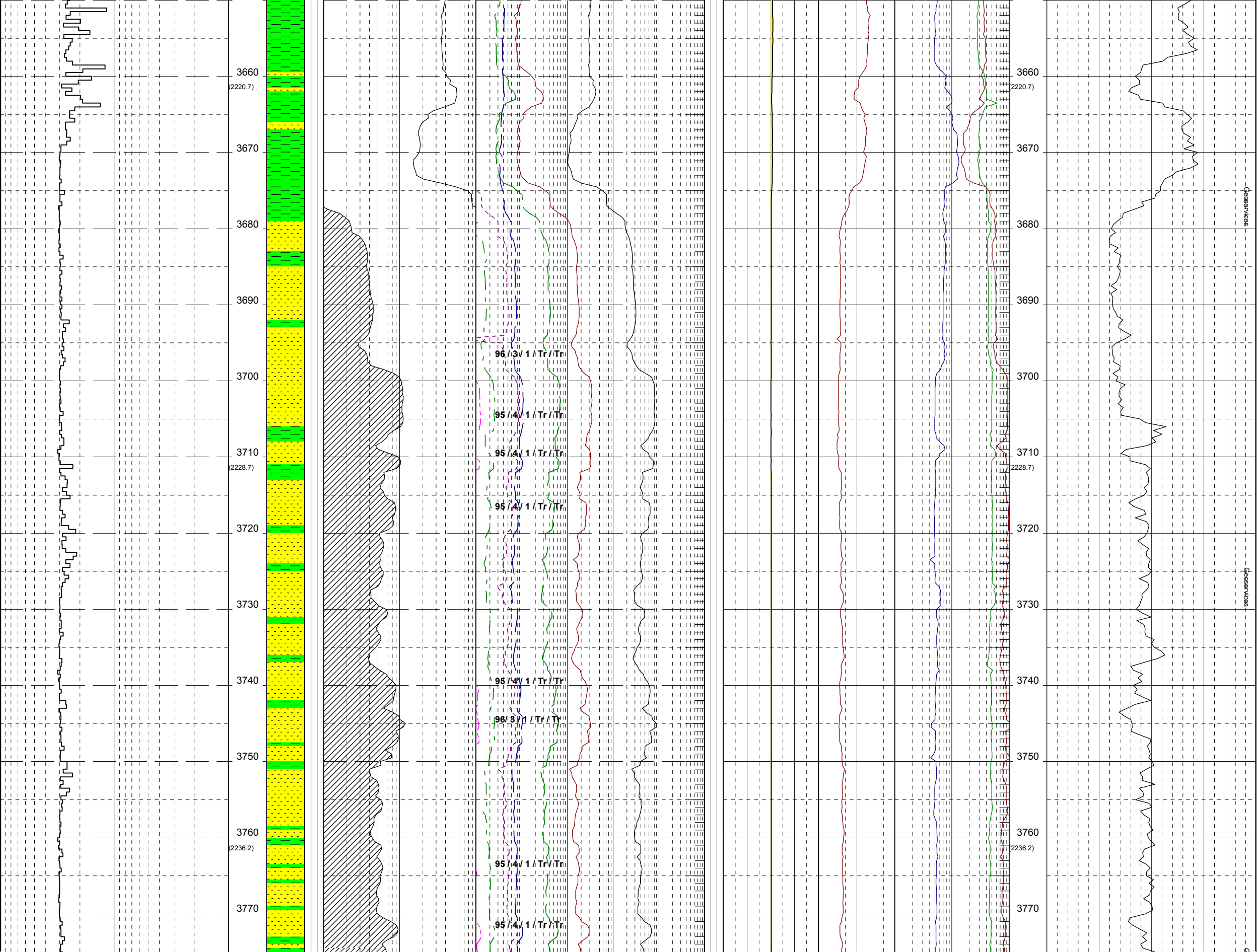
3540
3550
3560
(2213.9)
3570
3580
3590
3600
3610
(2216)
3620
3630
3640
3650
96 / 3 / 1 / Tr / Tr
96 / 3 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
geoservices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(2220.7)
3670
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3690
3700
3710
(2228.7)
3720
3730
3740
3750
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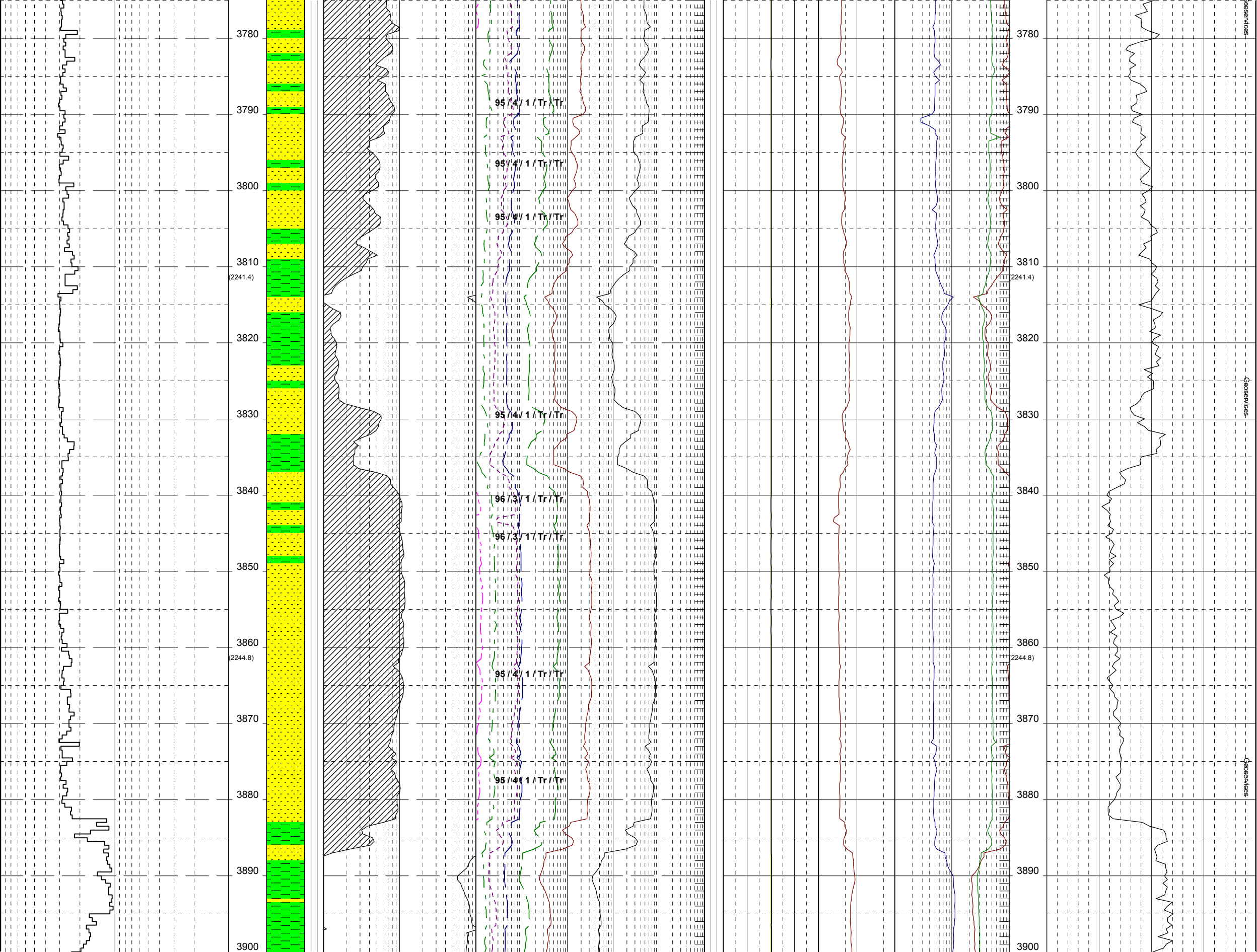
(2236.2)
3770
96 / 3 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
96 / 3 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
Geoservices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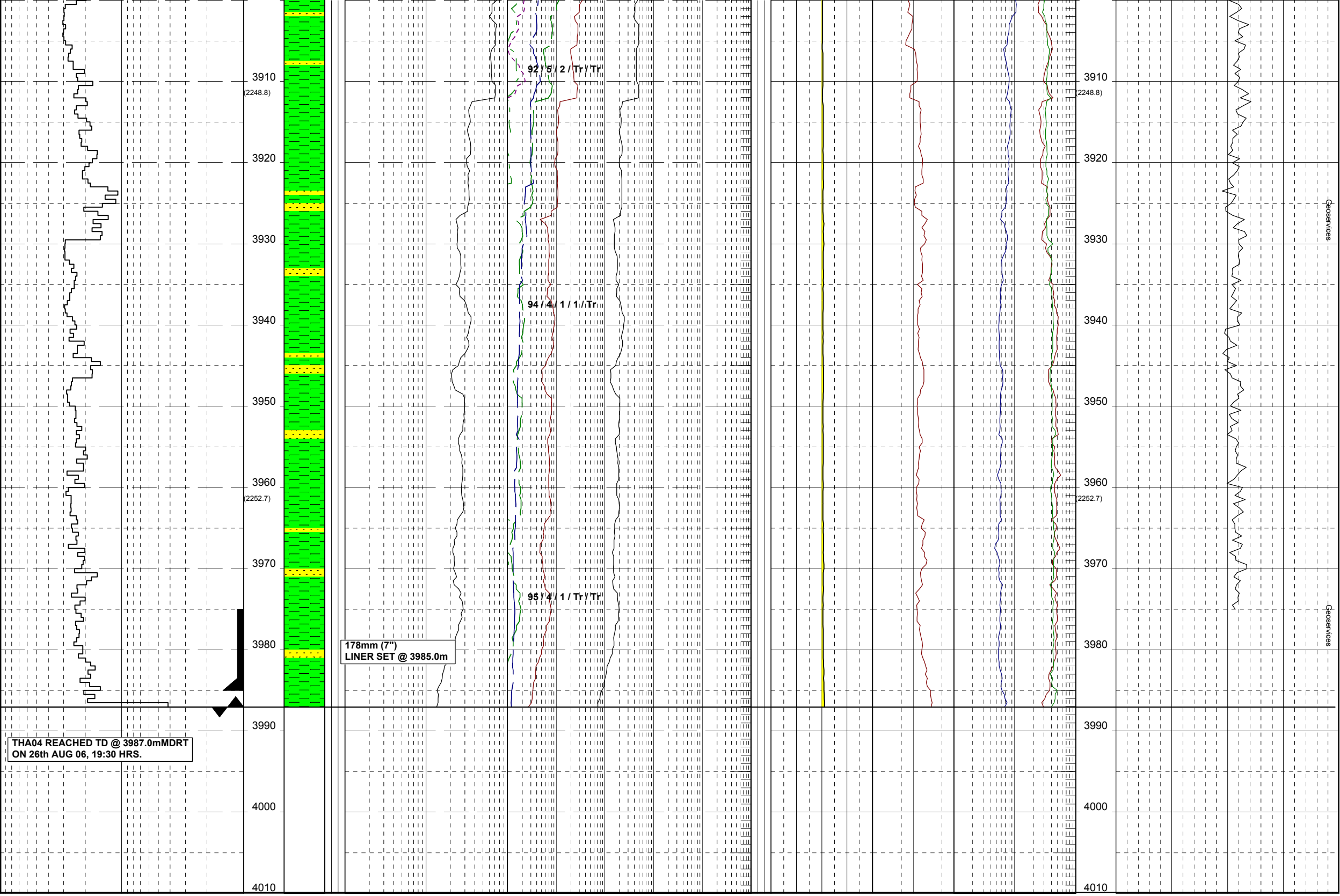
3790
3800
3810
(2241.4)
3820
3830
3840
3850
3860
(2244.8)
3870
3880
3890
3900
95 / 4 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
96 / 3 / 1 / Tr / Tr
96 / 3 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
95 / 4 / 1 / Tr / Tr
geoservices


3910
(2248.8)
3920
3930
3940
3950
3960
(2252.7)
3970
3980
3990
4000
4010
92 / 5 / 2 / Tr / Tr
94 / 4 / 1 / 1 / Tr
95 / 4 / 1 / Tr / Tr
178mm (7")
LINER SET @ 3985.0m
THA04 REACHED TD @ 3987.0mMDRT
ON 26th AUG 06, 19:30 HRS.
Geoservices

MWD End of Well Report

HALLIBURTON

Sperry Drilling Services

LWD End of Well Report

for

Woodside Energy Ltd

THA04

Rig: Maersk Guardian

Field: Thylacine

Country: Australia

Job No: AU-FE-0003930660

Date: 28th AUG 2006

HALLIBURTON

Table of Contents

1. General Information
2. Operational Overview
3. Summary of MWD Runs
4. Bitrun Summary
5. Directional Survey Data
6. Service Interrupt Report

General Information

Company:	Woodside Energy Ltd
Rig:	Maersk Guardian
Well:	THA04
Field:	Thylacine
Lease Name:	T/L2
State:	Victoria
County:	
Country:	Australia
API Number:	
Sperry-Sun Job Number:	AU-FE-0003930660
Job start date:	10-Aug-06
Job end date:	28-Aug-06
North reference:	Grid
Declination:	11.088 deg
Dip angle:	-70.334 deg
Total magnetic field:	61037 nT
Date of magnetic data:	07 August, 2006
Wellhead coordinates N:	39 deg. 14 min 14.56 sec South
Wellhead coordinates E:	142 deg. 54 min 7.58 sec East
Vertical section direction:	128.53 deg
Unit Number:	SSDS-40
MWD Engineers:	T. Oborne, M. Tomlinson, J. Povey
Company Representatives:	S. Corless, S. Job
Company Geologist:	S. Robbie, J. Hobday

Operational Overview

Sperry Drilling Services was contracted by Woodside Energy Ltd to provide Logging While Drilling (LWD) services for the drilling of the development well, THA04.

311mm Hole Section

The 311mm hole section was a side track out of the Thylacine South-1 well. The kick-off plug was drilled from 602.5m to 650.0 mMDRT (473mm casing shoe at 633.4m and 584mm hole previously drilled to 638.0 mMDRT) . The kick-off depth was 650.0 mMDRT and the section was drilled to a TD of 2751.0 mMDRT in one bit run. The run utilized a LWD tool suite comprised of Dual Gamma Ray (DGR) and Four Phase Electromagnetic Wave Resistivity (EWR-P4) for formation evaluation, Pressure While Drilling (PWD) for drilling efficiency, and the rotary steerable 9600 GeoPilot. A Directional Module (DM) was run for deviation control.

216mm Hole Section

The 216mm hole section was drilled to a TD of 3987.0m MDRT in two bit runs. The run utilized a LWD tool suite comprised of Dual Gamma Ray (DGR), Four Phase Electromagnetic Wave Resistivity (EWR-P4), Azimuthal Litho-Density (ALD), Compensated Thermal Neutron (CTN - run 200) and Compensated Neutron Porosity (CNP - run 300) for formation evaluation with Pressure While Drilling (PWD), Acoustic Caliper (ACAL) and Drillstring Dynamics Sensor (DDS) for drilling efficiency, and the rotary steerable 7600 GeoPilot. ALD tool failed during Run 200. Drilling continued until assembly tripped for MWD communications. No recorded DDS & ACAL data could be recovered from the tool. 173m of recorded and real-time data was not collected. (This data subsequentially recorded while backreaming out of hole on run 300). A Directional Module (DM) was run for deviation control.

Summary of MWD runs

Run No.	Bit No.	Hole Size (mm)	MWD Service	Start Depth (m)	End Depth (m)	Drill/Wipe Distance (m)	Run Start Date Time	Run End Date Time	BRT Hrs.	Oper. Hrs.	Circ. Hrs.	Max Temp. (degC)	Serv. Int.	Trip for MWD	Failure Type
100	4	311.00	DIR-FE	650.000	2751.000	2101.000	11-Aug-06 15:51	18-Aug-06 21:55	174.07	174.070	139.400	104.00	No	No	
200	1	216.00	DIR-NUKE	2751.000	3194.000	443.000	21-Aug-06 00:33	24-Aug-06 03:25	74.86	74.860	42.000	102.00	Yes	Yes	ALD,HCIM
300	1RR	216.00	DIR-NUKE	3194.000	3987.000	793.000	24-Aug-06 00:20	28-Aug-06 00:15	95.91	95.920	67.770	115.00	No	No	

Bitrun Summary

RUN TIME DATA

MWD Run	: 100	**Run Start**	: 11-Aug-06 15:51	**BRT Hrs**	: 174.07 hr	**Circ. Hrs**	: 139.40 hr
Rig Bit No	: 4	**Run End**	: 18-Aug-06 21:55	**Hole Size**	: 311.00 mm	**Oper. Hrs**	: 174.07 hr

DRILLING DATA

Start Depth	: 650.00 m	**Footage**	: 2101.00 m	**Avg RPM**	: 150 rpm	**Avg ROP**	: 22.30 m/hr
End Depth	: 2751.00 m	**Avg Flow Rate**	: 1150.00 gpm	**Avg WOB**	: 14.9 klb	**Avg SPP**	: 4230 psig

MUD DATA

Mud Type	: SYN-TEQ						
Weight	: 1.250 sg	**Viscosity**	: 80.30 spl	**PV**	: 41 cP	**YP**	: 14.8 Pa
Chlorides	: 36700.00 ppm	**Max Temp.**	: 104.00 degC	**% Solids**	: 14.40 %	**% Sand**	: 0.30 %
pH	: N/A	**Fluid Loss**	: 3 mptm	**% Oil**	: 60.50 %	**O:W**	: 72:28

MWD PERFORMANCE

Tool OD	: 203.20 mm	**Type**	: DIR-FE	**Min. Inc.**	: 6.30 deg	**Min. Inc. Depth**	: 688.390 m
Final Az.	: 112.04 deg	**Max Op. Press.**	: 4060 psig	**Max Inc.**	: 74.87 deg	**Max Inc. Depth**	: 2740.730 m
	MWD Real-time %	: 99 %		**MWD Recorded %**	: 100 %		

	Length (m)	Dist From Bit (m)
		868.41
5 x Heavy Weight 140.00 mm OD / 86.00 mm ID	48.31	
		709.91
Jar 203.00 mm OD / 70.00 mm ID	9.70	
		678.08
15 x Heavy Weight 140.00 mm OD / 86.00 mm ID	144.73	
		203.25
X-Over Sub 203.00 mm OD / 71.00 mm ID	1.19	
		199.34
3 x Spiral Drill Collar 210.00 mm OD / 71.00 mm ID	26.75	
		111.58
NMDC 203.00 mm OD / 73.02 mm ID	8.48	
		83.76
Float Sub 210.00 mm OD / 71.00 mm ID	1.08	
		80.22
MWD	14.44	
Flex Collar 203.00 mm OD / 89.00 mm ID * DM Sonde	2.77	8.70
		23.75
MWD	6.62	
311mm Security FMF3565Z 311 mm OD / 71 mm ID	0.62	2.03

	Length (m)	Dist From Bit (m)
HOC 203.00 mm OD / 49.00 mm ID SN : 10718048 * Positive Pulser - SN : 8121 * TM - SN : 116496	3.11	20.00
Sub 309.56 mm OD / 49.00 mm ID SN : 0	2.77	
8" HCIM Collar 203.20 mm OD / 48.77 mm ID * HCIM Insert - SN : 189273	1.50	
PWD Collar 203.20 mm OD / 48.80 mm ID * PWD Insert - SN : 1844674407370955	1.30	16.06
8" EWR-P4 Collar 203.20 mm OD / 48.77 mm ID * EWR-P4 Insert - SN : 96506	3.72	13.56
8" DGR Collar 203.20 mm OD / 48.77 mm ID * DDS Insert * DGR Insert - SN : 10718409	2.04	11.21
Geo-Pilot 244.00 mm OD / 89.00 mm ID * AGR Insert	6.62	

COMMENTS

Drilled to section TD of 2751.0m MDRT. All recorded data recovered at surface.

Bitrun Summary

RUN TIME DATA

MWD Run	: 200	**Run Start**	: 21-Aug-06 00:33	**BRT Hrs**	: 74.86 hr	**Circ. Hrs**	: 42.00 hr
Rig Bit No	: 1	**Run End**	: 24-Aug-06 03:25	**Hole Size**	: 216.00 mm	**Oper. Hrs**	: 74.86 hr

DRILLING DATA

Start Depth	: 2751.00 m	**Footage**	: 443.00 m	**Avg RPM**	: 110 rpm	**Avg ROP**	: 24.80 m/hr
End Depth	: 3194.00 m	**Avg Flow Rate**	: 740.00 gpm	**Avg WOB**	: 12.5 klb	**Avg SPP**	: 3870 psig

MUD DATA

Mud Type	: SYN-TEQ						
Weight	: 1.250 sg	**Viscosity**	: 94.10 spl	**PV**	: 49 cP	**YP**	: 17.2 Pa
Chlorides	: 31870.00 ppm	**Max Temp.**	: 102.00 degC	**% Solids**	: 14.50 %	**% Sand**	: 0.50 %
pH	: N/A	**Fluid Loss**	: 3 mptm	**% Oil**	: 61.50 %	**O:W**	: 73:27

MWD PERFORMANCE

Tool OD	: 171.45 mm	**Type**	: DIR-NUKE	**Min. Inc.**	: 76.93 deg	**Min. Inc. Depth**	: 2760.530 m
Final Az.	: 104.34 deg	**Max Op. Press.**	: 4050 psig	**Max Inc.**	: 102.62 deg	**Max Inc. Depth**	: 2963.190 m
	MWD Real-time %	: 98 %		**MWD Recorded %**	: 86 %		

	Length (m)	Dist From Bit (m)
		456.53
2 x 5-1/2" HWDP 139.70 mm OD / 85.73 mm ID	19.20	
		393.54
6-3/4" Sledgehammer Jar 174.50 mm OD / 69.85 mm ID	9.86	
		361.19
6 x 5-1/2" HWDP 139.70 mm OD / 85.73 mm ID	57.81	
		171.52
X-Over Sub 171.00 mm OD / 75.00 mm ID	1.30	
		167.26
NMDC 171.00 mm OD / 75.00 mm ID	18.81	
		105.54
Float Sub 171.00 mm OD / 75.00 mm ID	0.80	
		102.92
MWD	22.01	
Flex Collar 171.00 mm OD / 48.00 mm ID * DM Sonde	2.80	8.02
		21.52
Geo-Pilot 7600 171.45 mm OD / 41.28 mm ID * AGR Insert	6.14	
211 mm Security FMF3653Z	0.42	1.38

	Length (m)	Dist From Bit (m)
HOS 171.00 mm OD / 48.00 mm ID * TM - SN : 10505235 * Positive Pulser - SN : 8393	3.06	
PWD Collar 204.80 mm OD / 48.77 mm ID * PWD Insert - SN : 169975	2.54	27.29
6-3/4" CTN Collar 171.45 mm OD / 48.77 mm ID * ACAL Insert - SN : 174118 * CTN Insert - SN : 174118	4.69	23.53 24.59
6-3/4" ALD Collar 204.80 mm OD / 48.77 mm ID * ALD Insert - SN : 10718174	4.49	20.52
6-3/4" HCIM Collar 171.45 mm OD / 48.77 mm ID * HCIM Insert - SN : 161828	1.51	
6-3/4" EWR-P4 Collar 171.45 mm OD / 48.77 mm ID * EWR-P4 Insert - SN : 191904	3.69	12.89
6-3/4" DGR Collar 204.80 mm OD / 48.77 mm ID * DDS Insert - SN : 77761 * DGR Insert - SN : 77761	2.03	10.56

COMMENTS

Drilled to 3194.0 mMDRT. POOH due to HCIM failure. See SIR.

Bitrun Summary

RUN TIME DATA

MWD Run	: 300	**Run Start**	: 24-Aug-06 00:20	**BRT Hrs**	: 95.91 hr	**Circ. Hrs**	: 67.77 hr
Rig Bit No	: 1RR	**Run End**	: 28-Aug-06 00:15	**Hole Size**	: 216.00 mm	**Oper. Hrs**	: 95.92 hr

DRILLING DATA

Start Depth	: 3194.00 m	**Footage**	: 793.00 m	**Avg RPM**	: 160 rpm	**Avg ROP**	: N/A
End Depth	: 3987.00 m	**Avg Flow Rate**	: 735.00 gpm	**Avg WOB**	: 30.0 klb	**Avg SPP**	: 3690 psig

MUD DATA

Mud Type	: SYN-TEQ						
Weight	: 1.250 sg	**Viscosity**	: 78.20 spl	**PV**	: 35 cP	**YP**	: 12.5 Pa
Chlorides	: 30450.00 ppm	**Max Temp.**	: 115.00 degC	**% Solids**	: 14.30 %	**% Sand**	: 0.60 %
pH	: N/A	**Fluid Loss**	: 4 mptm	**% Oil**	: 62.50 %	**O:W**	: 74:26

MWD PERFORMANCE

Tool OD	: 171.45 mm	**Type**	: DIR-NUKE	**Min. Inc.**	: 79.76 deg	**Min. Inc. Depth**	: 3687.120 m
Final Az.	: 99.24 deg	**Max Op. Press.**	: N/A	**Max Inc.**	: 96.12 deg	**Max Inc. Depth**	: 3253.070 m
	MWD Real-time %	: 97 %		**MWD Recorded %**	: 100 %		

	Length (m)	Dist From Bit (m)
		461.09
2 x 5-1/2" HWDP 139.70 mm OD / 85.73 mm ID	19.19	
		398.13
6-3/4" Sledgehammer Jar 174.50 mm OD / 69.85 mm ID	9.86	
		365.78
6 x 5-1/2" HWDP 139.70 mm OD / 85.73 mm ID	57.81	
		176.12
X-Over Sub 171.00 mm OD / 75.00 mm ID	1.30	
		171.85
NMDC 171.00 mm OD / 75.00 mm ID	18.81	
		110.14
Float Sub 171.00 mm OD / 75.00 mm ID	0.80	
		107.51
MWD	22.47	
		8.95
Flex Collar 171.00 mm OD / 48.00 mm ID * DM Sonde	2.81	
		24.57
Geo-Pilot 7600 171.45 mm OD / 41.28 mm ID * AGR Insert	7.07	
		1.38
Security FMF3653Z 216mm OD / 75 mm ID	0.42	

	Length (m)	Dist From Bit (m)
		107.51
6-3/4" ACAL Collar 171.45 mm OD / 48.77 mm ID * ACAL Insert	1.81	
HOS 171.00 mm OD / 48.00 mm ID * TM - SN : 116496 * Positive Pulser - SN : 8443	3.06	
PWD Collar 204.80 mm OD / 48.77 mm ID * PWD Insert - SN : 169975	2.54	26.88
6-3/4" CTN Collar 171.45 mm OD / 48.77 mm ID * CNP Insert - SN : 177933	3.38	24.29
6-3/4" ALD Collar 204.80 mm OD / 48.77 mm ID * ALD Insert - SN : 10503661	4.48	21.43
6-3/4" HCIM Collar 171.45 mm OD / 48.77 mm ID * HCIM Insert - SN : 10505777	1.50	
6-3/4" EWR-P4 Collar 171.45 mm OD / 48.77 mm ID * EWR-P4 Insert - SN : 197652	3.65	13.85
6-3/4" DGR Collar 204.80 mm OD / 48.77 mm ID * DDS Insert - SN : 218747 * DGR Insert - SN : 218747	2.05	11.50

COMMENTS

Drilled to TD.
While backreaming out of hole, wiped for ALD data not recorded on run 200.

Directional Survey Data

Final survey projected to TD.
All surveys are sag Corrected.
Surveys to 1498.12m MDRT are SUCOP corrected.
Surveys from 1527.01m MDRT are Cazandra corrected.
Final survey is projected to TD.

Tie-in

650.000	5.18	173.38	649.360	21.420 S	2.120 E		***

Measured Depth (m)	Inclination (deg)	Direction (deg)	Vertical Depth (m)	Latitude (m)	Departure (m)	Vertical Section (m)	Dogleg (°/30m)
688.390	6.30	210.93	687.570	24.950 S	1.237 E	16.509	3.00
717.360	10.31	208.79	716.230	28.587 S	0.830 W	17.158	4.16
746.300	14.72	197.80	744.480	34.361 S	3.202 W	18.899	5.18
775.250	18.30	195.23	772.232	42.251 S	5.521 W	22.000	3.79
804.220	20.86	194.83	799.525	51.627 S	8.037 W	25.873	2.65
833.180	24.98	191.59	826.193	62.607 S	10.586 W	30.718	4.46
862.140	28.78	189.26	852.020	75.482 S	12.938 W	36.899	4.08
891.060	32.15	190.32	876.944	89.928 S	15.437 W	43.942	3.54
920.010	34.55	190.51	901.125	105.580 S	18.315 W	51.441	2.49
948.960	33.85	189.07	925.070	121.614 S	21.083 W	59.263	1.11
977.870	33.51	188.44	949.127	137.459 S	23.524 W	67.224	0.51
1006.770	32.88	188.81	973.311	153.102 S	25.896 W	75.113	0.69
1035.710	31.56	189.35	997.794	168.339 S	28.330 W	82.700	1.40
1064.580	31.61	196.12	1022.395	183.066 S	31.659 W	89.270	3.68
1093.400	33.36	198.23	1046.705	197.850 S	36.236 W	94.899	2.17
1122.380	34.19	197.83	1070.794	213.170 S	41.222 W	100.542	0.89
1151.260	33.03	195.24	1094.847	228.490 S	45.776 W	106.523	1.92
1180.180	32.68	194.25	1119.141	243.662 S	49.769 W	112.850	0.66
1209.130	32.85	194.31	1143.485	258.846 S	53.634 W	119.285	0.18
1238.050	32.69	194.61	1167.803	274.003 S	57.543 W	125.669	0.24
1266.970	32.70	195.15	1192.140	289.101 S	61.554 W	131.936	0.30
1295.890	32.87	195.56	1216.454	304.202 S	65.701 W	138.098	0.29
1324.790	33.17	196.36	1240.686	319.343 S	70.032 W	144.142	0.55
1353.720	32.35	196.87	1265.014	334.344 S	74.507 W	149.985	0.90
1382.600	31.60	196.07	1289.513	349.009 S	78.844 W	155.728	0.89
1411.510	31.20	196.12	1314.189	363.481 S	83.020 W	161.476	0.42
1440.360	31.66	195.63	1338.806	377.951 S	87.135 W	167.271	0.55
1469.240	33.20	195.26	1363.181	392.879 S	91.258 W	173.345	1.61
1498.120	33.15	196.11	1387.354	408.093 S	95.530 W	179.480	0.49
1527.010	32.27	197.10	1411.662	423.054 S	99.990 W	185.311	1.07
1555.950	32.13	197.42	1436.151	437.781 S	104.565 W	190.905	0.23
1584.900	32.14	197.54	1460.666	452.469 S	109.191 W	196.436	0.07
1613.830	31.59	196.05	1485.236	467.088 S	113.605 W	202.090	1.00
1642.730	31.64	196.36	1509.847	481.636 S	117.833 W	207.845	0.18
1671.670	31.29	196.58	1534.532	496.122 S	122.116 W	213.518	0.38
1700.540	31.70	196.96	1559.149	510.563 S	126.468 W	219.109	0.47
1729.450	31.83	196.87	1583.728	525.124 S	130.896 W	224.716	0.14
1758.400	32.33	194.83	1608.259	539.913 S	135.093 W	230.645	1.24
1787.330	31.96	195.03	1632.754	554.786 S	139.058 W	236.808	0.40
1816.310	32.21	195.30	1657.307	569.644 S	143.085 W	242.912	0.30
1845.270	32.04	193.45	1681.834	584.560 S	146.909 W	249.213	1.03
1874.190	32.87	193.78	1706.237	599.643 S	150.563 W	255.750	0.88
1903.180	31.63	193.99	1730.754	614.660 S	154.274 W	262.201	1.29
1932.120	31.27	194.24	1755.442	629.304 S	157.956 W	268.443	0.40

Directional Survey Data

Measured Depth (m)	Inclination (deg)	Direction (deg)	Vertical Depth (m)	Latitude (m)	Departure (m)	Vertical Section (m)	Dogleg (°/30m)
1961.070	31.95	194.74	1780.097	643.995 S	161.754 W	274.623	0.76
1989.910	32.22	189.82	1804.537	658.953 S	165.007 W	281.396	2.73
2018.810	32.07	182.90	1829.015	674.212 S	166.710 W	289.569	3.82
2047.730	32.63	178.55	1853.449	689.676 S	166.901 W	299.053	2.48
2076.660	33.52	174.02	1877.695	705.421 S	165.871 W	309.666	2.72
2105.610	34.25	170.36	1901.730	721.404 S	163.674 W	321.342	2.25
2134.560	35.30	162.86	1925.521	737.437 S	159.843 W	334.326	4.56
2163.440	36.78	153.99	1948.889	753.192 S	153.588 W	349.034	5.63
2192.410	37.04	147.72	1972.061	768.369 S	145.122 W	365.110	3.91
2221.340	37.25	147.33	1995.121	783.106 S	135.742 W	381.628	0.33
2250.240	39.85	148.53	2017.721	798.369 S	126.185 W	398.612	2.81
2279.240	42.08	144.94	2039.621	814.252 S	115.750 W	416.669	3.35
2308.150	43.98	140.53	2060.758	829.935 S	103.800 W	435.786	3.69
2337.080	46.34	136.35	2081.161	845.267 S	90.187 W	455.986	3.93
2366.050	48.66	134.83	2100.732	860.519 S	75.238 W	477.181	2.67
2395.160	50.48	132.94	2119.610	875.874 S	59.267 W	499.241	2.39
2424.050	53.68	129.08	2137.367	890.810 S	42.066 W	522.000	4.59
2452.990	55.25	123.38	2154.195	904.709 S	23.076 W	545.514	5.08
2481.900	55.15	121.40	2170.696	917.425 S	3.032 W	569.115	1.69
2509.330	56.34	122.19	2186.135	929.371 S	16.237 E	591.630	1.48
2538.240	57.74	122.37	2201.864	942.326 S	36.744 E	615.742	1.46
2567.190	61.95	120.21	2216.404	955.314 S	58.134 E	640.566	4.77
2596.080	65.06	117.03	2229.294	967.687 S	80.828 E	666.027	4.38
2625.010	65.29	116.41	2241.440	979.492 S	104.281 E	691.727	0.63
2653.940	69.24	116.73	2252.618	991.426 S	128.140 E	717.825	4.11
2682.840	71.58	113.35	2262.310	1002.941 S	152.804 E	744.293	4.10
2712.930	72.42	112.26	2271.609	1014.033 S	179.184 E	771.839	1.33
2740.730	74.87	112.04	2279.436	1024.089 S	203.889 E	797.429	2.65
2760.530	76.93	111.88	2284.259	1031.270 S	221.698 E	815.834	3.13
2789.540	81.86	112.24	2289.597	1041.976 S	248.117 E	843.170	5.11
2818.500	87.26	113.06	2292.341	1053.075 S	274.712 E	870.889	5.66
2847.450	91.70	113.17	2292.604	1064.437 S	301.330 E	898.790	4.60
2876.380	97.39	113.51	2290.312	1075.858 S	327.799 E	926.610	5.91
2905.330	101.06	113.86	2285.672	1087.335 S	353.963 E	954.227	3.82
2934.260	102.06	114.41	2279.875	1098.923 S	379.828 E	981.679	1.18
2963.190	102.62	114.71	2273.692	1110.670 S	405.533 E	1009.105	0.66
2992.130	102.45	112.78	2267.410	1122.045 S	431.390 E	1036.418	1.96
3021.100	100.84	108.83	2261.561	1132.118 S	457.908 E	1063.437	4.34
3050.040	100.25	110.72	2256.264	1141.743 S	484.680 E	1090.377	2.02
3078.940	100.82	109.65	2250.980	1151.547 S	511.347 E	1117.345	1.24
3107.890	100.67	108.82	2245.582	1160.917 S	538.201 E	1144.190	0.86
3136.860	98.37	105.95	2240.790	1169.450 S	565.463 E	1170.831	3.78
3165.840	96.81	104.34	2236.962	1176.954 S	593.190 E	1197.196	2.31
3195.210	95.81	101.40	2233.734	1183.455 S	621.645 E	1223.505	3.15
3253.070	96.12	101.34	2227.721	1194.800 S	678.063 E	1274.707	0.16
3282.020	95.38	101.48	2224.820	1200.498 S	706.297 E	1300.344	0.78
3310.990	94.02	101.74	2222.447	1206.309 S	734.579 E	1326.087	1.43
3339.940	92.66	101.22	2220.760	1212.061 S	762.900 E	1351.826	1.51
3368.840	92.41	99.37	2219.482	1217.220 S	791.306 E	1377.261	1.94
3397.770	91.42	97.62	2218.515	1221.491 S	819.901 E	1402.291	2.08
3426.720	92.60	99.37	2217.499	1225.765 S	848.514 E	1427.337	2.19

Directional Survey Data

Measured Depth (m)	Inclination (deg)	Direction (deg)	Vertical Depth (m)	Latitude (m)	Departure (m)	Vertical Section (m)	Dogleg (°/30m)
3455.570	92.29	98.64	2216.269	1230.276 S	876.983 E	1452.417	0.82
3484.490	92.29	97.77	2215.113	1234.400 S	905.583 E	1477.360	0.90
3513.420	91.61	97.05	2214.129	1238.129 S	934.255 E	1502.112	1.03
3542.380	90.19	96.08	2213.674	1241.440 S	963.020 E	1526.677	1.78
3571.300	88.52	94.45	2213.999	1244.093 S	991.815 E	1550.855	2.42
3600.240	86.18	94.28	2215.337	1246.293 S	1020.638 E	1574.773	2.43
3629.180	85.43	94.07	2217.454	1248.395 S	1049.423 E	1598.601	0.81
3658.150	82.83	94.52	2220.417	1250.552 S	1078.158 E	1622.423	2.73
3687.120	79.76	93.37	2224.801	1252.523 S	1106.722 E	1645.997	3.39
3715.070	80.65	95.43	2229.556	1254.637 S	1134.182 E	1668.794	2.38
3744.950	81.33	96.49	2234.236	1257.702 S	1163.533 E	1693.664	1.25
3773.830	83.32	95.40	2238.093	1260.665 S	1191.999 E	1717.778	2.35
3802.710	85.81	97.87	2240.828	1263.988 S	1220.552 E	1742.185	3.64
3831.660	85.74	99.00	2242.961	1268.223 S	1249.110 E	1767.164	1.17
3860.590	86.73	99.67	2244.861	1272.905 S	1277.595 E	1792.363	1.24
3889.570	84.94	99.10	2246.965	1277.618 S	1306.110 E	1817.606	1.94
3918.450	84.50	98.36	2249.623	1281.983 S	1334.534 E	1842.561	0.89
3947.390	85.99	98.56	2252.022	1286.226 S	1363.060 E	1867.519	1.56
3976.360	88.03	99.24	2253.533	1290.702 S	1391.640 E	1892.665	2.23
3987.000	88.80	99.50	2253.827	1292.434 S	1402.134 E	1901.953	2.29

CALCULATION BASED ON MINIMUM CURVATURE METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 128.53 DEGREES(GRID)
A TOTAL CORRECTION OF 12.29 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD
HORIZONTAL DISPLACEMENT(CLOSURE) AT 3987.00 METRES
IS 1906.93 METRES ALONG 132.67 DEGREES (GRID)

Service Interrupt Report

MWD Run Number	: 200	**Time/Date fo Failure**	: 23-Aug-06 06:04
Rig Bit Number	: 1	**Depth at time fo Failure**	: 3000.000 m
MWD Run start time/date	: 21-Aug-06 00:33	**Lost Rig Hours**	:
MWD Run end time/date	: 24-Aug-06 03:25		

RIG ACTIVITY

Drilling Ahead

DESCRIPTION OF FAILURE

The ALD sensor began pulsing "No response" while drilling.

ACTION TAKEN

Mode switch, back reamed and downlinked reset to the GP.

OPERATION IMPACT

Lost time while back reaming, no density recorded or realtime data.

REASON FOR FAILURE

The tool was found badly washed out/damaged due to mud invasion underneath the short sleeve, caused communications problem.

Service Interrupt Report

MWD Run Number	: 200	**Time/Date fo Failure**	: 23-Aug-06 05:40
Rig Bit Number	: 1	**Depth at time fo Failure**	: 3192.000 m
MWD Run start time/date	: 21-Aug-06 00:33	**Lost Rig Hours**	:
MWD Run end time/date	: 24-Aug-06 03:25		

RIG ACTIVITY

Drilling 216mm hole section.

DESCRIPTION OF FAILURE

Communication with the lower bus was lost while drilling.

ACTION TAKEN

The MWD tool was mode switched twice.

OPERATION IMPACT

Trip for MWD. No recorded DDS or ACAL data could be recovered from the tool. 173m of recorded and real time ALD data was lost.

REASON FOR FAILURE

HCIM Electronic Circuitry board failed.

HALLIBURTON

Drilling, Evaluation and Digital Solutions

Woodside Energy Ltd.

Directional Drilling End of Well Report

Well: THA04

Date: August 2006

HALLIBURTON

Sperry Drilling Services

Table of Contents

1. Well Summary
2. Definitive Survey Report and A4 Plot
3. Survey and Drilling Parameters
4. BHA Data
5. Motor Performance Reports
6. Daily Directional Drilling Reports

Customer : Woodside Energy Ltd

Well : THA04

Job Objectives:

The primary objective is to sidetrack and depart from parent well-bore Thylacine South-1 while utilizing Series 9600 GeoPilot configured with Gamma at Bit capability.

A secondary objective is to successfully build to 90° inclination and turn to 75° azimuth, landing horizontal to intercept then geo-steer tracking previously proven (Thylacine South-1) hydro-carbon pools. Series 7600 GeoPilot configured with "At bit Inclination" and FEWD string will produce directional control.

Summary of Results:

12¼" Hole Section:
9600 GeoPilot was used to perform an efficient & cost effective sidetrack from Thylacine South-1.
BHA modification to HWDP vs. Drill Collar ratio produced a limber and more forgiving assembly.
Resultant performance responded to varying drilling parameters and effected an average 6.25°/30m from 18-22,000 WOB.

8-1/2" Hole Section:
This first 7600 GeoPilot assembly produced 7.5 °/30m motor outputs once into new formation using
600 Gpm, 28k WOB with 100% deflection and highside toolface. Assembly was responsive to drilling parameter's and maintained an average ROP over the run of 25m/hr limited to predetermined logging counts. At a depth of 3028m a buss off signal was sent from tool followed by intermittent loss of all communication between RLL, PWD and directional module - this was quickly reacted to by mode switching the tool which reinstated communications and the decision was made to drill ahead. Drilling continued until again at 3194m a repetitive bus off signal was pumped up to surface team and all avenues to salvage the run were lost. Problematic issues to this BHA where Casandra quality control software placing wellpath 20m East and 8° Azimuth from the line. This development led to planning 3 new wellplans ending with THA04S1P11a. This took time and compromised the wellpath as drilling proceeded ahead removing the potential for corrections further up the well.

8-1/2" Hole Section:
Well-bore integrity was geo-steered through the remaining hole section in an attempt to keep within the confines of reservoir's upper most sands while following formation dip. Assisted by Gamma at bit data, allowed BHA5 to crosscut the reservoir where-upon shale being intercepted at 3833m. With log responses and cuttings quality descriptions diminishing then warranted Geology dept to determine EOW total depth at 3987mMDRT.
Petro-Physics department Tim Duggan communicated "We have achieved all goals for this well, and expect that this well will have the longest intersection of reservoir of all the wells in this drilling program"

Discussion:

BHA Summary:

BHA #1
This assembly performed extremely well meeting every customer well-path objective within a respectable amount of time. A downside to overall BHA performance was attributed to run ROP being compromised by the Security DBS PDC bit typified by balling characteristics. Recent design enhancements incorporated by Security DBS in an attempt to minimize slip stick did not experience a true trial. Surface inspection revealed an accumulative amount of packed cuttings collected to remain about lower GeoPilot housing to which may have impeded ROP while contributing to erratic torque fluctuations. During the run, 5-15000k torque fluctuations were sustained throughout multiple combinations of drilling parameters in effort to achieve best drilling practices.

BHA #2
The first 7600 GeoPilot assembly performed very well producing 5.5 - 7.5°/30m motor outputs coming out of the 9-5/8" casing shoe. Assembly reacted to surface commands immediately which confirmed surface geo-span choking of 0.371 TFA giving a pulse amplitude of between 400-550 enabling minimum downlinking response times. GeoPilot deflection setting's throughout run averaging 50%, requiring more aggressive deflection's of up to 100% during steering assembly down after building up to 103° inclination. A very short run that was ended due to a buss off failure that initially occurred at 3028m where trouble shooting was able to re-establish communications and drilling continued until final buss off signal was repeatedly sent to surface team.

BHA #3

This final 7600 GeoPilot assembly drilled too customer requirement's without fail. All geological steering throughout this reservoir was performed quickly and efficiently promoting full confidence in all tasks challenging the assembly.

BHA #	Bit #	Motor Run #	Hole Size (in)	MD In (m)	MD Out (m)	TVD In (m)	TVD Out (m)	Inc In (deg)	Inc Out (deg)	Azi In (deg)	Azi Out (deg)	Drlg hrs	Circ hrs
1	1	?	12.250	650	2751	649	2282	5.2	75.9	173	112	133	24
2	2	?	8.500	2751	3194	2282	2234	75.9	95.9	112	102	29	17
3	2rr1	?	8.500	3194	3987	2234	2254	95.9	88.8	102	100	50	28

Table 1 - BHA Summary

Motor Run Summary:

BHA #1
9600 Series GeoPilot
S/N: 1225082
Stabilizer: 12-1/16"
Total Drill hrs: 92.60hrs
Total Circ hrs 135.60hrs
This 9600 GeoPilot met all customer objectives completing the sidetrack, initial build/turn, tangent section and final build/turn utilizing THA04S1P7 wellplan to a TD of 2751m. Providing motor outputs of up to 7.5°/30m when required without faltering in any regard. Performance throughout run encountering multiple stringer's and extremely high instances of slip stick (150-250 rpm excess). Attempt's to vary parameters during slip stick instances were met with only short success's inevitably conforming back into a torque fluctuation of between 5-10,000k average. This GeoPilot drilled a total of 2201m working to its technical limit while overcoming relentless formation effects.

BHA #2
7600 Series GeoPilot
S/N: 0850062
Stabilizer: 8-1/16"
Total Drill hrs: 19.40
Total Circ hrs: 41.40
The first 7600 Geo-Pilot provided 5.5 - 7.5°/30m motor output's enabling all wellpath objectives by customer to be achieved. Completing 5.5°/30m build up rates up to 103° inclination and reacted to all surface commands without delay. No torsional efficiency problems with this run. On surface inspection revealed a damaged snap ring to upper dual kalsi seals which was hanging loose when tool was above rotary table. There was no indication of tool damage or faltering while drilling ahead.

BHA #3
7600 Series GeoPilot
S/N: 0850114
Stabilizer: 8-1/16"
Total Drill hrs: 33.50
Total Circ hrs: 67.50
The second of two 7600 GeoPilots provided continuity with 5.0°/30m equivalent motor outputs instantly achieving all forwarded directional target's and objectives. Average deflection setting's of 30-70% percent were required to necessitate changing reservoir geologist directives. As shales were encountered through reservoir section over-pull of 45,000lb drag up and down were recorded on surface, resulting in pro-active repetitive back washing and bottoms up circulations to reduce risk of stuck-pipe conditions

Motor Run #	Manufacturer	Type	Lobe	OD (in)	Gauge (in)	Bend (deg)	Adj	DLS (Ori) (°/100')	ROP (Ori) (m/hr)	ROP (Rot) (m/hr)
?	SSDS		/	9.625	11.750	0.00	N		2	16
?	SSDS		/	7.630	8.190	0.00	N		0	16
?	SSDS		/	7.630	8.190	0.00	N		0	16

Table 2 - Motor Run Summary

Bit Run Summary:

Bit #1
Make: Security DBS
Size: 12¼""
Type: FMF3565Z
Serial No: 10866299
IADC: M223
Jets: 6 x 18
TFA: 1.491
Grading : 1-3-CT-X-S-1-ER-TD
This drill bit provided good steerability with ROP's of 20-70m/hr through section shales and
was prone to balling up which was interbedded with sandstone / siltstone stringer's. Drill bit did not provide relief from high slipstick as

per new design (Fluctuation's of up to 25000k during drilling - irrelevant to parameter's). This bit did successfully complete dressing down 50m of cement plug, sidetracking well and drilling 2201m of new formation before TD was met at 2751m.

Bit #2
Make: Security DBS
Size: 8-1/2"
Type: FMF3653Z
Serial No : 10866299
IADC: M223
Jets : 3 x 16, 3x15
TFA: 1.107
Grading : 0-1-NO-A-X-1-NO-DTF
This drill bit was control drilled at a pre set ROP of 30m/hr to accommodate data logging of 3 points per metre. On surface inspection revealed no damage at all to drilling cutter's or body and was deemed appropriate to use on next BHA.

Bit #2 RR1
Make : Security DBS
Size : 8-1/2"
Type : FMF3653Z
Serial No : 10866299
IADC : M223
Jets : 3 x 16, 3x15
TFA: 1.107
Grading In: 0-1-NO-A-X-I-NO-DTF
Grading Out: 0-1-WT-N-X-I-ER-TD
Continuity remained with the FMF3653Z 's performance and as expected - while not exceeding pre-set 30m/hr to achieve data logging of 3 points per metre. THA04 was designed to build-up to 103° inclination while achieving multiplied drop & turn combinations all seeming to compound in the reservoir section, where it was difficult to maintain an accurate consistent WOB's overcoming well drag. Instantaneous ROP's greatly effected as a result.

Bit #	Manufacturer	Style	OD (in)	Gge Len (in)	Nozzles (/32's)	TFA (in²)	Dull Grades I O D L B G O R	Ftge (m)	Drlg hrs	ROP (m/hr)
1	Security	FMF3565Z	12.250	18.000	6x18	1.491	2-3-WT-S -X-1-ER-TD	2101	133.00	16
2	Security	FMF3653Z	8.500	11.500	3x15, 3x16	1.107	0-0-NO-A -X-I-NO-DTF	443	28.50	16
2rr1	Security	FMF3653Z	8.500	11.500	3x15, 3x16	1.107	0-1-WT-N -X-I-ER-TD	793	50.00	16

Table 3 - Bit Run Summary

WELL PLANNING:

THA04S1 P7 (12-1/4" hole section)
Was designed to successfully sidetrack, then depart from Thylacine South-1 Well bore by building inclination to a proposed 90.27inc and 101°azimuth

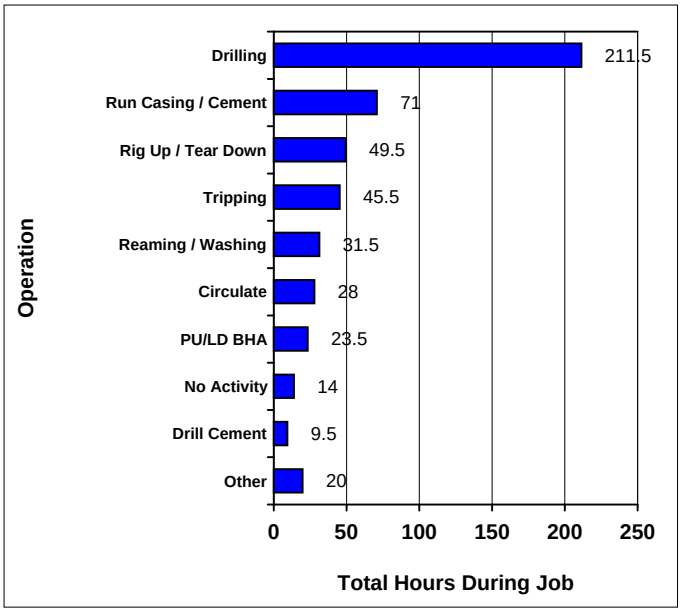
THA04S1 P9 (8-1/2" hole section)
Recovers well-bore from 75°inc/ 112.°azm then turns wellbore to 108°azm building 90 - 102°inc to intercept sand and maintain integrity.

THA04S1 P10 (8-1/2" hole section)
Was planned in response to Cazandra Software survey corrections azimuthal changes which placed the well-bore 8° right (south-easterly) from original survey stations.
The plan revisions called for a sail angle of 133.5° azimuth in-conjunction with inclination requirements of THA04S1P9 until TD.

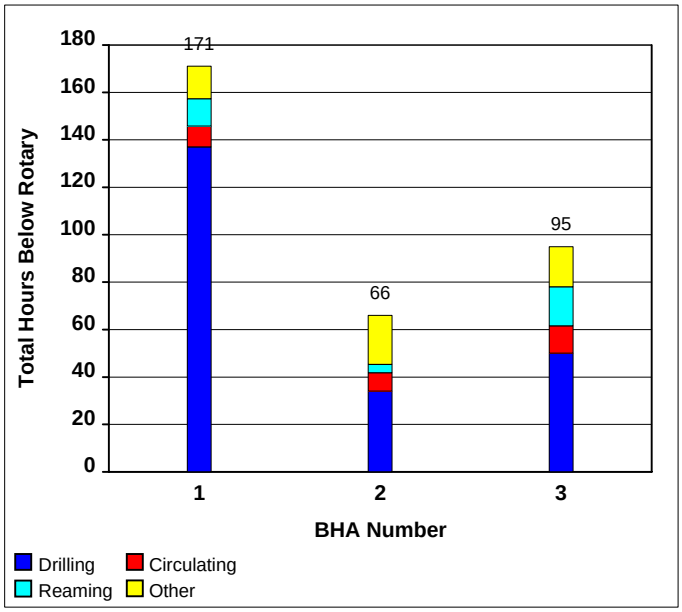
THA04S1 P11a (8-1/2" hole section)
This plan was designed by sub surface team to turn wellpath to the north at a rate of 2.50°/30m and drop 0.68°/30m from 3107m AHD until achieving 81.44°azimuth and 84.0°inclination.

THA04S1 P12 (8-1/2" hole section)
The conclusive wellplan revision was designed and agreed by all departments then implemented successfully achieving the least tortuous wellpath while capturing the most optimistic and desirable sections.

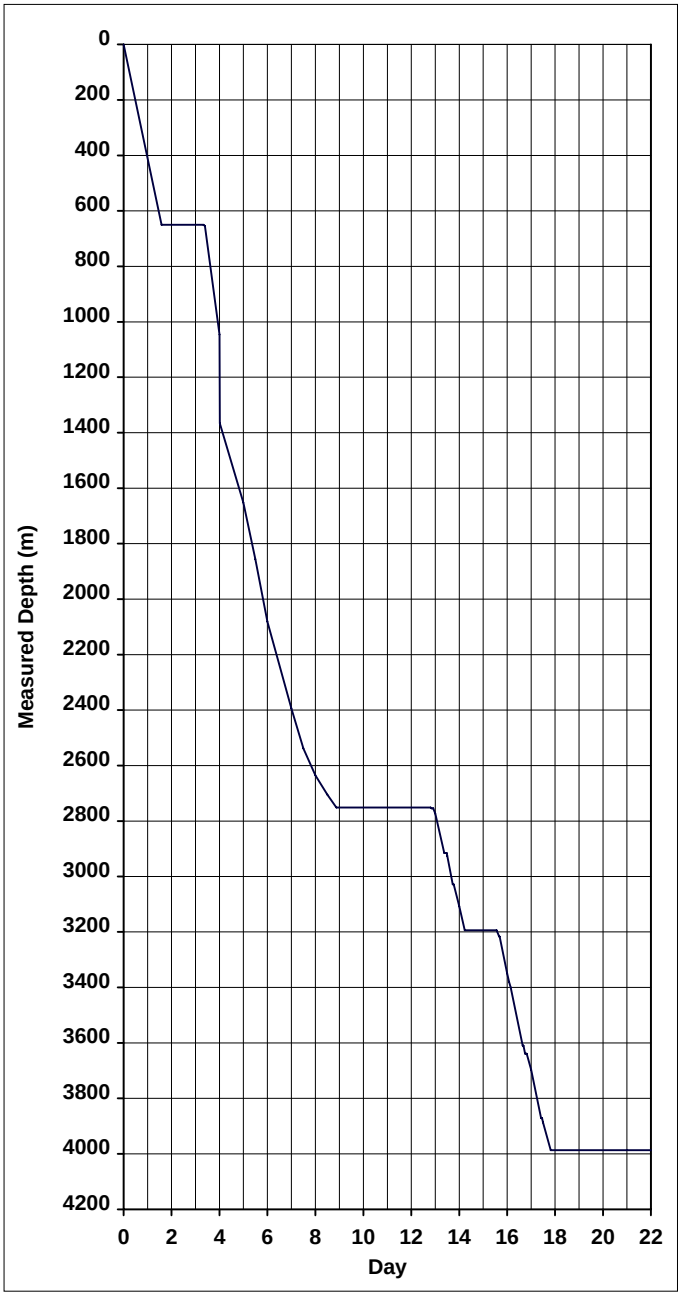
Hours by Operation Summary



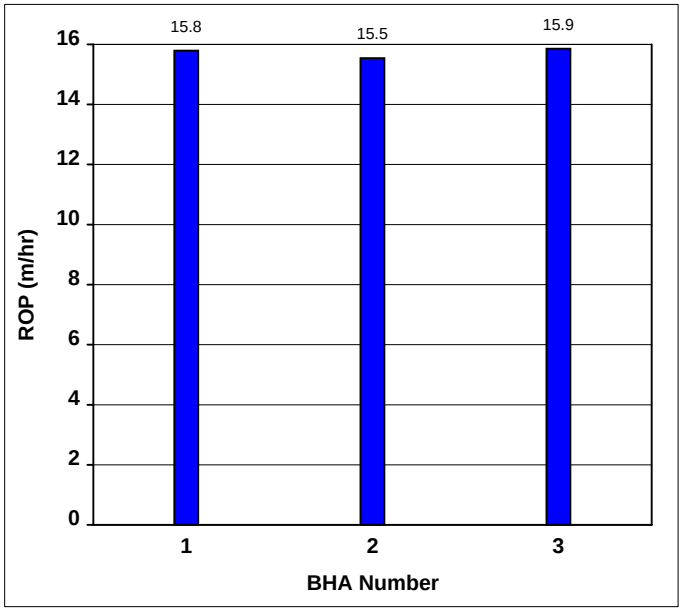
Hours per BHA Breakdown



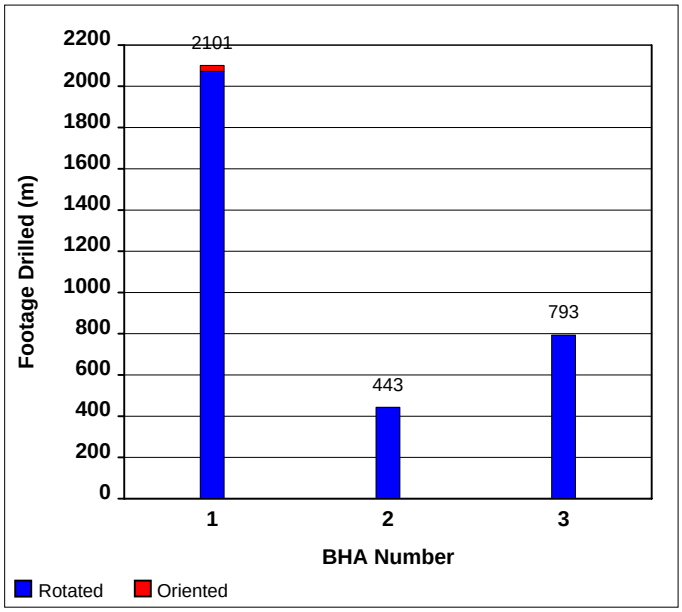
Days vs. Depth



Average Rate of Penetration per BHA



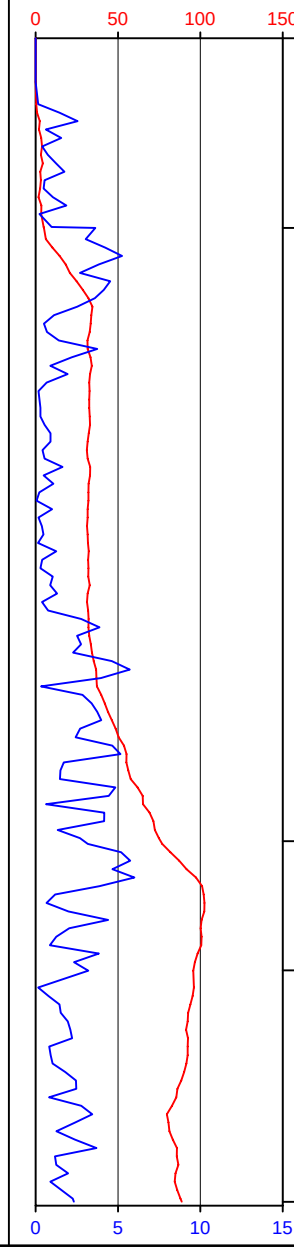
Footage per BHA



Sperry-Sun Drilling Services

Woodside Energy Ltd
THA04
Maersk Guardian

Thylacine
Slot 2
AU-DD-0003930660



MD (m)	Formation Name MD/TVD	Bit Data	Drilling Parameters	Motor	BHA Stabilizers	Comments	BHA ID
0							@ 0
200							
400							
600							#1 @ 650
800		FMF3565Z 6x18 /32's 0.86 ft/min 133.00 hrs	WOB 18 lbs RPM 155 FLO 1110 gpm SPP 3525 psi		12.063 in @ 0.34 m Stab @ 5.26 m 12.063 in @ 6.72 m 8.380 in @ 17.65 m 12.130 in @ 18.86 m		
1000							
1200							
1400							
1600							
1800							
2000							
2200							
2400							
2600							
2800		FMF3653Z 3x15, 3x16 /32's 0.85 ft/min 28.50 hrs	WOB 25 lbs RPM 110 FLO 737 gpm SPP 3390 psi		Stab @ 4.64 m 8.375 in @ 10.17 m 8.250 in @ 20.62 m	01:00hrs 21-Aug-06 Install RA Sources - RIH below table 19:30hrs 22-Aug-06 Remove RA sources - POOH tools above table 42:00hrs total below table.	#2 @ 2751
3000							
3200		FMF3653Z 3x15, 3x16 /32's 0.87 ft/min 50.00 hrs	WOB 21 lbs RPM 163 FLO 737 gpm SPP 3738 psi		8.375 in @ 10.63 m 8.250 in @ 21.08 m	01:00hrs 24-Aug-06 Install RA Sources - RIH below table 01:30hrs 28-Aug-06 Remove RA sources - POOH tools above table 96:50hrs total below table.	#3 @ 3194
3400							
3600							
3800							
4000							

Woodside Energy-Otway Gas Development

Otway Gas Development
Thylacine Platform
THA04 - Slot Slot 2
THA04S1

Design: THA04S1

Standard Survey Report

13 September, 2006

Halliburton Company

Survey Report

Company:	Woodside Energy-Otway Gas Develo	**Local Co-ordinate Reference:**	Well THA04 - Slot Slot 2
Project:	Otway Gas Development	**TVD Reference:**	RT Revised @ 50.50m
Site:	Thylacine Platform	**MD Reference:**	RT Revised @ 50.50m
Well:	THA04	**North Reference:**	Grid
Wellbore:	THA04S1	**Survey Calculation Method:**	Minimum Curvature
Design:	THA04S1	**Database:**	EDM 2003.14 Single User Db

Project Otway Gas Development, Otway Basin, Australia

Map System:	Universal Transverse Mercator	**System Datum:**	Lowest Astronomical Tide
Geo Datum:	GDA94		
Map Zone:	Zone 54S (138 E to 144 E)		

Site Thylacine Platform, T/30P

Site Position:		**Northing:**	5,655,160.20 m	**Latitude:**	39° 14' 14.451 S
From:	Map	**Easting:**	664,161.60 m	**Longitude:**	142° 54' 7.603 E
Position Uncertainty:	0.00 m	**Slot Radius:**	0.00 mm	**Grid Convergence:**	-1.20 °

Well THA04 - Slot Slot 2, Initially a pilot then horzontal

Well Position	**+N/-S**	0.00 m	**Northing:**	5,655,156.80 m	**Latitude:**	39° 14' 14.562 S
	+E/-W	0.00 m	**Easting:**	664,161.00 m	**Longitude:**	142° 54' 7.581 E
Position Uncertainty		0.00 m	**Wellhead Elevation:**	m	**Water Depth:**	99.50 m

Wellbore THA04S1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2006	24/08/2006	11.09	-70.33	61,034

Design THA04S1

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	647.17

Vertical Section:	Depth From (TVD) (m)	+N/-S (m)	+E/-W (m)	Direction (°)
	0.00	0.00	0.00	128.53

Survey Program **Date** 13/09/2006

From (m)	To (m)	Survey (Wellbore)	Tool Name	Description
150.00	647.17	THA04S0-MWD1 (Thylacine South-1)	MWD+SAG	MWD + Sag correction
650.00	2,682.84	THA04S1-MWD2 (THA04S1)	MWD+SAG	MWD + Sag correction
2,712.93	2,740.73	THA04S1-Interpolation (THA04S1)	INC+TREND	Inclinometer + known azi trend
2,760.53	3,987.00	THA04S1-MWD3 (THA04S1)	MWD+SAG	MWD + Sag correction

Survey

Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.00
150.00	0.00	0.00	150.00	0.00	0.00	0.00	0.000	0.00	0.00
226.25	0.42	43.55	226.25	0.20	0.19	0.02	0.165	0.17	0.00
255.20	0.96	220.86	255.20	0.10	0.11	0.02	1.430	0.56	183.74
284.12	2.66	155.31	284.11	-0.70	0.23	0.61	2.516	1.76	-68.00
313.07	2.14	162.30	313.03	-1.82	0.67	1.66	0.617	-0.54	7.24
341.94	3.55	171.66	341.86	-3.22	0.97	2.76	1.538	1.47	9.73
370.92	3.93	170.22	370.78	-5.09	1.27	4.16	0.405	0.39	-1.49
399.86	3.24	173.19	399.66	-6.88	1.53	5.48	0.740	-0.72	3.08
428.80	4.39	168.71	428.54	-8.77	1.85	6.91	1.231	1.19	-4.64
457.72	2.85	179.35	457.40	-10.58	2.07	8.21	1.736	-1.60	11.04
486.67	3.24	186.06	486.31	-12.11	1.99	9.10	0.547	0.40	6.95
515.59	2.78	184.56	515.19	-13.62	1.85	9.93	0.484	-0.48	-1.56
544.56	1.80	179.31	544.14	-14.78	1.80	10.61	1.037	-1.01	-5.44
573.45	3.58	179.65	572.99	-16.13	1.81	11.47	1.848	1.85	0.35

Halliburton Company

Survey Report

Company:	Woodside Energy-Otway Gas Develo	**Local Co-ordinate Reference:**	Well THA04 - Slot Slot 2
Project:	Otway Gas Development	**TVD Reference:**	RT Revised @ 50.50m
Site:	Thylacine Platform	**MD Reference:**	RT Revised @ 50.50m
Well:	THA04	**North Reference:**	Grid
Wellbore:	THA04S1	**Survey Calculation Method:**	Minimum Curvature
Design:	THA04S1	**Database:**	EDM 2003.14 Single User Db

Survey

Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
602.12	3.46	176.60	601.61	-17.89	1.87	12.61	0.233	-0.13	-3.19
632.40	4.43	175.80	631.82	-19.97	2.01	14.01	0.960	0.96	-0.80
18 5/8" Casing									
647.17	4.90	175.52	646.54	-21.17	2.10	14.83	0.960	0.96	-0.56
650.00	5.17	173.38	649.36	-21.42	2.12	15.00	3.530	2.92	-22.69
688.39	6.30	210.93	687.57	-24.94	1.24	16.51	3.000	0.88	29.34
717.30	10.31	208.79	716.17	-28.57	-0.82	17.16	4.173	4.16	-2.22
746.30	14.72	197.80	744.48	-34.36	-3.20	18.90	5.165	4.56	-11.37
775.25	18.30	195.23	772.23	-42.25	-5.52	22.00	3.785	3.71	-2.66
804.22	20.86	194.83	799.52	-51.63	-8.04	25.87	2.655	2.65	-0.41
823.00	23.52	192.61	816.91	-58.52	-9.71	28.86	4.462	4.26	-3.55
833.18	24.98	191.59	826.19	-62.61	-10.58	30.72	4.462	4.29	-3.00
862.14	28.78	189.26	852.02	-75.48	-12.94	36.90	4.084	3.94	-2.41
891.06	32.15	190.32	876.94	-89.93	-15.44	43.94	3.540	3.50	1.10
920.01	34.55	190.51	901.12	-105.58	-18.31	51.44	2.489	2.49	0.20
948.96	33.85	189.07	925.07	-121.61	-21.08	59.26	1.109	-0.73	-1.49
977.87	33.51	188.44	949.13	-137.46	-23.52	67.22	0.506	-0.35	-0.65
1,006.77	32.88	188.81	973.31	-153.10	-25.89	75.11	0.687	-0.65	0.38
1,035.71	31.56	189.35	997.79	-168.34	-28.33	82.70	1.401	-1.37	0.56
1,064.58	31.61	196.12	1,022.39	-183.07	-31.66	89.27	3.683	0.05	7.03
1,093.40	33.36	198.23	1,046.70	-197.85	-36.23	94.90	2.170	1.82	2.20
1,122.38	34.19	197.83	1,070.79	-213.17	-41.22	100.54	0.890	0.86	-0.41
1,151.26	33.03	195.24	1,094.85	-228.49	-45.77	106.52	1.915	-1.20	-2.69
1,180.18	32.68	194.25	1,119.14	-243.66	-49.77	112.85	0.665	-0.36	-1.03
1,209.13	32.85	194.31	1,143.48	-258.84	-53.63	119.29	0.179	0.18	0.06
1,238.05	32.69	194.61	1,167.80	-274.00	-57.54	125.67	0.236	-0.17	0.31
1,266.97	32.70	195.15	1,192.14	-289.10	-61.55	131.94	0.303	0.01	0.56
1,270.00	32.72	195.19	1,194.69	-290.68	-61.98	132.59	0.290	0.18	0.43
1,295.89	32.87	195.56	1,216.45	-304.20	-65.70	138.10	0.290	0.18	0.43
1,324.79	33.17	196.36	1,240.68	-319.34	-70.03	144.14	0.549	0.31	0.83
1,345.00	32.60	196.71	1,257.66	-329.86	-73.15	148.25	0.897	-0.85	0.53
1,353.72	32.35	196.87	1,265.01	-334.34	-74.51	149.99	0.897	-0.85	0.54
1,382.60	31.60	196.07	1,289.51	-349.01	-78.84	155.73	0.895	-0.78	-0.83
1,411.51	31.20	196.12	1,314.19	-363.48	-83.02	161.48	0.416	-0.42	0.05
1,440.36	31.66	195.63	1,338.80	-377.95	-87.13	167.27	0.547	0.48	-0.51
1,469.24	33.20	195.26	1,363.18	-392.88	-91.26	173.35	1.613	1.60	-0.38
1,498.12	33.15	196.11	1,387.35	-408.09	-95.53	179.48	0.486	-0.05	0.88
1,527.01	32.27	197.10	1,411.66	-423.05	-99.99	185.31	1.069	-0.91	1.03
1,555.95	32.13	197.42	1,436.15	-437.78	-104.56	190.91	0.229	-0.15	0.33
1,560.00	32.13	197.44	1,439.58	-439.83	-105.21	191.68	0.067	0.01	0.12
1,584.90	32.14	197.54	1,460.66	-452.47	-109.19	196.44	0.067	0.01	0.12
1,606.00	31.74	196.46	1,478.57	-463.14	-112.45	200.53	0.995	-0.57	-1.54
1,613.83	31.59	196.05	1,485.23	-467.09	-113.60	202.09	0.995	-0.56	-1.56
1,642.73	31.64	196.36	1,509.85	-481.64	-117.83	207.85	0.176	0.05	0.32
1,644.00	31.62	196.37	1,510.93	-482.27	-118.02	208.10	0.382	-0.36	0.23
1,654.00	31.50	196.45	1,519.45	-487.30	-119.50	210.07	0.382	-0.36	0.23
1,671.67	31.29	196.58	1,534.53	-496.12	-122.11	213.52	0.382	-0.36	0.23
1,700.54	31.70	196.96	1,559.15	-510.56	-126.47	219.11	0.473	0.43	0.39
1,729.45	31.83	196.87	1,583.73	-525.12	-130.89	224.72	0.144	0.13	-0.09
1,758.40	32.33	194.83	1,608.26	-539.91	-135.09	230.65	1.236	0.52	-2.11
1,787.33	31.96	195.03	1,632.75	-554.79	-139.06	236.81	0.399	-0.38	0.21
1,816.31	32.21	195.30	1,657.31	-569.64	-143.08	242.91	0.298	0.26	0.28

Halliburton Company

Survey Report

Company:	Woodside Energy-Otway Gas Develo	**Local Co-ordinate Reference:**	Well THA04 - Slot Slot 2
Project:	Otway Gas Development	**TVD Reference:**	RT Revised @ 50.50m
Site:	Thylacine Platform	**MD Reference:**	RT Revised @ 50.50m
Well:	THA04	**North Reference:**	Grid
Wellbore:	THA04S1	**Survey Calculation Method:**	Minimum Curvature
Design:	THA04S1	**Database:**	EDM 2003.14 Single User Db

Survey

Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
1,845.27	32.04	193.45	1,681.83	-584.56	-146.91	249.21	1.034	-0.18	-1.92
1,874.19	32.87	193.78	1,706.24	-599.64	-150.56	255.75	0.880	0.86	0.34
1,896.50	31.92	193.94	1,725.07	-611.25	-153.42	260.74	1.288	-1.28	0.22
1,903.18	31.63	193.99	1,730.75	-614.66	-154.27	262.20	1.288	-1.28	0.22
1,932.12	31.27	194.24	1,755.44	-629.30	-157.95	268.44	0.397	-0.37	0.26
1,961.07	31.95	194.74	1,780.10	-643.99	-161.75	274.62	0.755	0.70	0.52
1,972.00	32.03	192.87	1,789.37	-649.62	-163.13	277.05	2.732	0.22	-5.14
1,989.91	32.22	189.82	1,804.53	-658.95	-165.00	281.40	2.732	0.32	-5.10
2,018.81	32.07	182.90	1,829.01	-674.21	-166.71	289.57	3.824	-0.16	-7.18
2,047.73	32.63	178.55	1,853.45	-689.68	-166.90	299.05	2.483	0.58	-4.51
2,076.66	33.52	174.02	1,877.69	-705.42	-165.87	309.67	2.724	0.92	-4.70
2,105.61	34.25	170.36	1,901.73	-721.40	-163.67	321.34	2.245	0.76	-3.79
2,134.56	35.30	162.86	1,925.52	-737.44	-159.84	334.33	4.562	1.09	-7.77
2,163.44	36.78	153.99	1,948.89	-753.19	-153.58	349.03	5.630	1.54	-9.21
2,192.41	37.04	147.72	1,972.06	-768.37	-145.12	365.11	3.907	0.27	-6.49
2,221.34	37.25	147.33	1,995.12	-783.11	-135.74	381.63	0.327	0.22	-0.40
2,250.24	39.85	148.53	2,017.72	-798.37	-126.18	398.61	2.808	2.70	1.25
2,279.24	42.08	144.94	2,039.62	-814.25	-115.75	416.67	3.353	2.31	-3.71
2,308.15	43.98	140.53	2,060.76	-829.93	-103.80	435.79	3.692	1.97	-4.58
2,337.08	46.34	136.35	2,081.16	-845.27	-90.18	455.99	3.928	2.45	-4.33
2,366.05	48.66	134.83	2,100.73	-860.52	-75.24	477.18	2.668	2.40	-1.57
2,395.16	50.48	132.94	2,119.61	-875.87	-59.26	499.24	2.391	1.88	-1.95
2,424.05	53.68	129.08	2,137.37	-890.81	-42.06	522.00	4.586	3.32	-4.01
2,452.99	55.25	123.38	2,154.19	-904.71	-23.07	545.51	5.075	1.63	-5.91
2,481.90	55.15	121.40	2,170.69	-917.42	-3.03	569.12	1.690	-0.10	-2.05
2,509.33	56.34	122.19	2,186.13	-929.37	16.24	591.63	1.485	1.30	0.86
2,538.24	57.74	122.37	2,201.86	-942.32	36.75	615.74	1.461	1.45	0.19
2,551.99	59.74	121.32	2,209.00	-948.53	46.73	627.42	4.772	4.35	-2.29
,559.05	60.76	120.80	2,212.50	-951.69	51.98	633.49	4.772	4.37	-2.22
2,567.19	61.95	120.21	2,216.40	-955.31	58.14	640.57	4.772	4.38	-2.17
2,596.08	65.06	117.03	2,229.29	-967.69	80.83	666.03	4.377	3.23	-3.30
2,616.79	65.22	116.59	2,238.00	-976.16	97.61	684.43	0.630	0.24	-0.64
2,625.01	65.29	116.41	2,241.44	-979.49	104.28	691.73	0.630	0.24	-0.64
2,653.94	69.24	116.73	2,252.62	-991.42	128.14	717.83	4.108	4.10	0.33
2,682.84	71.58	113.35	2,262.31	-1,002.94	152.81	744.29	4.102	2.43	-3.51
2,712.93	72.42	112.26	2,271.61	-1,014.03	179.19	771.84	1.330	0.84	-1.09
2,740.73	74.87	112.04	2,279.43	-1,024.09	203.89	797.43	2.654	2.64	-0.24
2,742.80	75.09	112.02	2,279.97	-1,024.84	205.75	799.35	3.130	3.12	-0.24
9 5/8"									
2,743.50	75.16	112.02	2,280.15	-1,025.09	206.37	800.00	3.130	3.12	-0.24
2,760.53	76.93	111.88	2,284.26	-1,031.27	221.70	815.83	3.130	3.12	-0.24
2,789.54	81.86	112.24	2,289.60	-1,041.98	248.12	843.17	5.111	5.10	0.37
2,818.50	87.26	113.06	2,292.34	-1,053.07	274.72	870.89	5.657	5.59	0.85
2,847.45	91.70	113.17	2,292.60	-1,064.44	301.33	898.79	4.602	4.60	0.11
2,876.38	97.39	113.51	2,290.31	-1,075.86	327.80	926.61	5.911	5.90	0.35
2,905.33	101.06	113.86	2,285.67	-1,087.33	353.97	954.23	3.820	3.80	0.36
2,934.26	102.06	114.41	2,279.87	-1,098.92	379.83	981.68	1.178	1.04	0.57
2,963.19	102.62	114.71	2,273.69	-1,110.67	405.54	1,009.11	0.655	0.58	0.31
2,992.13	102.45	112.78	2,267.41	-1,122.04	431.39	1,036.42	1.961	-0.18	-2.00
3,021.10	100.84	108.83	2,261.56	-1,132.12	457.91	1,063.44	4.339	-1.67	-4.09
3,050.04	100.25	110.72	2,256.26	-1,141.74	484.68	1,090.38	2.021	-0.61	1.96
3,078.94	100.82	109.65	2,250.98	-1,151.55	511.35	1,117.35	1.242	0.59	-1.11
3,107.89	100.67	108.82	2,245.58	-1,160.92	538.20	1,144.19	0.859	-0.16	-0.86

Halliburton Company

Survey Report

Company:	Woodside Energy-Otway Gas Develo	**Local Co-ordinate Reference:**	Well THA04 - Slot Slot 2
Project:	Otway Gas Development	**TVD Reference:**	RT Revised @ 50.50m
Site:	Thylacine Platform	**MD Reference:**	RT Revised @ 50.50m
Well:	THA04	**North Reference:**	Grid
Wellbore:	THA04S1	**Survey Calculation Method:**	Minimum Curvature
Design:	THA04S1	**Database:**	EDM 2003.14 Single User Db

Survey

Measured Depth (m)	Inclination (°)	Azimuth (°)	Vertical Depth (m)	+N/-S (m)	+E/-W (m)	Vertical Section (m)	Dogleg Rate (°/30m)	Build Rate (°/30m)	Turn Rate (°/30m)
3,109.00	100.58	108.71	2,245.38	-1,161.27	539.24	1,145.22	3.777	-2.37	-2.99
3,136.86	98.37	105.95	2,240.79	-1,169.45	565.47	1,170.83	3.777	-2.38	-2.97
3,165.84	96.81	104.34	2,236.96	-1,176.95	593.19	1,197.20	2.310	-1.61	-1.67
3,182.00	96.26	102.72	2,235.12	-1,180.71	608.80	1,211.75	3.154	-1.02	-3.00
3,195.22	95.81	101.40	2,233.73	-1,183.46	621.66	1,223.52	3.154	-1.03	-3.00
3,253.07	96.12	101.34	2,227.72	-1,194.80	678.07	1,274.71	0.164	0.16	-0.03
3,282.02	95.38	101.48	2,224.82	-1,200.50	706.30	1,300.34	0.780	-0.77	0.15
3,310.99	94.02	101.74	2,222.45	-1,206.31	734.58	1,326.09	1.434	-1.41	0.27
3,339.94	92.66	101.22	2,220.76	-1,212.06	762.90	1,351.83	1.508	-1.41	-0.54
3,368.84	92.41	99.37	2,219.48	-1,217.22	791.31	1,377.26	1.936	-0.26	-1.92
3,397.77	91.42	97.62	2,218.51	-1,221.49	819.90	1,402.29	2.084	-1.03	-1.81
3,426.72	92.60	99.37	2,217.50	-1,225.76	848.52	1,427.34	2.186	1.22	1.81
3,455.57	92.29	98.64	2,216.27	-1,230.27	876.99	1,452.42	0.824	-0.32	-0.76
3,484.49	92.29	97.77	2,215.11	-1,234.40	905.59	1,477.36	0.902	0.00	-0.90
3,505.00	91.81	97.26	2,214.38	-1,237.08	925.91	1,494.93	1.027	-0.71	-0.75
3,513.42	91.61	97.05	2,214.13	-1,238.13	934.26	1,502.11	1.027	-0.71	-0.75
3,530.00	90.80	96.49	2,213.78	-1,240.08	950.72	1,516.21	1.782	-1.47	-1.01
3,542.37	90.19	96.08	2,213.67	-1,241.44	963.01	1,526.67	1.782	-1.47	-1.00
3,571.30	88.52	94.45	2,214.00	-1,244.09	991.82	1,550.86	2.420	-1.73	-1.69
3,600.24	86.18	94.28	2,215.34	-1,246.29	1,020.64	1,574.77	2.432	-2.43	-0.18
3,629.18	85.43	94.07	2,217.45	-1,248.39	1,049.43	1,598.60	0.807	-0.78	-0.22
3,658.15	82.83	94.52	2,220.42	-1,250.55	1,078.16	1,622.42	2.732	-2.69	0.47
3,687.12	79.76	93.37	2,224.80	-1,252.52	1,106.73	1,646.00	3.390	-3.18	-1.19
3,715.07	80.65	95.43	2,229.56	-1,254.63	1,134.19	1,668.80	2.379	0.96	2.21
3,744.95	81.33	96.49	2,234.24	-1,257.70	1,163.54	1,693.67	1.253	0.68	1.06
3,773.83	83.32	95.40	2,238.09	-1,260.66	1,192.00	1,717.78	2.352	2.07	-1.13
3,802.71	85.81	97.87	2,240.83	-1,263.99	1,220.55	1,742.19	3.635	2.59	2.57
3,831.66	85.74	99.00	2,242.96	-1,268.22	1,249.11	1,767.16	1.170	-0.07	1.17
3,860.58	86.73	99.67	2,244.86	-1,272.90	1,277.59	1,792.36	1.239	1.03	0.70
3,889.56	84.94	99.10	2,246.96	-1,277.61	1,306.10	1,817.60	1.944	-1.85	-0.59
3,918.44	84.50	98.36	2,249.62	-1,281.98	1,334.53	1,842.55	0.892	-0.46	-0.77
3,947.39	85.99	98.56	2,252.02	-1,286.22	1,363.06	1,867.52	1.558	1.54	0.21
3,976.36	88.03	99.24	2,253.53	-1,290.70	1,391.64	1,892.67	2.226	2.11	0.70
3,987.00	88.80	99.50	2,253.83	-1,292.43	1,402.14	1,901.95	2.291	2.17	0.73

Halliburton Company

Survey Report

Company:	Woodside Energy-Otway Gas Develo	**Local Co-ordinate Reference:**	Well THA04 - Slot Slot 2
Project:	Otway Gas Development	**TVD Reference:**	RT Revised @ 50.50m
Site:	Thylacine Platform	**MD Reference:**	RT Revised @ 50.50m
Well:	THA04	**North Reference:**	Grid
Wellbore:	THA04S1	**Survey Calculation Method:**	Minimum Curvature
Design:	THA04S1	**Database:**	EDM 2003.14 Single User Db

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (m)	+N/-S (m)	+E/-W (m)	Northing (m)	Easting (m)	Latitude	Longitude

Casing Points

Measured Depth (m)	Vertical Depth (m)	Name	Casing Diameter (mm)	Hole Diameter (mm)
632.40	631.82	18 5/8" Casing	473.07	609.60
2,742.80	2,279.97	9 5/8"	244.47	311.15

Formations

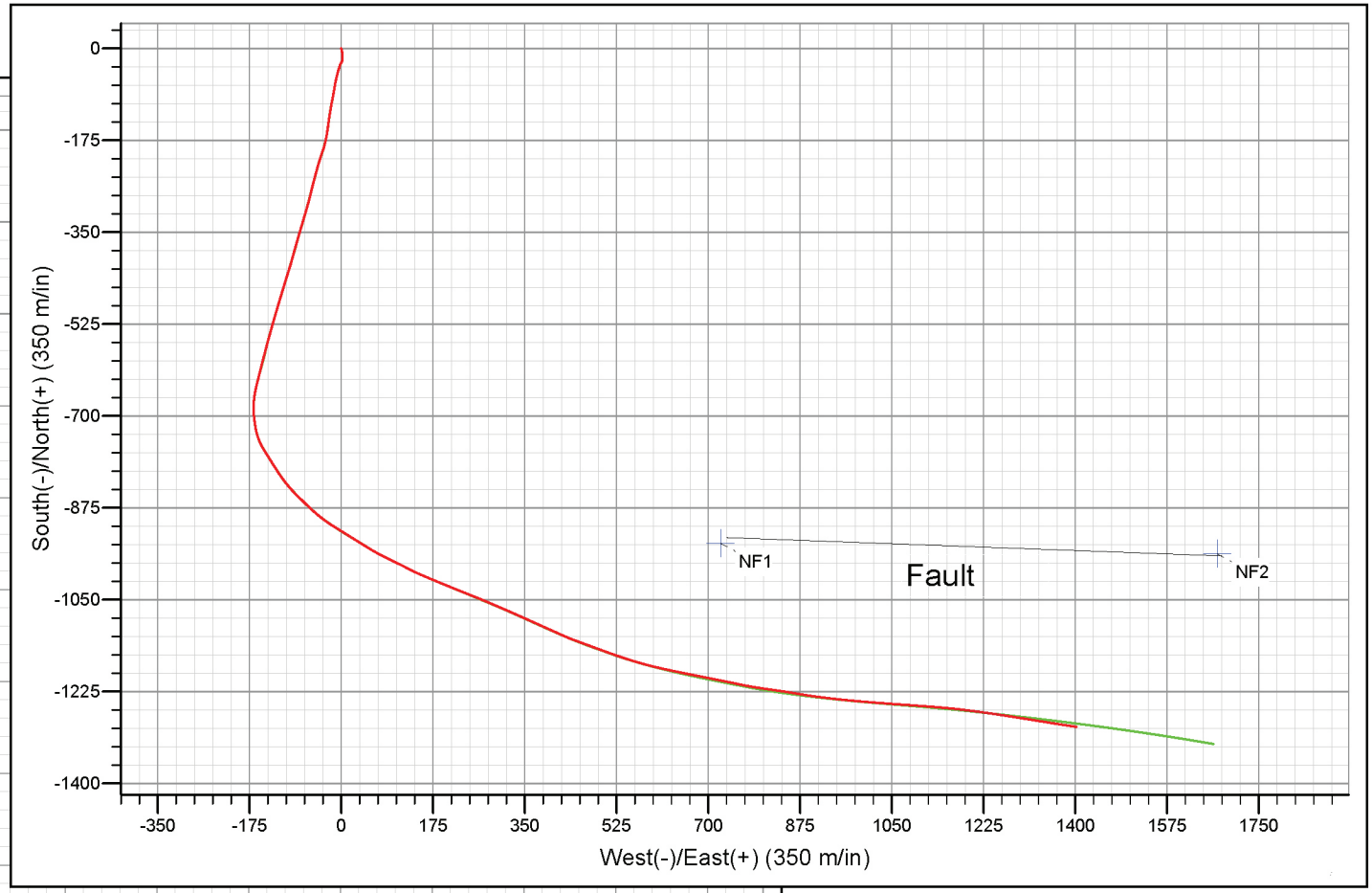
Measured Depth (m)	Vertical Depth (m)	Name	Lithology	Dip (°)	Dip Direction (°)

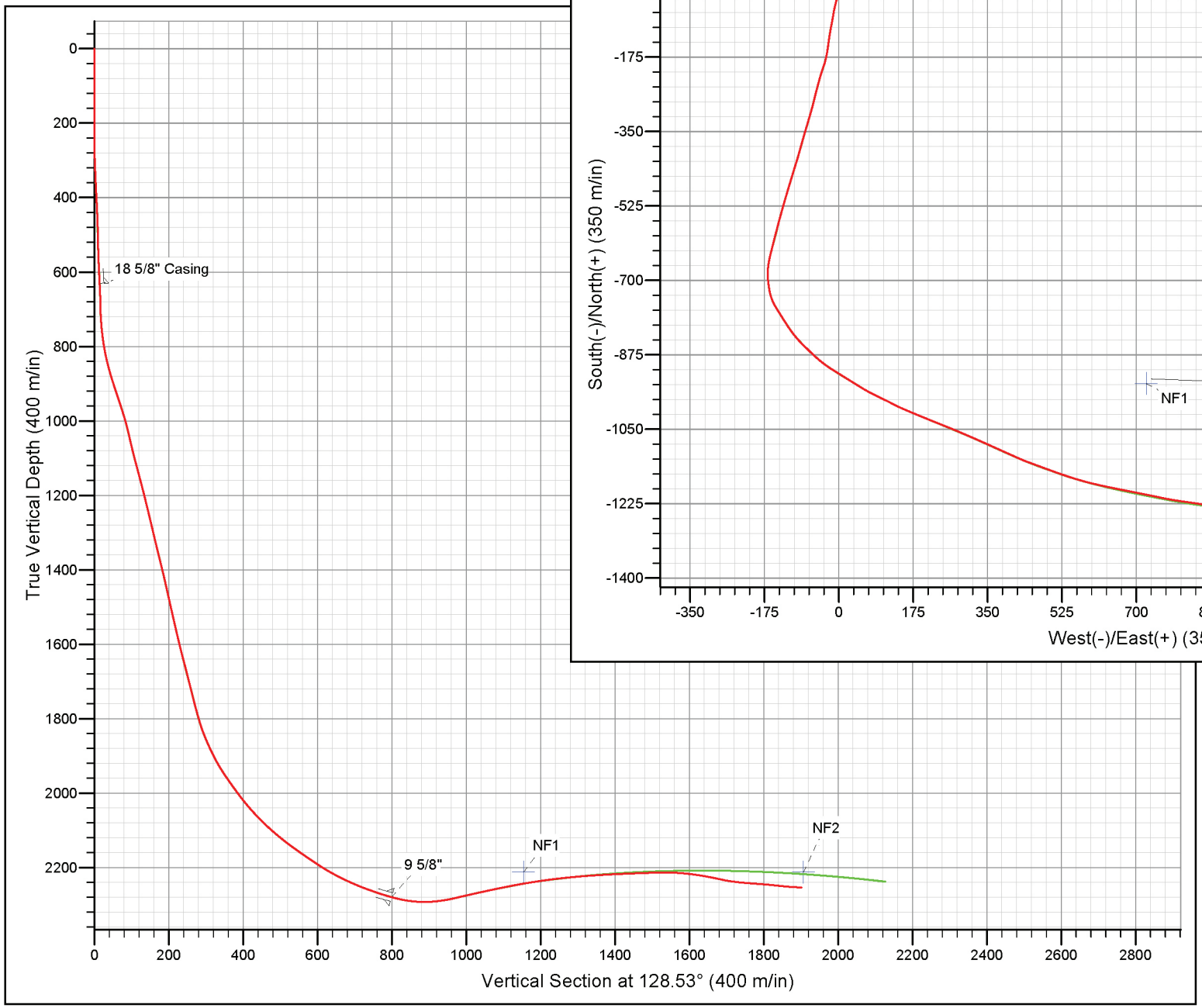
Checked By: _____ Approved By: _____ Date: _____

Sperry Drilling Services

Project: Otway Gas Development
Site: Thylacine Platform
Well: THA04
Wellbore: THA04S1
Design: THA04S1 (THA04/THA04S1)

WOODSIDE





LEGEND

THA04, THA04S1, THA04S1P12 V0

THA04S1

sperry-sun DRILLING SERVICES

Survey and Drilling Parameters

Customer : Woodside Energy Ltd
Well : THA04
Rig : Maersk Guardian

Field : Thylacine
Slot : Slot 2
Job # : AU-DD-0003930660

North Ref : Grid **Declination :** ° **VS Dir :** 128.53° (from Wellhead)

WELLBORE SURVEY										DRILLING PARAMETERS									
Measured Depth (m)	Incl Angle (deg)	Azi Dir (deg)	Vertical Depth (m)	Vertical Section (m)	Coordinates N/S (m)	Coordinates E/W (m)	DLS (°/100')	Build Rate (°/100')	Turn Rate (°/100')	WOB (lbs)	RPM	Flow Rate (gpm)	Stand Pipe (psi)	Orientation From (m)	Orientation To (m)	Tool Face (deg)	ROP (m/hr)	BHA No. (#)	Comment
0.00	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00										Tieon
150.00	0.00	0.00	150.0	0.0	0.0	0.0	0.00	0.00	0.00										
226.25	0.42	43.55	226.2	0.0	0.2	0.2	0.17	0.17	0.00										
255.20	0.96	220.86	255.2	0.0	0.1	0.1	1.45	0.57	0.00										
284.12	2.66	155.31	284.1	0.6	-0.7	0.2	2.56	1.79	0.00										
313.07	2.14	162.30	313.0	1.7	-1.8	0.7	0.63	-0.55	7.36										
341.94	3.55	171.66	341.9	2.8	-3.2	1.0	1.56	1.49	9.88										
370.92	3.93	170.22	370.8	4.2	-5.1	1.3	0.41	0.40	-1.51										
399.86	3.24	173.19	399.7	5.5	-6.9	1.5	0.75	-0.73	3.13										
428.80	4.39	168.71	428.5	6.9	-8.8	1.8	1.25	1.21	-4.72										
457.72	2.85	179.35	457.4	8.2	-10.6	2.1	1.76	-1.62	11.21										
486.67	3.24	186.06	486.3	9.1	-12.1	2.0	0.56	0.41	7.06										
515.59	2.78	184.56	515.2	9.9	-13.6	1.9	0.49	-0.48	-1.58										
544.56	1.80	179.31	544.1	10.6	-14.8	1.8	1.05	-1.03	-5.52										
573.45	3.58	179.65	573.0	11.5	-16.1	1.8	1.88	1.88	0.36										
602.12	3.46	176.60	601.6	12.6	-17.9	1.9	0.24	-0.13	-3.24										
647.17	4.90	175.52	646.5	14.8	-21.2	2.1	0.98	0.97	-0.73										
650.00	5.18	173.38	649.4	15.0	-21.4	2.1	3.63	3.02	-23.05	7	65	940	2100				5	1	
688.39	6.30	210.93	687.6	16.5	-24.9	1.2	3.05	0.89	29.81	7	65	940	2100				5	1	
717.30	10.31	208.79	716.2	17.2	-28.6	-0.8	4.24	4.23	-2.26	7		940	2100	698	717		5	1	
746.30	14.72	197.80	744.5	18.9	-34.4	-3.2	5.25	4.64	-11.55	18	120	110	2850	717	727		35	1	
775.25	18.30	195.23	772.2	22.0	-42.3	-5.5	3.85	3.77	-2.71	25	160	1100	2850				35	1	
804.22	20.86	194.83	799.5	25.9	-51.6	-8.0	2.70	2.69	-0.42	20	160	1100	2850				50	1	
833.18	24.98	191.59	826.2	30.7	-62.6	-10.6	4.53	4.34	-3.41	20	175	1150	3100				50	1	
862.14	28.78	189.26	852.0	36.9	-75.5	-12.9	4.15	4.00	-2.45	20	175	1150	3100				50	1	
891.06	32.15	190.32	876.9	43.9	-89.9	-15.4	3.60	3.55	1.12	20	175	1150	3100				50	1	
920.01	34.55	190.51	901.1	51.4	-105.6	-18.3	2.53	2.53	0.20	20	175	1150	3070				70	1	
948.96	33.85	189.07	925.1	59.3	-121.6	-21.1	1.13	-0.74	-1.52	20	175	1150	3070				70	1	
977.87	33.51	188.44	949.1	67.2	-137.5	-23.5	0.51	-0.36	-0.66	20	175	1150	3070				70	1	
1006.77	32.88	188.81	973.3	75.1	-153.1	-25.9	0.70	-0.66	0.39	20	175	1150	3070				70	1	

sperry-sun DRILLING SERVICES

Survey and Drilling Parameters

Customer : Woodside Energy Ltd
Well : THA04
Rig : Maersk Guardian

Field : Thylacine
Slot : Slot 2
Job # : AU-DD-0003930660

North Ref : Grid **Declination :** ° **VS Dir :** 128.53° (from Wellhead)

WELLBORE SURVEY										DRILLING PARAMETERS									
Measured Depth (m)	Incl Angle (deg)	Azi Dir (deg)	Vertical Depth (m)	Vertical Section (m)	Coordinates N/S (m)	Coordinates E/W (m)	DLS (°/100')	Build Rate (°/100')	Turn Rate (°/100')	WOB (lbs)	RPM	Flow Rate (gpm)	Stand Pipe (psi)	Orientation From (m)	Orientation To (m)	Tool Face (deg)	ROP (m/hr)	BHA No. (#)	Comment
1035.71	31.56	189.35	997.8	82.7	-168.3	-28.3	1.42	-1.39	0.57	20	175	1150	3070				70	1	
1064.58	31.61	196.12	1022.4	89.3	-183.1	-31.7	3.74	0.05	7.15	20	175	1150	3195				65	1	
1093.40	33.36	198.23	1046.7	94.9	-197.9	-36.2	2.20	1.85	2.23	15	175	1150	3195				65	1	
1122.38	34.19	197.83	1070.8	100.5	-213.2	-41.2	0.90	0.87	-0.42	15	175	1150	3195				65	1	
1151.26	33.03	195.24	1094.8	106.5	-228.5	-45.8	1.95	-1.22	-2.73	15	175	1150	3195				65	1	
1180.18	32.68	194.25	1119.1	112.9	-243.7	-49.8	0.68	-0.37	-1.04	15	175	1150	3195				65	1	
1209.13	32.85	194.31	1143.5	119.3	-258.8	-53.6	0.18	0.18	0.06	12	175	1150	3260				65	1	
1238.05	32.69	194.61	1167.8	125.7	-274.0	-57.5	0.24	-0.17	0.32	12	175	1150	3355				65	1	
1266.97	32.70	195.15	1192.1	131.9	-289.1	-61.6	0.31	0.01	0.57	15	170	1150	3345				60	1	
1295.89	32.87	195.56	1216.5	138.1	-304.2	-65.7	0.29	0.18	0.43	14	175	1150	3344				67	1	
1324.79	33.17	196.36	1240.7	144.1	-319.3	-70.0	0.56	0.32	0.84	10	175	1150	3350				50	1	
1353.72	32.35	196.87	1265.0	150.0	-334.3	-74.5	0.91	-0.86	0.54	12	175	1150	3350				45	1	
1382.60	31.60	196.07	1289.5	155.7	-349.0	-78.8	0.91	-0.79	-0.84	10	170	1150	3350				45	1	
1411.51	31.20	196.12	1314.2	161.5	-363.5	-83.0	0.42	-0.42	0.05	10	90	1000	2850				20	1	
1440.36	31.66	195.63	1338.8	167.3	-378.0	-87.1	0.56	0.49	-0.52	8	170	1150	3600				58	1	
1469.24	33.20	195.26	1363.2	173.3	-392.9	-91.3	1.64	1.63	-0.39	10	170	1150	3580				58	1	
1498.12	33.15	196.11	1387.4	179.5	-408.1	-95.5	0.49	-0.05	0.90	10	170	1150	3580				80	1	
1527.01	32.27	197.10	1411.7	185.3	-423.1	-100.0	1.09	-0.93	1.04	12	170	1150	3550				70	1	
1555.95	32.13	197.42	1436.1	190.9	-437.8	-104.6	0.23	-0.15	0.34	10	170	1150	3600				70	1	
1584.90	32.14	197.54	1460.7	196.4	-452.5	-109.2	0.07	0.01	0.13	8	170	1150	3700				70	1	
1613.83	31.59	196.05	1485.2	202.1	-467.1	-113.6	1.01	-0.58	-1.57	10	170	1150	3700				29	1	
1642.73	31.64	196.36	1509.8	207.8	-481.6	-117.8	0.18	0.05	0.33	10	170	1150	3770				70	1	
1671.67	31.29	196.58	1534.5	213.5	-496.1	-122.1	0.39	-0.37	0.23	10	170	1150	3770				70	1	
1700.54	31.70	196.96	1559.1	219.1	-510.6	-126.5	0.48	0.43	0.40	10	170	1150	3770				70	1	
1729.45	31.83	196.87	1583.7	224.7	-525.1	-130.9	0.15	0.14	-0.09	10	170	1150	3770				70	1	
1758.40	32.33	194.83	1608.3	230.6	-539.9	-135.1	1.26	0.53	-2.15	12	170	1150	3780				45	1	
1787.33	31.96	195.03	1632.8	236.8	-554.8	-139.1	0.41	-0.39	0.21	10	170	1150	3750				40	1	
1816.31	32.21	195.30	1657.3	242.9	-569.6	-143.1	0.30	0.26	0.28	12	170	1150	3750				20	1	
1845.27	32.04	193.45	1681.8	249.2	-584.6	-146.9	1.05	-0.18	-1.95	12	170	1150	3750				40	1	
1874.19	32.87	193.78	1706.2	255.8	-599.6	-150.6	0.89	0.87	0.35	23	170	1145	3805				40	1	
1903.18	31.63	193.99	1730.8	262.2	-614.7	-154.3	1.31	-1.30	0.22	23	170	1145	3800				40	1	

sperry-sun DRILLING SERVICES

Survey and Drilling Parameters

Customer : Woodside Energy Ltd
Well : THA04
Rig : Maersk Guardian

Field : Thylacine
Slot : Slot 2
Job # : AU-DD-0003930660

North Ref : Grid **Declination :** ° **VS Dir :** 128.53° (from Wellhead)

WELLBORE SURVEY										DRILLING PARAMETERS									
Measured Depth (m)	Incl Angle (deg)	Azi Dir (deg)	Vertical Depth (m)	Vertical Section (m)	Coordinates N/S (m)	Coordinates E/W (m)	DLS (°/100')	Build Rate (°/100')	Turn Rate (°/100')	WOB (lbs)	RPM	Flow Rate (gpm)	Stand Pipe (psi)	Orientation From (m)	Orientation To (m)	Tool Face (deg)	ROP (m/hr)	BHA No. (#)	Comment
1932.12	31.27	194.24	1755.4	268.4	-629.3	-158.0	0.40	-0.38	0.26	20	170	1150	3800				50	1	
1961.07	31.95	194.74	1780.1	274.6	-644.0	-161.8	0.77	0.72	0.53	25	170	1150	3900				40	1	
1989.91	32.22	189.82	1804.5	281.4	-659.0	-165.0	2.78	0.29	-5.20	25	170	1150	3900				40	1	
2018.81	32.07	182.90	1829.0	289.6	-674.2	-166.7	3.88	-0.16	-7.30	28	170	1150	3990				35	1	
2047.73	32.63	178.55	1853.4	299.1	-689.7	-166.9	2.52	0.59	-4.58	28	170	1150	4000				35	1	
2076.66	33.52	174.02	1877.7	309.7	-705.4	-165.9	2.77	0.94	-4.77	15	170	1150	3950				29	1	
2105.61	34.25	170.36	1901.7	321.3	-721.4	-163.7	2.28	0.77	-3.85	15	170	1150	3950				20	1	
2134.56	35.30	162.86	1925.5	334.3	-737.4	-159.8	4.63	1.11	-7.90	15	170	1150	3950				20	1	
2163.44	36.78	153.99	1948.9	349.0	-753.2	-153.6	5.72	1.56	-9.36	25	120	1030	3370				20	1	
2192.41	37.04	147.72	1972.1	365.1	-768.4	-145.1	3.97	0.27	-6.60	25	130	1150	4035				25	1	
2221.34	37.25	147.33	1995.1	381.6	-783.1	-135.7	0.33	0.22	-0.41	20	130	1145	4025				25	1	
2250.24	39.85	148.53	2017.7	398.6	-798.4	-126.2	2.85	2.74	1.27	25	130	1145	4050				25	1	
2279.24	42.08	144.94	2039.6	416.7	-814.3	-115.7	3.41	2.34	-3.77	20	130	1145	4100				26	1	
2308.15	43.98	140.53	2060.8	435.8	-829.9	-103.8	3.75	2.00	-4.65	25	130	1145	4100				26	1	
2337.08	46.34	136.35	2081.2	456.0	-845.3	-90.2	3.99	2.49	-4.40	25	130	1145	4130				33	1	
2366.05	48.66	134.83	2100.7	477.2	-860.5	-75.2	2.71	2.44	-1.60	25	130	1145	4150				25	1	
2395.16	50.48	132.94	2119.6	499.2	-875.9	-59.3	2.43	1.91	-1.98	25	130	1145	4150				25	1	
2424.05	53.68	129.08	2137.4	522.0	-890.8	-42.1	4.66	3.38	-4.07	20	130	1145	4100				30	1	
2452.99	55.25	123.38	2154.2	545.5	-904.7	-23.1	5.16	1.65	-6.00	28	140	1145	4150				30	1	
2481.90	55.15	121.40	2170.7	569.1	-917.4	-3.0	1.72	-0.11	-2.09	24	120	985	3160				20	1	
2509.33	56.34	122.19	2186.1	591.6	-929.4	16.2	1.51	1.32	0.88	22	130	985	3160				25	1	
2538.24	57.74	122.37	2201.9	615.7	-942.3	36.7	1.48	1.48	0.19	22	130	985	3160				25	1	
2567.19	61.95	120.21	2216.4	640.6	-955.3	58.1	4.85	4.43	-2.27	22	130	985	3160				25	1	
2596.08	65.06	117.03	2229.3	666.0	-967.7	80.8	4.45	3.28	-3.36	22	130	985	3160				25	1	
2625.01	65.29	116.41	2241.4	691.7	-979.5	104.3	0.64	0.24	-0.65	25	140	1130	4100				10	1	
2653.94	69.24	116.73	2252.6	717.8	-991.4	128.1	4.17	4.16	0.34	28	130	1130	4080				11	1	
2682.84	71.58	113.35	2262.3	744.3	-1002.9	152.8	4.17	2.47	-3.56	26	125	1130	4080				7	1	
2712.93	72.42	112.26	2271.6	771.8	-1014.0	179.2	1.35	0.85	-1.10	20	125	1140	4080				6	1	
2740.73	74.87	112.04	2279.4	797.4	-1024.1	203.9	2.70	2.69	-0.24	22	130	1140	4180				9	1	
2760.53	76.93	111.88	2284.3	815.8	-1031.3	221.7	3.18	3.17	-0.25	25	90	1140	4150				9	2	
2789.54	81.86	112.24	2289.6	843.2	-1042.0	248.1	5.19	5.18	0.38	25	75	600	2320				10	2	

sperry-sun DRILLING SERVICES

Survey and Drilling Parameters

Customer : Woodside Energy Ltd
Well : THA04
Rig : Maersk Guardian

Field : Thylacine
Slot : Slot 2
Job # : AU-DD-0003930660

North Ref : Grid **Declination :** ° **VS Dir :** 128.53° (from Wellhead)

WELLBORE SURVEY										DRILLING PARAMETERS									
Measured Depth (m)	Incl Angle (deg)	Azi Dir (deg)	Vertical Depth (m)	Vertical Section (m)	Coordinates N/S (m)	Coordinates E/W (m)	DLS (°/100')	Build Rate (°/100')	Turn Rate (°/100')	WOB (lbs)	RPM	Flow Rate (gpm)	Stand Pipe (psi)	Orientation From (m)	Orientation To (m)	Tool Face (deg)	ROP (m/hr)	BHA No. (#)	Comment
2818.50	87.26	113.06	2292.3	870.9	-1053.1	274.7	5.75	5.68	0.86	25	75	600	2400				10	2	
2847.45	91.70	113.17	2292.6	898.8	-1064.4	301.3	4.68	4.67	0.12	25	90	600	2530				25	2	
2876.38	97.39	113.51	2290.3	926.6	-1075.9	327.8	6.01	5.99	0.36	25	90	750	3500				25	2	
2905.33	101.06	113.86	2285.7	954.2	-1087.3	354.0	3.88	3.86	0.37	20	90	750	3480				20	2	
2934.26	102.06	114.41	2279.9	981.7	-1098.9	379.8	1.20	1.05	0.58	24	125	750	3480				30	2	
2963.19	102.62	114.71	2273.7	1009.1	-1110.7	405.5	0.67	0.59	0.32	24	125	740	3450				20	2	
2992.13	102.45	112.78	2267.4	1036.4	-1122.0	431.4	1.99	-0.18	-2.03	25	125	750	3500				25	2	
3021.10	100.84	108.83	2261.6	1063.4	-1132.1	457.9	4.41	-1.69	-4.16	25	125	750	3520				25	2	
3050.04	100.25	110.72	2256.3	1090.4	-1141.7	484.7	2.05	-0.62	1.99	24	125	750	3726				15	2	
3078.94	100.82	109.65	2251.0	1117.3	-1151.5	511.4	1.26	0.60	-1.13	28	125	750	3550				17	2	
3107.89	100.67	108.82	2245.6	1144.2	-1160.9	538.2	0.87	-0.16	-0.87	22	125	750	3770				27	2	
3136.86	98.37	105.95	2240.8	1170.8	-1169.5	565.5	3.84	-2.42	-3.02	25	125	750	3770				25	2	
3165.84	96.81	104.34	2237.0	1197.2	-1177.0	593.2	2.35	-1.64	-1.69	28	125	750	3725				15	2	
3195.22	95.81	101.40	2233.7	1223.5	-1183.5	621.7	3.20	-1.04	-3.05	28	125	750	3750				18	3	
3253.07	96.12	101.34	2227.7	1274.7	-1194.8	678.1	0.17	0.16	-0.03	20	165	750	4000				15	3	
3282.02	95.38	101.48	2224.8	1300.3	-1200.5	706.3	0.79	-0.78	0.15	20	165	750	3850				25	3	
3310.99	94.02	101.74	2222.4	1326.1	-1206.3	734.6	1.46	-1.43	0.27	15	165	750	3750				25	3	
3339.94	92.66	101.22	2220.8	1351.8	-1212.1	762.9	1.53	-1.43	-0.55	18	165	750	3750				20	3	
3368.84	92.41	99.37	2219.5	1377.3	-1217.2	791.3	1.97	-0.26	-1.95	20	165	730	3630				28	3	
3397.77	91.42	97.62	2218.5	1402.3	-1221.5	819.9	2.12	-1.04	-1.84	22	165	730	3565				24	3	
3426.72	92.60	99.37	2217.5	1427.3	-1225.8	848.5	2.22	1.24	1.84	22	165	730	3565				25	3	
3455.57	92.29	98.64	2216.3	1452.4	-1230.3	877.0	0.84	-0.33	-0.77	18	165	730	3565				20	3	
3484.49	92.29	97.77	2215.1	1477.4	-1234.4	905.6	0.92	0.00	-0.92	15	165	730	3565				25	3	
3513.42	91.61	97.05	2214.1	1502.1	-1238.1	934.3	1.04	-0.72	-0.76	15	165	740	3700				25	3	
3542.37	90.19	96.08	2213.7	1526.7	-1241.4	963.0	1.81	-1.50	-1.02	25	165	740	3700				25	3	
3571.30	88.52	94.45	2214.0	1550.9	-1244.1	991.8	2.46	-1.76	-1.72	25	165	740	3700				20	3	
3600.24	86.18	94.28	2215.3	1574.8	-1246.3	1020.6	2.47	-2.46	-0.18	20	165	740	3720				23	3	
3629.18	85.43	94.07	2217.5	1598.6	-1248.4	1049.4	0.82	-0.79	-0.22	20	165	740	3750				25	3	
3658.15	82.83	94.52	2220.4	1622.4	-1250.6	1078.2	2.78	-2.74	0.47	25	165	740	3780				27	3	
3687.12	79.76	93.37	2224.8	1646.0	-1252.5	1106.7	3.44	-3.23	-1.21	25	165	740	3780				23	3	

sperry-sun DRILLING SERVICES

Survey and Drilling Parameters

Customer : Woodside Energy Ltd
Well : THA04
Rig : Maersk Guardian

Field : Thylacine
Slot : Slot 2
Job # : AU-DD-0003930660

North Ref : Grid **Declination :** ° **VS Dir :** 128.53° (from Wellhead)

WELLBORE SURVEY										DRILLING PARAMETERS									
Measured Depth (m)	Incl Angle (deg)	Azi Dir (deg)	Vertical Depth (m)	Vertical Section (m)	Coordinates N/S (m)	Coordinates E/W (m)	DLS (°/100')	Build Rate (°/100')	Turn Rate (°/100')	WOB (lbs)	RPM	Flow Rate (gpm)	Stand Pipe (psi)	Orientation From (m)	Orientation To (m)	Tool Face (deg)	ROP (m/hr)	BHA No. (#)	Comment
3715.07	80.65	95.43	2229.6	1668.8	-1254.6	1134.2	2.42	0.97	2.25	20	165	740	3800				25	3	
3744.95	81.33	96.49	2234.2	1693.7	-1257.7	1163.5	1.27	0.69	1.08	23	165	735	3775				30	3	
3773.83	83.32	95.40	2238.1	1717.8	-1260.7	1192.0	2.39	2.10	-1.15	23	165	735	3775				30	3	
3802.71	85.81	97.87	2240.8	1742.2	-1264.0	1220.6	3.69	2.63	2.61	20	165	735	3775				24	3	
3831.66	85.74	99.00	2243.0	1767.2	-1268.2	1249.1	1.19	-0.07	1.19	22	165	735	3775				25	3	
3860.58	86.73	99.67	2244.9	1792.4	-1272.9	1277.6	1.26	1.04	0.71	23	165	735	3775				25	3	
3889.56	84.94	99.10	2247.0	1817.6	-1277.6	1306.1	1.98	-1.88	-0.60	22	165	735	3825				20	3	
3918.44	84.50	98.36	2249.6	1842.6	-1282.0	1334.5	0.91	-0.46	-0.78	20	165	730	3780				20	3	
3947.39	85.99	98.56	2252.0	1867.5	-1286.2	1363.1	1.58	1.57	0.21	20	165	730	3780				28	3	
3976.36	88.03	99.24	2253.5	1892.7	-1290.7	1391.6	2.26	2.15	0.72	30	165	700	3500				16	3	
3987.00	88.80	99.50	2253.8	1902.0	-1292.4	1402.1	2.33	2.21	0.74	30	165	700	3500				20		

Sperry-Sun DRILLING SERVICES

BHA Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

BHA# 1

BHA# 1 : **Date In** :11/08/200 **MD In (m) :** 650 **TVD In (m) :** 649 **Date Out** 18/08/2006 **MD Out (m):** 2751 **TVD Out (m):** 2282

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (in²)	Dull Condition
1	12.250	Security	FMF3565Z	10866299	6x18	1.491	2-3-WT-S -X-1-ER-TD

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
	9.625	SSDS		1225TL082	0.00°		50	157.25

COMPONENT DATA

Item #	Description	Serial #	OD (in)	ID (in)	Gauge (in)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	12-1/4" PDC Security FMF3565Z	10866299	12.250	3.000	12.250	377.57	B 6-5/8" Reg	0.10	
2	12-1/4" Bit Sleeve Stabilizer	DBS	8.000	3.375	12.063	140.82	B 6-5/8" Reg	0.52	0.34
3	9600 Series Geopilot	1225TL082	9.625	6.135	11.750	147.22	B 6-5/8" Reg	5.75	5.26
4	8" NM Repeat Sub w/12-1/16" Stab	0000x	8.000	2.375	12.063	156.21	B 6-5/8" Reg	0.87	6.72
5	8" NM Flex Drill Collar & DM	CP719940	8.000	2.375		156.21	B 6-5/8" Reg	2.81	
6	8" RLL w/DGR + EWR + PWD + HCIM	DM90108244	8.000	2.375	8.380	156.21	B 6-5/8" Reg	8.56	
7	8" NM 12-1/8" Stabilizer (Feed Thru)	CP578878	8.000	3.500	12.130	138.52	B 6-5/8" Reg	0.56	18.86
8	8" NM Pony Drill Collar (MWD Feed Thru)	129034	8.000	3.000		147.22	B 6-5/8" Reg	2.21	
9	8" NM Hang-off Collar	10718049	8.000	2.375		156.21	B 6-5/8" Reg	3.11	
10	8" Float Sub	A626	8.250	2.813		161.00	B 6-5/8" Reg	1.08	
11	1x 8" Non-Mag Drill collar	HAL71-4709	8.000	2.810		150.17	B 6-5/8" Reg	8.48	
12	1x 8" Non-Mag Spiral Drill collar	Hofco M8-1	8.000	2.810		150.17	B 6-5/8" Reg	8.90	
13	2x Spiral Drill collar	Maersk1	8.000	2.810		150.00	B 6-5/8" Reg	17.85	
14	Cross Over Sub	Otway-5	8.000	2.800		150.32	B 5-1/2" FH	1.19	
15	16x HWDP		5.500	3.375		57.00	B 5-1/2" FH	144.73	
16	6-3/4" Drilling Jar	12886E	7.000	2.500		114.43	B 5-1/2" FH	9.86	
17	5x HWDP		5.500	3.375		57.00	B 5-1/2" FH	48.31	
								264.89	

Parameter		Min	Max	Ave
WOB (lbs)	:	7	28	18
RPM (rpm)	:	65	175	155
Flow (gpm)	:	110	1150	1110
SPP (psi)	:	2100	4180	3525

Activity	Hrs
Drilling :	133.00
Reaming :	11.50
Circ-Other :	12.75
Total :	157.25

BHA Weight		(lb)
in Air (Total)	:	70636
in Mud (Total)	:	59416
in Air (Bel Jars)	:	57900
in Mud (Bel Jars)	:	48703

Drill String	OD(in)	Len (m)

PERFORMANCE

	In	Out
Inclination (deg)	5.18	75.94
Azimuth (deg)	173.38	111.96

	Distance (m)	ROP (m/hr)	Build (°/100')	Turn (°/100')	DLS (°/100')
Oriented :	29.00	2			
Rotated :	2072.00	16			
Total :	2101.00	16	1.03	-0.89	1.07

COMMENTS

OBJECTIVES:

This 9600 GeoPilot Assembly is designed too achieve multiple customer objectives:

Displacing 18-5/8" casing from sea water to Oil Base.
Tagging up and dressing down cement plug to Kick-off Point.
Kick well off from previously drilled Thylacine South 1 Pilot Hole (Tied too THA04-18-5/8")
Drill 12-1/4" Hole - Initial Build (2.8°/30m) & Turn (3.9°/30m) up too 32.72°.
- Maintain tangent 32.72° Inc & 196° Azi
- Final build (1.8°/30m) & Turn (-3.2°/30m)

Landing 12-1/4" section out in reservoir with minimum penetration at 90° Inclination.

RESULTS:

BHA 1 was made up and uploaded with relevant information then electronically tested (All good) assembly was then run in to perform a shallow pulse test at 100m (Again all tested O.K. and at this point the GeoPilot seals were broken in with 5 rpm for 2-min then graduated up to full drill rate over 10-min.) Assembly was then run into the hole until a depth of 602.50m tagging up to 5000lbs WOB with a reduced pump rate and no rotary indicating a compressed cement plug.
Before dressing down cement plug rig performed a rig service and held a JSA for the displacement of sea water over to Oil Base (within this JSA the importance and recommended procedure for displacement of drill fluids was outlined and steps taken to ensure tool integrity). Dressing down cement plug was performed using minimum WOB's of 3-4k to a Kick-off point of 650m.

Upon reaching 650m, GeoPilot deflection was activated to 80% while incorporating a + 95R Tool/ Face then for a duration of 30min the drilling assembly was worked through a 9m section of hole in order to initiate side-track well bore. Departure was commenced by time drilling .5m at 3min/ in then followed by 1m at 2min per inch. Observations of data produced by "ABI" indicated an early drop in inclination through bottom of cement plug. Conveying with Mud-logging samples of 50% formation content then allowed for an accelerated ROP of time drilling of final 2.5m to an increased ROP of 30sec/ inch for an estimated overall total 5 meters time-drilled in 1.50hrs. Drilling parameters were increased in moderation until 100% formation was confirmed in Mud-logging samples. Sidetracking with GeoPilot proved efficient & cost effective overall.

Upon completion of sidetrack the GeoPilot was deflected to 85 percent and 300 Deg toolface to overcome the right hand influence from sidetrack separation too bring well trajectory back in line with THA04S1P7 wellplan. Initial build/turn was completed without any notable adverse influences (550-950m). During tangent section multiple stringer's intercepted at (1576,1583,1653,1725,1835,1861m) all resulted in immediate parameter adjustment's to alleviate potential tool damage (Noted torsional efficiency fluctuation's of up to 150-200 Rpm excesses when intercepting stringer's). Tangent section (950-2000m).

PARAMETERs	
Weight on bit	20 - 35k
Rotation per minute	50 - 175 rpm
Stand pipe pressure on bottom	4200 psi
Stand pipe pressure off bottom	4100 psi
Gallon's per minute	1150 gpm
Strokes per minute	330 spm
Torque off bottom	8000 k
Torque on bottom	18000 k
Rate of penetration	10-80 m/hr
Deflection setting's build	80-90 percent
Deflection setting's tangent	0-35 percent
Torque & Drag Data	
Drag up	30 k up
Drag down	15 k down

Sperry-Sun DRILLING SERVICES

BHA Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

BHA# 2

BHA# 2 : **Date In** :21/08/200 **MD In (m) :** 2751 **TVD In (m) :** 2282 **Date Out** 24/08/2006 **MD Out (m):** 3194 **TVD Out (m):** 2234

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (in²)	Dull Condition
2	8.500	Security	FMF3653Z	10860872	3x15, 3x16	1.107	0-0-NO-A -X-I-NO-DTF

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
	7.630	SSDS		0850TL062	0.00°		40	45.25

COMPONENT DATA

Item #	Description	Serial #	OD (in)	ID (in)	Gauge (in)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	8-1/2" FMF3653Z PDC Bit	10860872	8.500	2.813	8.500	172.21	B 4-1/2" IF	0.42	
2	7600 Series Geopilot	0850TL062	7.630	1.600	8.190	148.97	B 4-1/2" IF	6.61	4.64
3	6 3/4" Non-Mag GP Flex Drill Collar w/DM	CP973260	6.560	1.920		105.32	B 4-1/2" IF	2.81	
4	6-3/4" RLL w/DGR + EWR	90108616	6.750	1.920	8.375	112.09	B 4-1/2" IF	7.20	
5	6-3/4" ALD+CNP	90108068	6.750	1.920	8.250	112.09	B 4-1/2" IF	7.86	
6	6-3/4" PWD	90102555	6.750	2.810		100.82	B 4-1/2" IF	2.54	
7	6-3/4" Hang-off Collar w/P4M Pulser	222497	6.880	2.880		104.50	B 4-1/2" IF	3.06	
8	6 3/4" Float Sub w/ported float	DA0006	6.750	2.810		100.82	B 4-1/2" IF	0.80	
9	6 3/4" Non-Mag Drill collar	10678815	6.500	3.250		85.00	B 4-1/2" IF	9.46	
10	6 3/4" Non-Mag Flex Drill Collar	C 460	6.560	2.810		94.05	B 4-1/2" IF	9.26	
11	Cross Over Sub	Otway-#8	6.750	2.810		100.82	B 5-1/2" FH	1.37	
12	6x HWDP		5.500	3.375		57.00	B 5-1/2" FH	57.81	
13	6-3/4" Drilling Jar	12886E	7.000	2.500		114.43	B 5-1/2" FH	9.86	
14	2x HWDP		5.500	3.375		57.00	B 5-1/2" FH	19.20	
								138.26	

Parameter		Min	Max	Ave
WOB (lbs)	:	20	28	25
RPM (rpm)	:	75	130	110
Flow (gpm)	:	600	1140	737
SPP (psi)	:	2320	4180	3390

Activity	Hrs
Drilling :	28.50
Reaming :	3.50
Circ-Other :	13.25
Total :	45.25

BHA Weight		(lb)
in Air (Total)	:	36183
in Mud (Total)	:	30435
in Air (Bel Jars)	:	28890
in Mud (Bel Jars)	:	24302

Drill String	OD(in)	Len (m)

PERFORMANCE

	In	Out
Inclination (deg)	75.94	95.85
Azimuth (deg)	111.96	101.52

	Distance (m)	ROP (m/hr)	Build (°/100')	Turn (°/100')	DLS (°/100')
Oriented :	0.00	0			
Rotated :	443.00	16			
Total :	443.00	16	1.37	-0.72	1.54

COMMENTS

01:00hrs 21-Aug-06 Install RA Sources - RIH below table
19:30hrs 22-Aug-06 Remove RA sources - POOH tools above table
42:00hrs total below table.

OBJECTIVES:

Drill out 9 5/8" tail cement, float collar, float shoe then 3.m of new formation in order to establish formation integrity testing.
Primary objective of BHA 2 is to maximize reservoir sand exposure whereby initiating a build up rate of 5.50°/30m upon GeoPilot reference housing exiting 9-5/8" csg shoe.
Principal wellplan THA04S1P9 was agreed with to optimize reservoir and modify well trajectory. Estimates for this section will expose 20m formation (confirmed by Gamma and Resistivity) followed by 55mAH to lowermost perforation to accommodate shoetrack, plugset and guns.

RESULTS:

BHA 2 was made up and completed by electronically downloading operational data, then RIH on HWDP string to 110m in order to perform shallow pulse test (test OK) . Following SPT, the GeoPilot seals were successfully patterned-in by rotating TDS at 5rpm (per 2 minute intervals) then proportionately increased up to 60rpm over a 30 minute time frame. Continued RIH on DP while filling string every 10 stands.

With TDS made-up, wash parameters were set at 30rpm/ 5k lbs WOB, the confirmed tagged Top of Cement was established at 2712m. Following successful casing pressure test, drill-out parameters were set with: GP at 0% deflection, 720gpm, 50-75rpm, and 5-10k lbs WOB. Drill-out resumed to intercept wiper rubber and float collar at 2715m and float shoe at 2741m. Drill-out was completed through shoe and 10.m of rat-hole combined with 3.m of new formation in order to perform required formation integrity test (Achieved).

BHA 2 drilled ahead achieving an average of 5.50°/30m BUR building up to 103° inclination while maintaining azimuth established by BHA 1 until confirmed by Cazandra survey correction software. GeoPilot out-put performance from a HS Tool/ Face configured with 100% deflection produced a potential 5.99° - 7.50°/30m DLS. The effect of reduced flow-rates (600gpm) and 28k lbs WOB were observed to assist limiting dog-legs to 5.50° - 6.10°/ 30m
Expected survey anomalies proved increasingly taxing on overall ROP proportionate to the increase in inclination build- up to and over 100°inc. Upon exiting 9-5/8" csg shoe accumulated circulation time was required while 12 MWD "Bench-mark" surveys were compiled, processed, then confirmed by Cazandra correction software. From 2887 - Cazandra surveys resulted in a south-easterly swing in azimuth (+9° azm gain) re-positioning the well-bore 20m right of proposal THA04S1P9 with a revised azimuth of 113.5 degrees.

Drilling operations resumed based upon Geology department verbal tentative well-plan THA04S1P10 instructing Directional Team to maintain revised azimuth of 113.5° while pursuing inclination requirements of THA04S1P9 until final authorization was confirmed by Woodside office. During this time a written way forward had us well west at 1.0°/30m from 3002m. Drilling continued approx 8hrs without a Woodside confirmed well proposal against SDS Directional Supervisors recommendations to suspend drilling ops "Wait-On-Orders". WSM elected to drill ahead until revised well plans THA04S1P11 then appendix current well-plan "THA04S1P11a" which corrected the well trajectory North-Easterly to 81.0° azimuth at 2.50°/30m. Newly revised well-plan received by rig site team as well-path called for implementation of planned turn (2.5°/30m)

As turn was in progress Geology dept request (md3118m) to drop inclination to potentially 96° - 94° inclination at -2.50°/30m drop rate in efforts to remain in Sand and lower TVD.
Well Inclination was adjusted sacrificing turn for drop and drilling continued until 3194m when the assembly finally pumped up a no response signal (Buss off). This was a recurrent problem which was first evident at 3028m where trouble shooting was performed and mode switching enabled communications and drilling was resumed. At 3194m troubleshooting techniques were applied in effort revive tool (unsuccessful). Well-bore was circulated & conditioned POOH for suspect MWD & BHA inspection.

KPI:
40min time lag on processing surveys between Alaska & Maersk Guardian increased difficulty steering wellpath Time lag can be attributed to processing degree of difficulty and challenge of server communicate. Wellsite Directional Teams effort to reduce errors and maintain control included survey data 15m check shot's between 3021 - 3100m.

AVERAGE RUN PARAMETERS

Weight on bit	20 - 25k
Rotation per minute	90 - 125 rpm
Stand pipe pressure on bottom	3700 psi
Stand pipe pressure off bottom	3750 psi
Gallon's per minute	750 gpm
Strokes per minute	160 spm
Torque off bottom	10000k
Torque on bottom	15000 k
Rate of penetration	10-30 m/hr
Deflection setting's build	60-95 percent
Deflection setting's tangent	16-65 percent
Torque & Drag Data	
Drag up	98 k up
Drag down	10k down

Sperry-Sun DRILLING SERVICES

BHA Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

BHA# 3

BHA# 3 : **Date In** :24/08/200 **MD In (m) :** 3194 **TVD In (m) :** 2234 **Date Out** 28/08/2006 **MD Out (m):** 3987 **TVD Out (m):** 2254

BIT DATA

Bit #	OD (in)	MFR	Style	Serial#	Nozzles (/32's)	TFA (in²)	Dull Condition
2rr1	8.500	Security	FMF3653Z	10860872	3x15, 3x16	1.107	0-1-WT-N -X-I-ER-TD

MOTOR DATA

Run #	OD (in)	MFR	Model	Serial#	Bend	Nzl (/32's)	Avg Dif (psi)	Cum Circ Hrs
	7.630	SSDS		0850TL114	0.00°		71	78.00

COMPONENT DATA

Item #	Description	Serial #	OD (in)	ID (in)	Gauge (in)	Weight (lbs/ft)	Top Con	Length (m)	Bit - Center Blade (m)
1	8-1/2" FMF3653Z PDC Bit	10860872	8.500	2.813	8.500	172.21	B 4-1/2" IF	0.42	
2	7600 Series Geopilot	0850TL114	7.630	1.600	8.190	148.97	B 4-1/2" IF	7.07	
3	6 3/4" Non-Mag GP Flex Drill Collar w/DM	CP973260	6.560	1.920		105.32	B 4-1/2" IF	2.81	
4	6-3/4" RLL w/DGR + EWR	90108616	6.750	1.920	8.375	112.09	B 4-1/2" IF	7.20	
5	6-3/4" ALD+CNP	90108068	6.750	1.920	8.250	112.09	B 4-1/2" IF	7.86	
6	6-3/4" PWD	90102555	6.750	2.810		100.82	B 4-1/2" IF	2.54	
7	6-3/4" Hang-off Collar w/P4M Pulser	222497	6.880	2.880		104.50	B 4-1/2" IF	3.06	
8	ACAL	90109507	6.688	1.920		109.86	B 4-1/2" IF	1.81	
9	6 3/4" Float Sub w/ported float	DA0006	6.750	2.810		100.82	B 4-1/2" IF	0.80	
10	6 3/4" Non-Mag Drill collar	10678815	6.500	3.250		85.00	B 4-1/2" IF	9.46	
11	6 3/4" Non-Mag Flex Drill Collar	C 460	6.560	2.810		94.05	B 4-1/2" IF	9.26	
12	Cross Over Sub	Otway-#8	6.750	2.810		100.82	B 5-1/2" FH	1.37	
13	6x HWDP		5.500	3.375		57.00	B 5-1/2" FH	57.81	
14	6-3/4" Drilling Jar	12886E	7.000	2.500		114.43	B 5-1/2" FH	9.86	
15	2x HWDP		5.500	3.375		57.00	B 5-1/2" FH	19.20	
								140.53	

Parameter		Min	Max	Ave
WOB (lbs)	:	15	30	21
RPM (rpm)	:	125	165	163
Flow (gpm)	:	700	750	737
SPP (psi)	:	3500	4000	3738

Activity	Hrs
Drilling :	50.00
Reaming :	16.50
Circ-Other :	11.50
Total :	78.00

BHA Weight		(lb)
in Air (Total)	:	37060
in Mud (Total)	:	31173
in Air (Bel Jars)	:	29768
in Mud (Bel Jars)	:	25039

Drill String	OD(in)	Len (m)

PERFORMANCE

	In	Out
Inclination (deg)	95.85	88.80
Azimuth (deg)	101.52	99.50

	Distance (m)	ROP (m/hr)	Build (°/100')	Turn (°/100')	DLS (°/100')
Oriented :	0.00	0			
Rotated :	793.00	16			
Total :	793.00	16	-0.27	-0.08	0.28

COMMENTS

01:00hrs 24-Aug-06 Install RA Sources - RIH below table
01:30hrs 28-Aug-06 Remove RA sources - POOH tools above table
96:50hrs total below table.

OBJECTIVES:

Primary objective of BHA 3 is to maximize sand exposure while limiting hole tortuosity using minimum doglegs.

Principal wellplan THA04S1P12 was developed to optimize reservoir and modify well accordingly. Estimates for this section will expose 20m of formation (confirmed by Gamma and Resistivity) followed by 55mAH to lowermost perforation to accommodate shoetrack, plugset and guns.

RESULTS:

BHA 3 was made up and completed by electronically downloading operational data, then RIH on HWDP string to 111m in order to perform shallow pulse test (test OK). Following SPT, the GeoPilot seals were successfully patterned-in by rotating TDS at 5rpm (per 2 minute intervals) then proportionately increased up to 60rpm over a 30 minute time frame. Continued RIH on DP while filling string every 10 stands.

The remaining hole section was geo-steered attempting to keep within the confines of reservoir upper most sands while following formation dip. Gamma at bit data assisted drilling until finally shale was intercepted and customer was satisfied with both quantity and quality of sands drilled, calling TD

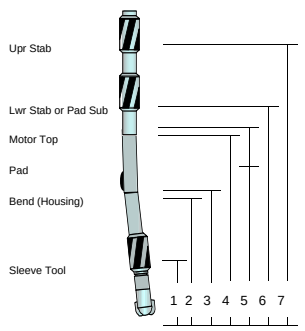
AVERAGE RUN PARAMETERS	
Weight on bit	15 - 25k
Rotation per minute	125 - 165 rpm
Stand pipe pressure on bottom	3700 psi
Stand pipe pressure off bottom	3850 psi
Gallon's per minute	700-750 gpm
Strokes per minute	160 spm
Torque off bottom	10000k
Torque on bottom	18000 k
Rate of penetration	10-30 m/hr
Deflection setting's build	40-85 percent
Deflection setting's tangent	16-65 percent
Torque & Drag Data	
Drag up	98 k up
Drag down	45k down

MOTOR PERFORMANCE REPORT

M-AU-DD-0003930660-1

Motor Serial #	1225TL082	**Job #**	AU-DD-0003930660
Directional Driller(s)	Trevor Ziegler, Jeff Lingrell	**Customer**	Woodside Energy Ltd
Location	Slot 2	**Rig**	Maersk Guardian
Well	THA04	**Bit Run #**	1 **BHA #** 1 **Motor Run #**
Depth In/Out	650 / 2751 *m*	**Date In/Out**	11/08/2006 / 18/08/2006 **Hole Size** 12.250 *in*
Application Details			

MOTOR CONFIGURATION



	From Bit *(m)*	Component		Type	Diam In/Out *(in)*	
1	5.26	Sleeve Stab/Pad	Yes	Stab: 4 0°	11.750	11.750
2		Bent Housing	No			
3		Housing Tool Used	No			
4	6.37	Stator Elastomer				
5		Bent Sub / 2nd Bent Hsg	No			
6	6.72	Lower String Stab	Yes	Stab: 3 360°	12.063	12.063
7	18.86	Upper String Stab	Yes	Stab: 4 360°	12.130	12.130

Additional Features :

Flex Collar : Yes **Short Brg Pack** : No **Rtr Noz / Size** : */32's*

Brg Cfg (Off/On) : **Lobe Cfg** : **BHA OD/ID** : 8.000 / 2.375 *in*

	Arr	Ret
Pick Up Sub	Yes	Yes
Bit Box Protr	Yes	Yes

MOTOR RUN DATA

Max Dogleg While Rotating	*°/100'*	**RPM**		**Motor Stalled**	No
Max Dogleg Overpulled In	*°/100'*	**Force**	*lbf*	**Float Valve**	No
Max Dogleg Pushed Through	*°/100'*	**Force**	*lbf*	**DP Filter**	No

Hole Azimuth Start / End	173.38° / 111.96°	**Inc Start / End**	5.18° / 75.94°
Interval Oriented / Rot.	29 / 2072 *m*	**Directional Perf Ori / Rot**	/ *°/100'*
Jarring Occured	No		

Prev Job/Well Hrs	0.00
Drilling Hrs	133.00
Circ Hrs	12.75
Reaming Hrs	11.50
Total Hrs This Run	157.25
New Cumulative Hrs	157.25

	Diff Press *(psi)*	Str RPM	Rotn Torque *(ft-lbs)*	Drag Up/Dn *(lbf)*	WOB *(lbs)*	ROP Oriented *(m/hr)*	ROP Rotated *(m/hr)*
Avg	50	155	8408	/	18	2	16
Max	100	175	24000	/	28	5	80

PRE-RUN TESTS

Motor Tested Pre-Run : No **with** :

Dump Sub Operating : N/A **Brg Play** : *mm*

Flow 1 : *gpm* **Pressure 1** : *psi*

Flow 2 : *gpm* **Pressure 2** : *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

POST-RUN TESTS

Motor Tested Post-Run : No **with** :

Dump Sub Operating : N/A **Brg Play** : *mm*

Flow 1 : *gpm* **Pressure 1** : *psi*

Flow 2 : *gpm* **Pressure 2** : *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

Driveshaft Rotated to Drain Mud : No

Fluid Flushed : No **Fluid Used** :

MUD DATA

Base : Oil **Additives** : **Mud Wt** : 1.24 *sg* **SPP Start/End** : 2100 / 4180 *psi*

% Oil/Water : 73.27 / 10.33 **% Solids** : 16.00 **% Sand** : 0.40 **PV** : 39 *cp* **YP** : 30.0 *lbf/100ft²* **pH** :

DH Temp Avg/Max : 84.0 / 102.0 **FlowRate Avg/Max** : 1110 / 1150 *gpm* **Chloride Content** : 142033 *ppm*

Principle Formation Name(s) : **Lithology** :

BIT DATA

Make : Security **Type** : FMF3565Z **Serial #** : 10866299

Pre Existing Hours From Other Wells: 0

Prev Drilling Hrs : 0.00 **Prev Reaming Hrs** : 0.00 **No of Runs This Bit** : 1

Jet Sizes *(/32's)* : 6x18 **TFA** : 1.491 *in²* **Gage Length** : 18.000 *in*

Dull Grade	1	2	3	4	5	6	7	8
In								NEW
Out	2	3	WT	S	X	1	ER	TD

PERFORMANCE COMMENTS

Problem Perceived : No **Problem Date** : **Service Interrupt** : No **Service Interrupt Hrs** :

Performance Motor : No **Tandem Motor** : No **LIH** : No **PPR Ref #** :

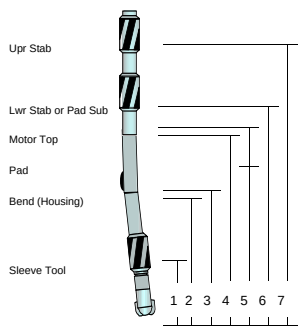
Customer Representative's Signature (optional) : ..... **Date:** .....

MOTOR PERFORMANCE REPORT

M-AU-DD-0003930660-2

Motor Serial #	0850TL062	Job #	AU-DD-0003930660
Directional Driller(s)	Trevor Ziegler, Jeff Lingrell	Customer	Woodside Energy Ltd
Location	Slot 2	Rig	Maersk Guardian
Well	THA04	Bit Run #	2 BHA # : 2 Motor Run # :
Depth In/Out	2751 / 3194 *m*	Date In/Out	21/08/2006 / 24/08/2006 Hole Size : 8.500 *in*
Application Details			

MOTOR CONFIGURATION



	From Bit *(m)*	Component		Type	Diam In/Out *(in)*
1	4.64	Sleeve Stab/Pad	Yes	Stab:	8.190 8.190
2		Bent Housing	No		
3		Housing Tool Used	No		
4	7.03	Stator Elastomer			
5		Bent Sub / 2nd Bent Hsg	No		
6		Lower String Stab	No		
7		Upper String Stab	No		

Additional Features :

Flex Collar : Yes Short Brg Pack : No Rtr Noz / Size : /32's

Brg Cfg (Off/On) : Lobe Cfg : BHA OD/ID : 6.560 / 1.920 *in*

	Arr	Ret
Pick Up Sub	Yes	Yes
Bit Box Protr	Yes	Yes

MOTOR RUN DATA

Max Dogleg While Rotating	°/100'	RPM		Motor Stalled	No
Max Dogleg Overpulled In	°/100'	Force	lbf	Float Valve	No
Max Dogleg Pushed Through	°/100'	Force	lbf	DP Filter	No

Prev Job/Well Hrs	0.00
Drilling Hrs	28.50
Circ Hrs	13.25
Reaming Hrs	3.50
Total Hrs This Run	45.25
New Cumulative Hrs	45.25

Hole Azimuth Start / End : 111.96° / 101.52° Inc Start / End : 75.94° / 95.85°

Interval Oriented / Rot. : 0 / 443 *m* Directional Perf Ori / Rot : / °/100'

Jarring Occured : No

	Diff Press *(psi)*	Str RPM	Rotn Torque *(ft-lbs)*	Drag Up/Dn *(lbf)*	WOB *(lbs)*	ROP Oriented *(m/hr)*	ROP Rotated *(m/hr)*
Avg :	40	110	10200	/	25	0	16
Max :	70	130	16000	/	28		30

PRE-RUN TESTS

Motor Tested Pre-Run : No with :

Dump Sub Operating : N/A Brg Play : *mm*

Flow 1 : *gpm* Pressure 1 : *psi*

Flow 2 : *gpm* Pressure 2 : *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

POST-RUN TESTS

Motor Tested Post-Run : No with :

Dump Sub Operating : N/A Brg Play : *mm*

Flow 1 : *gpm* Pressure 1 : *psi*

Flow 2 : *gpm* Pressure 2 : *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

Driveshaft Rotated to Drain Mud : No

Fluid Flushed : No Fluid Used :

MUD DATA

Base : Oil Additives : Mud Wt : 1.26 *sg* SPP Start/End : 4150 / 3750 *psi*

% Oil/Water : 70.00 / 13.00 % Solids : 16.50 % Sand : 0.50 PV : 52 *cp* YP : 34.0 *lbf/100ft²* pH :

DH Temp Avg/Max : 95.3 / 96.0 FlowRate Avg/Max : 737 / 1140 *gpm* Chloride Content : 133036 *ppm*

Principle Formation Name(s) : Lithology :

BIT DATA

Make : Security Type : FMF3653Z Serial # : 10860872

Pre Existing Hours From Other Wells:

Prev Drilling Hrs : 0.00 Prev Reaming Hrs : 0.00 No of Runs This Bit : 1

Jet Sizes *(/32's)* : 3x15, 3x16 TFA : 1.107 *in²* Gage Length : 11.500 *in*

Dull Grade	1	2	3	4	5	6	7	8
In								NEW
Out	0	0	NO	A	X	I	NO	DTF

PERFORMANCE COMMENTS

Problem Perceived : No Problem Date : Service Interrupt : No Service Interrupt Hrs :

Performance Motor : Yes Tandem Motor : No LIH : No PPR Ref # :

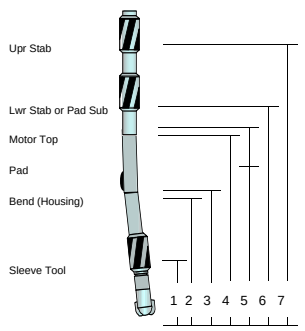
Customer Representative's Signature (optional) : ..... Date: .....

MOTOR PERFORMANCE REPORT

M-AU-DD-0003930660-3

Motor Serial #	0850TL114	Job #	AU-DD-0003930660
Directional Driller(s)	Trevor Ziegler, Jeff Lingrell	Customer	Woodside Energy Ltd
Location	Slot 2	Rig	Maersk Guardian
Well	THA04	Bit Run #	2rr1 BHA # : 3 Motor Run # :
Depth In/Out	3194 / 3987 *m*	Date In/Out	24/08/2006 / 28/08/2006 Hole Size : 8.500 *in*
Application Details			

MOTOR CONFIGURATION



	From Bit *(m)*	Component		Type	Diam In/Out *(in)*
1		Sleeve Stab/Pad	No		
2		Bent Housing	No		
3		Housing Tool Used	No		
4	7.49	Stator Elastomer			
5		Bent Sub / 2nd Bent Hsg	No		
6		Lower String Stab	No		
7		Upper String Stab	No		

Additional Features :

Flex Collar : No Short Brg Pack : No Rtr Noz / Size : /32's

Brg Cfg (Off/On) : Lobe Cfg : BHA OD/ID : 6.560 / 1.920 *in*

	Arr	Ret
Pick Up Sub	No	No
Bit Box Protr	No	No

MOTOR RUN DATA

Max Dogleg While Rotating	°/100'	RPM		Motor Stalled : No	Prev Job/Well Hrs : 0.00
Max Dogleg Overpulled In	°/100'	Force	lbf	Float Valve : No	Drilling Hrs : 50.00
Max Dogleg Pushed Through	°/100'	Force	lbf	DP Filter : No	Circ Hrs : 11.50
Hole Azimuth Start / End	101.52° / 99.50°	Inc Start / End	95.85° / 88.80°		Reaming Hrs : 16.50
Interval Oriented / Rot.	0 / 793 *m*	Directional Perf Ori / Rot	/ °/100'		Total Hrs This Run : 78.00
Jarring Occured : No					New Cumulative Hrs : 78.00

	Diff Press *(psi)*	Str RPM	Rotn Torque *(ft-lbs)*	Drag Up/Dn *(lbf)*	WOB *(lbs)*	ROP Oriented *(m/hr)*	ROP Rotated *(m/hr)*
Avg :	71	163	16075	/	21	0	16
Max :	530	165	20000	/	30		30

PRE-RUN TESTS

Motor Tested Pre-Run : No with :

Dump Sub Operating : N/A Brg Play : *mm*

Flow 1 : *gpm* Pressure 1 : *psi*

Flow 2 : *gpm* Pressure 2 : *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

POST-RUN TESTS

Motor Tested Post-Run : No with :

Dump Sub Operating : N/A Brg Play : *mm*

Flow 1 : *gpm* Pressure 1 : *psi*

Flow 2 : *gpm* Pressure 2 : *psi*

Driveshaft Rotation Observed : No

Bearing Leakage Observed : No

Driveshaft Rotated to Drain Mud : No

Fluid Flushed : No Fluid Used :

MUD DATA

Base : Oil Additives : Mud Wt : 1.25 *sg* SPP Start/End : 3750 / 3500 *psi*

% Oil/Water : 74.00 / 9.40 % Solids : 16.00 % Sand : 0.60 PV : 35 *cp* YP : 25.0 *lbf/100ft²* pH :

DH Temp Avg/Max : 101.3 / 112.0 FlowRate Avg/Max : 737 / 750 *gpm* Chloride Content : 149558 *ppm*

Principle Formation Name(s) : Lithology :

BIT DATA

Make : Security Type : FMF3653Z Serial # : 10860872

Pre Existing Hours From Other Wells:

Prev Drilling Hrs : 28.50 Prev Reaming Hrs : 9.00 No of Runs This Bit : 2

Jet Sizes *(/32's)* : 3x15, 3x16 TFA : 1.107 *in²* Gage Length : 11.500 *in*

Dull Grade	1	2	3	4	5	6	7	8
In	0	1	NO	A	X		NO	DTF
Out	0	1	WT	N	X	I	ER	TD

PERFORMANCE COMMENTS

Problem Perceived : No Problem Date : Service Interrupt : No Service Interrupt Hrs :

Performance Motor : No Tandem Motor : No LIH : No PPR Ref # :

Customer Representative's Signature (optional) : ..... Date: .....

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DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 1 10/08/2006

Total Depth	**(m)**	:	650	**Casing Depth**	**(m)**	:	633.40	**Operator Reps** : Shaughan Corless, Phil Hodson
Drilled last 24 hrs	**(m)**	:	650	**Casing Diameter**	**(in)**	:	18.625	**SSDS Reps** : Trevor Ziegler (1), Jeff Lingrell (1)
Hole Size	**(in)**	:		**Casing ID**	**(in)**	:	17.755	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
650.00	5.18	173.38	649.36	21.52	S05.66E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	76	38	20.0	9.0 / 14.0	3		14.50	0.25	59.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	14:00	14.00	650.00		No Activity
14:00	16:00	2.00	650.00		Skid rig from Slot 3 THA03 to Slot 2 THA04
16:00	17:00	1.00	650.00		Rig Up / install high pressure riser
17:00	22:30	5.50	650.00		Nipple Up BOP/ test casing hanger
22:30	23:00	0.50	650.00		Skid to final position over Slot 2
23:00	00:00	1.00	650.00		MU test assembly/Test BOP

COMMENTS

Skid rig from Slot 3 to Slot 2 - Thylacine South-1
Operations: plan to sidetrack 12 1/4" section (675m) from Slot 2
Thylacine South-1 creating THA04S1

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DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS **Report #** 2 11/08/2006

Total Depth	**(m)**	:	650	**Casing Depth**	**(m)**	:	633.40	**Operator Reps**	:	Shaughan Corless, Phil Hodson
Drilled last 24 hrs	**(m)**	:	0	**Casing Diameter**	**(in)**	:	18.625	**SSDS Reps**	:	Trevor Ziegler (2), Jeff Lingrell (2)
Hole Size	**(in)**	:	12.250	**Casing ID**	**(in)**	:	17.755			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
650.00	5.18	173.38	649.36	21.52	S05.66E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 1: 264.89 m; Bit #1 (1. hrs), Stab, PDM # (0.5 hrs), Stab, Flex, MWD, Stab, MWD, MWD, Sub, 1x DC, 1x DC, 2x DC, Sub, 16x HWDP, Jar, 5x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	76	38	20.0	9.0 / 14.0	3		14.50	0.25	59.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:30	0.50	650.00		RIH test assembly / test plug / Flush lines.
00:30	05:00	4.50	650.00		Test BOP / 250psi 5min / 3500psi 10 min
05:00	05:30	0.50	650.00		POOH / LO test assembly.
05:30	09:00	3.50	650.00		Rig Up / MU diverter
09:00	10:30	1.50	650.00		Rig Up / MU handling gear for wear bushing / install wear bushing.
10:30	12:00	1.50	650.00		Cut Drill Line
12:00	15:30	3.50	650.00		PU 12 1/4" GP BHA
15:30	16:00	0.50	650.00		Download MWD
16:00	17:00	1.00	650.00		PU 12 1/4" GP BHA
17:00	18:00	1.00	650.00		LD from derrick 3 x 8"DC & 8" Drilling jars
18:00	19:00	1.00	650.00	1	Trip In
19:00	19:30	0.50	650.00	1	Circulate / Shallow pulse test MWD - OK
19:30	21:00	1.50	650.00	1	RIH / PU 5 1/2' HWDP from deck
21:00	22:30	1.50	650.00	1	RIH on 5 1/2" DP 264 - 582m
22:30	23:30	1.00	650.00	1	MU TDS / Wash down from 582 / tag TOC 602.5
23:30	00:00	0.50	650.00	1	Circulate / Breal in GP seals / connect flowline

COMMENTS

Tag TOC @ 602.5

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS **Report #** 3 12/08/2006

Total Depth	**(m)**	:	1046	**Casing Depth**	**(m)**	:	633.40	**Operator Reps**	:	Shaughan Corless, Phil Hodson
Drilled last 24 hrs	**(m)**	:	396	**Casing Diameter**	**(in)**	:	18.625	**SSDS Reps**	:	Trevor Ziegler (3), Jeff Lingrell (3)
Hole Size	**(in)**	:	12.250	**Casing ID**	**(in)**	:	17.755			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
1035.71	31.56	189.35	997.79	170.71	S09.55W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 1: 264.89 m; Bit #1 (1. hrs), Stab, PDM # (2. hrs), Stab, Flex, MWD, Stab, MWD, MWD, Sub, 1x DC, 1x DC, 2x DC, Sub, 16x HWDP, Jar, 5x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	76	38	20.0	9.0 / 14.0	3		14.50	0.25	59.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	01:15	1.25	650.00	1	Rig Repair / seal off flow line leaks / repair pump3
01:15	01:30	0.25	650.00	1	Circulate / Break in GP seals / Displace to SBM
01:30	03:30	2.00	650.00	1	Circulate / Displace to SBM
03:30	07:30	4.00	650.00	1	Drill Cement 602.5 - 650.5m
07:30	08:00	0.50	650.00	1	Circulate
08:00	09:30	1.50	655.00	1	Time Drilling 12.25GP 3min/in for 0.5m./30
09:30	00:00	14.50	1046.00	1	Drilling 655 - 1046m

COMMENTS

RIH BHA 1 12.25 GP sidetrack assembly
Drill cement to KOP - 650m

BHA 1 Daily Drill hrs: 11.62
BHA 1 Total Drill hrs: 11.62
BHA 1 Daily Circ hrs: 15.65
BHA 1 Total Circ hrs: 17.35

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 4 13/08/2006

Total Depth	**(m)**	:	1652	**Casing Depth**	**(m)**	:	633.40	**Operator Reps** : Shaughan Corless, Phil Hodson
Drilled last 24 hrs	**(m)**	:	606	**Casing Diameter**	**(in)**	:	18.625	**SSDS Reps** : Trevor Ziegler (4), Jeff Lingrell (4)
Hole Size	**(in)**	:	12.250	**Casing ID**	**(in)**	:	17.755	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
1642.73	31.64	196.36	1509.85	495.84	S13.75W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 1: 264.89 m; Bit #1 (21. hrs), Stab, PDM # (24.75 hrs), Stab, Flex, MWD, Stab, MWD, MWD, Sub, 1x DC, 1x DC, 2x DC, Sub, 16x HWDP, Jar, 5x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	76	43	29.0	13.0 / 19.0	3		15.50	0.50	59.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:15	0.25	1366.00	1	Drilling 1046 - 1366m
00:15	00:00	23.75	1652.00	1	Drilling 1366 - 1652m

COMMENTS

sperry-sun DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 5 14/08/2006

Total Depth	**(m)**	:	2081	**Casing Depth**	**(m)**	:	633.40	**Operator Reps**	:	Shaughan Corless, Phil Hodson
Drilled last 24 hrs	**(m)**	:	429	**Casing Diameter**	**(in)**	:	18.625	**SSDS Reps**	:	Trevor Ziegler (5), Jeff Lingrell (5)
Hole Size	**(in)**	:	12.250	**Casing ID**	**(in)**	:	17.755			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
2076.66	33.52	174.02	1877.69	724.66	S13.23W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 1: 264.89 m; Bit #1 (45. hrs), Stab, PDM # (48.75 hrs), Stab, Flex, MWD, Stab, MWD, MWD, Sub, 1x DC, 1x DC, 2x DC, Sub, 16x HWDP, Jar, 5x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	76	43	29.0	13.0 / 19.0	3		15.50	0.50	59.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	12:00	12.00	1856.00	1	Drilling 1652 - 1856m
12:00	00:00	12.00	2081.00	1	Drilling 1856 - 2081m

COMMENTS

sperry-sun DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 6 15/08/2006

Total Depth	**(m)**	:	2394	**Casing Depth**	**(m)**	:	633.40	**Operator Reps** : Shaughan Corless, Phil Hodson
Drilled last 24 hrs	**(m)**	:	313	**Casing Diameter**	**(in)**	:	18.625	**SSDS Reps** : Trevor Ziegler (6), Jeff Lingrell (6)
Hole Size	**(in)**	:	12.250	**Casing ID**	**(in)**	:	17.755	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
2366.05	48.66	134.83	2100.73	863.80	S05.00W

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 1: 264.89 m; Bit #1 (69. hrs), Stab, PDM # (72.75 hrs), Stab, Flex, MWD, Stab, MWD, MWD, Sub, 1x DC, 1x DC, 2x DC, Sub, 16x HWDP, Jar, 5x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	74	45	13.0	13.0 / 24.0	4		17.00	0.25	59.50

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	2394.00	1	Drilling 2081 - 2394m

COMMENTS

sperry-sun DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 7 16/08/2006

Total Depth	**(m)**	:	2635	**Casing Depth**	**(m)**	:	633.40	**Operator Reps** : Shaughan Corless, Andy Banks
Drilled last 24 hrs	**(m)**	:	241	**Casing Diameter**	**(in)**	:	18.625	**SSDS Reps** : Trevor Ziegler (7), Jeff Lingrell (7)
Hole Size	**(in)**	:	12.250	**Casing ID**	**(in)**	:	17.755	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
2625.01	65.29	116.41	2241.44	985.03	S06.08E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 1: 264.89 m; Bit #1 (93. hrs), Stab, PDM # (96.75 hrs), Stab, Flex, MWD, Stab, MWD, MWD, Sub, 1x DC, 1x DC, 2x DC, Sub, 16x HWDP, Jar, 5x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	78	46	32.0	16.0 / 25.0	2		16.80	0.25	59.50

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	12:00	12.00	2538.00	1	Drilling 2394 - 2538m
12:00	00:00	12.00	2635.00	1	Drilling 2538 - 2635m

COMMENTS

sperry-sun DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 8 17/08/2006

Total Depth	**(m)**	:	2751	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps** : Shaughan Corless, Andy Banks
Drilled last 24 hrs	**(m)**	:	116	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps** : Trevor Ziegler (8), Jeff Lingrell (8)
Hole Size	**(in)**	:	12.250	**Casing ID**	**(in)**	:	8.535	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
2740.73	74.87	112.04	2279.43	1044.19	S11.26E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 1: 264.89 m; Bit #1 (117. hrs), Stab, PDM # (120.75 hrs), Stab, Flex, MWD, Stab, MWD, MWD, Sub, 1x DC, 1x DC, 2x DC, Sub, 16x HWDP, Jar, 5x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.24	86	39	30.0	15.0 / 23.0	4		16.00	0.40	73.27

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	12:00	12.00	2705.00	1	Drilling 2635 - 2705m
12:00	21:00	9.00	2751.00	1	Drilling 2705 - 2751m
21:00	22:00	1.00	2751.00	1	Circulate Bottums up / Confirm formation unit 1 entry
22:00	00:00	2.00	2751.00	1	Circulate / clean hole

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS **Report #** 9 18/08/2006

Total Depth	**(m)**	:	2751	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps**	:	Shaughan Corless, Andy Banks
Drilled last 24 hrs	**(m)**	:	0	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps**	:	Trevor Ziegler (9), Jeff Lingrell (9)
Hole Size	**(in)**	:	12.250	**Casing ID**	**(in)**	:	8.535			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
2740.73	74.87	112.04	2279.43	1044.19	S11.26E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 1: 264.89 m; Bit #1 (138. hrs), Stab, PDM # (144.75 hrs), Stab, Flex, MWD, Stab, MWD, MWD, Sub, 1x DC, 1x DC, 2x DC, Sub, 16x HWDP, Jar, 5x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.24	86	39	30.0	15.0 / 23.0	4		16.00	0.40	73.27

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:30	0.50	2751.00	1	Circulate bottums up / Flow check - OK
00:30	01:30	1.00	2751.00	1	POOH to run 9 5/8" csg / Pull tight at 2587m
01:30	02:00	0.50	2751.00	1	Back Reaming 2605 - 2577m
02:00	02:30	0.50	2751.00	1	POOH 2577 - 2519m
02:30	03:00	0.50	2751.00	1	Circulate / Pump slug / Flow check - OK
03:00	05:00	2.00	2751.00	1	POOH 2519 - 1930. Work tight spot 1920m
05:00	06:30	1.50	2751.00	1	Reaming 1942 - 1913m / pump slug
06:30	08:00	1.50	2751.00	1	POOH 1913 - 1624m / Work tight spot 1624
08:00	12:00	4.00	2751.00	1	Reaming 1652 - 1334m
12:00	16:30	4.50	2751.00	1	POOH pump out 1334 - 610m
16:30	17:30	1.00	2751.00	1	Circulate / pump slug
17:30	18:30	1.00	2751.00	1	POOH 610 - 264 - flow check - OK
18:30	21:00	2.50	2751.00	1	POOH BHA
21:00	00:00	3.00	2751.00	1	Break off bit / power down MWD / LD GP

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 10 19/08/2006

Total Depth	**(m)**	:	2751	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps** : Shaughan Corless, Andy Banks
Drilled last 24 hrs	**(m)**	:	0	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps** : Trevor Ziegler (10), Jeff Lingrell (10)
Hole Size	**(in)**	:		**Casing ID**	**(in)**	:	8.535	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
2740.73	74.87	112.04	2279.43	1044.19	S11.26E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.24	86	39	30.0	15.0 / 23.0	4		16.00	0.40	73.27

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	12:00	12.00	2751.00		Rig up to run 9 5/8" csg
12:00	00:00	12.00	2751.00		Run 9 5/8" csg 549 - 2090m

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS **Report #** 11 20/08/2006

Total Depth	**(m)**	:	2751	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps** : Shaughan Corless, Andy Banks
Drilled last 24 hrs	**(m)**	:	0	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps** : Trevor Ziegler (11), Jeff Lingrell (11)
Hole Size	**(in)**	:		**Casing ID**	**(in)**	:	8.535	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
2740.73	74.87	112.04	2279.43	1044.19	S11.26E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.24	86	39	30.0	15.0 / 23.0	4		16.00	0.40	73.27

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	04:00	4.00	2751.00		Run 9 5/8" csg
04:00	04:30	0.50	2751.00		Change out to manual handling equipment
04:30	05:30	1.00	2751.00		PU/MU/RIH csg hanger & running string
05:30	09:00	3.50	2751.00		Circ / TBT prior to cement job
09:00	13:30	4.50	2751.00		Complete cementing of csg
13:30	20:00	6.50	2751.00		Rig down Cement head and lines / MU RIH jett seal assembly / install wear bushin
20:00	21:30	1.50	2751.00		LD DC & Jars
21:30	00:00	2.50	2751.00		PU 8 1/2" GP BHA / install bit / Download MWD

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 12 21/08/2006

Total Depth	**(m)**	:	2773	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps**	:	Shaughan Corless, Andy Banks
Drilled last 24 hrs	**(m)**	:	22	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps**	:	Trevor Ziegler (12), Jeff Lingrell (12)
Hole Size	**(in)**	:	8.500	**Casing ID**	**(in)**	:	8.535			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
2760.53	76.93	111.88	2284.26	1054.83	S12.13E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 2: 138.26 m; Bit #2 (0.5 hrs), PDM # (0.5 hrs), Flex, MWD, MWD, MWD, MWD, Sub, DC, Flex, Sub, 6x HWDP, Jar, 2x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.24	86	39	30.0	15.0 / 23.0	4		16.00	0.40	73.27

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	01:00	1.00	2751.00		Load MWD / install MWD sources
01:00	01:30	0.50	2751.00		Finish PU BHA
01:30	02:00	0.50	2751.00	2	RIH
02:00	02:30	0.50	2751.00	2	Shallow pulse test MWD - OK Berak in GP seals
02:30	11:00	8.50	2751.00	2	RIH
11:00	11:30	0.50	2751.00	2	Circulate / Work in GP seals / Mode switch MWD tool
11:30	12:00	0.50	2751.00	2	Tag TOC 2712m
12:00	14:00	2.00	2751.00	2	Rig up to Pressure test casing / 3500psi per 1hr
14:00	19:30	5.50	2751.00	2	Drill Cement / clean out rat hole to 2751
19:30	20:00	0.50	2754.00	2	Drilling
20:00	21:00	1.00	2754.00	2	Circulate BU
21:00	22:00	1.00	2754.00	2	FIT / 2460psi
22:00	00:00	2.00	2773.00	2	Drilling 2754 - 2773m

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 13 22/08/2006

Total Depth	**(m)**	:	3108	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps** : Shaughan Corless, Andy Banks
Drilled last 24 hrs	**(m)**	:	335	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps** : Trevor Ziegler (13), Jeff Lingrell (13)
Hole Size	**(in)**	:	8.500	**Casing ID**	**(in)**	:	8.535	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
3107.89	100.67	108.82	2245.58	1279.61	S24.87E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 2: 138.26 m; Bit #2 (8.5 hrs), PDM # (10.5 hrs), Flex, MWD, MWD, MWD, MWD, Sub, DC, Flex, Sub, 6x HWDP, Jar, 2x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	89	49	36.0	16.0 / 28.0	3		16.00	0.50	73.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	09:00	9.00	2915.00	2	Drilling 2773 - 2915m
09:00	11:00	2.00	2915.00	2	Circulate / recalculate surveys
11:00	11:30	0.50	2915.00	2	Directional Work / Perform benchmark MWD surveys
11:30	12:00	0.50	2926.00	2	Drilling 2915 - 2926m
12:00	17:30	5.50	3028.00	2	Drilling 2926 - 3028
17:30	18:30	1.00	3028.00	2	Directional Work / Confirm MWD surveys
18:30	00:00	5.50	3108.00	2	Drilling 3028 - 3108m

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS **Report #** 14 23/08/2006

Total Depth	**(m)**	:	3194	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps**	:	Stuart Job, Andy Banks
Drilled last 24 hrs	**(m)**	:	86	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps**	:	Trevor Ziegler (14), Jeff Lingrell (14)
Hole Size	**(in)**	:	8.500	**Casing ID**	**(in)**	:	8.535			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
3165.84	96.81	104.34	2236.96	1317.99	S26.75E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 2: 138.26 m; Bit #2 (29. hrs), PDM # (33. hrs), Flex, MWD, MWD, MWD, MWD, Sub, DC, Flex, Sub, 6x HWDP, Jar, 2x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.26	92	52	34.0	17.0 / 27.0	4		16.50	0.50	70.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	05:30	5.50	3194.00	2	Drilling 3108 - 3194m
05:30	06:30	1.00	3194.00	2	Circulate / troubleshoot MWD detection loss /Mode switch (unsuccessful)
06:30	08:15	1.75	3194.00	2	Circulate 3 x BU
08:15	08:30	0.25	3194.00	2	Flow Check - static
08:30	09:30	1.00	3194.00	2	POOH 3139 - 3098m / Swab conditions observed
09:30	12:30	3.00	3194.00	2	Backream 3098 - 2741 / no torque observed
12:30	13:00	0.50	3194.00	2	Circulate BU
13:00	13:30	0.50	3194.00	2	Flow check / Pump slug
13:30	18:30	5.00	3194.00	2	POOH 2741 - 139
18:30	19:30	1.00	3194.00	2	Rack back BHA
19:30	20:30	1.00	3194.00	2	Remove RA sources / Download MWD data
20:30	21:30	1.00	3194.00	2	Break off bit / LD GP MWD
21:30	22:00	0.50	3194.00	2	Drill crew clean Drill floor
22:00	22:30	0.50	3194.00	2	Complete LD of BHA
22:30	00:00	1.50	3194.00	2	PU BHA 3 GP tools

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 15 24/08/2006

Total Depth	**(m)**	:	3350	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps** : Stuart Job, Andy Banks
Drilled last 24 hrs	**(m)**	:	156	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps** : Trevor Ziegler (15), Jeff Lingrell (15)
Hole Size	**(in)**	:	8.500	**Casing ID**	**(in)**	:	8.535	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
3339.94	92.66	101.22	2220.76	1432.17	S32.19E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 2: 138.26 m; Bit #2 (37.5 hrs), PDM # (45.25 hrs), Flex, MWD, MWD, MWD, MWD, Sub, DC, Flex, Sub, 6x HWDP, Jar, 2x HWDP
BHA 3: 140.53 m; Bit #2rr1 (39.5 hrs), PDM # (0.5 hrs), Flex, MWD, MWD, MWD, MWD, MWD, Sub, DC, Flex, Sub, 6x HWDP, Jar, 2x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	82	42	27.0	12.0 / 24.0	3		16.00	0.75	60.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:30	0.50	3194.00	2	Download MWD FEWD
00:30	01:00	0.50	3194.00	2	Install RA sources
01:00	02:00	1.00	3194.00	3	RIH to 111m
02:00	02:30	0.50	3194.00	3	Circulate / Shallow Pulse test - OK / break in GP seals
02:30	10:30	8.00	3194.00	3	RIH fill pipe every 10 stds
10:30	12:30	2.00	3194.00	3	Washing 2830 - 2956m / Perform benchmark surveys per 9m
12:30	13:00	0.50	3194.00	3	RIH wash and tag bottom 3194m on std #106
13:00	13:30	0.50	3194.00	3	Circulate / confirm surveys and well-plan
13:30	16:00	2.50	3216.00	3	Drilling 3194 - 3216m
16:00	16:30	0.50	3216.00	3	Change pump assignment / trouble shoot MWD detection
16:30	00:00	7.50	3350.00	3	Drilling 3216 - 3350m

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 16 25/08/2006

Total Depth	**(m)**	:	3697	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps** : Stuart Job, Andy Banks
Drilled last 24 hrs	**(m)**	:	347	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps** : Trevor Ziegler (16), Jeff Lingrell (16)
Hole Size	**(in)**	:	8.500	**Casing ID**	**(in)**	:	8.535	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
3687.12	79.76	93.37	2224.80	1671.42	S41.46E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 3: 140.53 m; Bit #2rr1 (49.5 hrs), PDM # (13.5 hrs), Flex, MWD, MWD, MWD, MWD, MWD, Sub, DC, Flex, Sub, 6x HWDP, Jar, 2x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	88	45	30.0	15.0 / 28.0	3		16.00	0.50	73.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	02:00	2.00	3380.00	3	Drilling 3350 - 3380
02:00	03:30	1.50	3400.00	3	Drilling 3380 - 3400m AC control - Thylacine South 1
03:30	15:30	12.00	3610.00	3	Drilling 3400 - 3610m
15:30	16:30	1.00	3610.00	3	Circulate BU - hole cleaning
16:30	18:00	1.50	3639.00	3	Drilling 3610 - 3639m
18:00	19:30	1.50	3639.00	3	Tight hole prior to connection / Circulate BU work string
19:30	00:00	4.50	3697.00	3	Drilling 3547 - 3697m

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 17 26/08/2006

Total Depth	**(m)**	:	3987	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps** : Stuart Job, Andy Banks
Drilled last 24 hrs	**(m)**	:	290	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps** : Trevor Ziegler (17), Jeff Lingrell (17)
Hole Size	**(in)**	:	8.500	**Casing ID**	**(in)**	:	8.535	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
3987.00	88.80	99.50	2253.83	1906.93	S47.33E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 3: 140.53 m; Bit #2rr1 (71. hrs), PDM # (37.5 hrs), Flex, MWD, MWD, MWD, MWD, MWD, Sub, DC, Flex, Sub, 6x HWDP, Jar, 2x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	74	35	25.0	18.0 / 22.0	4		16.00	0.60	74.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	10:00	10.00	3871.00	3	Drilling 3697 - 3871m / 2x backream per stand
10:00	11:00	1.00	3871.00	3	Back-Ream 5 times / T&G increases 10-15klb drag 20Kftlb torq
11:00	12:00	1.00	3887.00	3	Improved hole conditions / Drilling 3871 - 3887m
12:00	19:30	7.50	3987.00	3	Drilling 3887 - 3987m EOW TD
19:30	00:00	4.50	3987.00	3	Circulate BU / clean hole prior to running 7" liner

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS **Report #** 18 27/08/2006

Total Depth	**(m)**	:	3987	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps**	:	Stuart Job, Andy Banks
Drilled last 24 hrs	**(m)**	:	0	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps**	:	Trevor Ziegler (18), Jeff Lingrell (18)
Hole Size	**(in)**	:	8.500	**Casing ID**	**(in)**	:	8.535			

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
3987.00	88.80	99.50	2253.83	1906.93	S47.33E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 3: 140.53 m; Bit #2rr1 (90.5 hrs), PDM # (61.5 hrs), Flex, MWD, MWD, MWD, MWD, MWD, Sub, DC, Flex, Sub, 6x HWDP, Jar, 2x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	74	35	25.0	18.0 / 22.0	4		16.00	0.60	74.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	01:00	1.00	3987.00	3	Circulate / hole cleaning
01:00	06:30	5.50	3987.00	3	Back-ream 3987 - 3208m
06:30	11:00	4.50	3987.00	3	POOH back-ream 3208 - 3010m / Perform MWD wipe 50m/hr
11:00	14:30	3.50	3987.00	3	POOH / Back-ream 3010 - 2715m
14:30	16:00	1.50	3987.00	3	Circulate 2x BU / establish Torque and Drag parameters
16:00	16:30	0.50	3987.00	3	Flow check - static / Pump slug / drop hollow DP rabbit.
16:30	23:00	6.50	3987.00	3	POOH
23:00	00:00	1.00	3987.00	3	Trip Out (at Surface)

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 19 28/08/2006

Total Depth	**(m)**	:	3987	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps** : Stuart Job, Andy Banks
Drilled last 24 hrs	**(m)**	:	0	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps** : Trevor Ziegler (19), Jeff Lingrell (19)
Hole Size	**(in)**	:	8.500	**Casing ID**	**(in)**	:	8.535	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
3987.00	88.80	99.50	2253.83	1906.93	S47.33E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

BHA 3: 140.53 m; Bit #2rr1 (104. hrs), PDM # (78. hrs), Flex, MWD, MWD, MWD, MWD, MWD, Sub, DC, Flex, Sub, 6x HWDP, Jar, 2x HWDP

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	74	35	25.0	18.0 / 22.0	4		16.00	0.60	74.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:45	0.75	3987.00	3	Continue rack back BHA
00:45	01:30	0.75	3987.00	3	Power down MWD / Remove RA sources
01:30	02:00	0.50	3987.00	3	break off bit / lay out GeoPilot
					SDS demobilize operations
02:00	03:30	1.50	3987.00		Rig up to run 7" liner
03:30	00:00	20.50	3987.00		Run 7" liner

COMMENTS

sperry-sun
DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS Report # 20 29/08/2006

Total Depth	**(m)**	:	3987	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps** : Stuart Job, Andy Banks
Drilled last 24 hrs	**(m)**	:	0	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps** : Trevor Ziegler (20), Jeff Lingrell (20)
Hole Size	**(in)**	:		**Casing ID**	**(in)**	:	8.535	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
3987.00	88.80	99.50	2253.83	1906.93	S47.33E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	74	35	25.0	18.0 / 22.0	4		16.00	0.60	74.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	04:00	4.00	3987.00		Land 7" liner / No interference encountered
04:00	12:00	8.00	3987.00		Rig up to cement liner
12:00	14:00	2.00	3987.00		LD FEWD tools / prepare for backload
14:00	00:00	10.00	3987.00		Tear Down / Prepare for demob and backload

COMMENTS

09:30 Trevor Ziegler : Demob

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DRILLING SERVICES

Daily Drilling Report

Customer : Woodside Energy Ltd
Well : THA04
Field : Thylacine
Slot : Slot 2
Rig : Maersk Guardian
Job # : AU-DD-0003930660

CURRENT STATUS **Report #** 21 30/08/2006

Total Depth	**(m)**	:	3987	**Casing Depth**	**(m)**	:	2742.80	**Operator Reps** : Stuart Job, Andy Banks
Drilled last 24 hrs	**(m)**	:	0	**Casing Diameter**	**(in)**	:	9.625	**SSDS Reps** : Jeff Lingrell (21)
Hole Size	**(in)**	:		**Casing ID**	**(in)**	:	8.535	

LAST SURVEY

Depth (m)	Inclination	Azimuth	TVD (m)	Displ (m)	Direction
3987.00	88.80	99.50	2253.83	1906.93	S47.33E

LAST FORMATION TOP

Formation Name	MD Top (m)	TVD Top (m)

BHA SUMMARY

MUD DATA

Type	Weight (sg)	FV (sec)	PV (cp)	YP (lbf/100ft²)	Gels	Fluid Loss	pH	Solids (%)	Sand (%)	Oil (%)
Oil Base	1.25	74	35	25.0	18.0 / 22.0	4		16.00	0.60	74.00

TIME BREAKDOWN

From	To	Hours	TMD (m)	BHA #	Activity
00:00	00:00	24.00	3987.00		Tear Down / Backload / Demob

COMMENTS

HALLIBURTON

Powered by INSITE™

ALD Azimuthal Lithodensity
CTN Compensated Thermal Neutron
CNØ Compensated Neutron Porosity
DGR Dual Gamma Ray
EWR-Phase 4
ACAL Acoustic Caliper

1 : 1000

Sperry Drilling Services

Country	: **Australia**
Field	: **Thylacine**
Location	: **39° 14' 14.56" South GDA94** **142° 54' 7.58" East GDA94**
Well	: **THA04**
Company	: **Woodside Energy Ltd**
Rig	: **Maersk Guardian**

Company : **Woodside Energy Ltd**
Rig : **Maersk Guardian**
Well : **THA04**
Field : **Thylacine**
Country : **Australia**
DOE Number :

LOCATION
Latitude : **39° 14' 14.56" South GDA94**
Longitude : **142° 54' 7.58" East GDA94**
UTM Easting = 664,161.0 m
UTM Northing = 5,655,156.8 m

Other Services
Directional Drilling

Permanent Datum : **LAT** Elevation : **0.00 m**
Log Measured From : **Drill Floor** **50.50 m** Above Permanent Datum
Drilling Measured From : **Drill Floor**

MD LOG

Elev. KB
DF **50.50 m**
GL
WD **99.30 m**

Depth Logged : **650.00 m** To **3,987.00 m**
Date Logged : **10-Aug-06** To **28-Aug-06**
Total Depth MD : **3,987.00 m** TVD : **2,253.83 m**
Spud Date : **12-Aug-06**

Unit No. : **SSDS-40** Job No. : **AU-FE-0003930660**
Plot Type : **Final**
Plot Date : **27-Sep-06**

Run No.	Borehole Record (MD) Size	From	To
100	311.000 mm	650.00 m	2,751.00 m
200	216.000 mm	2,751.00 m	3,194.00 m
300	216.000 mm	3,194.00 m	3,987.00 m

Run No.	Borehole Record (MD) Size	From	To

Casing Record (MD)

Size	Weight	From	To
244.000 mm	70.00 kgpm	150.00 m	2,742.80 m

WELL INFORMATION

MWD Run Number	100	200	300																										
Date run completed	18-Aug-06	24-Aug-06	28-Aug-06																										
Rig Bit Number	4	1	1RR																										
Bit Size (mm)	311	216	216																										
Tool Nominal OD (mm)	203	171	171																										
Log Start Depth (MD, m)	650.00	2,751.00	3,194.00																										
Log End Depth (MD, m)	2,751.00	3,194.00	3,987.00																										
Drill or Wipe	Drilling	Drilling	Drilling																										
Drill/Wipe Start Date and Time	12-Aug-06 07:50	21-Aug-06 01:25	24-Aug-06 14:00																										
Drill/Wipe End Date and Time	17-Aug-06 20:48	23-Aug-06 05:50	27-Aug-06 11:30																										
Min Inc (deg) @ Depth (MD, m)	6.30 @ 688.39	76.93 @ 2,760.53	79.76 @ 3,687.12																										
Max Inc (deg) @ Depth (MD, m)	74.87 @ 2,740.73	102.62 @ 2,963.19	96.12 @ 3,253.07																										
Bit TFA(in2) / Bit Type	1.49 / Sec FMF3565Z	1.11 / Sec FMF3653Z	1.11 / Sec FMF3653Z																										
Flow Rate (gpm)	1,150	740	735																										
Max AV (mpm) / CV (mpm) @ MWD	99.6 / 138.6	210.0 / 192.0	205.8 / 151.8																										
Fluid Type	SYN-TEQ	SYN-TEQ	SYN-TEQ																										
Density (sg) / Viscosity (spl)	1.25 / 80.3	1.25 / 94.1	1.25 / 78.2																										
Filtrate CL (ppm)	36,700	31,870	30,450																										
pH / Fluid Loss (mptm)	N/A / 3.0	N/A / 2.8	N/A / 3																										
PV (cP) / YP (pa)	41 / 14.8	49 / 17.2	35 / 12.5																										
% Solids / % Sand	14.4 / 0.3	14.5 / 0.5	14.3 / 0.6																										
% Oil / Oil:Water Ratio	60.5 / 72:28	61.5 / 73:27	62.5 / 74:26																										
Rm @ Measured Temp (degC)	N/A @ N/A	N/A @ N/A	N/A @ N/A																										
Rmf @ Measured Temp (degC)	N/A @ N/A	N/A @ N/A	N/A @ N/A																										
Rmc @ Measured Temp (degC)	N/A @ N/A	N/A @ N/A	N/A @ N/A																										
Max Tool Temp (degC) / Source	104 / EWR-P4	102 / EWR-P4	115 / EWR-P4																										
Rm @ Max Tool Temp (degC)	N/A @ N/A	N/A @ N/A	N/A @ N/A																										
Lead MWD Engineer	T. Oborne	T. Oborne	T. Oborne																										
Customer Representative	S. Corless	S. Job	S. Job																										

SENSOR INFORMATION

Downhole Processor Information					
Tool Type	HCIM	HCIM	HCIM		
Software Version	68.18	72.13	72.13		
Sub Serial Number	189273	161828	10505777		
Insert Serial Number	133489	161821	161828		
Date and Time Initialized	11-Aug-06 15:52	21-Aug-06 00:35	24-Aug-06 00:46		
Date and Time Read	19-Aug-06 00:48	24-Aug-06 03:25	28-Aug-06 00:15		

Directional Sensor Information					
Tool Type	DM	DM	PMIII		
Distance From Bit (m)	8.70	8.02	8.95		
Software Version	3.15	3.15	4.00		
Sub Serial Number	CP719940	CP1015920	CP973260		
Sonde Serial Number	185534	185534	136742		
Sensor ID Number	185534	185534	136742		
Toolface Offset (deg)	N/A	N/A	N/A		

Gamma Ray Sensor Information					
Tool Type	DGR	DGR	DGR		
Distance From Bit (m)	11.21	10.56	11.50		
Recorded Sample Period (sec)	12	14	14		
Software Version	N/A	N/A	N/A		
Sub Serial Number	10718409	77761	218747		
Insert/Sonde Serial Number	087229	10505500	050437		

Resistivity Sensor Information					
Tool Type	EWR-P4	EWR-P4	EWR-P4		
Distance From Bit (m)	13.56	12.89	13.85		
Recorded Sample Period (sec)	12	14	14		
Software Version	1.38	1.38	1.38		
Sub Serial Number	96506	191904	197652		
Receiver Insert Serial Number	45162	77531	74703		
Transmitter Insert Serial Number	123860	106181	62499		
Receiver Orientation	Down	Down	Down		

Neutron Sensor Information					
Tool Type		CTN	CNP		
Distance From Bit (m)		24.59	24.29		
Recorded Sample Period (sec)		20	12		
Sub Serial Number		174118	177933		
Insert Serial Number		175366	68615		
Source Serial Number		0102NN	1399NN		
Source Factor		N/A	1.1840		
Pin Orientation		Up	Up		

Density Sensor Information					
Tool Type		ALD	ALD		
Distance From Bit (m)		20.52	21.43		
Recorded Sample Period (sec)		20	20		
Software Version		2.13	2.13		
Sub Serial Number		10718174	10503661		
Insert Serial Number		215918	10507163		
Sensor ID Number		32081	32022		
Source Serial Number		2434GW	2671GW		
Pin Orientation		Up	Up		
Stabilizer Blade O.D. (mm)		209.550	209.550		
DPA Offset		332.30	2.00		

Caliper Sensor Information					
Tool Type		ACAL	ACAL		
Distance From Bit (m)		23.53	31.34		
Software Version		4.20	4.20		

Software Version		4.20	4.20		
Sub Serial Number		174118	123087		
Insert Serial Number		175366	141728		

REMARKS

1.) All depths are bit depths and are referenced to the driller's pipe tally unless otherwise noted.

2.) AV/CV values are calculated at the LWD collar using the Bingham Law for oil based mud, measured in m/min.

3.) Curve Mnemonics used are:

SGRC - Smoothed Combined Gamma Ray, api
SROP - Smoothed Rate of Penetration, m/hr
ACAL - Smoothed Acoustic Caliper Hole Size, inches
SEXP - Smoothed Extra-Shallow Phase Resistivity, ohm-metre
SESP - Smoothed Shallow Phase Resistivity, ohm-metre
SEMP - Smoothed Medium Phase Resistivity, ohm-metre
SEDP - Smoothed Deep Phase Resistivity, ohm-metre
SCO2 - Smoothed Stand Off Correction (Low Count Rate), g/cc
SBD2 - Smoothed Bulk Density (Low Count Rate), g/cc
SNP2 - Smoothed Near Photoelectric effect, b/e
TNPL - Smoothed Thermal Neutron Porosity (LS), v/v

4.) CTN/CNP data has been processed using the following parameters and is based on Limestone matrix:

MW = 1.25 sg
Formation Salinity = 15,000 ppm Cl
Mud Salinity = 25,632 - 31,874ppm Cl
Matrix Density = 2.71 g/cc
Fluid Density = 1.00 g/cc

5.) TNPL data is from the CTN tool to 3170.19 mMDRT and from the CNP tool to TD. Data has been reprocessed using hole size derived from the Acoustic Caliper tool.

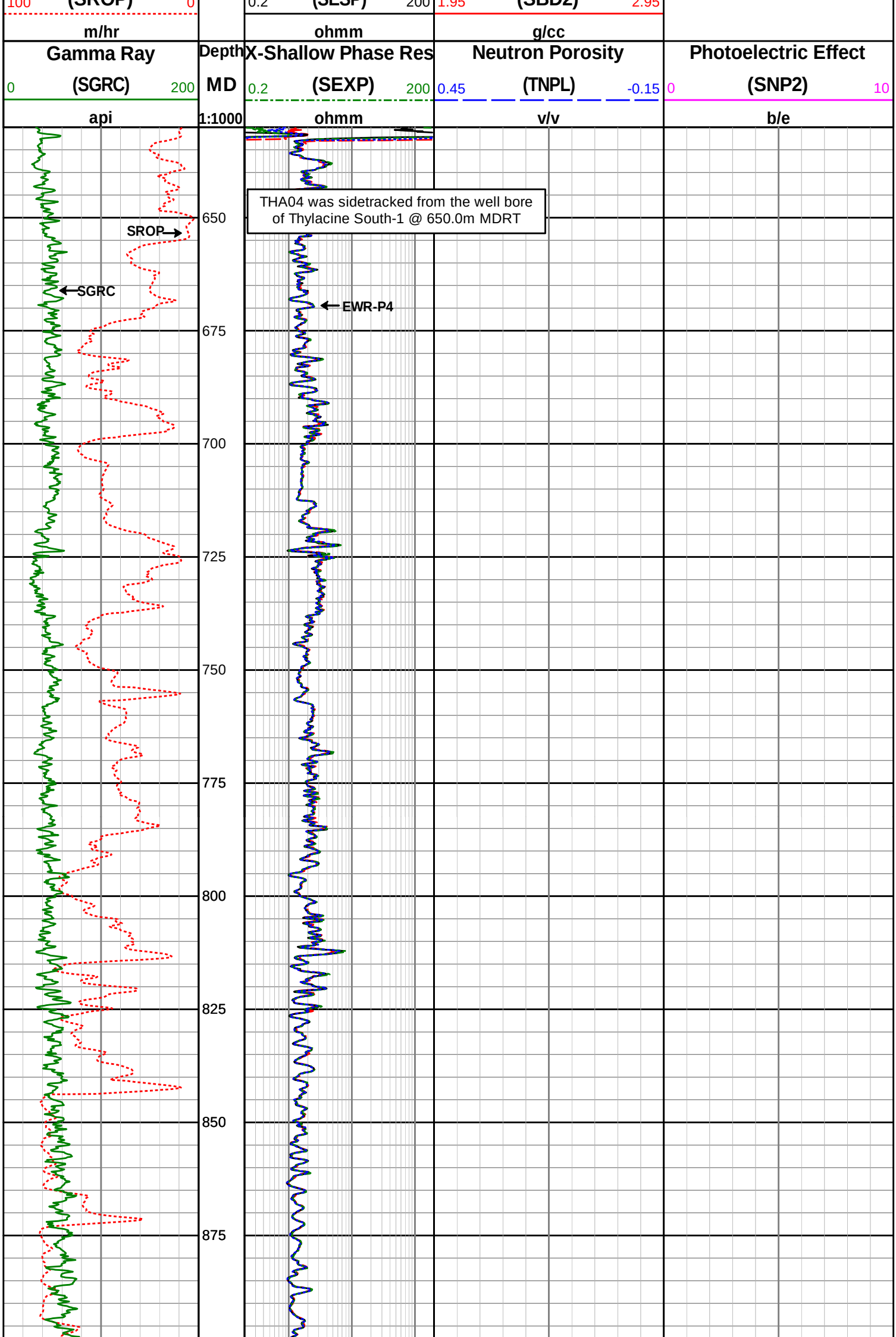
6.) Real-Time Caliper data is presented to 3170.2 mMDRT as unable to read tool on deck.

7.) Density data from 3000.5 - 3172.8 mMDRT is wipe data recorded while POOH.

WARRANTY

HALLIBURTON ENERGY SERVICES (HES) WILL USE ITS BEST EFFORTS TO FURNISH CUSTOMERS WITH ACCURATE INFORMATION AND INTERPRETATIONS THAT ARE PART OF, AND INCIDENT TO, THE SERVICES PROVIDED. HOWEVER, HES CANNOT AND DOES NOT WARRANT THE ACCURACY OR CORRECTNESS OF SUCH INFORMATION AND INTERPRETATIONS. UNDER NO CIRCUMSTANCES SHOULD ANY SUCH INFORMATION OR INTERPRETATION BE RELIED UPON AS THE SOLE BASIS FOR ANY DRILLING, COMPLETION, PRODUCTION, OR FINANCIAL DECISION OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING VENTURE, DRILLING RIG OR ITS CREW OR ANY OTHER THIRD PARTY. THE CUSTOMER HAS FULL RESPONSIBILITY FOR ALL DRILLING, COMPLETION AND PRODUCTION OPERATION. HES MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE SERVICES RENDERED. IN NO EVENT WILL HES BE LIABLE FOR FAILURE TO OBTAIN ANY PARTICULAR RESULTS OR FOR ANY DAMAGES, INCLUDING, BUT NOT LIMITED TO, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OF ANY INFORMATION OR INTERPRETATION PROVIDED BY HES.

	Deep Phase Res (SEDP) 0.2 – 200 ohmm	
Acoustic Caliper (ACAL) 6 – 16 inches	Medium Phase Res (SEMP) 0.2 – 200 ohmm	Standoff Correction (SCO2) -0.75 – 0.25 g/cc
Rate of Penetration (SROP) 100 – 0	Shallow Phase Res (SESP) 0.2 – 200	Bulk Density (SBD2) 1.95 – 2.95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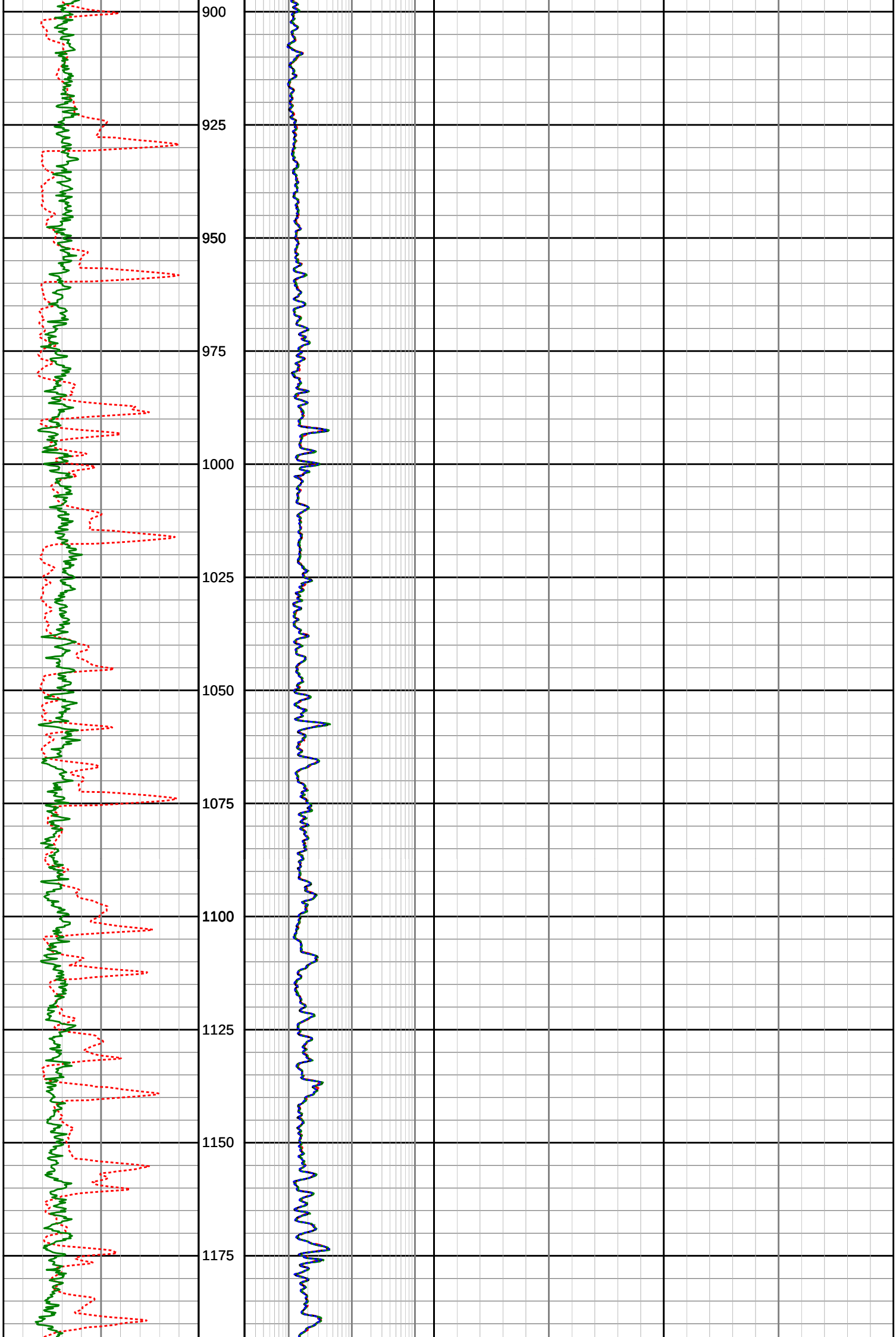
m/hr
0.2 (SESP) 200
ohmm
1.95 (SBD2) 2.95
g/cc
Gamma Ray
0 (SGRC) 200
api
Depth
MD
1:1000
X-Shallow Phase Res
0.2 (SEXP) 200
ohmm
Neutron Porosity
0.45 (TNPL) -0.15
v/v
Photoelectric Effect
0 (SNP2) 10
b/e
THA04 was sidetracked from the well bore
of Thylacine South-1 @ 650.0m MDRT
SROP
SGRC
EWR-P4
650
675
700
725
750
775
800
825
850
875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950
975
1000
1025
1050
1075
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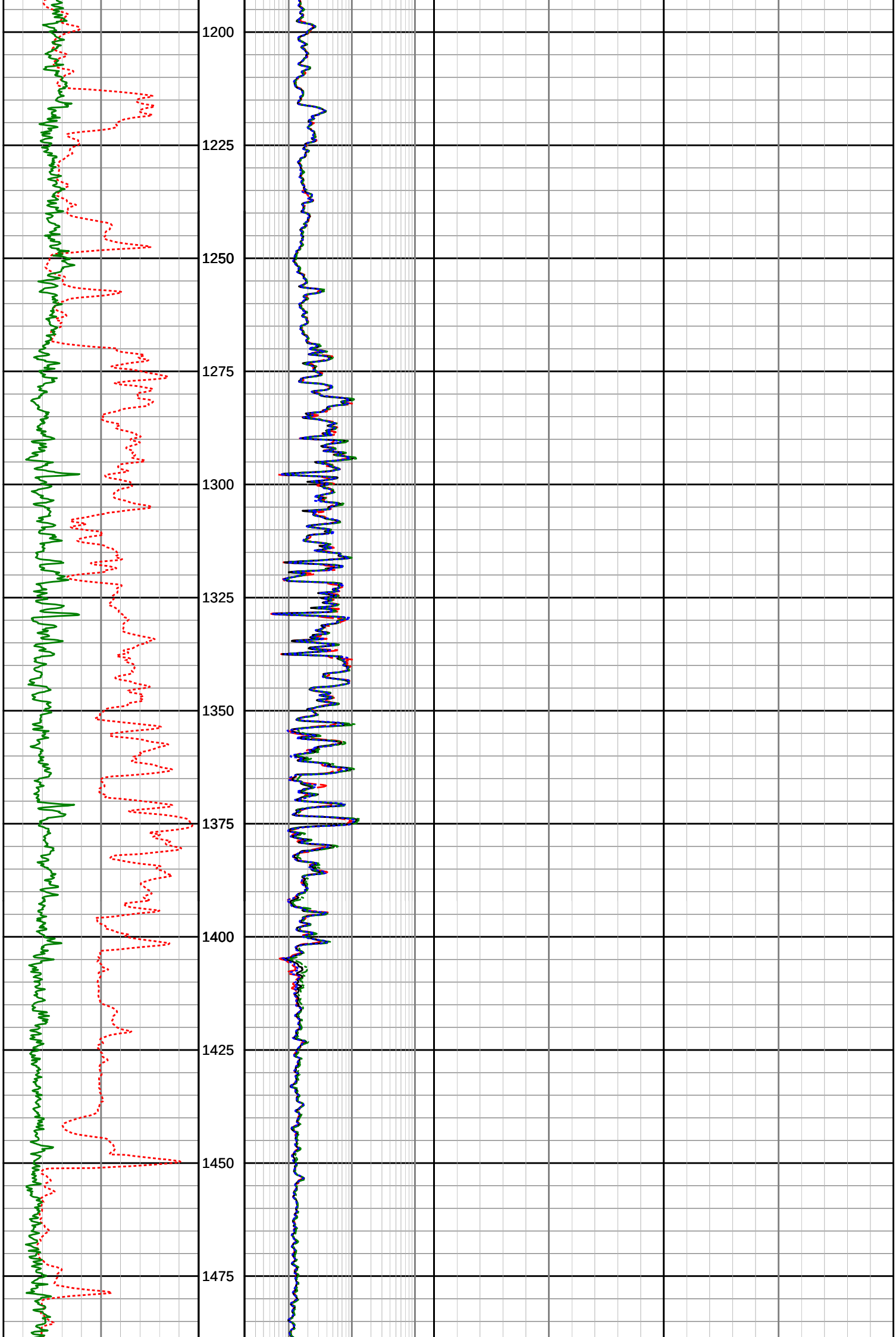
1125
1150
1175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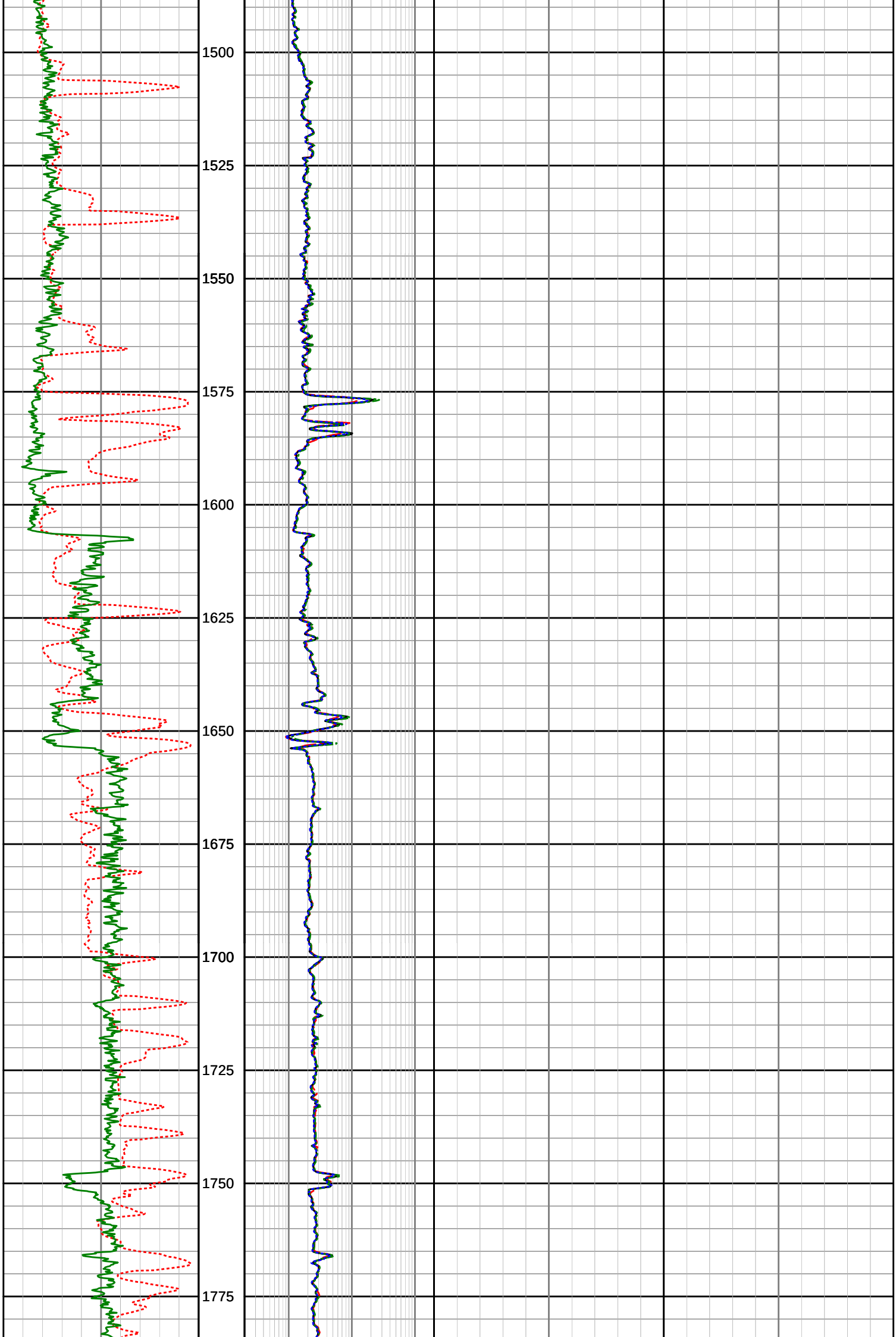
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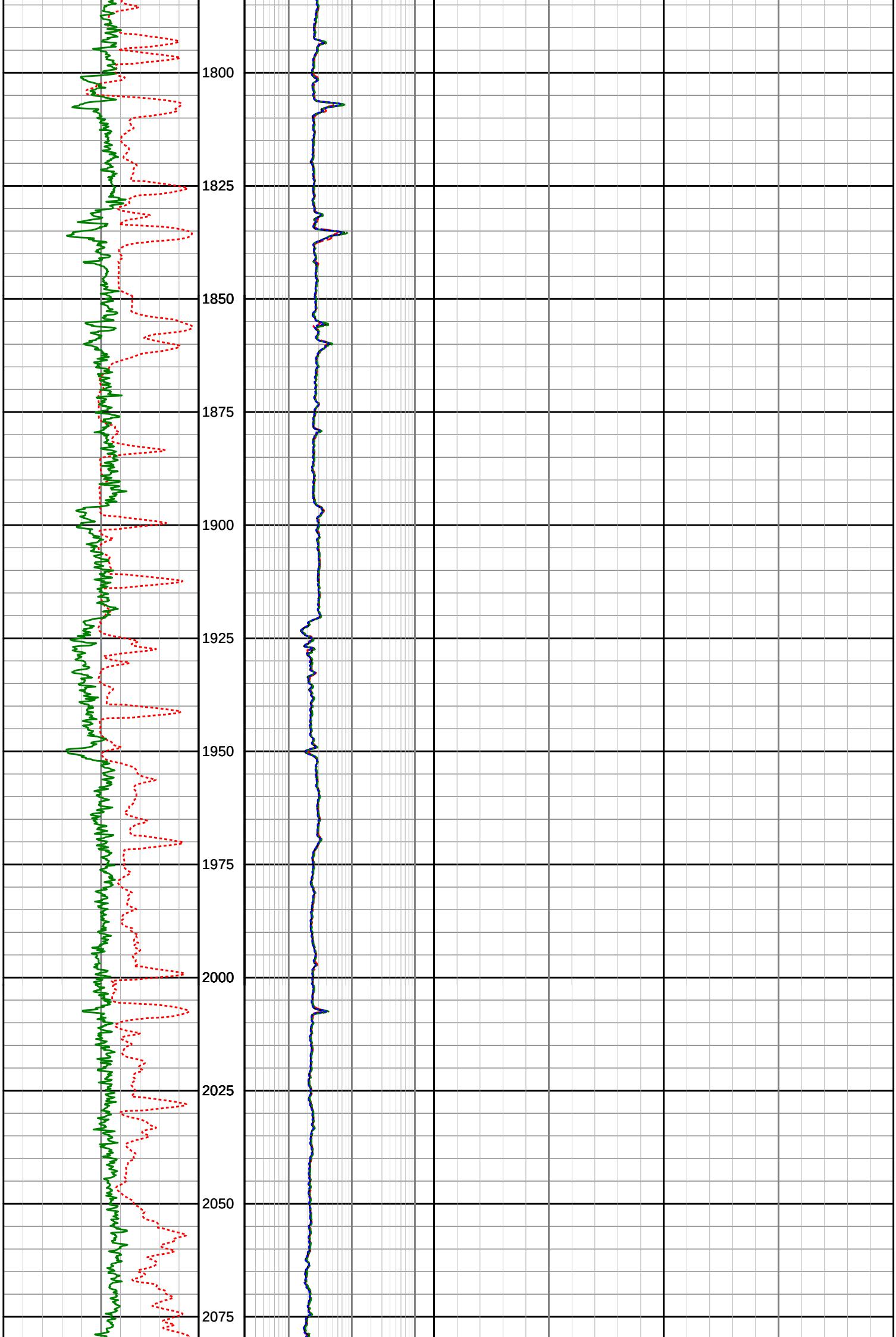
1775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1925
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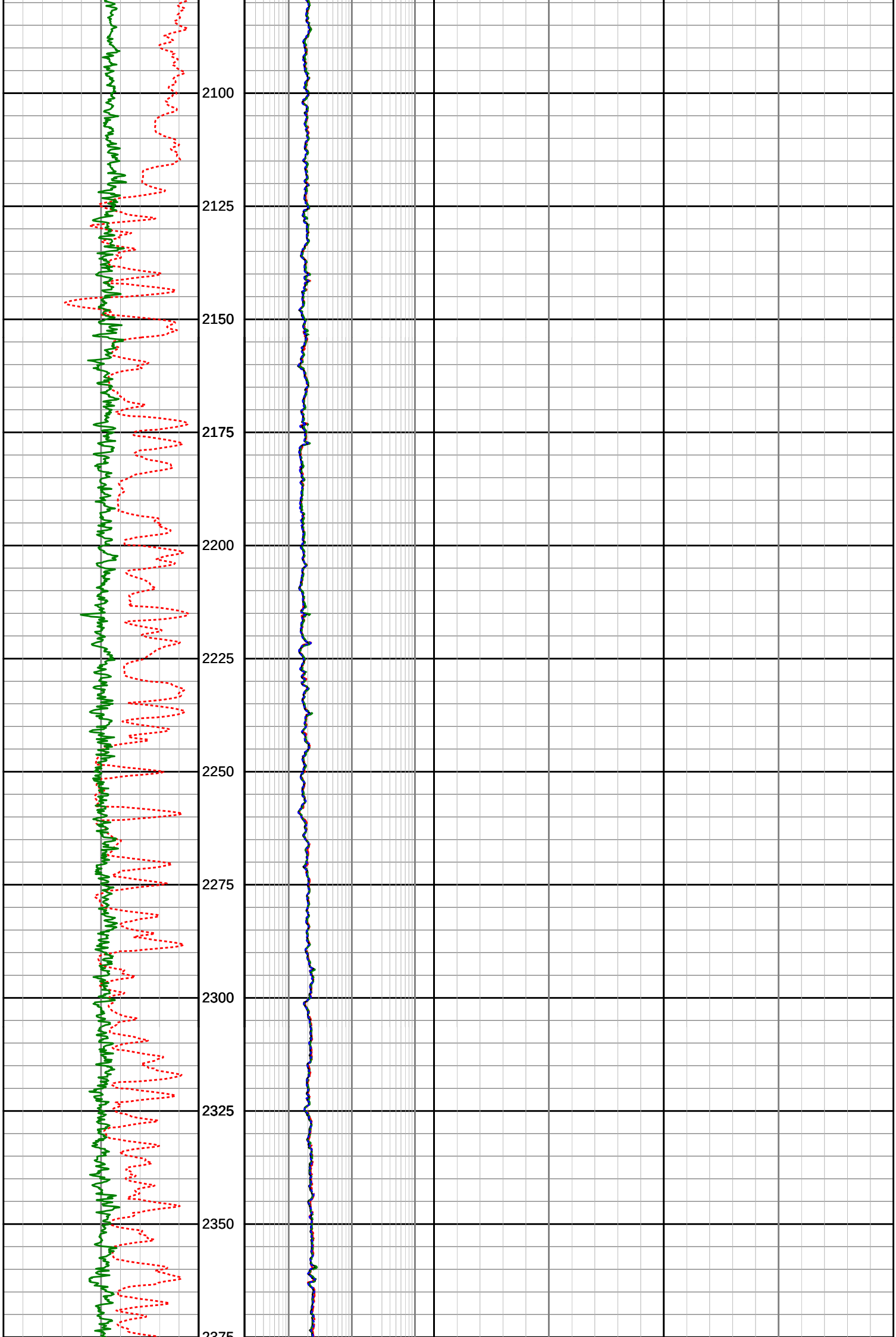
2075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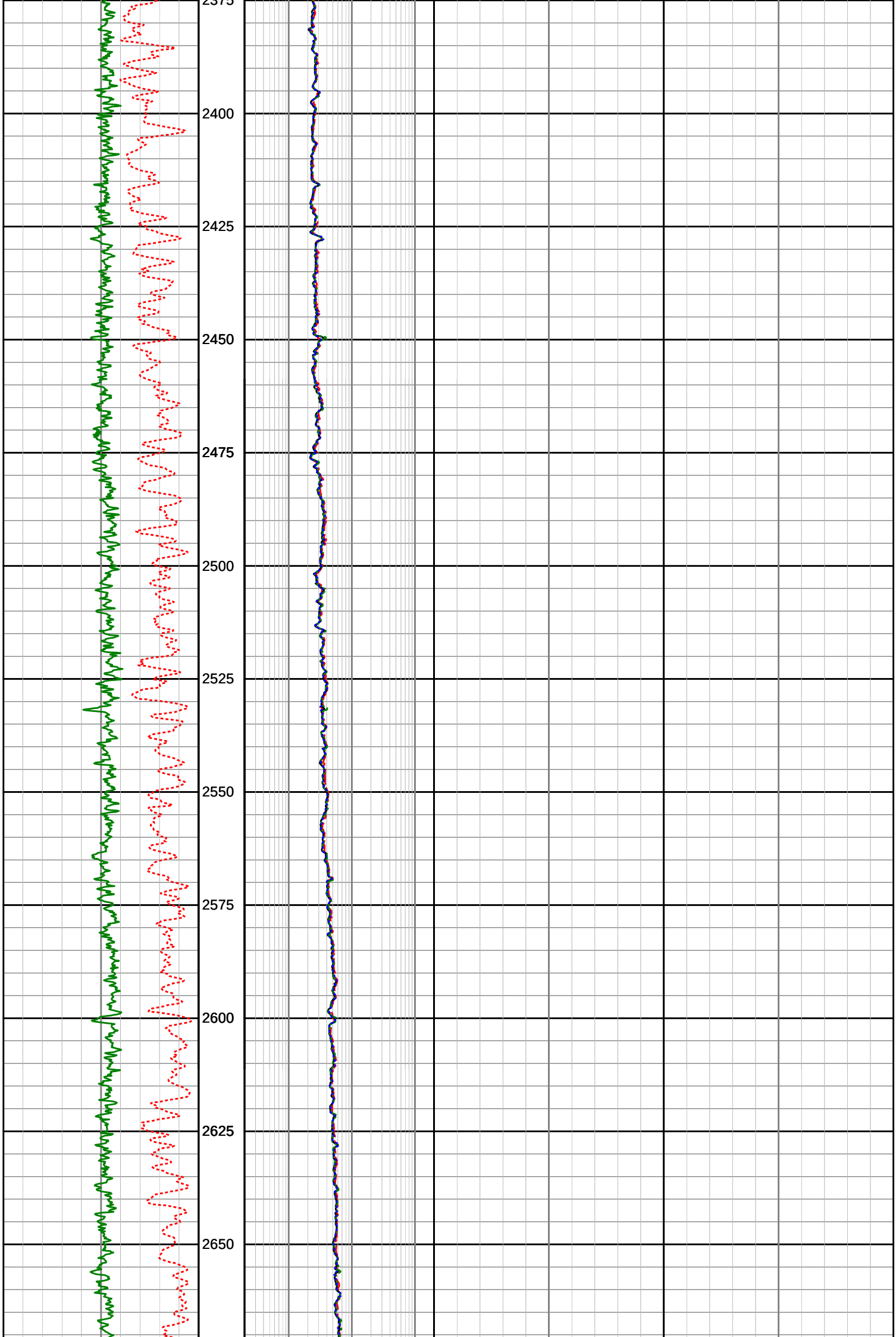
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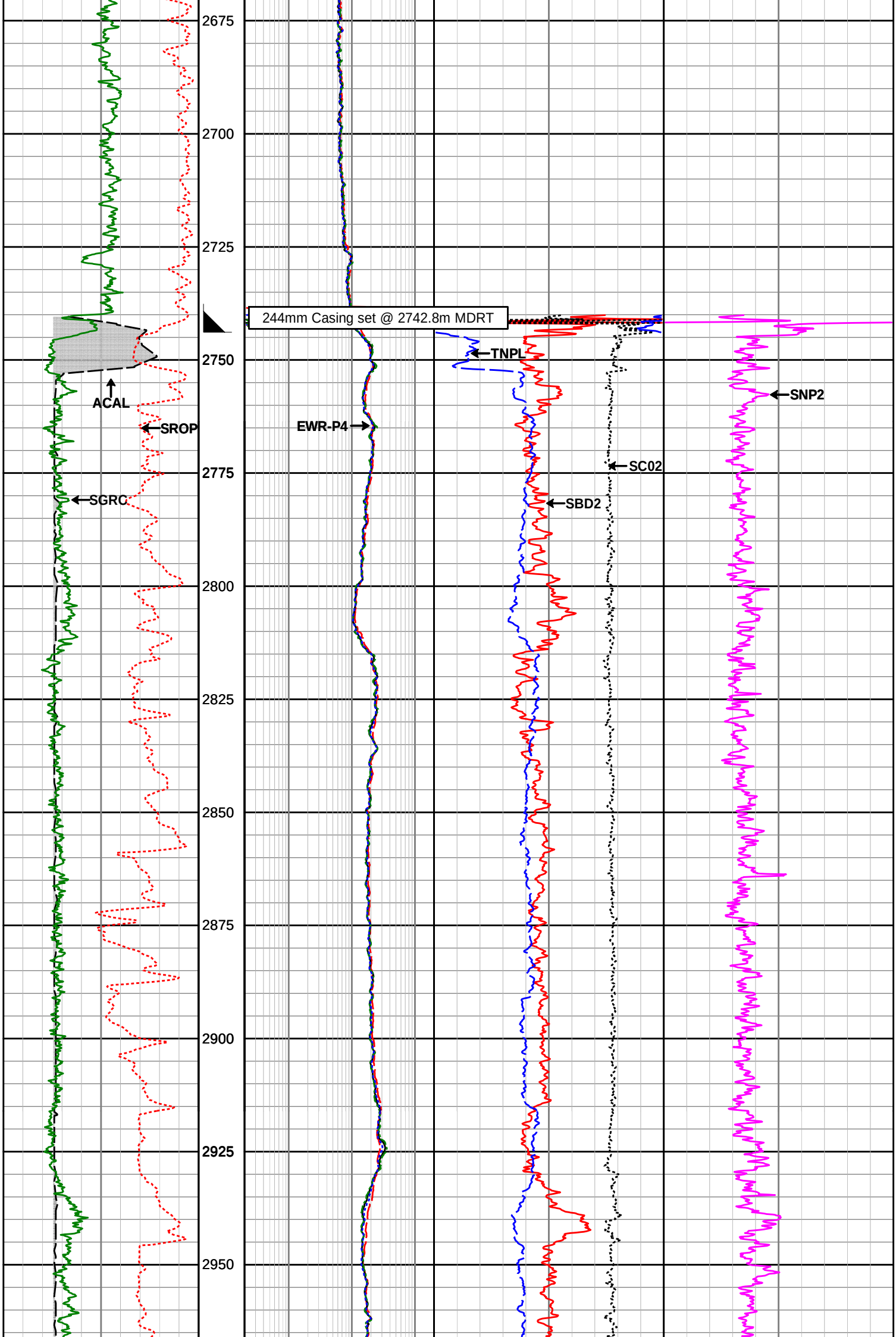
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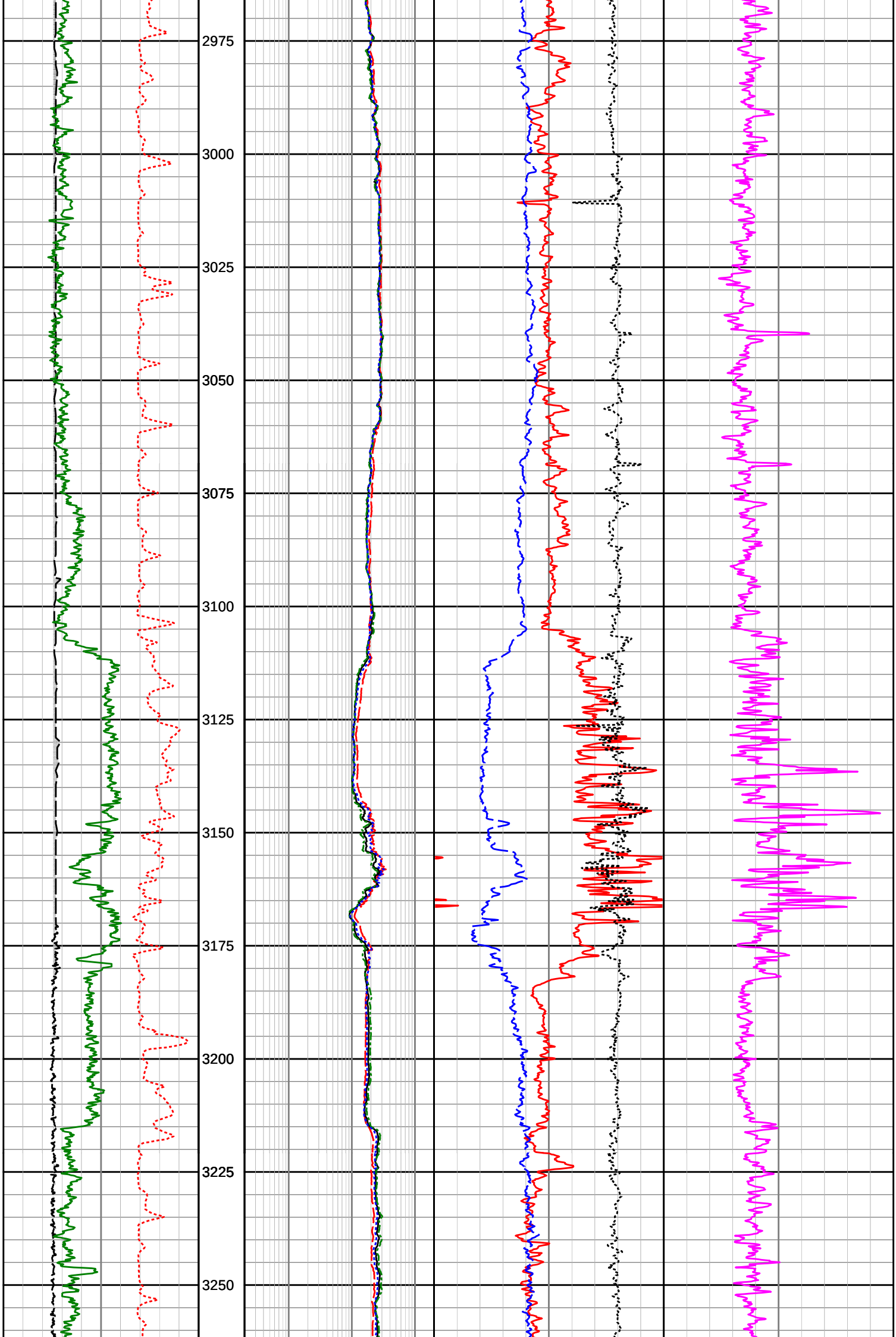
2700
2725
2750
2775
2800
2825
2850
2875
2900
2925
2950
244mm Casing set @ 2742.8m MDRT
ACAL
SROP
SGRC
EWR-P4
TNPL
SC02
SBD2
SNP2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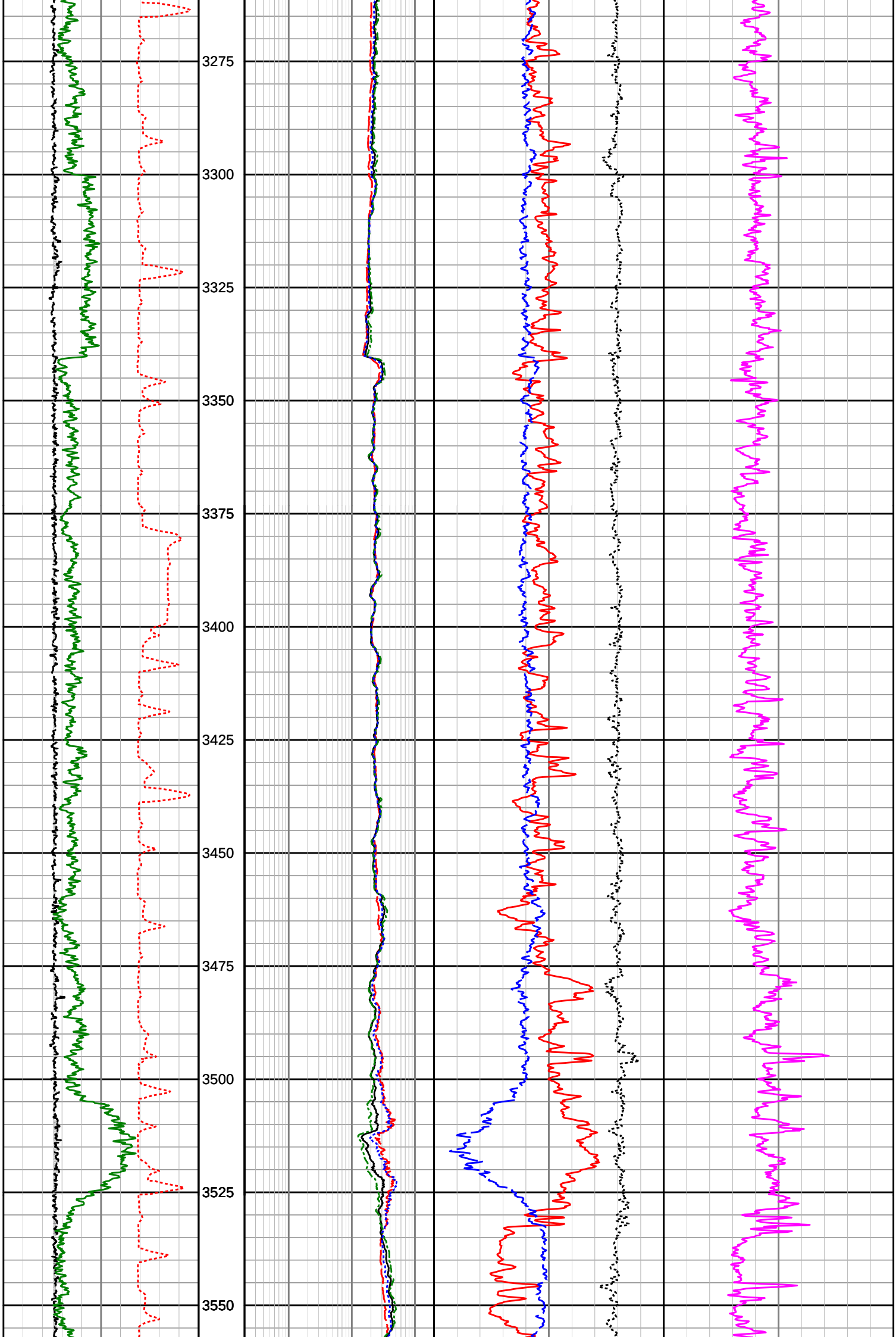
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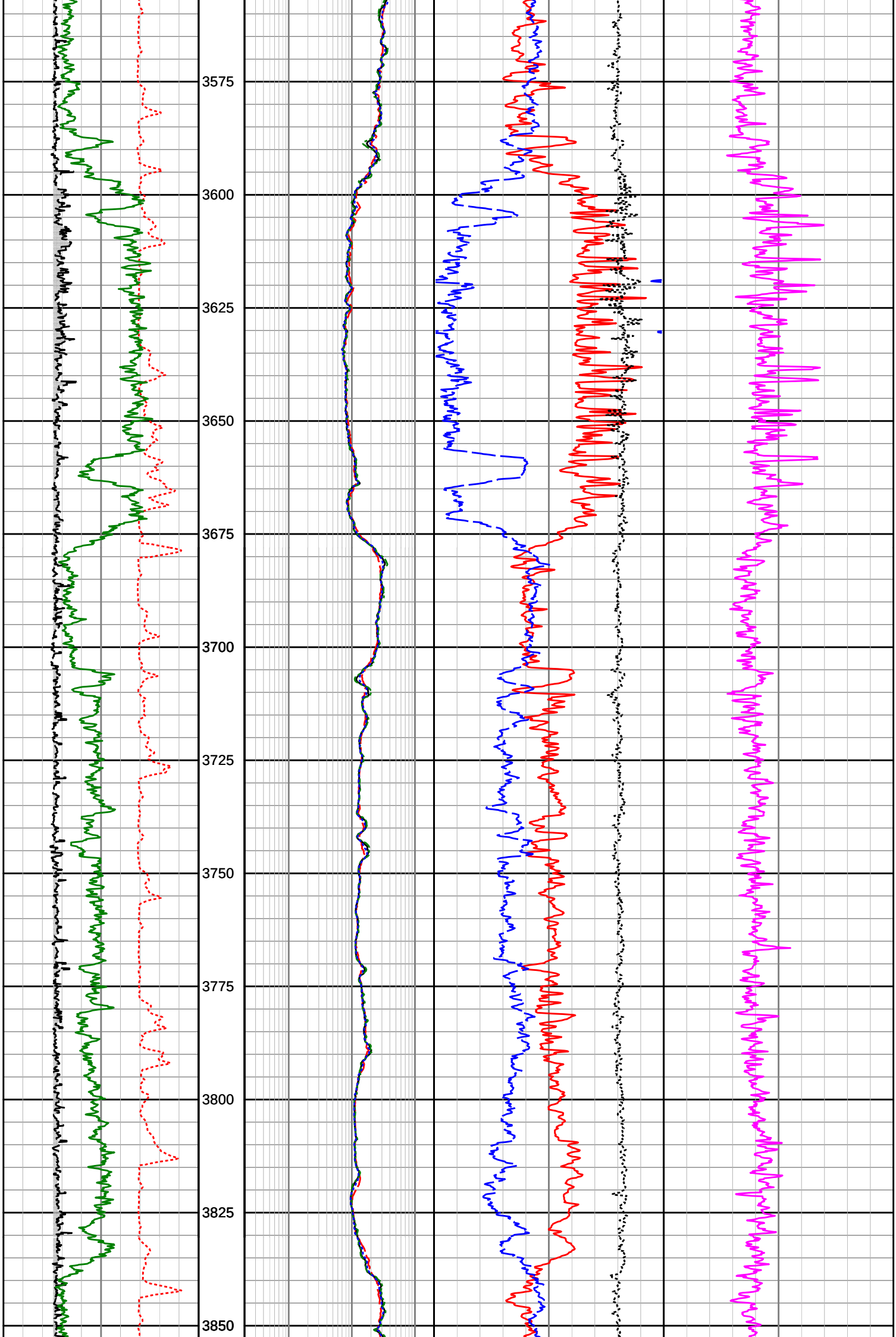
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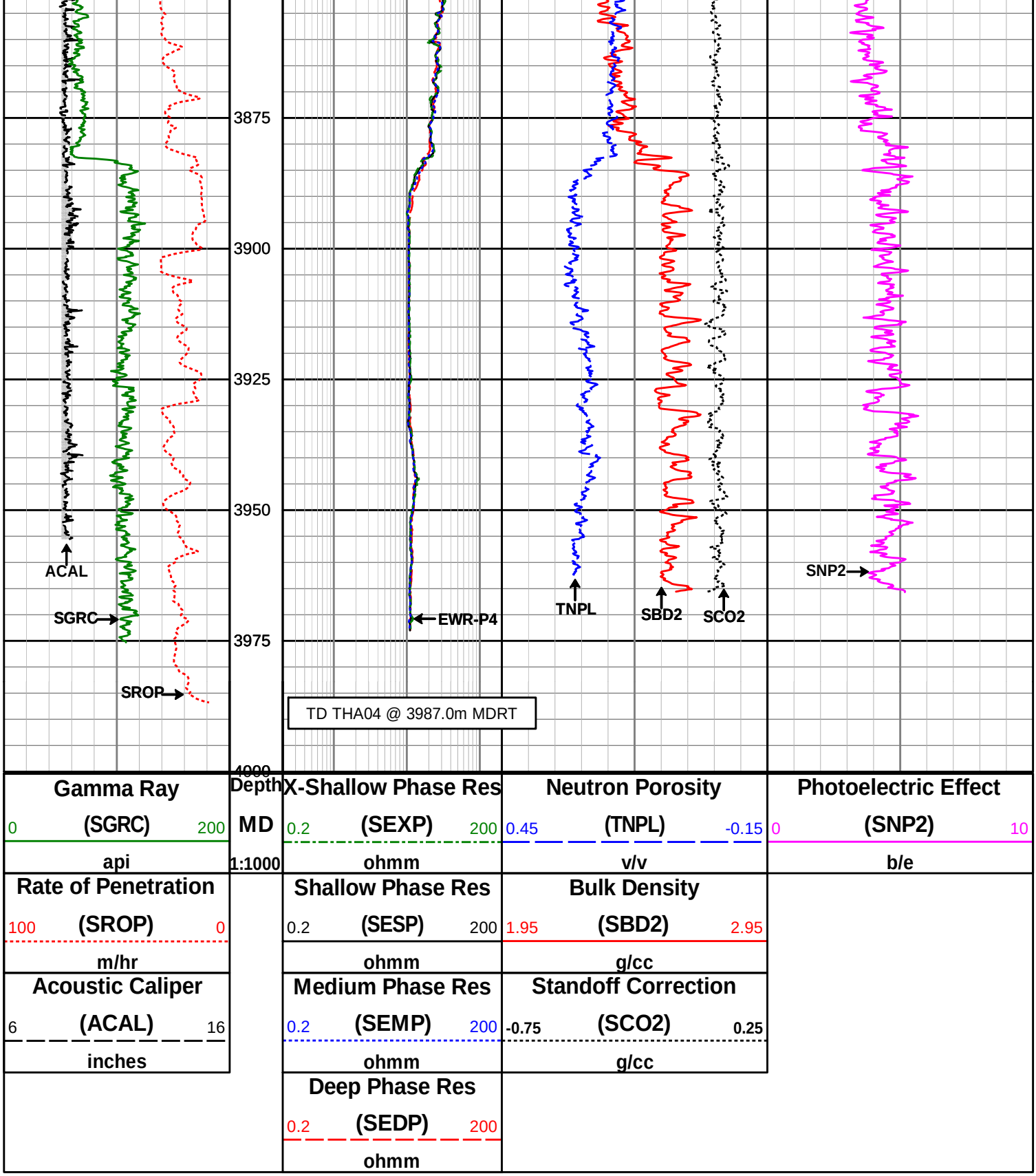


Sperry Drilling Services

DIRECTIONAL SURVEY REPORT

Woodside Energy Ltd
THA04
Thylacine
Victoria
Australia
AU-FE-000393066
RT-LAT=50.5m.
Final survey projected to TD.
All Surveys are SAG corrected.
Surveys to 1498.12m MDRT are SUCOP corrected.
Surveys from 1527.01m MDRT are Cazandra corrected.

Measured	*Vertical*	*Vertical*

Depth (metres)	Inclination (degrees)	Direction (degrees)	Depth (metres)	Latitude (metres)	Departure (metres)	Section (metres)	Dogleg (deg/30m)
650.000	5.18	173.38	649.360	21.420 S	2.120 E	15.001	TIE-IN
688.390	6.30	210.93	687.570	24.950 S	1.237 E	16.509	3.00
717.360	10.31	208.79	716.230	28.587 S	0.830 W	17.158	4.16
746.300	14.72	197.80	744.480	34.361 S	3.202 W	18.899	5.18
775.250	18.30	195.23	772.232	42.251 S	5.521 W	22.000	3.79
804.220	20.86	194.83	799.525	51.627 S	8.037 W	25.873	2.65
833.180	24.98	191.59	826.193	62.607 S	10.586 W	30.718	4.46
862.140	28.78	189.26	852.020	75.482 S	12.938 W	36.899	4.08
891.060	32.15	190.32	876.944	89.928 S	15.437 W	43.942	3.54
920.010	34.55	190.51	901.125	105.580 S	18.315 W	51.441	2.49
948.960	33.85	189.07	925.070	121.614 S	21.083 W	59.263	1.11
977.870	33.51	188.44	949.127	137.459 S	23.524 W	67.224	0.51
1006.770	32.88	188.81	973.311	153.102 S	25.896 W	75.113	0.69
1035.710	31.56	189.35	997.794	168.339 S	28.330 W	82.700	1.40
1064.580	31.61	196.12	1022.395	183.066 S	31.659 W	89.270	3.68
1093.400	33.36	198.23	1046.705	197.850 S	36.236 W	94.899	2.17
1122.380	34.19	197.83	1070.794	213.170 S	41.222 W	100.542	0.89
1151.260	33.03	195.24	1094.847	228.490 S	45.776 W	106.523	1.92
1180.180	32.68	194.25	1119.141	243.662 S	49.769 W	112.850	0.66
1209.130	32.85	194.31	1143.485	258.846 S	53.634 W	119.285	0.18
1238.050	32.69	194.61	1167.803	274.003 S	57.543 W	125.669	0.24
1266.970	32.70	195.15	1192.140	289.101 S	61.554 W	131.936	0.30
1295.890	32.87	195.56	1216.454	304.202 S	65.701 W	138.098	0.29
1324.790	33.17	196.36	1240.686	319.343 S	70.032 W	144.142	0.55
1353.720	32.35	196.87	1265.014	334.344 S	74.507 W	149.985	0.90
1382.600	31.60	196.07	1289.513	349.009 S	78.844 W	155.728	0.89
1411.510	31.20	196.12	1314.189	363.481 S	83.020 W	161.476	0.42
1440.360	31.66	195.63	1338.806	377.951 S	87.135 W	167.271	0.55
1469.240	33.20	195.26	1363.181	392.879 S	91.258 W	173.345	1.61
1498.120	33.15	196.11	1387.354	408.093 S	95.530 W	179.480	0.49
1527.010	32.27	197.10	1411.662	423.054 S	99.990 W	185.311	1.07
1555.950	32.13	197.42	1436.151	437.781 S	104.565 W	190.905	0.23
1584.900	32.14	197.54	1460.666	452.469 S	109.191 W	196.436	0.07
1613.830	31.59	196.05	1485.236	467.088 S	113.605 W	202.090	1.00
1642.730	31.64	196.36	1509.847	481.636 S	117.833 W	207.845	0.18
1671.670	31.29	196.58	1534.532	496.122 S	122.116 W	213.518	0.38
1700.540	31.70	196.96	1559.149	510.563 S	126.468 W	219.109	0.47
1729.450	31.83	196.87	1583.728	525.124 S	130.896 W	224.716	0.14
1758.400	32.33	194.83	1608.259	539.913 S	135.093 W	230.645	1.24
1787.330	31.96	195.03	1632.754	554.786 S	139.058 W	236.808	0.40
1816.310	32.21	195.30	1657.307	569.644 S	143.085 W	242.912	0.30
1845.270	32.04	193.45	1681.834	584.560 S	146.909 W	249.213	1.03
1874.190	32.87	193.78	1706.237	599.643 S	150.563 W	255.750	0.88
1903.180	31.63	193.99	1730.754	614.660 S	154.274 W	262.201	1.29
1932.120	31.27	194.24	1755.442	629.304 S	157.956 W	268.443	0.40
1961.070	31.95	194.74	1780.097	643.995 S	161.754 W	274.623	0.76
1989.910	32.22	189.82	1804.537	658.953 S	165.007 W	281.396	2.73
2018.810	32.07	182.90	1829.015	674.212 S	166.710 W	289.569	3.82
2047.730	32.63	178.55	1853.449	689.676 S	166.901 W	299.053	2.48
2076.660	33.52	174.02	1877.695	705.421 S	165.871 W	309.666	2.72
2105.610	34.25	170.36	1901.730	721.404 S	163.674 W	321.342	2.25
2134.560	35.30	162.86	1925.521	737.437 S	159.843 W	334.326	4.56
2163.440	36.78	153.99	1948.889	753.192 S	153.588 W	349.034	5.63
2192.410	37.04	147.72	1972.061	768.369 S	145.122 W	365.110	3.91
2221.340	37.25	147.33	1995.121	783.106 S	135.742 W	381.628	0.33
2250.240	39.85	148.53	2017.721	798.369 S	126.185 W	398.612	2.81
2279.240	42.08	144.94	2039.621	814.252 S	115.750 W	416.669	3.35
2308.150	43.98	140.53	2060.758	829.935 S	103.800 W	435.786	3.69
2337.080	46.34	136.35	2081.161	845.267 S	90.187 W	455.986	3.93
2366.050	48.66	134.83	2100.732	860.519 S	75.238 W	477.181	2.67
2395.160	50.48	132.94	2119.610	875.874 S	59.267 W	499.241	2.39
2424.050	53.68	129.08	2137.367	890.810 S	42.066 W	522.000	4.59
2452.990	55.25	123.38	2154.195	904.709 S	23.076 W	545.514	5.08
2481.900	55.15	121.40	2170.696	917.425 S	3.032 W	569.115	1.69
2509.330	56.34	122.19	2186.135	929.371 S	16.237 E	591.630	1.48
2538.240	57.74	122.37	2201.864	942.326 S	36.744 E	615.742	1.46
2567.190	61.95	120.21	2216.404	955.314 S	58.134 E	640.566	4.77
2596.080	65.06	117.03	2229.294	967.687 S	80.828 E	666.027	4.38
2625.010	65.29	116.41	2241.440	979.492 S	104.281 E	691.727	0.63
2653.940	69.24	116.73	2252.618	991.426 S	128.140 E	717.825	4.11
2682.840	71.58	113.35	2262.310	1002.941 S	152.804 E	744.293	4.10
2712.930	72.42	112.26	2271.609	1014.033 S	179.184 E	771.839	1.33
2740.730	74.87	112.04	2279.436	1024.089 S	203.889 E	797.429	2.65

2760.530	76.93	111.88	2284.259	1031.270 S	221.698 E	815.834	3.13
2789.540	81.86	112.24	2289.597	1041.976 S	248.117 E	843.170	5.11
2818.500	87.26	113.06	2292.341	1053.075 S	274.712 E	870.889	5.66
2847.450	91.70	113.17	2292.604	1064.437 S	301.330 E	898.790	4.60
2876.380	97.39	113.51	2290.312	1075.858 S	327.799 E	926.610	5.91
2905.330	101.06	113.86	2285.672	1087.335 S	353.963 E	954.227	3.82
2934.260	102.06	114.41	2279.875	1098.923 S	379.828 E	981.679	1.18
2963.190	102.62	114.71	2273.692	1110.670 S	405.533 E	1009.105	0.66
2992.130	102.45	112.78	2267.410	1122.045 S	431.390 E	1036.418	1.96
3021.100	100.84	108.83	2261.561	1132.118 S	457.908 E	1063.437	4.34
3050.040	100.25	110.72	2256.264	1141.743 S	484.680 E	1090.377	2.02
3078.940	100.82	109.65	2250.980	1151.547 S	511.347 E	1117.345	1.24
3107.890	100.67	108.82	2245.582	1160.917 S	538.201 E	1144.190	0.86
3136.860	98.37	105.95	2240.790	1169.450 S	565.463 E	1170.831	3.78
3165.840	96.81	104.34	2236.962	1176.954 S	593.190 E	1197.196	2.31
3195.210	95.81	101.40	2233.734	1183.455 S	621.645 E	1223.505	3.15
3253.070	96.12	101.34	2227.721	1194.800 S	678.063 E	1274.707	0.16
3282.020	95.38	101.48	2224.820	1200.498 S	706.297 E	1300.344	0.78
3310.990	94.02	101.74	2222.447	1206.309 S	734.579 E	1326.087	1.43
3339.940	92.66	101.22	2220.760	1212.061 S	762.900 E	1351.826	1.51
3368.840	92.41	99.37	2219.482	1217.220 S	791.306 E	1377.261	1.94
3397.770	91.42	97.62	2218.515	1221.491 S	819.901 E	1402.291	2.08
3426.720	92.60	99.37	2217.499	1225.765 S	848.514 E	1427.337	2.19
3455.570	92.29	98.64	2216.269	1230.276 S	876.983 E	1452.417	0.82
3484.490	92.29	97.77	2215.113	1234.400 S	905.583 E	1477.360	0.90
3513.420	91.61	97.05	2214.129	1238.129 S	934.255 E	1502.112	1.03
3542.380	90.19	96.08	2213.674	1241.440 S	963.020 E	1526.677	1.78
3571.300	88.52	94.45	2213.999	1244.093 S	991.815 E	1550.855	2.42
3600.240	86.18	94.28	2215.337	1246.293 S	1020.638 E	1574.773	2.43
3629.180	85.43	94.07	2217.454	1248.395 S	1049.423 E	1598.601	0.81
3658.150	82.83	94.52	2220.417	1250.552 S	1078.158 E	1622.423	2.73
3687.120	79.76	93.37	2224.801	1252.523 S	1106.722 E	1645.997	3.39
3715.070	80.65	95.43	2229.556	1254.637 S	1134.182 E	1668.794	2.38
3744.950	81.33	96.49	2234.236	1257.702 S	1163.533 E	1693.664	1.25
3773.830	83.32	95.40	2238.093	1260.665 S	1191.999 E	1717.778	2.35
3802.710	85.81	97.87	2240.828	1263.988 S	1220.552 E	1742.185	3.64
3831.660	85.74	99.00	2242.961	1268.223 S	1249.110 E	1767.164	1.17
3860.590	86.73	99.67	2244.861	1272.905 S	1277.595 E	1792.363	1.24
3889.570	84.94	99.10	2246.965	1277.618 S	1306.110 E	1817.606	1.94
3918.450	84.50	98.36	2249.623	1281.983 S	1334.534 E	1842.561	0.89
3947.390	85.99	98.56	2252.022	1286.226 S	1363.060 E	1867.519	1.56
3976.360	88.03	99.24	2253.533	1290.702 S	1391.640 E	1892.665	2.23
3987.000	88.80	99.50	2253.827	1292.434 S	1402.134 E	1901.953	2.29

CALCULATION BASED ON MINIMUM CURVATURE METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 128.53 DEGREES (GRID)
A TOTAL CORRECTION OF 12.29 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 3987.000 METRES
IS 1906.926 METRES ALONG 132.67 DEGREES (GRID)

Date Printed:27 September 2006

MWD RUN 100 - BHA

Component Length (m)

Heavy Weight 48.310

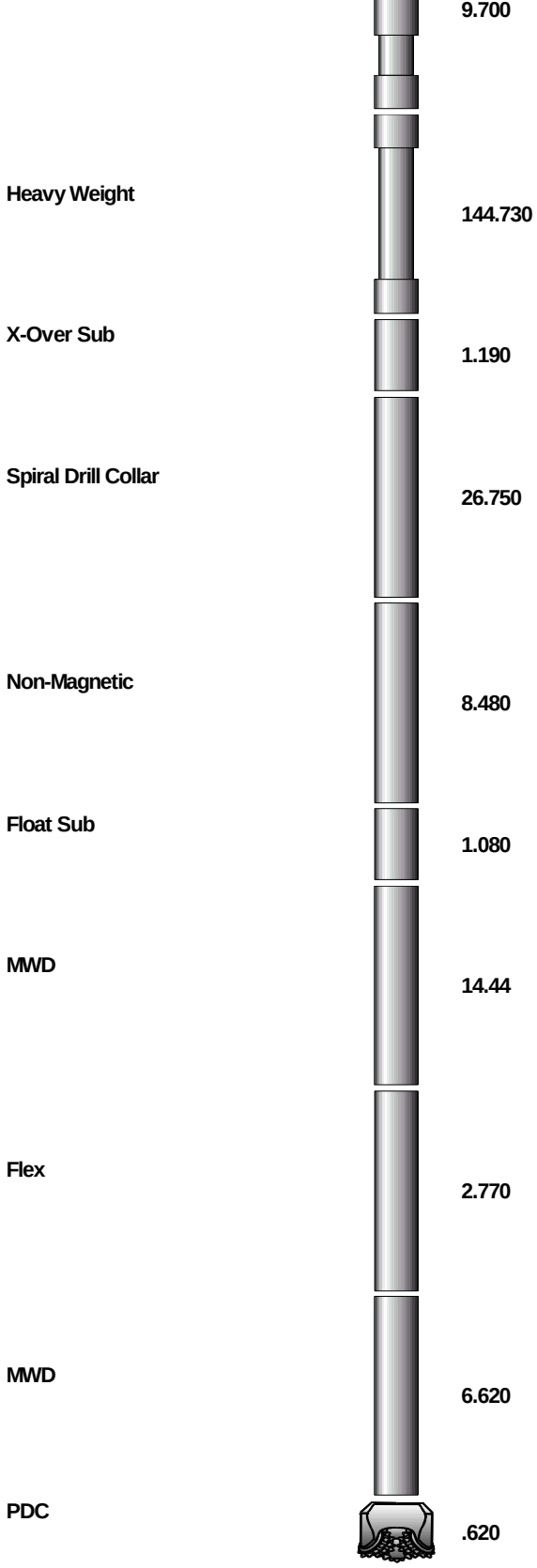
Jar

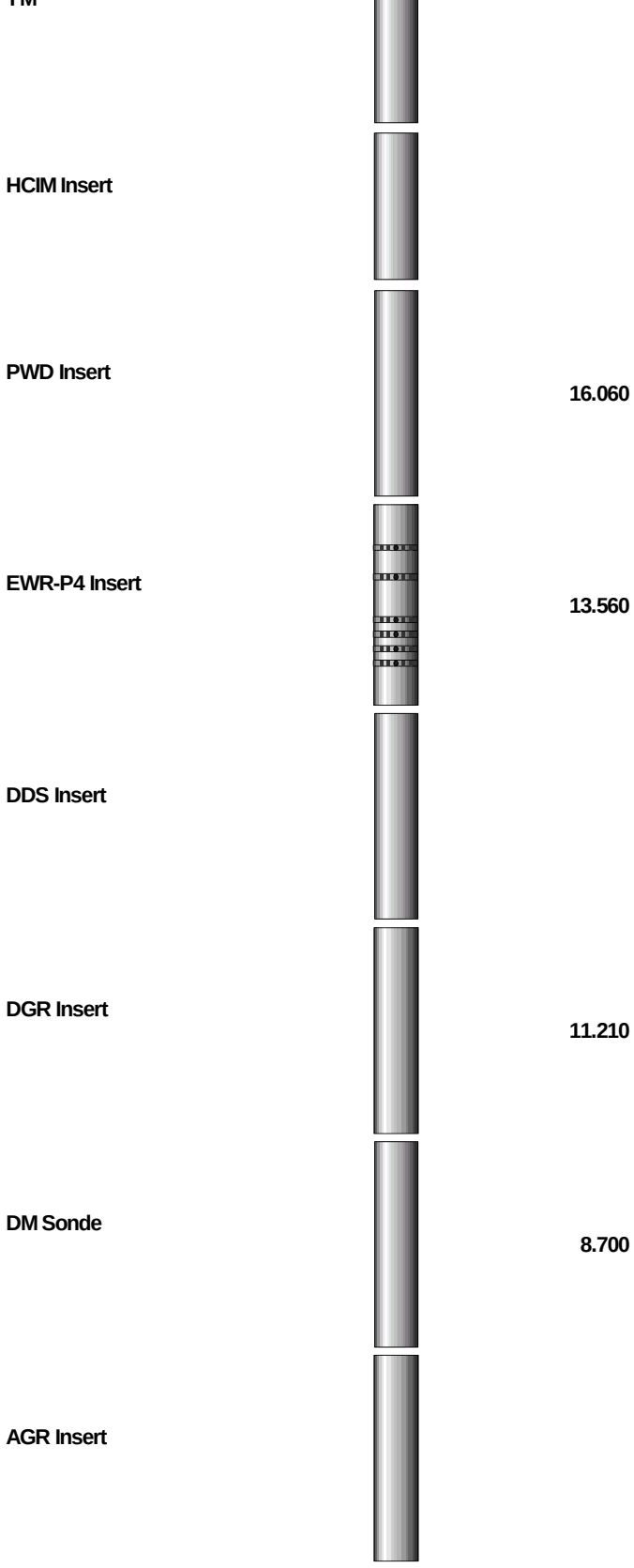
MWD RUN 100 - MWD

Sensor Measure Point Distance To Bit (m)

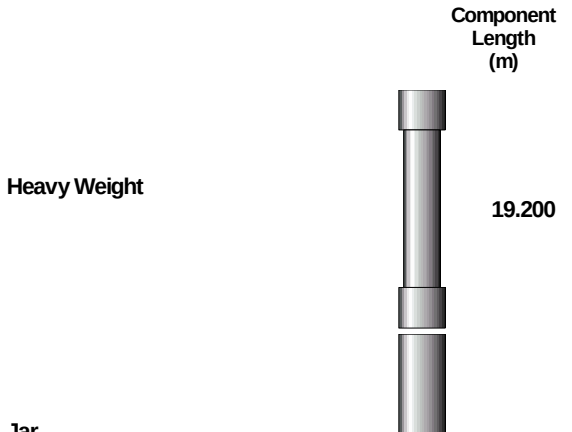
Positive Pulser

TM

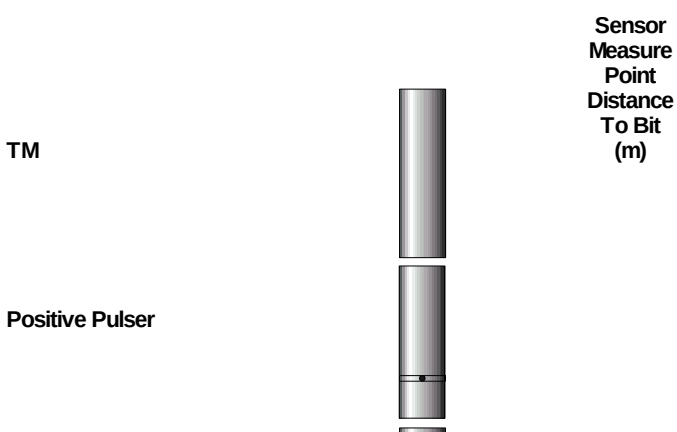


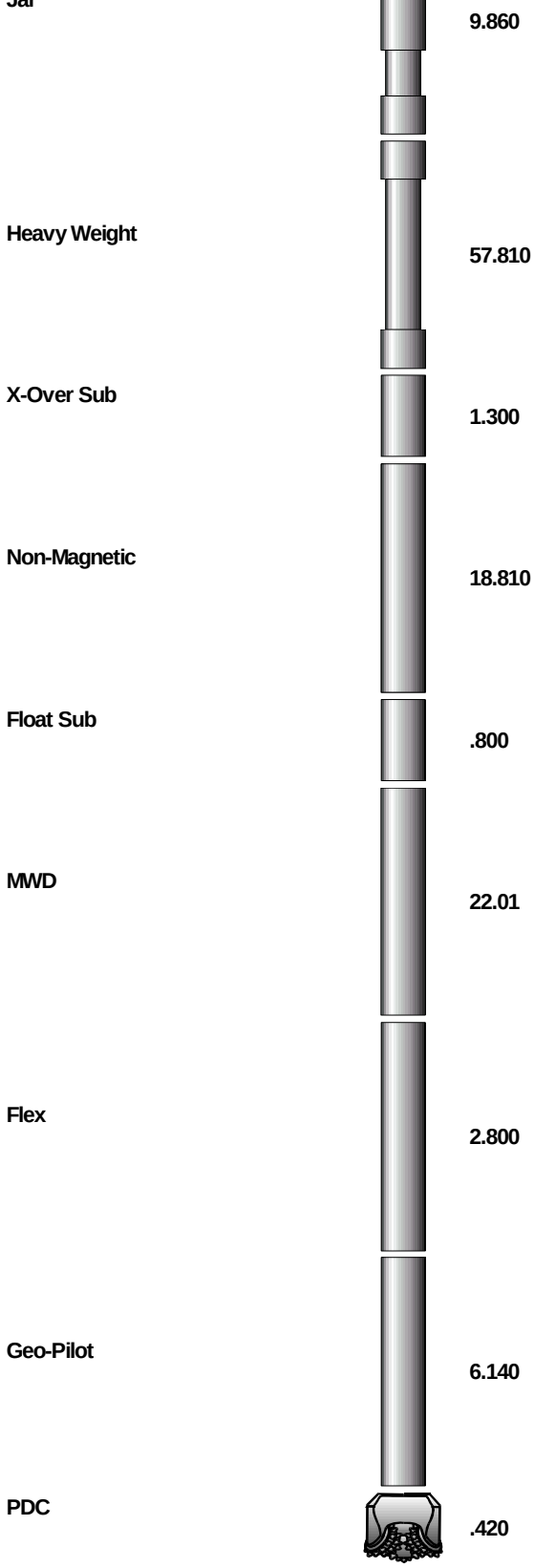


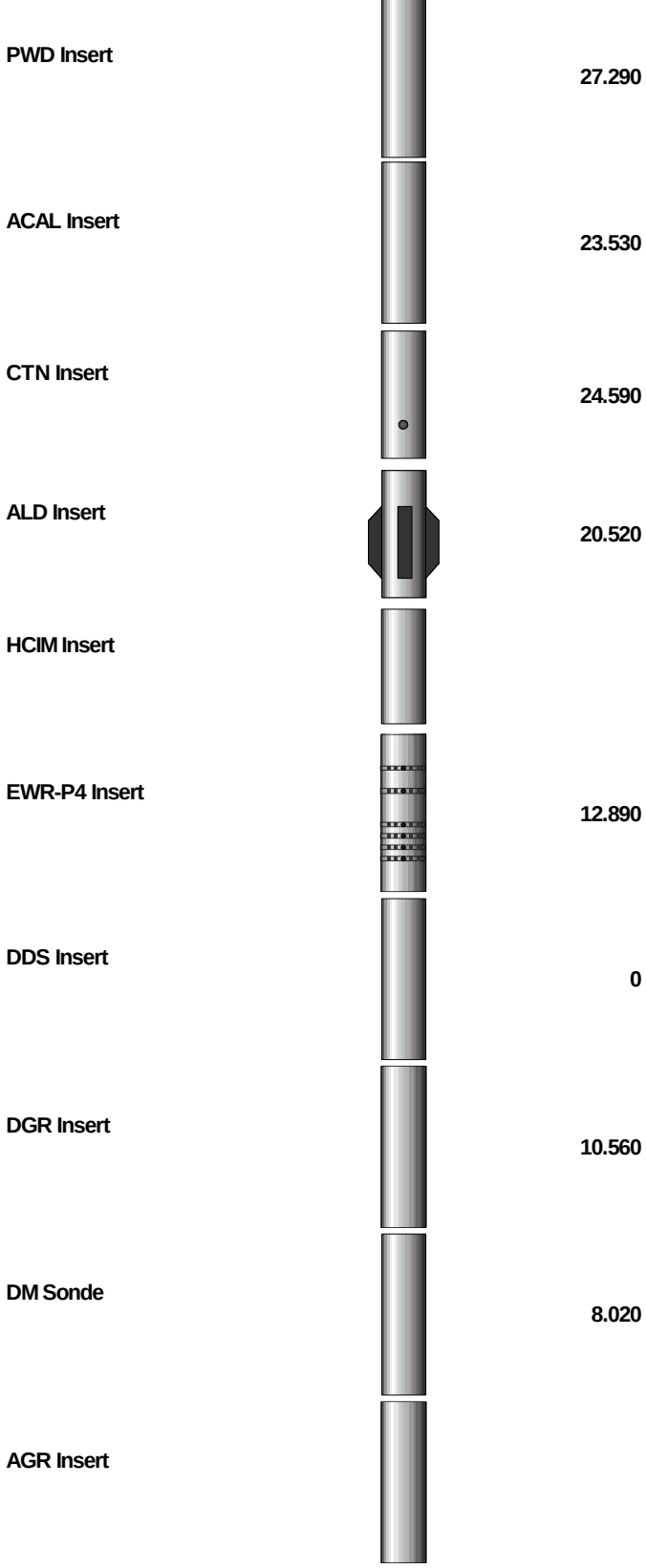
MWD RUN 200 - BHA



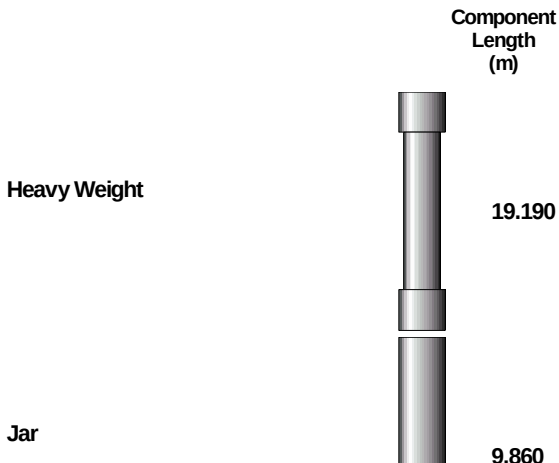
MWD RUN 200 - MWD



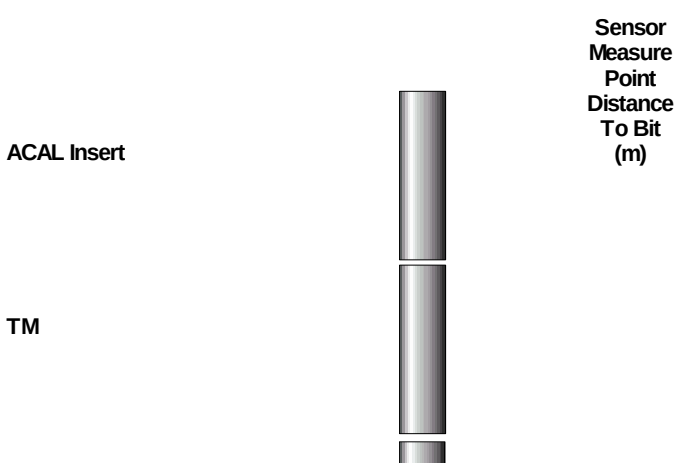


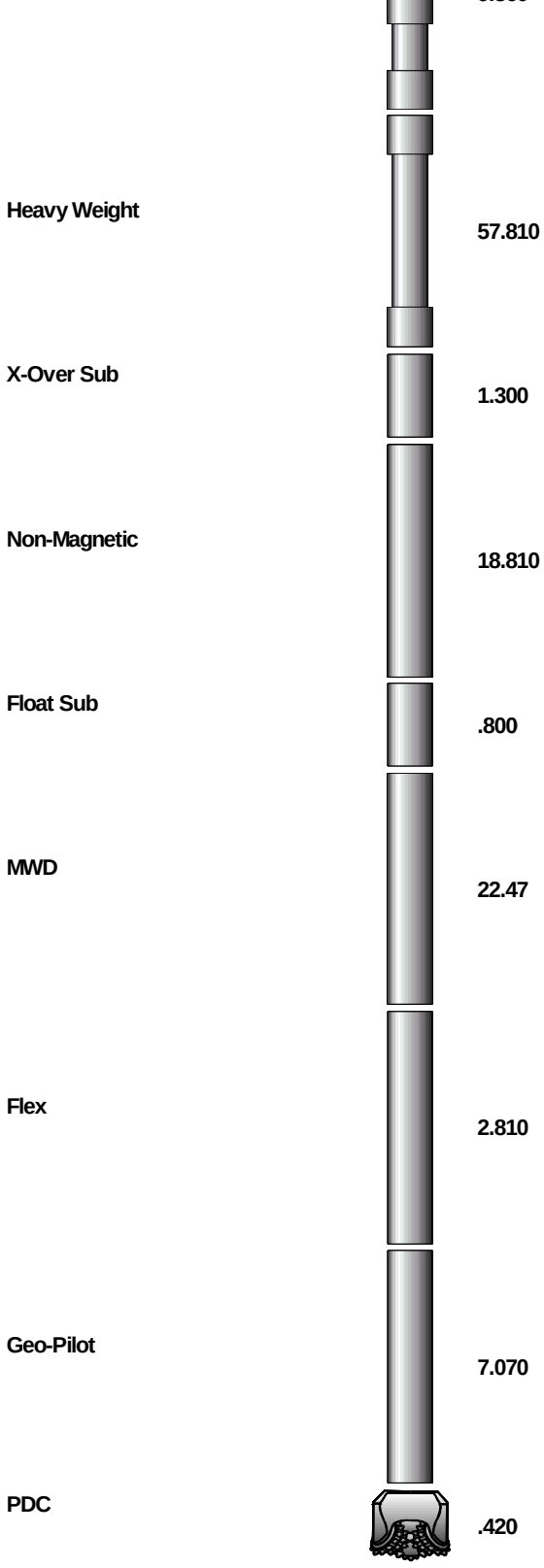


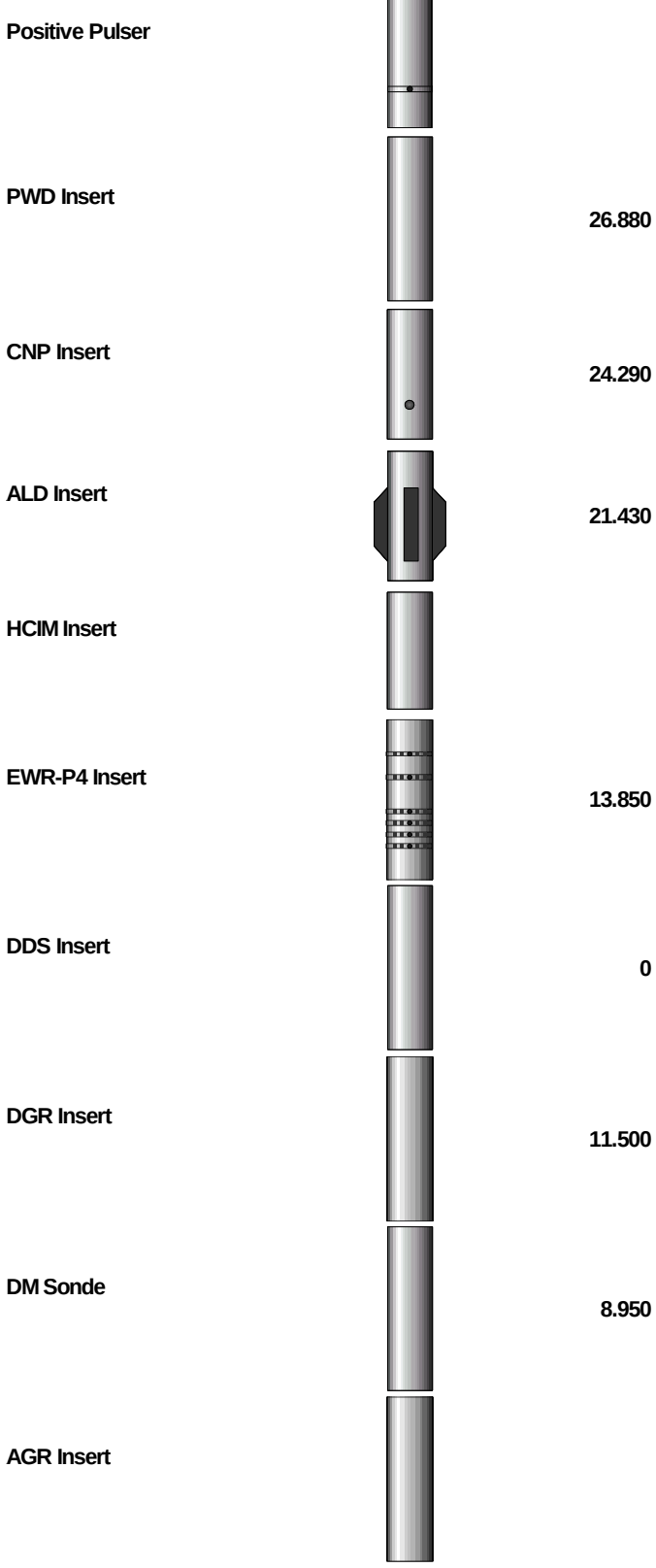
MWD RUN 300 - BHA



MWD RUN 300 - MWD




Heavy Weight
57.810
X-Over Sub
1.300
Non-Magnetic
18.810
Float Sub
.800
MWD
22.47
Flex
2.810
Geo-Pilot
7.070
PDC
.420


Positive Pulser
PWD Insert
26.880
CNP Insert
24.290
ALD Insert
21.430
HCIM Insert
EWR-P4 Insert
13.850
DDS Insert
0
DGR Insert
11.500
DM Sonde
8.950
AGR Insert

HALLIBURTON

Powered by INSITE™

ALD Azimuthal Lithodensity
CTN Compensated Thermal Neutron
CNØ Compensated Neutron Porosity
DGR Dual Gamma Ray
EWR-Phase 4
ACAL Acoustic Caliper

1 : 1000

Sperry Drilling Services

Country	: **Australia**
Field	: **Thylacine**
Location	: **39° 14' 14.56" South GDA94** **142° 54' 7.58" East GDA94**
Well	: **THA04**
Company	: **Woodside Energy Ltd**
Rig	: **Maersk Guardian**

Company : **Woodside Energy Ltd**
Rig : **Maersk Guardian**
Well : **THA04**
Field : **Thylacine**
Country : **Australia**
DOE Number :

LOCATION
Latitude : **39° 14' 14.56" South GDA94**
Longitude : **142° 54' 7.58" East GDA94**
UTM Easting = 664,161.0 m
UTM Northing = 5,655,156.8 m

Other Services
Directional Drilling

Permanent Datum : **LAT** Elevation : **0.00 m**
Log Measured From : **Drill Floor** **50.50 m** Above Permanent Datum
Drilling Measured From : **Drill Floor**

TVD LOG

Elev. KB
DF **50.50 m**
GL
WD **99.30 m**

Depth Logged : **649.36 m** To **2,253.83 m**
Date Logged : **10-Aug-06** To **28-Aug-06**
Total Depth MD : **3,987.00 m** TVD : **2,253.83 m**
Spud Date : **12-Aug-06**

Unit No. : **SSDS-40** Job No. : **AU-FE-0003930660**
Plot Type : **Final**
Plot Date : **27-Sep-06**

Run No.	Borehole Record (TVD) Size	From	To
100	311.000 mm	649.36 m	2,282.02 m
200	216.000 mm	2,282.02 m	2,233.86 m
300	216.000 mm	2,233.86 m	2,253.83 m

Run No.	Borehole Record (TVD) Size	From	To

Casing Record (TVD)

Size	Weight	From	To
244.000 mm	70.00 kgpm	149.85 m	2,279.97 m

WELL INFORMATION

MWD Run Number	100	200	300																										
Date run completed	18-Aug-06	24-Aug-06	28-Aug-06																										
Rig Bit Number	4	1	1RR																										
Bit Size (mm)	311	216	216																										
Tool Nominal OD (mm)	203	171	171																										
Log Start Depth (TVD, m)	649.36	2282.03	2233.86																										
Log End Depth (TVD, m)	2282.03	2233.86	2253.83																										
Drill or Wipe	Drilling	Drilling	Drilling																										
Drill/Wipe Start Date and Time	12-Aug-06 07:50	21-Aug-06 01:25	24-Aug-06 14:00																										
Drill/Wipe End Date and Time	17-Aug-06 20:48	23-Aug-06 05:50	27-Aug-06 11:30																										
Min Inc (deg) @ Depth (TVD, m)	6.30 @ 687.57	76.93 @ 2284.26	79.76 @ 2224.80																										
Max Inc (deg) @ Depth (TVD, m)	74.87 @ 2279.44	102.62 @ 2273.69	96.12 @ 2227.72																										
Bit TFA(in2) / Bit Type	1.49 / Sec FMF3565Z	1.11 / Sec FMF3653Z	1.11 / Sec FMF3653Z																										
Flow Rate (gpm)	1,150	740	735																										
Max AV (mpm) / CV (mpm) @ MWD	99.6 / 138.6	210.0 / 192.0	205.8 / 151.8																										
Fluid Type	SYN-TEQ	SYN-TEQ	SYN-TEQ																										
Density (sg) / Viscosity (spl)	1.25 / 80.3	1.25 / 94.1	1.25 / 78.2																										
Filtrate CL (ppm)	36,700	31,870	30,450																										
pH / Fluid Loss (mptm)	0 / 3.2	0 / 2.8	0 / 3																										
PV (cP) / YP (pa)	41 / 14.8	49 / 17.2	35 / 12.5																										
% Solids / % Sand	14.4 / 0.3	14.5 / .5	14.3 / 0.6																										
% Oil / Oil:Water Ratio	60.5 / 72:28	61.5 / 73:27	62.5 / 74:26																										
Rm @ Measured Temp (degC)	N/A @ N/A	N/A @ N/A	N/A @ N/A																										
Rmf @ Measured Temp (degC)	N/A @ N/A	N/A @ N/A	N/A @ N/A																										
Rmc @ Measured Temp (degC)	N/A @ N/A	N/A @ N/A	N/A @ N/A																										
Max Tool Temp (degC) / Source	104 / EWR-P4	101 / EWR-P4	115 / EWR-P4																										
Rm @ Max Tool Temp (degC)	N/A @ N/A	N/A @ N/A	N/A @ N/A																										
Lead MWD Engineer	T. Oborne	T. Oborne	T. Oborne																										
Customer Representative	S. Corless	S. Job	S. Job																										

SENSOR INFORMATION

Downhole Processor Information					
Tool Type	HCIM	HCIM	HCIM		
Software Version	68.18	72.13	72.13		
Sub Serial Number	189273	161828	10505777		
Insert Serial Number	133489	161821	161828		
Date and Time Initialized	11-Aug-06 15:52	21-Aug-06 00:35	24-Aug-06 00:46		
Date and Time Read	19-Aug-06 00:48	24-Aug-06 03:25	28-Aug-06 00:15		

Directional Sensor Information					
Tool Type	DM	DM	DM		
Distance From Bit (m)	8.70	8.02	8.95		
Software Version	3.15	3.15	4.00		
Sub Serial Number	CP719940	CP1015920	CP973260		
Sonde Serial Number	185534	185534	136742		
Sensor ID Number	185534	185534	136742		
Toolface Offset (deg)	N/A	N/A	N/A		

Gamma Ray Sensor Information					
Tool Type	DGR	DGR	DGR		
Distance From Bit (m)	11.21	10.56	11.50		
Recorded Sample Period (sec)	12	14	14		
Software Version	N/A	N/A	N/A		
Sub Serial Number	10718409	77761	218747		
Insert/Sonde Serial Number	087229	10505500	050437		

Resistivity Sensor Information					
Tool Type	EWR-P4	EWR-P4	EWR-P4		
Distance From Bit (m)	13.56	12.89	13.85		
Recorded Sample Period (sec)	12	14	14		
Software Version	1.38	1.38	1.38		
Sub Serial Number	96506	191904	197652		
Receiver Insert Serial Number	45162	77531	74703		
Transmitter Insert Serial Number	123860	106181	62499		
Receiver Orientation	Down	Down	Down		

Neutron Sensor Information					
Tool Type		CTN	CNP		
Distance From Bit (m)		24.59	24.29		
Recorded Sample Period (sec)		20	12		
Sub Serial Number		174118	177933		
Insert Serial Number		175366	68615		
Source Serial Number		0102NN	1399NN		
Source Factor		N/A	1.1840		
Pin Orientation		Up	Up		

Density Sensor Information					
Tool Type		ALD	ALD		
Distance From Bit (m)		20.52	21.43		
Recorded Sample Period (sec)		20	20		
Software Version		2.13	2.13		
Sub Serial Number		10718174	10503661		
Insert Serial Number		215918	10507163		
Sensor ID Number		32081	32022		
Source Serial Number		2434GW	2671GW		
Pin Orientation		Up	Up		
Stabilizer Blade O.D. (mm)		209.550	209.550		
DPA Offset		332.30	2.00		

Caliper Sensor Information					
Tool Type		ACAL	ACAL		
Distance From Bit (m)		23.53	31.34		
Software Version		4.20	4.20		

Software Version		4.20	4.20		
Sub Serial Number		174118	123087		
Insert Serial Number		175366	141728		

REMARKS

1.) All depths are bit depths and are referenced to the driller's pipe tally unless otherwise noted.

2.) AV/CV values are calculated at the LWD collar using the Bingham Law for oil based mud, measured in m/min.

3.) Curve Mnemonics used are:

SGRC - Smoothed Combined Gamma Ray, api
SROP - Smoothed Rate of Penetration, m/hr
SEXP - Smoothed Extra-Shallow Phase Resistivity, ohm-metre
SESP - Smoothed Shallow Phase Resistivity, ohm-metre
SEMP - Smoothed Medium Phase Resistivity, ohm-metre
SEDP - Smoothed Deep Phase Resistivity, ohm-metre
ACAL - Smoothed Acoustic Caliper Hole Size, inches
SCO2 - Smoothed Low count rate Stand Off Correction, g/cc
SBD2 - Smoothed Low count rate Bulk Density, g/cc
SNP2 - Smoothed Near Detector Pe, b/e
TNPL - Smoothed Compensated Thermal Neutron Porosity (LS), v/v

4.) CTN/CNP data has been processed using the following parameters and is based on Limestone matrix:

MW = 1.25 sg
Formation Salinity = 15,000 ppm Cl
Mud Salinity = 25,632 - 31,874ppm Cl
Matrix Density = 2.71 g/cc
Fluid Density = 1.00 g/cc

5.) TNPL data is from the CTN tool to 2236.4 mTVDRT and from the CNP tool to TD. Data has been reprocessed using hole size derived from the Acoustic Caliper tool.

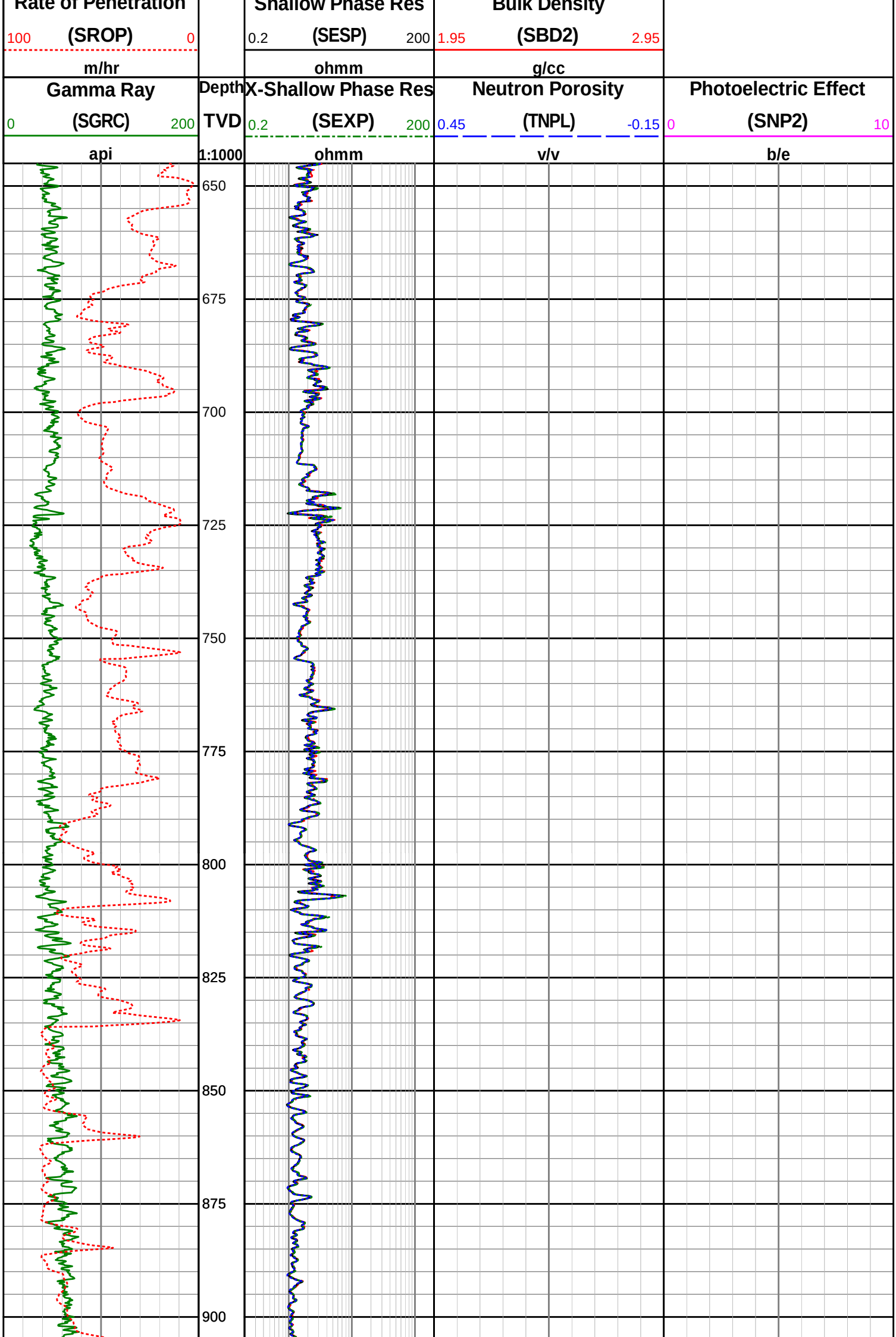
6.) Real-Time Caliper data is presented to 2236.4 mTVDRT.

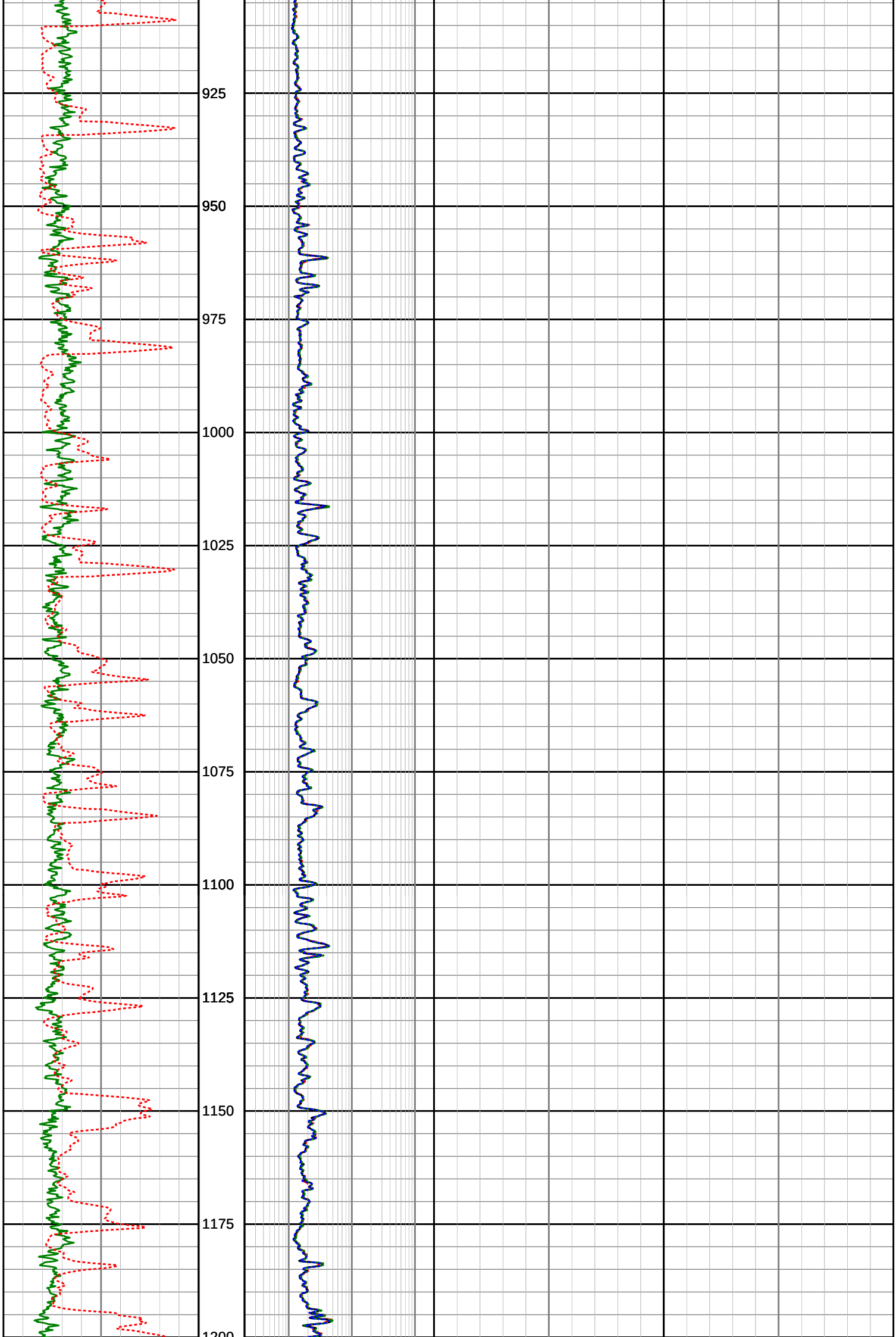
7.) Density data from 2265.6 - 3172.8 mTVDRT is wipe data recorded while POOH.

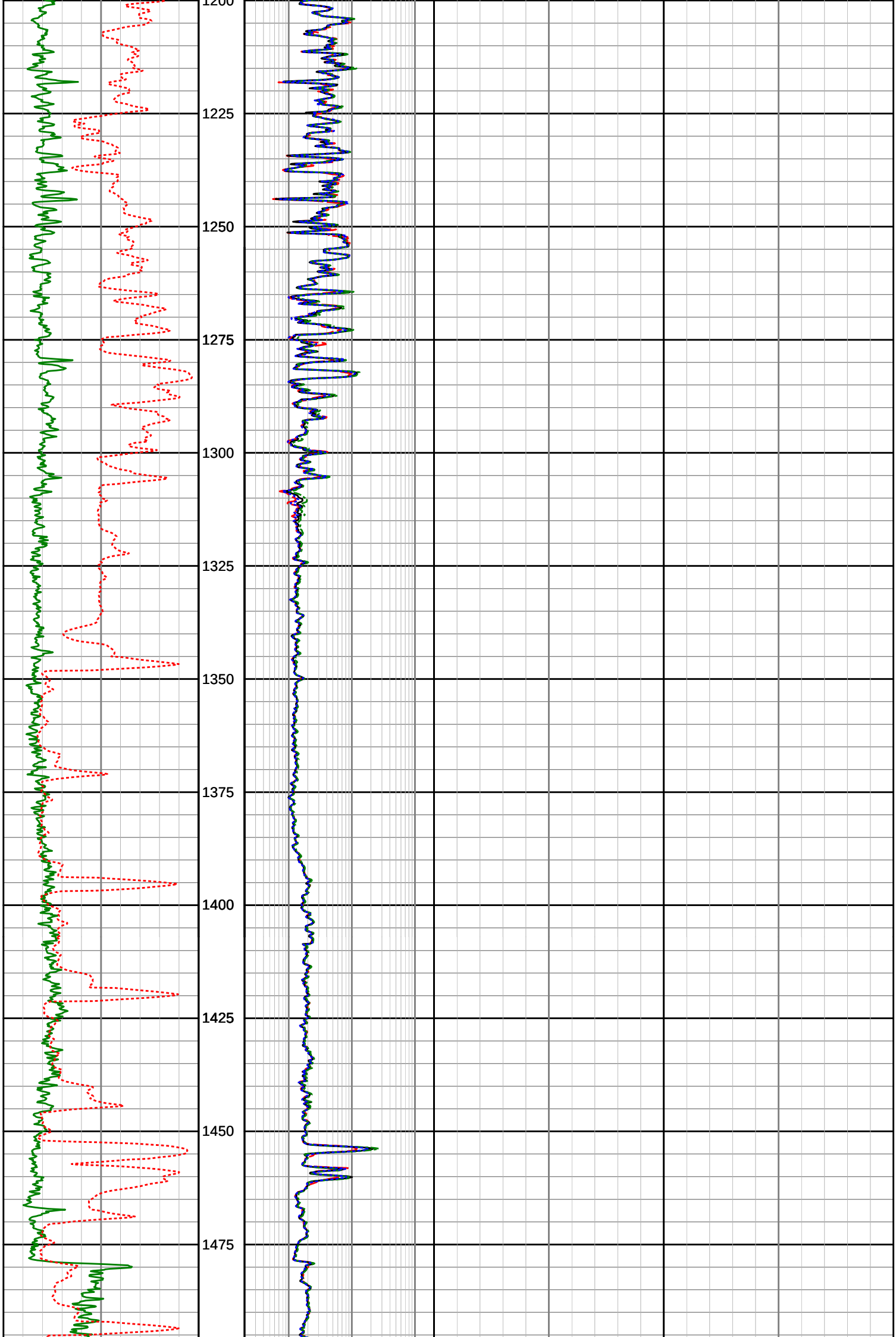
WARRANTY

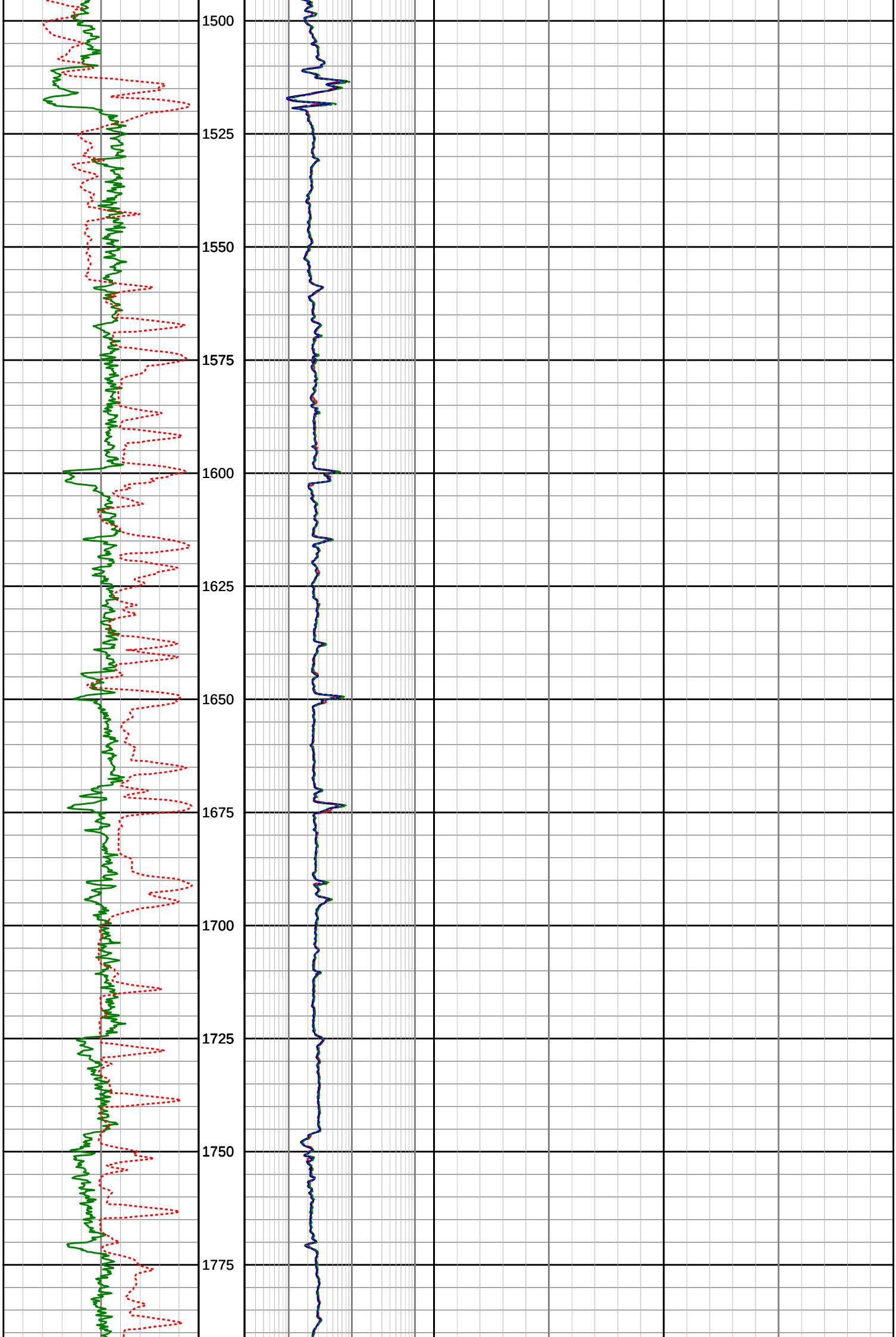
HALLIBURTON ENERGY SERVICES (HES) WILL USE ITS BEST EFFORTS TO FURNISH CUSTOMERS WITH ACCURATE INFORMATION AND INTERPRETATIONS THAT ARE PART OF, AND INCIDENT TO, THE SERVICES PROVIDED. HOWEVER, HES CANNOT AND DOES NOT WARRANT THE ACCURACY OR CORRECTNESS OF SUCH INFORMATION AND INTERPRETATIONS. UNDER NO CIRCUMSTANCES SHOULD ANY SUCH INFORMATION OR INTERPRETATION BE RELIED UPON AS THE SOLE BASIS FOR ANY DRILLING, COMPLETION, PRODUCTION, OR FINANCIAL DECISION OR ANY PROCEDURE INVOLVING ANY RISK TO THE SAFETY OF ANY DRILLING VENTURE, DRILLING RIG OR ITS CREW OR ANY OTHER THIRD PARTY. THE CUSTOMER HAS FULL RESPONSIBILITY FOR ALL DRILLING, COMPLETION AND PRODUCTION OPERATION. HES MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WITH RESPECT TO THE SERVICES RENDERED. IN NO EVENT WILL HES BE LIABLE FOR FAILURE TO OBTAIN ANY PARTICULAR RESULTS OR FOR ANY DAMAGES, INCLUDING, BUT NOT LIMITED TO, INDIRECT, SPECIAL OR CONSEQUENTIAL DAMAGES, RESULTING FROM THE USE OF ANY INFORMATION OR INTERPRETATION PROVIDED BY HES.

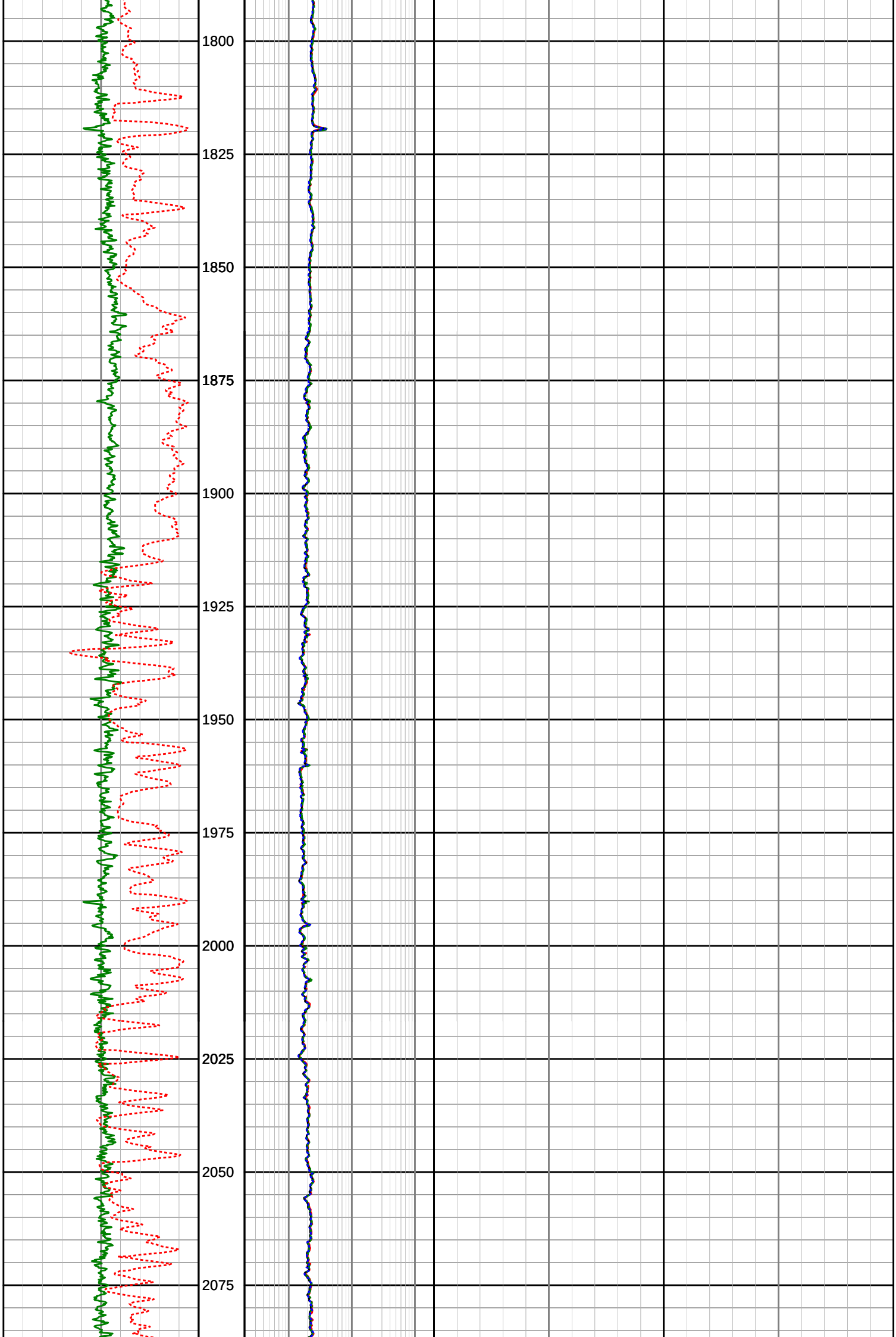
	Deep Phase Res (SEDP) 0.2 – 200 ohmm	
Acoustic Caliper (ACAL) 6 – 16 inches	Medium Phase Res (SEMP) 0.2 – 200 ohmm	Standoff Correction (SCO2) -0.75 – 0.25 g/cc
Rate of Penetration	Shallow Phase Res	Bulk Density

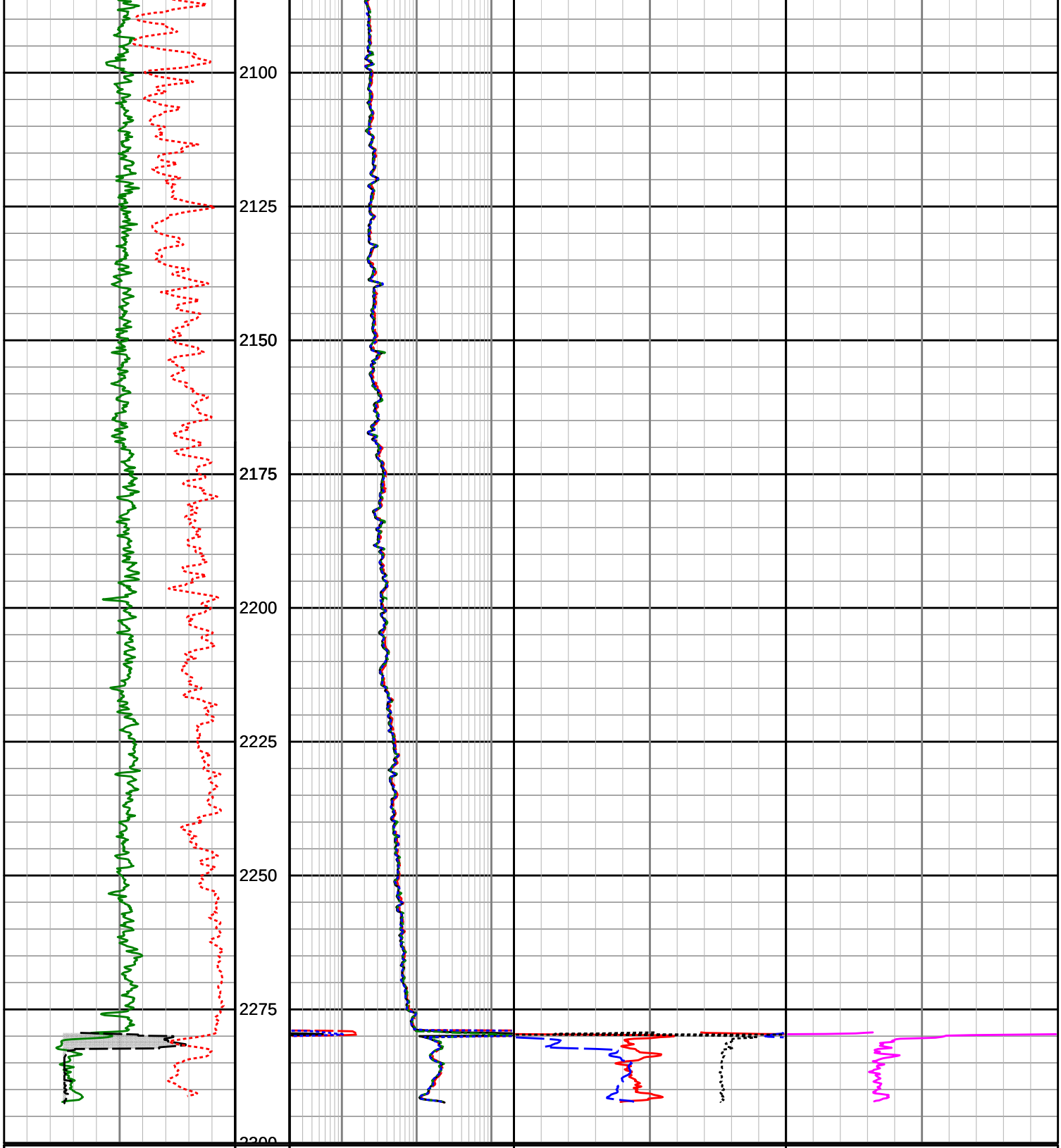

Rate of Penetration
100 (SROP) 0
m/hr
Shallow Phase Res
0.2 (SESP) 200
ohmm
Bulk Density
1.95 (SBD2) 2.95
g/cc
Gamma Ray
0 (SGRC) 200
api
Depth
TVD
1:1000
X-Shallow Phase Res
0.2 (SEXP) 200
ohmm
Neutron Porosity
0.45 (TNPL) -0.15
v/v
Photoelectric Effect
0 (SNP2) 10
b/e
650
675
700
725
750
775
800
825
850
875
900


925
950
975
1000
1025
1050
1075
1100
1125
1150
1175
1200


1200
1225
1250
1275
1300
1325
1350
1375
1400
1425
1450
1475


1500
1525
1550
1575
1600
1625
1650
1675
1700
1725
1750
1775


1800
1825
1850
1875
1900
1925
1950
1975
2000
2025
2050
2075



Gamma Ray (SGRC)	Depth TVD 1:1000	X-Shallow Phase Res (SEXP)	Neutron Porosity (TNPL)	Photoelectric Effect (SNP2)
0 – 200 api		0.2 – 200 ohmm	0.45 – -0.15 v/v	0 – 10 b/e
Rate of Penetration (SROP)		Shallow Phase Res (SESP)	Bulk Density (SBD2)	
100 – 0 m/hr		0.2 – 200 ohmm	1.95 – 2.95 g/cc	
Acoustic Caliper (ACAL)		Medium Phase Res (SEMP)	Standoff Correction (SCO2)	
6 – 16 inches		0.2 – 200 ohmm	-0.75 – 0.25 g/cc	
		Deep Phase Res (SEDP)		
		0.2 – 200 ohmm		

Sperry Drilling Services

DIRECTIONAL SURVEY REPORT

Woodside Energy Ltd
THA04
Thylacine
Victoria
Australia
AU-FE-000393066
RT-LAT=50.5m.
Final survey projected to TD.
All Surveys are SAG corrected.
Surveys to 1498.12mMD are SUCOP corrected.
Surveys from 1527.01mMD are Cazandra corrected.

Measured Depth (metres)	Inclination (degrees)	Direction (degrees)	Vertical Depth (metres)	Latitude (metres)	Departure (metres)	Vertical Section (metres)	Dogleg (deg/30m)
650.000	5.18	173.38	649.360	21.420 S	2.120 E	15.001	TIE-IN
688.390	6.30	210.93	687.570	24.950 S	1.237 E	16.509	3.00
717.360	10.31	208.79	716.230	28.587 S	0.830 W	17.158	4.16
746.300	14.72	197.80	744.480	34.361 S	3.202 W	18.899	5.18
775.250	18.30	195.23	772.232	42.251 S	5.521 W	22.000	3.79
804.220	20.86	194.83	799.525	51.627 S	8.037 W	25.873	2.65
833.180	24.98	191.59	826.193	62.607 S	10.586 W	30.718	4.46
862.140	28.78	189.26	852.020	75.482 S	12.938 W	36.899	4.08
891.060	32.15	190.32	876.944	89.928 S	15.437 W	43.942	3.54
920.010	34.55	190.51	901.125	105.580 S	18.315 W	51.441	2.49
948.960	33.85	189.07	925.070	121.614 S	21.083 W	59.263	1.11
977.870	33.51	188.44	949.127	137.459 S	23.524 W	67.224	0.51
1006.770	32.88	188.81	973.311	153.102 S	25.896 W	75.113	0.69
1035.710	31.56	189.35	997.794	168.339 S	28.330 W	82.700	1.40
1064.580	31.61	196.12	1022.395	183.066 S	31.659 W	89.270	3.68
1093.400	33.36	198.23	1046.705	197.850 S	36.236 W	94.899	2.17
1122.380	34.19	197.83	1070.794	213.170 S	41.222 W	100.542	0.89
1151.260	33.03	195.24	1094.847	228.490 S	45.776 W	106.523	1.92
1180.180	32.68	194.25	1119.141	243.662 S	49.769 W	112.850	0.66
1209.130	32.85	194.31	1143.485	258.846 S	53.634 W	119.285	0.18
1238.050	32.69	194.61	1167.803	274.003 S	57.543 W	125.669	0.24
1266.970	32.70	195.15	1192.140	289.101 S	61.554 W	131.936	0.30
1295.890	32.87	195.56	1216.454	304.202 S	65.701 W	138.098	0.29
1324.790	33.17	196.36	1240.686	319.343 S	70.032 W	144.142	0.55
1353.720	32.35	196.87	1265.014	334.344 S	74.507 W	149.985	0.90
1382.600	31.60	196.07	1289.513	349.009 S	78.844 W	155.728	0.89
1411.510	31.20	196.12	1314.189	363.481 S	83.020 W	161.476	0.42
1440.360	31.66	195.63	1338.806	377.951 S	87.135 W	167.271	0.55
1469.240	33.20	195.26	1363.181	392.879 S	91.258 W	173.345	1.61
1498.120	33.15	196.11	1387.354	408.093 S	95.530 W	179.480	0.49
1527.010	32.27	197.10	1411.662	423.054 S	99.990 W	185.311	1.07
1555.950	32.13	197.42	1436.151	437.781 S	104.565 W	190.905	0.23
1584.900	32.14	197.54	1460.666	452.469 S	109.191 W	196.436	0.07
1613.830	31.59	196.05	1485.236	467.088 S	113.605 W	202.090	1.00
1642.730	31.64	196.36	1509.847	481.636 S	117.833 W	207.845	0.18
1671.670	31.29	196.58	1534.532	496.122 S	122.116 W	213.518	0.38
1700.540	31.70	196.96	1559.149	510.563 S	126.468 W	219.109	0.47
1729.450	31.83	196.87	1583.728	525.124 S	130.896 W	224.716	0.14
1758.400	32.33	194.83	1608.259	539.913 S	135.093 W	230.645	1.24
1787.330	31.96	195.03	1632.754	554.786 S	139.058 W	236.808	0.40
1816.310	32.21	195.30	1657.307	569.644 S	143.085 W	242.912	0.30
1845.270	32.04	193.45	1681.834	584.560 S	146.909 W	249.213	1.03
1874.190	32.87	193.78	1706.237	599.643 S	150.563 W	255.750	0.88
1903.180	31.63	193.99	1730.754	614.660 S	154.274 W	262.201	1.29
1932.120	31.27	194.24	1755.442	629.304 S	157.956 W	268.443	0.40
1961.070	31.95	194.74	1780.097	643.995 S	161.754 W	274.623	0.76
1989.910	32.22	189.82	1804.537	658.953 S	165.007 W	281.396	2.73
2018.810	32.07	182.90	1829.015	674.212 S	166.710 W	289.569	3.82
2047.730	32.63	178.55	1853.449	689.676 S	166.901 W	299.053	2.48
2076.660	33.52	174.02	1877.695	705.421 S	165.871 W	309.666	2.72
2105.610	34.25	170.36	1901.730	721.404 S	163.674 W	321.342	2.25
2134.560	35.30	162.86	1925.521	737.437 S	159.843 W	334.326	4.56
2163.440	36.78	153.99	1948.889	753.192 S	153.588 W	349.034	5.63
2192.410	37.04	147.72	1972.061	768.369 S	145.122 W	365.110	3.91
2221.340	37.25	147.33	1995.121	783.106 S	135.742 W	381.628	0.33
2250.240	39.85	148.53	2017.721	798.369 S	126.185 W	398.612	2.81

2279.240	42.08	144.94	2039.621	814.252 S	115.750 W	416.669	3.35
2308.150	43.98	140.53	2060.758	829.935 S	103.800 W	435.786	3.69
2337.080	46.34	136.35	2081.161	845.267 S	90.187 W	455.986	3.93
2366.050	48.66	134.83	2100.732	860.519 S	75.238 W	477.181	2.67
2395.160	50.48	132.94	2119.610	875.874 S	59.267 W	499.241	2.39
2424.050	53.68	129.08	2137.367	890.810 S	42.066 W	522.000	4.59
2452.990	55.25	123.38	2154.195	904.709 S	23.076 W	545.514	5.08
2481.900	55.15	121.40	2170.696	917.425 S	3.032 W	569.115	1.69
2509.330	56.34	122.19	2186.135	929.371 S	16.237 E	591.630	1.48
2538.240	57.74	122.37	2201.864	942.326 S	36.744 E	615.742	1.46
2567.190	61.95	120.21	2216.404	955.314 S	58.134 E	640.566	4.77
2596.080	65.06	117.03	2229.294	967.687 S	80.828 E	666.027	4.38
2625.010	65.29	116.41	2241.440	979.492 S	104.281 E	691.727	0.63
2653.940	69.24	116.73	2252.618	991.426 S	128.140 E	717.825	4.11
2682.840	71.58	113.35	2262.310	1002.941 S	152.804 E	744.293	4.10
2712.930	72.42	112.26	2271.609	1014.033 S	179.184 E	771.839	1.33
2740.730	74.87	112.04	2279.436	1024.089 S	203.889 E	797.429	2.65
2760.530	76.93	111.88	2284.259	1031.270 S	221.698 E	815.834	3.13
2789.540	81.86	112.24	2289.597	1041.976 S	248.117 E	843.170	5.11
2818.500	87.26	113.06	2292.341	1053.075 S	274.712 E	870.889	5.66
2847.450	91.70	113.17	2292.604	1064.437 S	301.330 E	898.790	4.60
2876.380	97.39	113.51	2290.312	1075.858 S	327.799 E	926.610	5.91
2905.330	101.06	113.86	2285.672	1087.335 S	353.963 E	954.227	3.82
2934.260	102.06	114.41	2279.875	1098.923 S	379.828 E	981.679	1.18
2963.190	102.62	114.71	2273.692	1110.670 S	405.533 E	1009.105	0.66
2992.130	102.45	112.78	2267.410	1122.045 S	431.390 E	1036.418	1.96
3021.100	100.84	108.83	2261.561	1132.118 S	457.908 E	1063.437	4.34
3050.040	100.25	110.72	2256.264	1141.743 S	484.680 E	1090.377	2.02
3078.940	100.82	109.65	2250.980	1151.547 S	511.347 E	1117.345	1.24
3107.890	100.67	108.82	2245.582	1160.917 S	538.201 E	1144.190	0.86
3136.860	98.37	105.95	2240.790	1169.450 S	565.463 E	1170.831	3.78
3165.840	96.81	104.34	2236.962	1176.954 S	593.190 E	1197.196	2.31
3195.210	95.81	101.40	2233.734	1183.455 S	621.645 E	1223.505	3.15
3253.070	96.12	101.34	2227.721	1194.800 S	678.063 E	1274.707	0.16
3282.020	95.38	101.48	2224.820	1200.498 S	706.297 E	1300.344	0.78
3310.990	94.02	101.74	2222.447	1206.309 S	734.579 E	1326.087	1.43
3339.940	92.66	101.22	2220.760	1212.061 S	762.900 E	1351.826	1.51
3368.840	92.41	99.37	2219.482	1217.220 S	791.306 E	1377.261	1.94
3397.770	91.42	97.62	2218.515	1221.491 S	819.901 E	1402.291	2.08
3426.720	92.60	99.37	2217.499	1225.765 S	848.514 E	1427.337	2.19
3455.570	92.29	98.64	2216.269	1230.276 S	876.983 E	1452.417	0.82
3484.490	92.29	97.77	2215.113	1234.400 S	905.583 E	1477.360	0.90
3513.420	91.61	97.05	2214.129	1238.129 S	934.255 E	1502.112	1.03
3542.380	90.19	96.08	2213.674	1241.440 S	963.020 E	1526.677	1.78
3571.300	88.52	94.45	2213.999	1244.093 S	991.815 E	1550.855	2.42
3600.240	86.18	94.28	2215.337	1246.293 S	1020.638 E	1574.773	2.43
3629.180	85.43	94.07	2217.454	1248.395 S	1049.423 E	1598.601	0.81
3658.150	82.83	94.52	2220.417	1250.552 S	1078.158 E	1622.423	2.73
3687.120	79.76	93.37	2224.801	1252.523 S	1106.722 E	1645.997	3.39
3715.070	80.65	95.43	2229.556	1254.637 S	1134.182 E	1668.794	2.38
3744.950	81.33	96.49	2234.236	1257.702 S	1163.533 E	1693.664	1.25
3773.830	83.32	95.40	2238.093	1260.665 S	1191.999 E	1717.778	2.35
3802.710	85.81	97.87	2240.828	1263.988 S	1220.552 E	1742.185	3.64
3831.660	85.74	99.00	2242.961	1268.223 S	1249.110 E	1767.164	1.17
3860.590	86.73	99.67	2244.861	1272.905 S	1277.595 E	1792.363	1.24
3889.570	84.94	99.10	2246.965	1277.618 S	1306.110 E	1817.606	1.94
3918.450	84.50	98.36	2249.623	1281.983 S	1334.534 E	1842.561	0.89
3947.390	85.99	98.56	2252.022	1286.226 S	1363.060 E	1867.519	1.56
3976.360	88.03	99.24	2253.533	1290.702 S	1391.640 E	1892.665	2.23
3987.000	88.80	99.50	2253.827	1292.434 S	1402.134 E	1901.953	2.29

CALCULATION BASED ON MINIMUM CURVATURE METHOD

SURVEY COORDINATES RELATIVE TO WELL SYSTEM REFERENCE POINT
TVD VALUES GIVEN RELATIVE TO DRILLING MEASUREMENT POINT

VERTICAL SECTION RELATIVE TO WELL HEAD
VERTICAL SECTION IS COMPUTED ALONG A DIRECTION OF 128.53 DEGREES (GRID)
A TOTAL CORRECTION OF 12.29 DEG FROM MAGNETIC NORTH TO GRID NORTH HAS BEEN APPLIED

HORIZONTAL DISPLACEMENT IS RELATIVE TO THE WELL HEAD.
HORIZONTAL DISPLACEMENT(CLOSURE) AT 3987.000 METRES
IS 1906.926 METRES ALONG 132.67 DEGREES (GRID)

Date Printed:27 September 2006

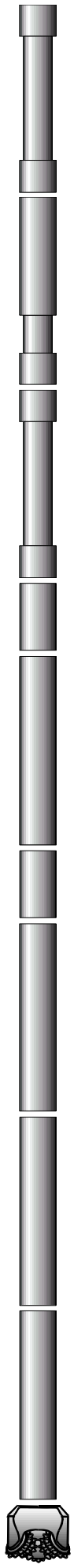
MWD RUN 100 - BHA

	Component Length (m)
Heavy Weight	48.310
Jar	9.700
Heavy Weight	144.730
X-Over Sub	1.190
Spiral Drill Collar	26.750
Non-Magnetic	8.480
Float Sub	1.080
MWD	14.44
Flex	2.770
MWD	6.620
PDC	.620

MWD RUN 100 - MWD

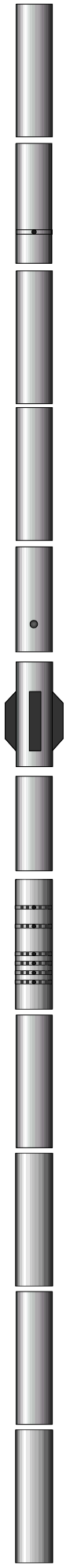
	Sensor Measure Point Distance To Bit (m)
Positive Pulser	
TM	
HCIM Insert	
PWD Insert	16.060
EWR-P4 Insert	13.560
DDS Insert	
DGR Insert	11.210
DM Sonde	8.700
AGR Insert	

MWD RUN 200 - BHA



	Component Length (m)
Heavy Weight	19.200
Jar	9.860
Heavy Weight	57.810
X-Over Sub	1.300
Non-Magnetic	18.810
Float Sub	.800
MWD	22.01
Flex	2.800
Geo-Pilot	6.140
PDC	.420

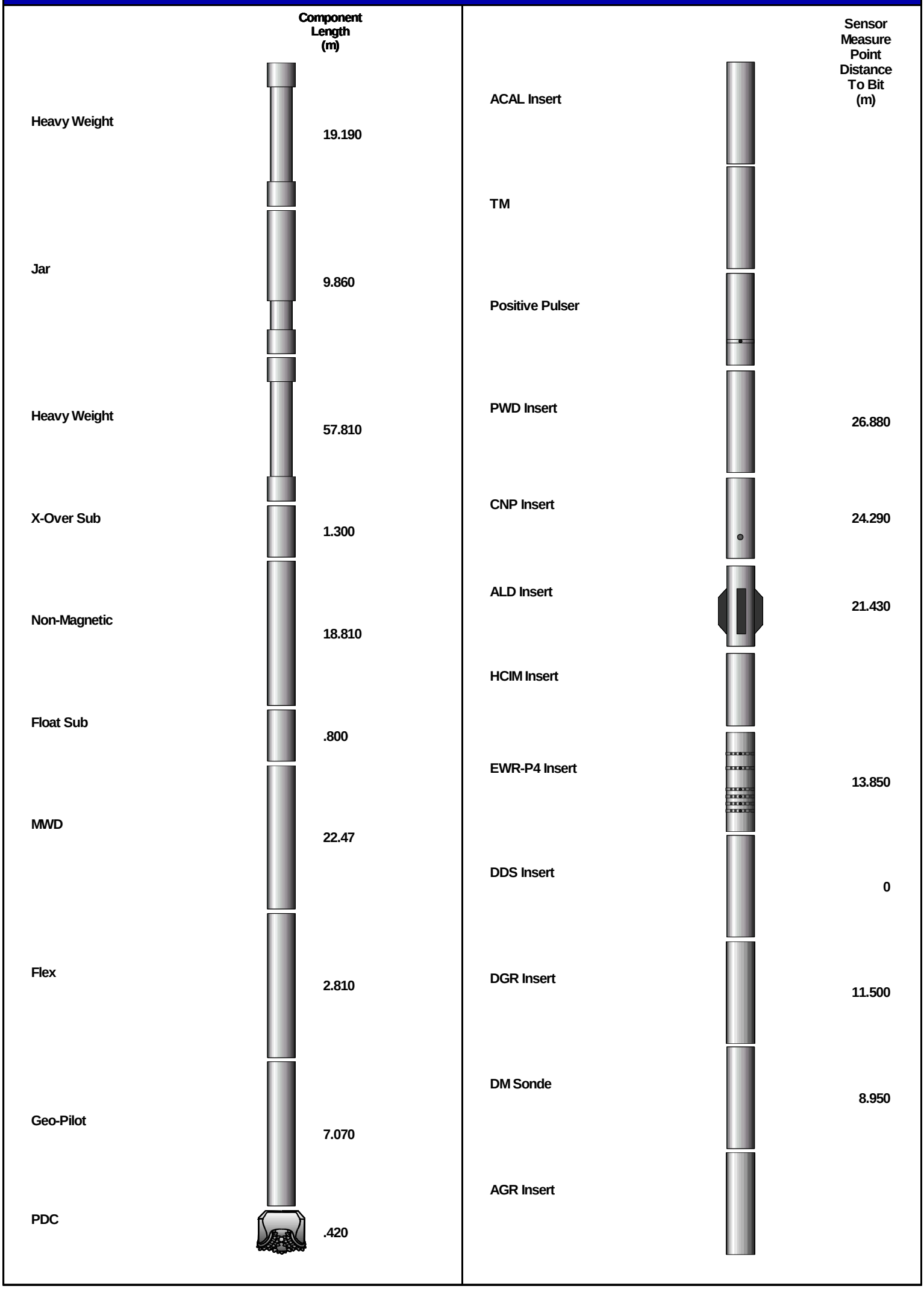
MWD RUN 200 - MWD



	Sensor Measure Point Distance To Bit (m)
TM	
Positive Pulser	
PWD Insert	27.290
ACAL Insert	23.530
CTN Insert	24.590
ALD Insert	20.520
HCIM Insert	
EWR-P4 Insert	12.890
DDS Insert	0
DGR Insert	10.560
DM Sonde	8.020
AGR Insert	

MWD RUN 300 - BHA

MWD RUN 300 - MWD


Component Length (m)
Heavy Weight
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Jar
9.860
Heavy Weight
57.810
X-Over Sub
1.300
Non-Magnetic
18.810
Float Sub
.800
MWD
22.47
Flex
2.810
Geo-Pilot
7.070
PDC
.420
Sensor Measure Point Distance To Bit (m)
ACAL Insert
TM
Positive Pulser
PWD Insert
26.880
CNP Insert
24.290
ALD Insert
21.430
HCIM Insert
EWR-P4 Insert
13.850
DDS Insert
0
DGR Insert
11.500
DM Sonde
8.950
AGR Insert

HALLIBURTON

DDS Drillstring Dynamics

Powered by INSITE™

1 : 1000

Sperry Drilling Services

Country	: Australia
Field	: Thylacine
Location	: 39° 14' 14.56" South GDA94 142° 54' 7.58" East GDA94
Well	: THA04
Company	: Woodside Energy Ltd
Rig	: Maersk Guardian

Company	:	**Woodside Energy Ltd**
Rig	:	**Maersk Guardian**
Well	:	**THA04**
Field	:	**Thylacine**
Country	:	**Australia**
DOE Number	:	

LOCATION

Latitude : **39° 14' 14.56" South GDA94**
Longitude : **142° 54' 7.58" East GDA94**

UTM Easting = 664,161.0 m
UTM Northing = 5,655,156.8 m

Other Services

Permanent Datum : **LAT** Elevation : **0.00 m**
Log Measured From : **Drill Floor** **50.50 m** Above Permanent Datum
Drilling Measured From : **Drill Floor**

MD LOG

Elev. KB
DF **50.50 m**
GL
WD **99.30 m**

Depth Logged : **650.00 m** To **3,987.00 m**
Date Logged : **10-Aug-06** To **26-Aug-06**
Total Depth MD : **3,987.00 m** TVD : **2,253.83 m**
Spud Date : **12-Aug-06**

Unit No. : **SSDS-40** Job No. : **AU-FE-0003930660**
Plot Type : **Final**
Plot Date : **15-Sep-06**

Run No.	Borehole Record (MD) Size	From	To
200	216.000 mm	2,751.00 m	3,194.00 m
300	216.000 mm	3,194.00 m	3,987.00 m

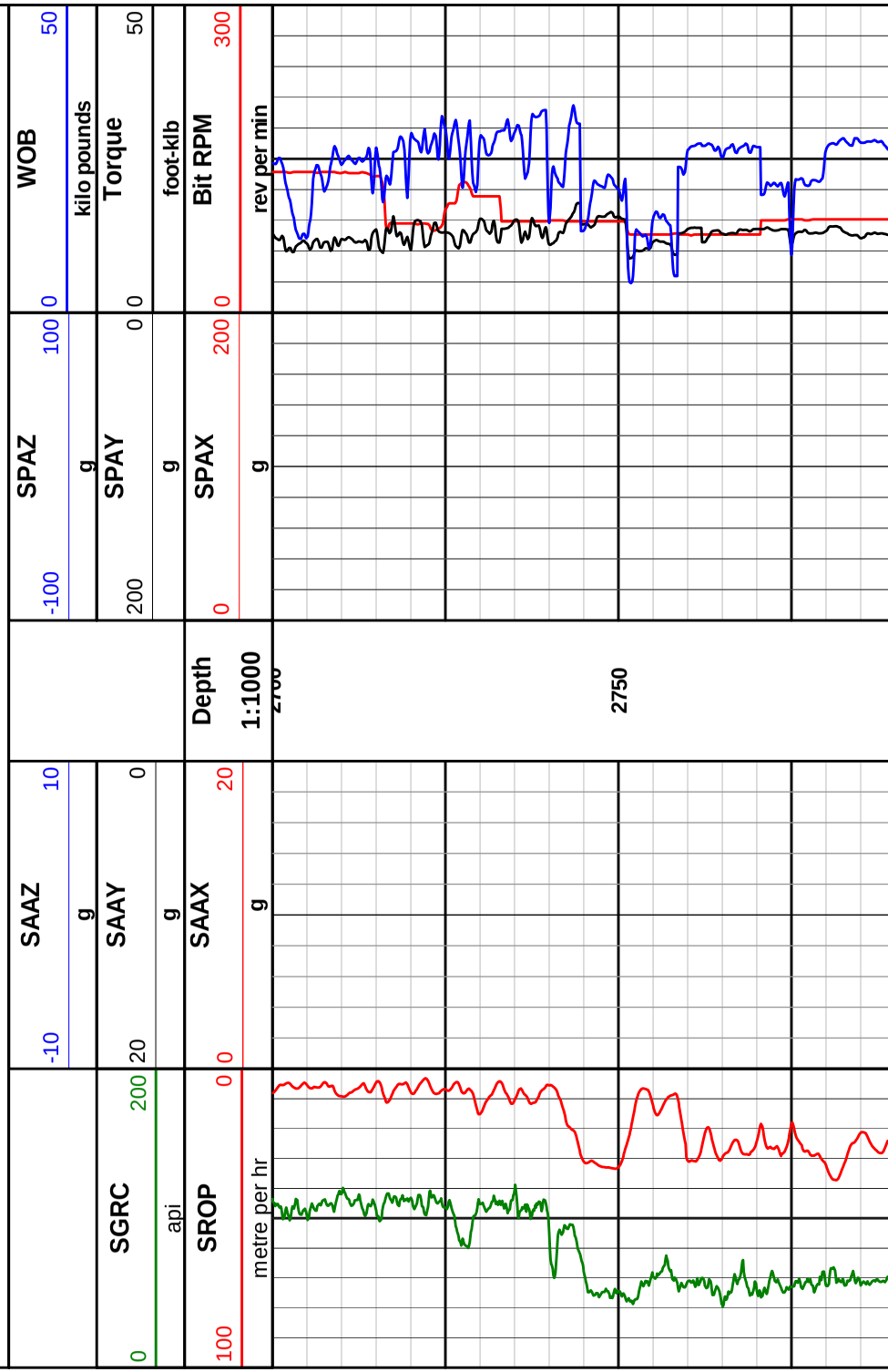
Run No.	Borehole Record (MD) Size	From	To

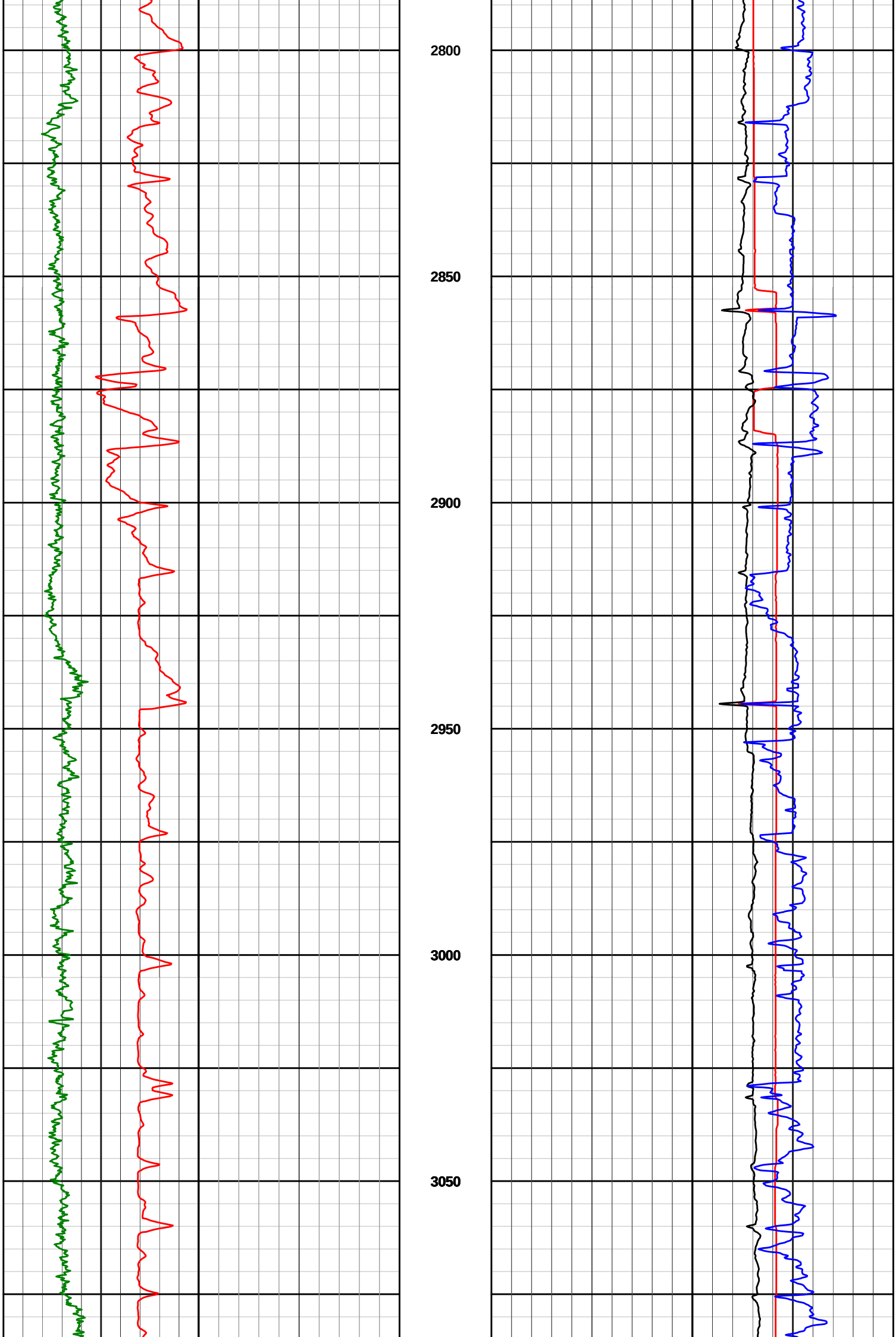
Casing Record (MD) Size	Weight	From	To
244.000 mm	70.00 kgpm	150.00 m	2,742.80 m

DDS Depth Based

Data available from 3194.0 to 3987.0 mMDRT due to data being unrecovered During Run200

SDL Data presented as supplied by Geoservices

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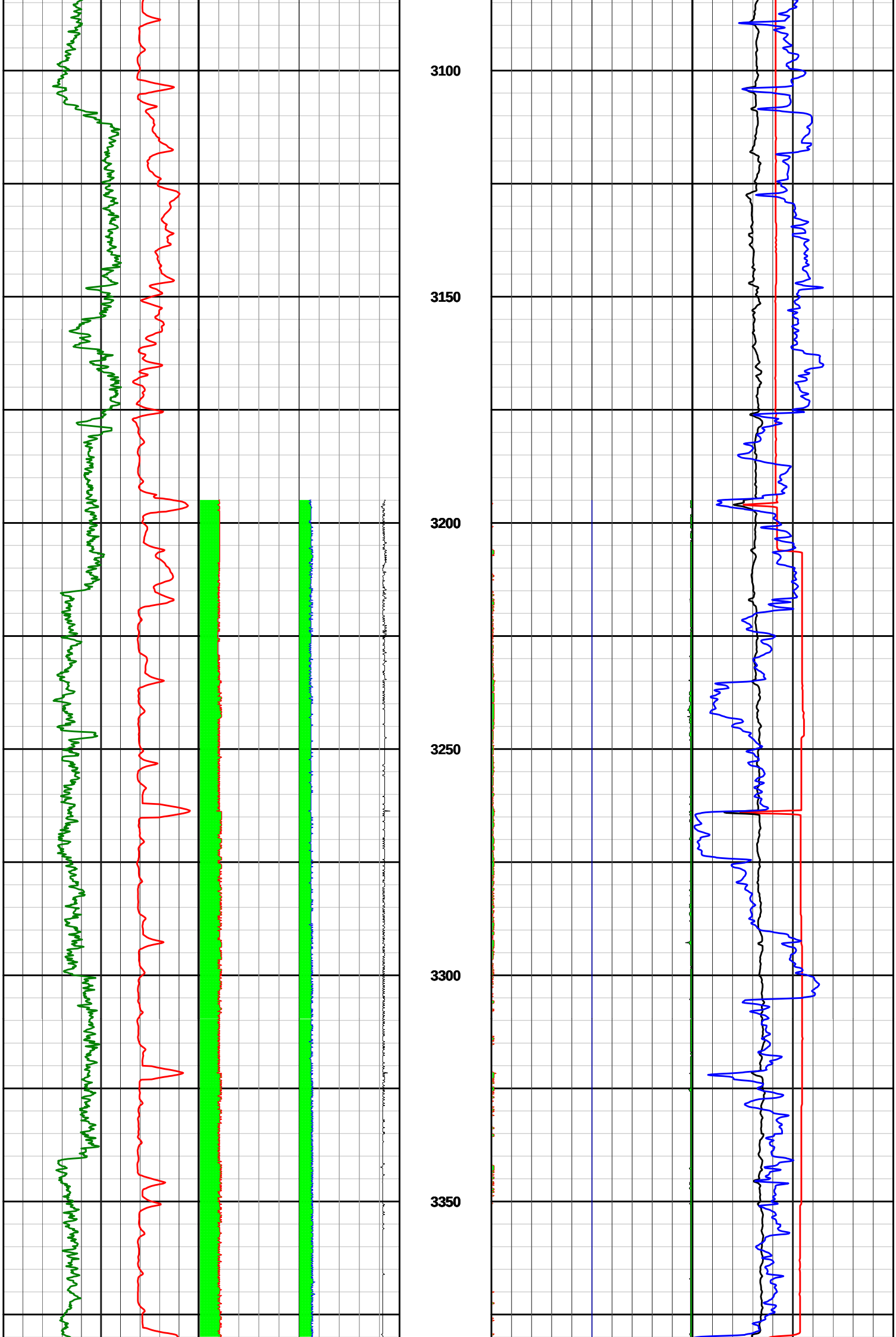
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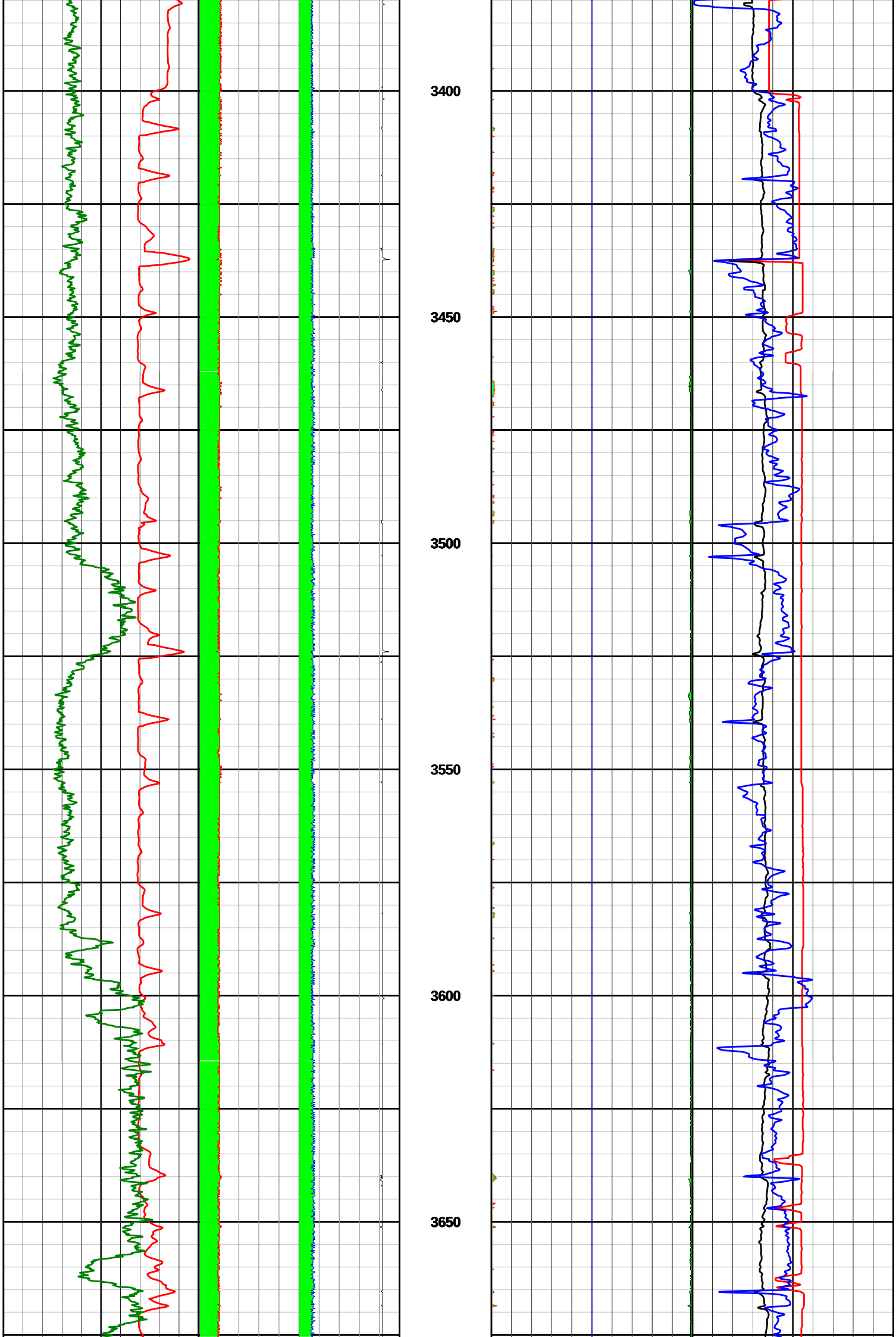
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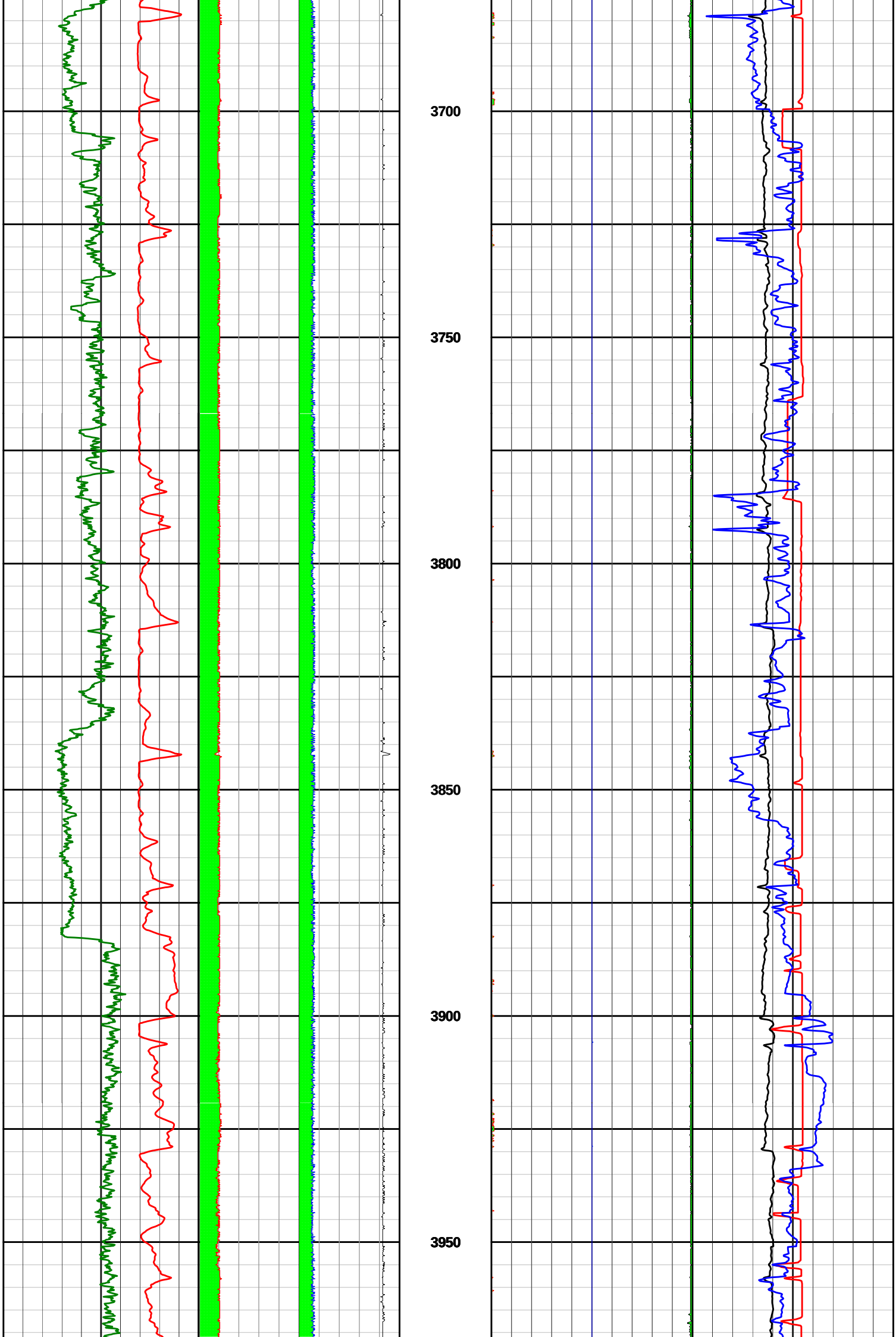
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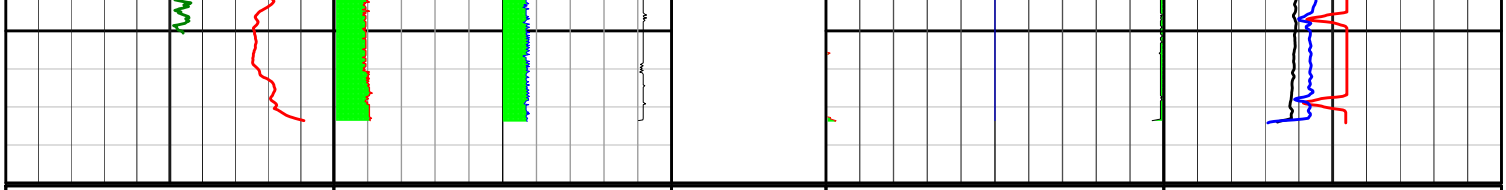


SROP 100 – 0	**SAAX** 0 – 20	**Depth**	**SPAX** 0 – 200	**Bit RPM** 0 – 300
metre per hr	g	**1:1000**	g	rev per min
SGRC 0 – 200	**SAAY** 20 – 0		**SPAY** 200 – 0	**Torque** 0 – 50
api	g		g	foot-klb
	SAAZ -10 – 10		**SPAZ** -100 – 100	**WOB** 0 – 50
	g		g	kilo pounds

HALLIBURTON

DDS Drillstring Dynamics

Powered by INSITE™

Sperry Drilling Services

Country	: Australia
Field	: Thylacine
Location	: 39° 14' 14.56" South GDA94 142° 54' 7.58" East GDA94
Well	: THA04
Company	: Woodside Energy Ltd
Rig	: Maersk Guardian

Company	:	**Woodside Energy Ltd**
Rig	:	**Maersk Guardian**
Well	:	**THA04**
Field	:	**Thylacine**
Country	:	**Australia**
DOE Number	:	

LOCATION

Latitude : **39° 14' 14.56" South GDA94**
Longitude : **142° 54' 7.58" East GDA94**

UTM Easting = 664,161.0 m
UTM Northing = 5,655,156.8 m

Other Services

Permanent Datum : **LAT** Elevation : **0.00 m**
Log Measured From : **Drill Floor** **50.50 m** Above Permanent Datum
Drilling Measured From : **Drill Floor**

TIME LOG

Elev. KB
DF **50.50 m**
GL
WD **99.30 m**

Depth Logged : **650.00 m** To **3,987.00 m**
Date Logged : **10-Aug-06** To **26-Aug-06**
Total Depth MD : **3,987.00 m** TVD : **2,253.83 m**
Spud Date : **12-Aug-06**

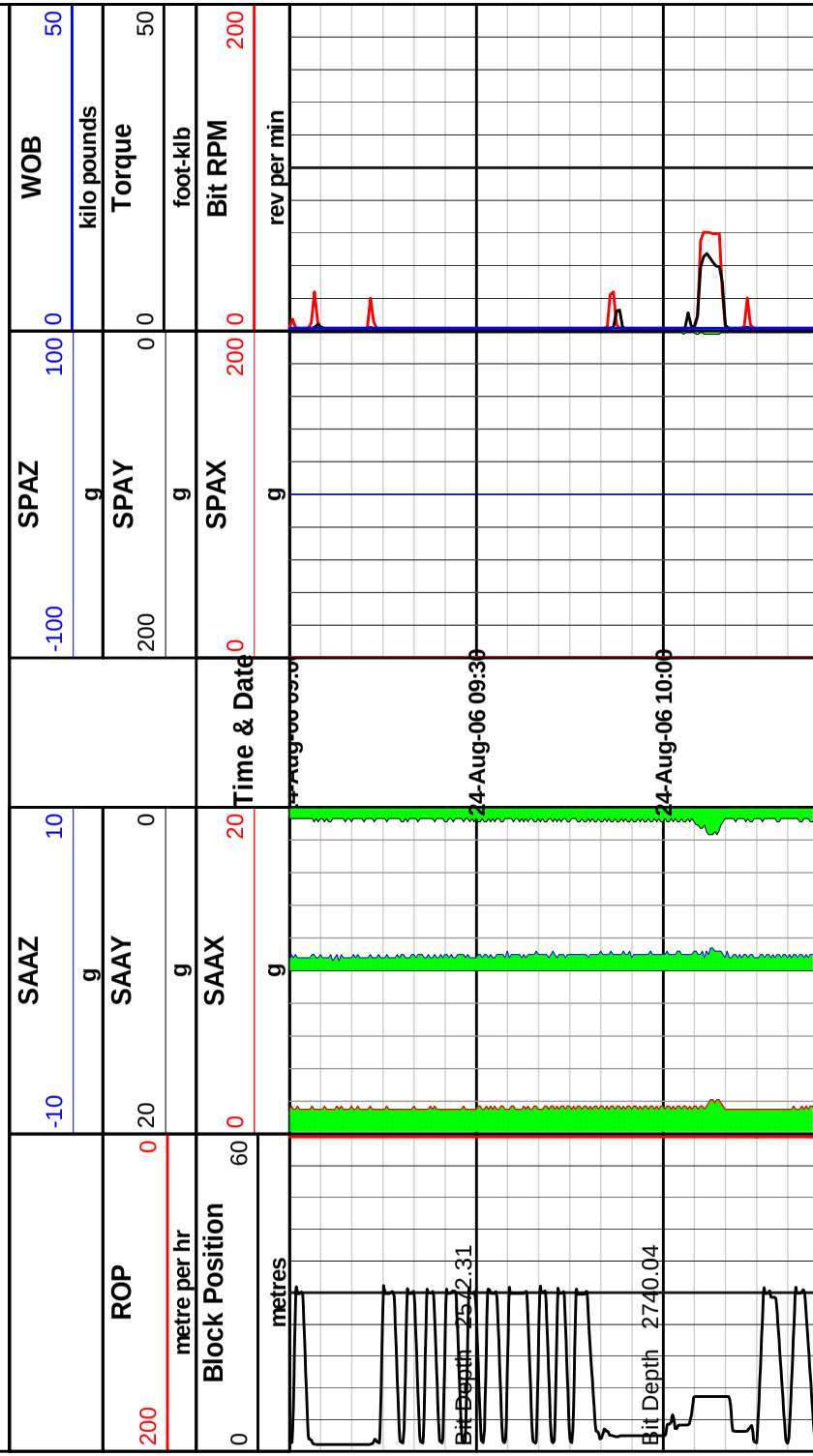
Unit No. : **SSDS-40** Job No. : **AU-FE-0003930660**
Plot Type : **Final**
Plot Date : **15-Sep-06**

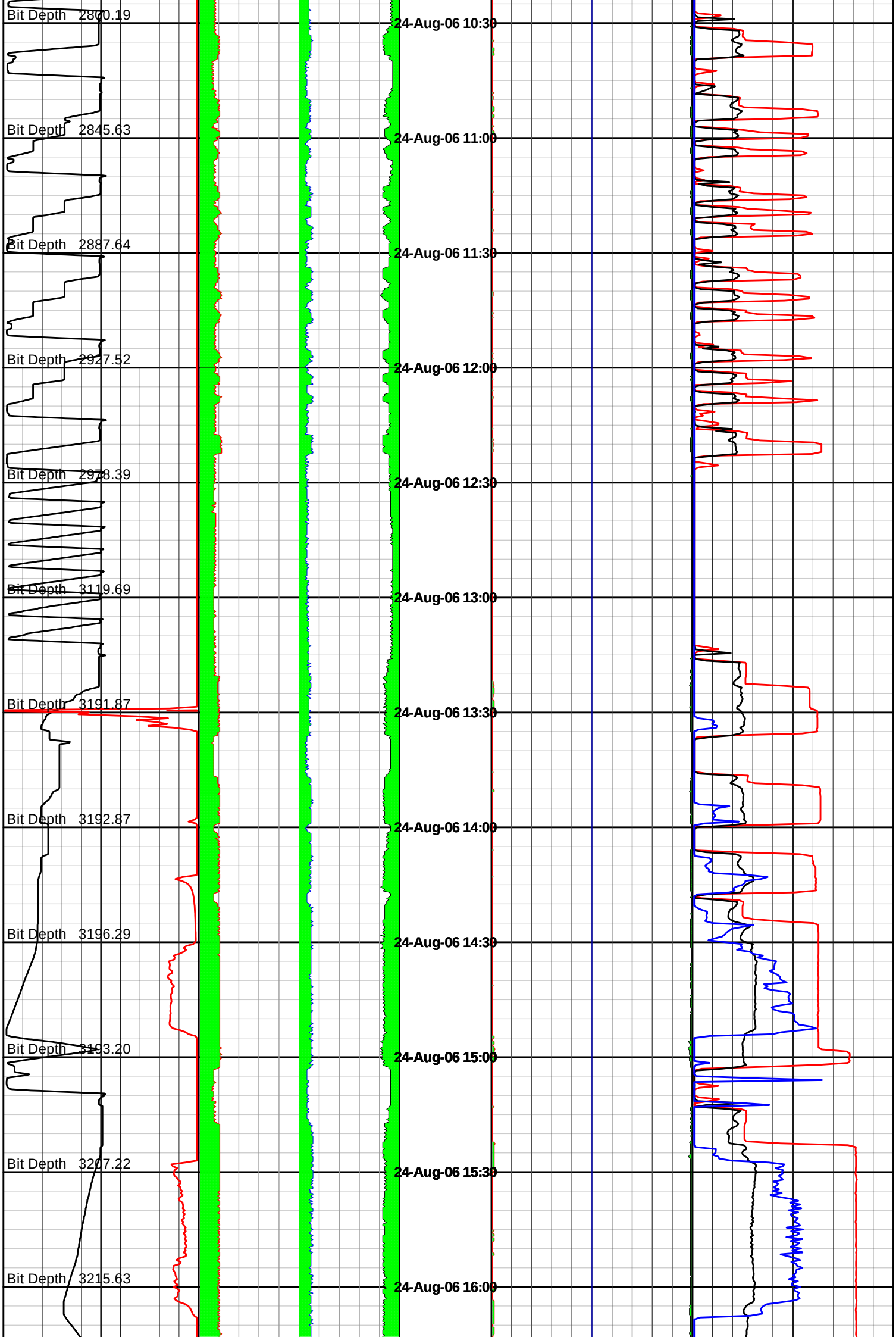
Run No.	Borehole Record (MD) Size	From	To
200	216.000 mm	2,751.00 m	3,194.00 m
300	216.000 mm	3,194.00 m	3,987.00 m

Run No.	Borehole Record (MD) Size	From	To

Casing Record (MD) Size	Weight	From	To
244.000 mm	70.00 kgpm	150.00 m	2,742.80 m

DDS Time Based
Drilled from 3194 to 3987 mMDRT
09:00 hrs 24th Aug - 00:15 hrs 28th Aug 2006
Data only available for Run 300 due to data being unrecovered for Run 200
SDL Data presented as supplied by Geoservices

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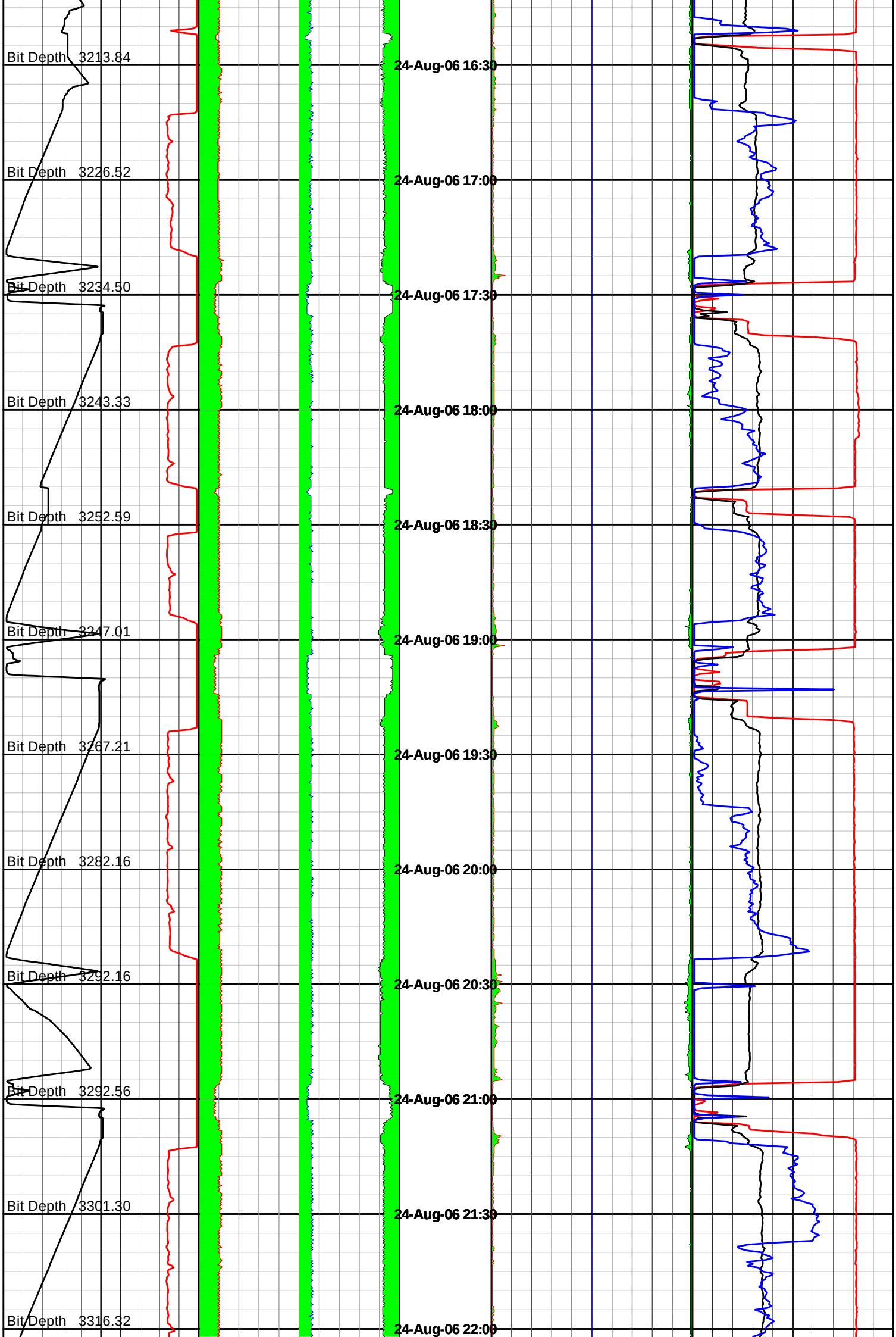
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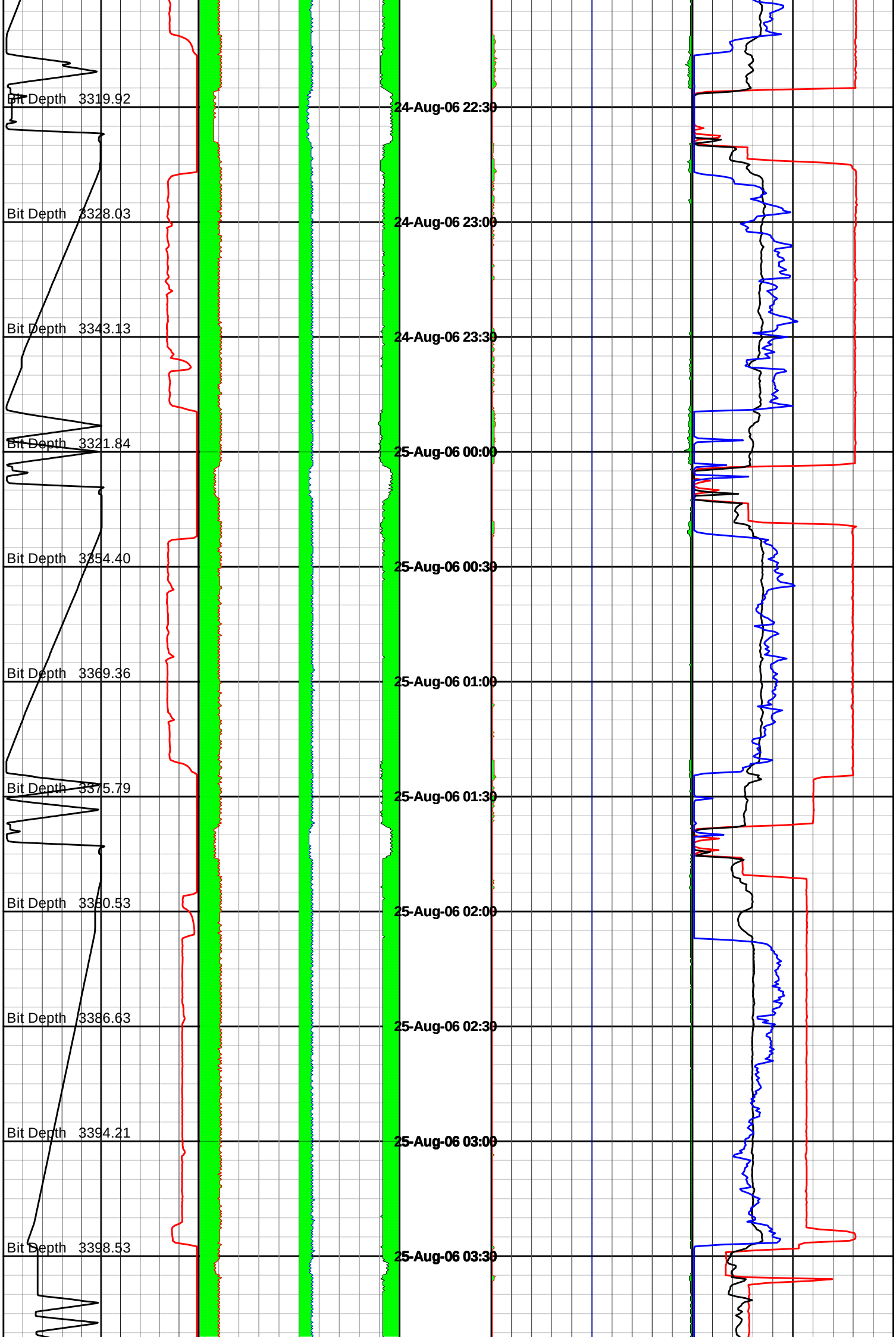
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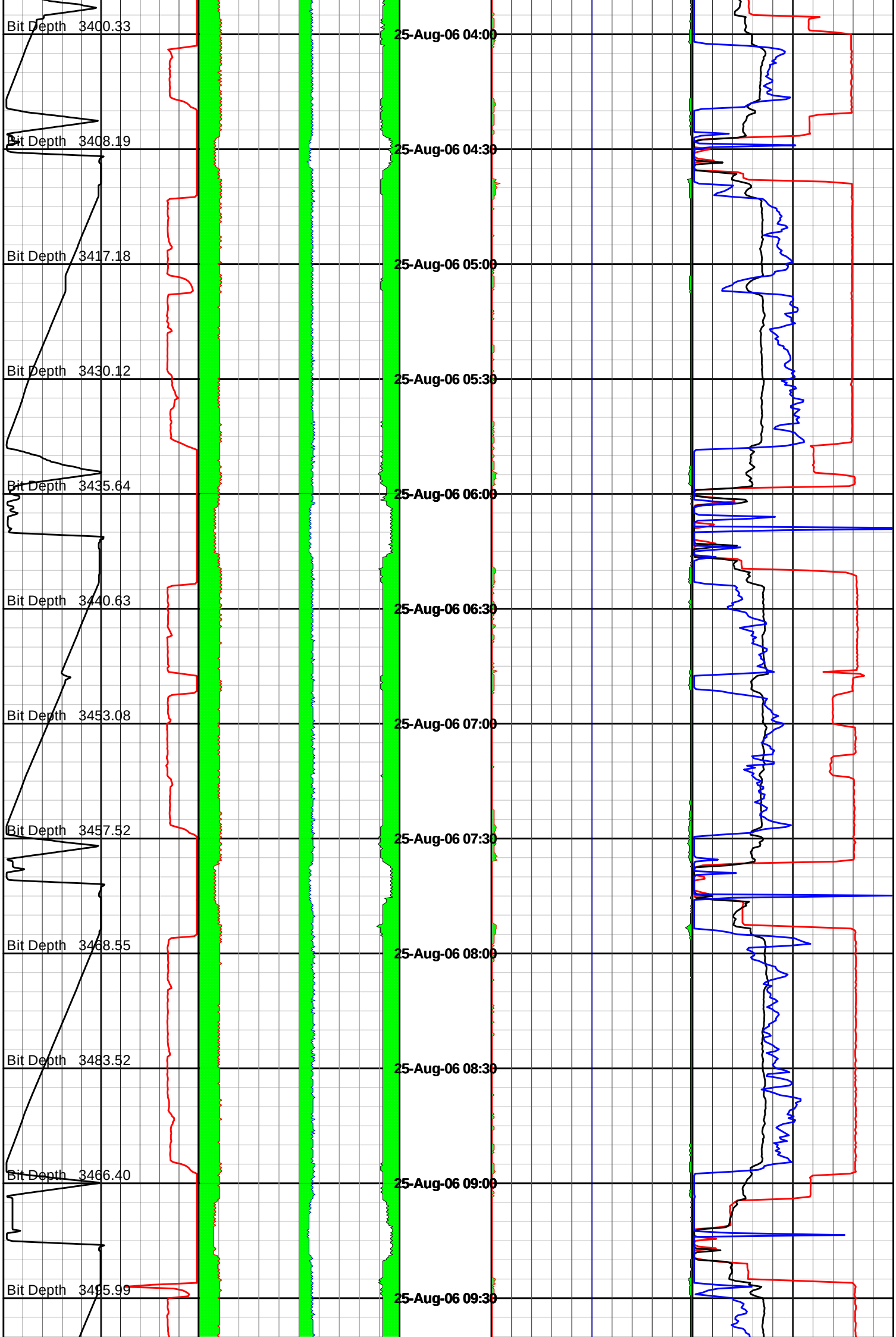
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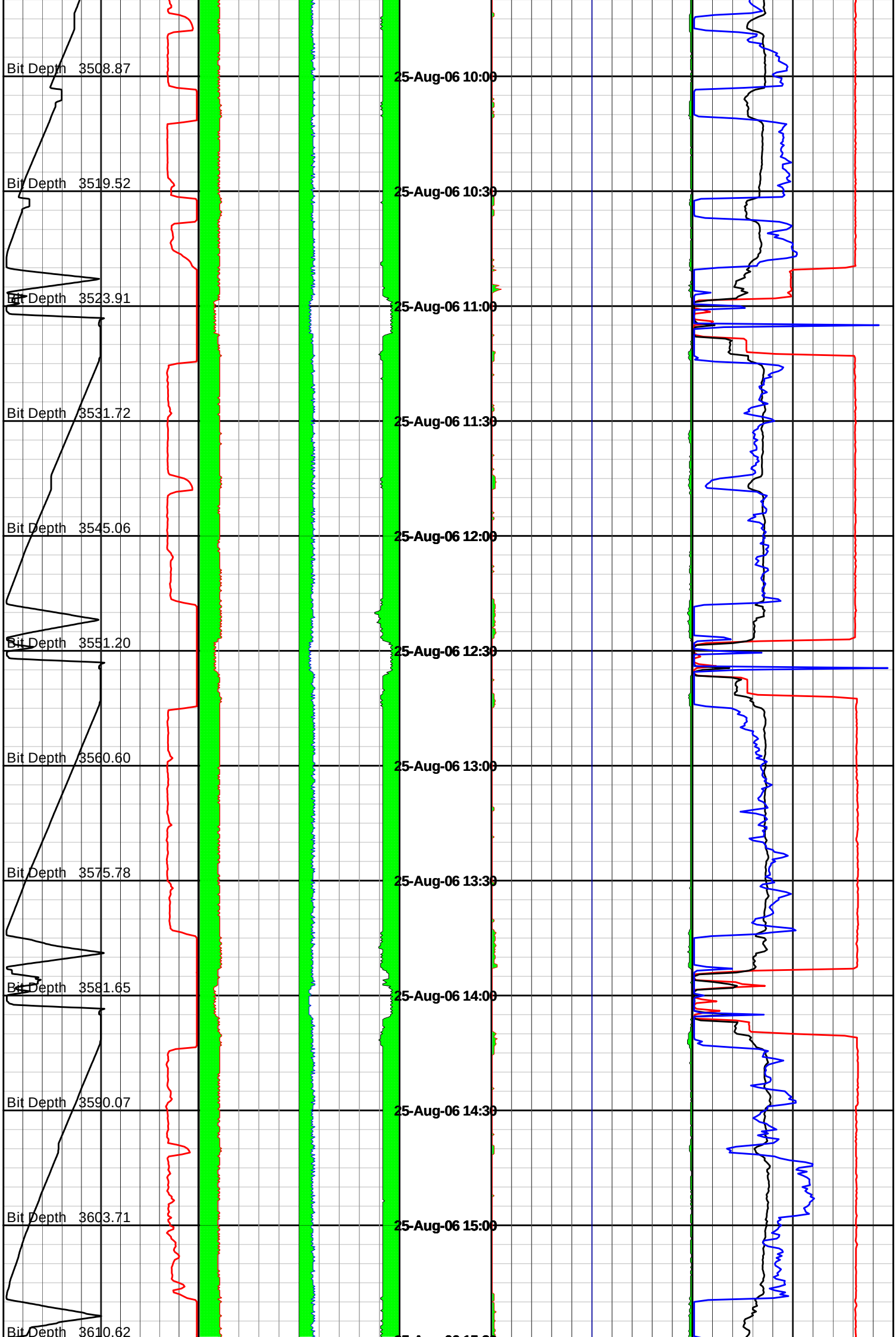
25-Aug-06 09:30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Bit Depth 3523.91
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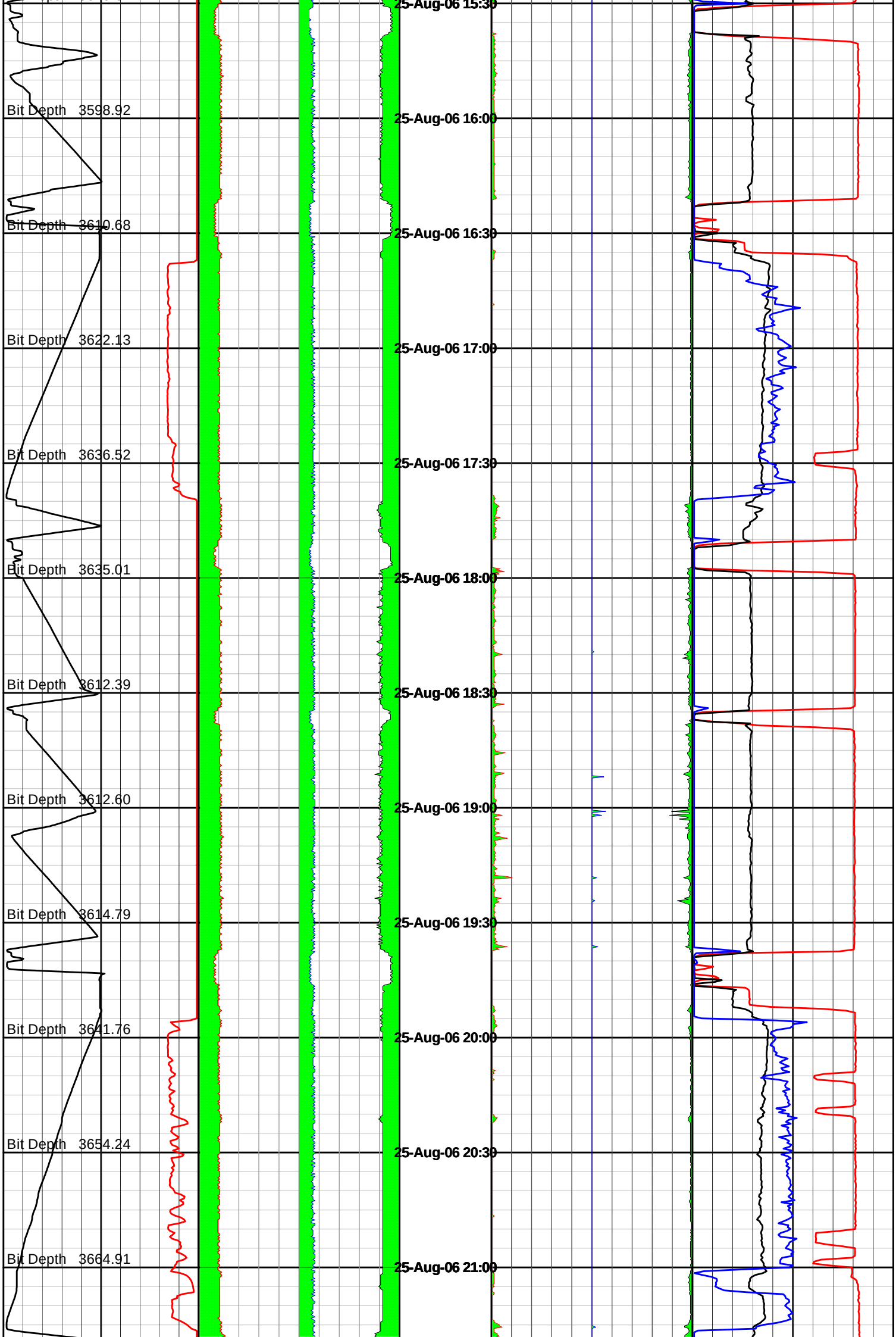
Bit Depth 3545.06
Bit Depth 3551.20
Bit Depth 3560.60
Bit Depth 3575.78
Bit Depth 3581.65
Bit Depth 3590.07
Bit Depth 3603.71
Bit Depth 3610.62
25-Aug-06 10:00
25-Aug-06 10:30
25-Aug-06 11:00
25-Aug-06 11:30
25-Aug-06 12:00
25-Aug-06 12:30
25-Aug-06 13:00
25-Aug-06 13:30
25-Aug-06 14:00
25-Aug-06 14:30
25-Aug-06 15:00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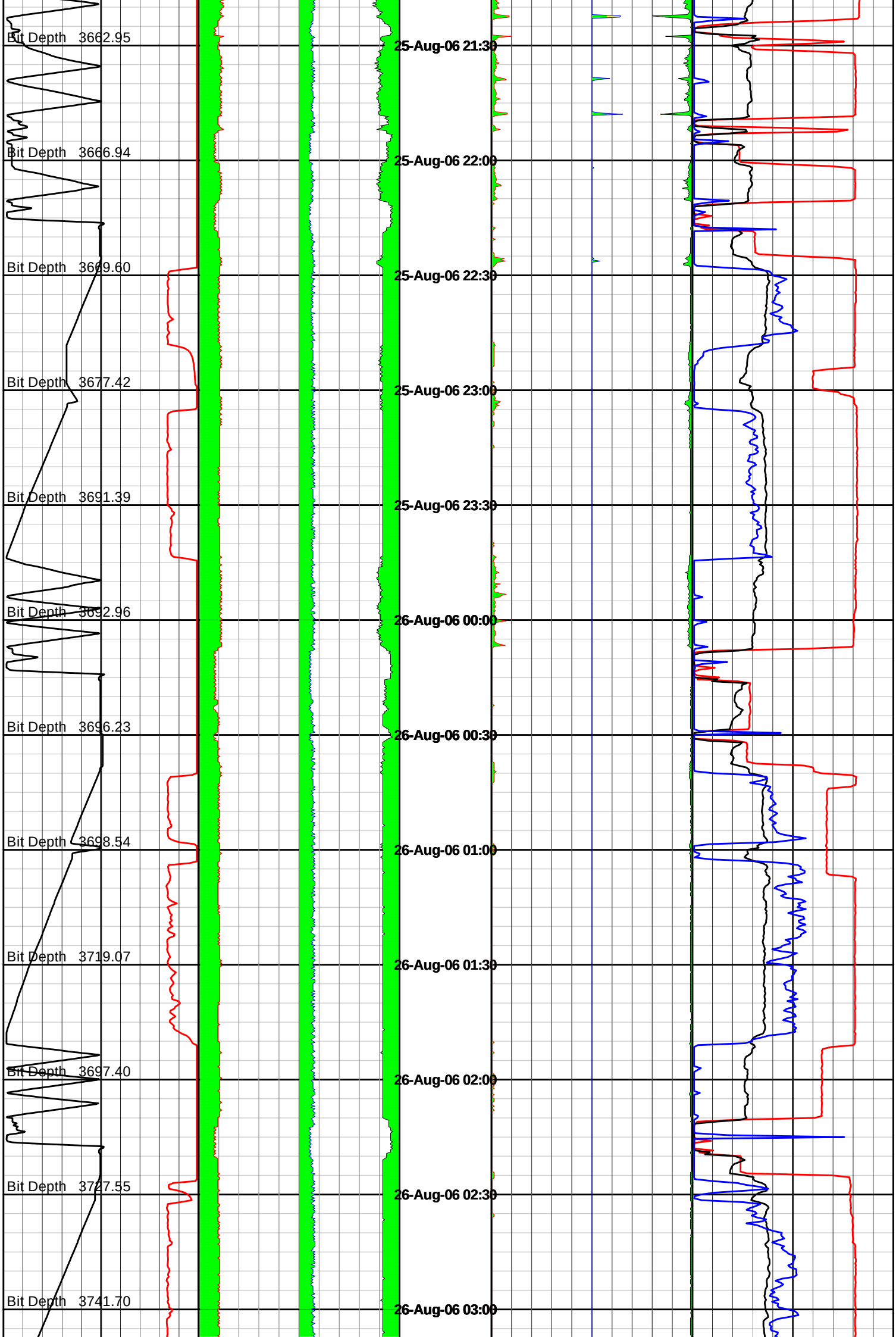
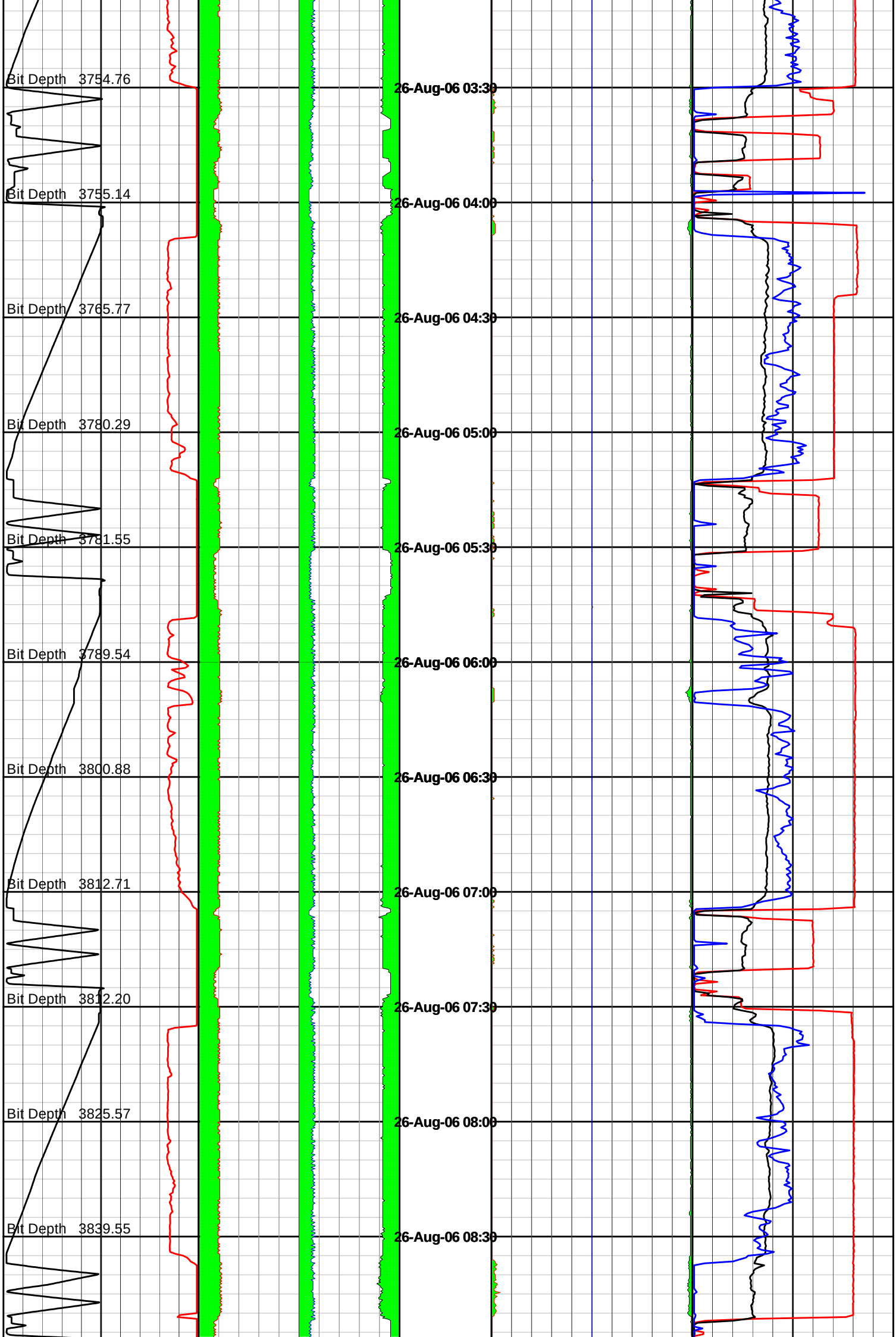
Bit Depth 3610.68
Bit Depth 3622.13
Bit Depth 3636.52
Bit Depth 3635.01
Bit Depth 3612.39
Bit Depth 3612.60
Bit Depth 3614.79
Bit Depth 3641.76
Bit Depth 3654.24
Bit Depth 3664.91
25-Aug-06 15:30
25-Aug-06 16:00
25-Aug-06 16:30
25-Aug-06 17:00
25-Aug-06 17:30
25-Aug-06 18:00
25-Aug-06 18:30
25-Aug-06 19:00
25-Aug-06 19:30
25-Aug-06 20:00
25-Aug-06 20:30
25-Aug-06 21:00


Bit Depth 3662.95
Bit Depth 3666.94
Bit Depth 3669.60
Bit Depth 3677.42
Bit Depth 3691.39
Bit Depth 3692.96
Bit Depth 3696.23
Bit Depth 3698.54
Bit Depth 3719.07
Bit Depth 3697.40
Bit Depth 3727.55
Bit Depth 3741.70
25-Aug-06 21:30
25-Aug-06 22:00
25-Aug-06 22:30
25-Aug-06 23:00
25-Aug-06 23:30
26-Aug-06 00:00
26-Aug-06 00:30
26-Aug-06 01:00
26-Aug-06 01:30
26-Aug-06 02:00
26-Aug-06 02:30
26-Aug-06 03:00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Bit Depth 3765.77
Bit Depth 3780.29
Bit Depth 3781.55
Bit Depth 3789.54
Bit Depth 3800.88
Bit Depth 3812.71
Bit Depth 3812.20
Bit Depth 3825.57
Bit Depth 3839.55
26-Aug-06 03:30
26-Aug-06 04:00
26-Aug-06 04:30
26-Aug-06 05:00
26-Aug-06 05:30
26-Aug-06 06:00
26-Aug-06 06:30
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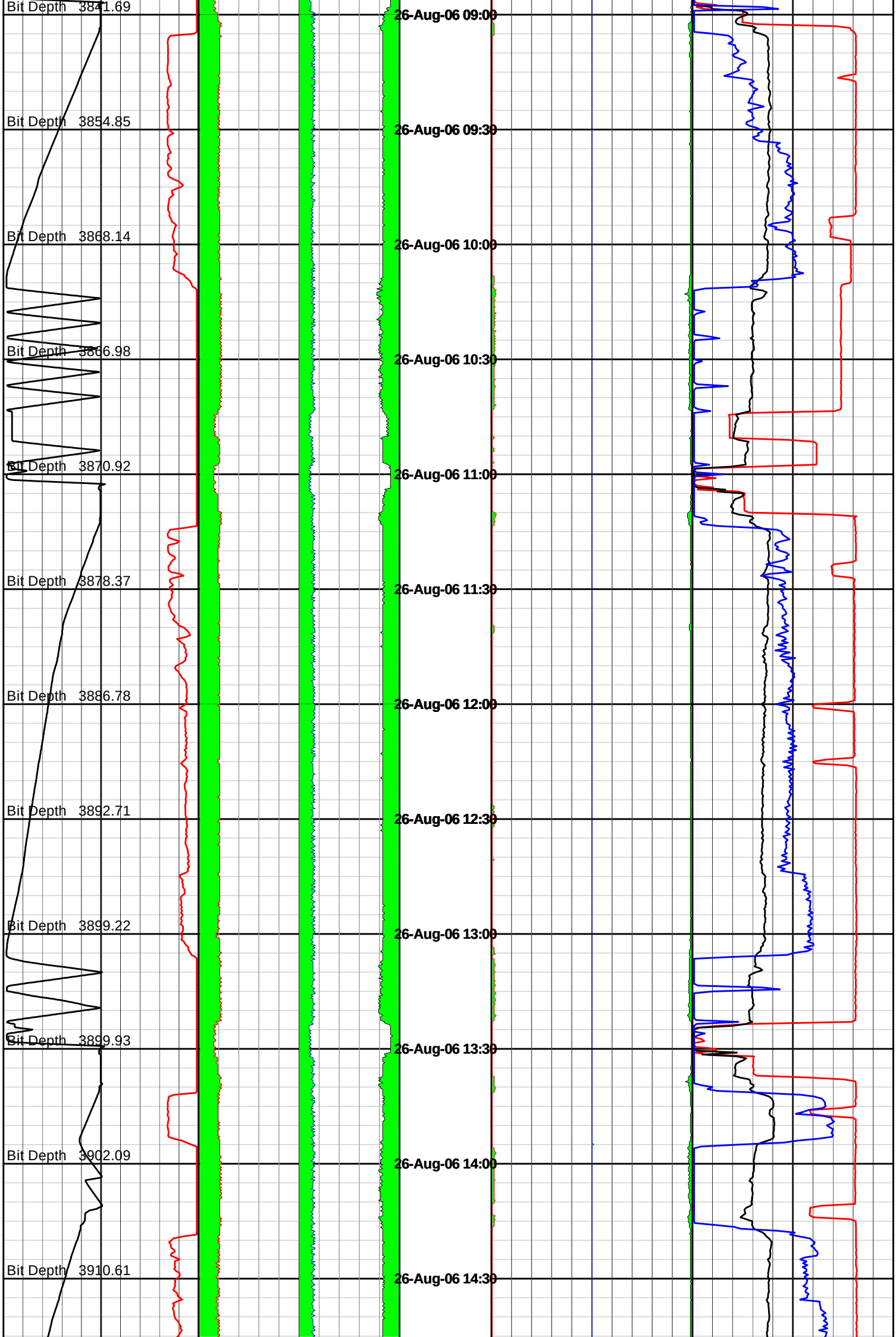
26-Aug-06 07:30
26-Aug-06 08:00
26-Aug-06 08:30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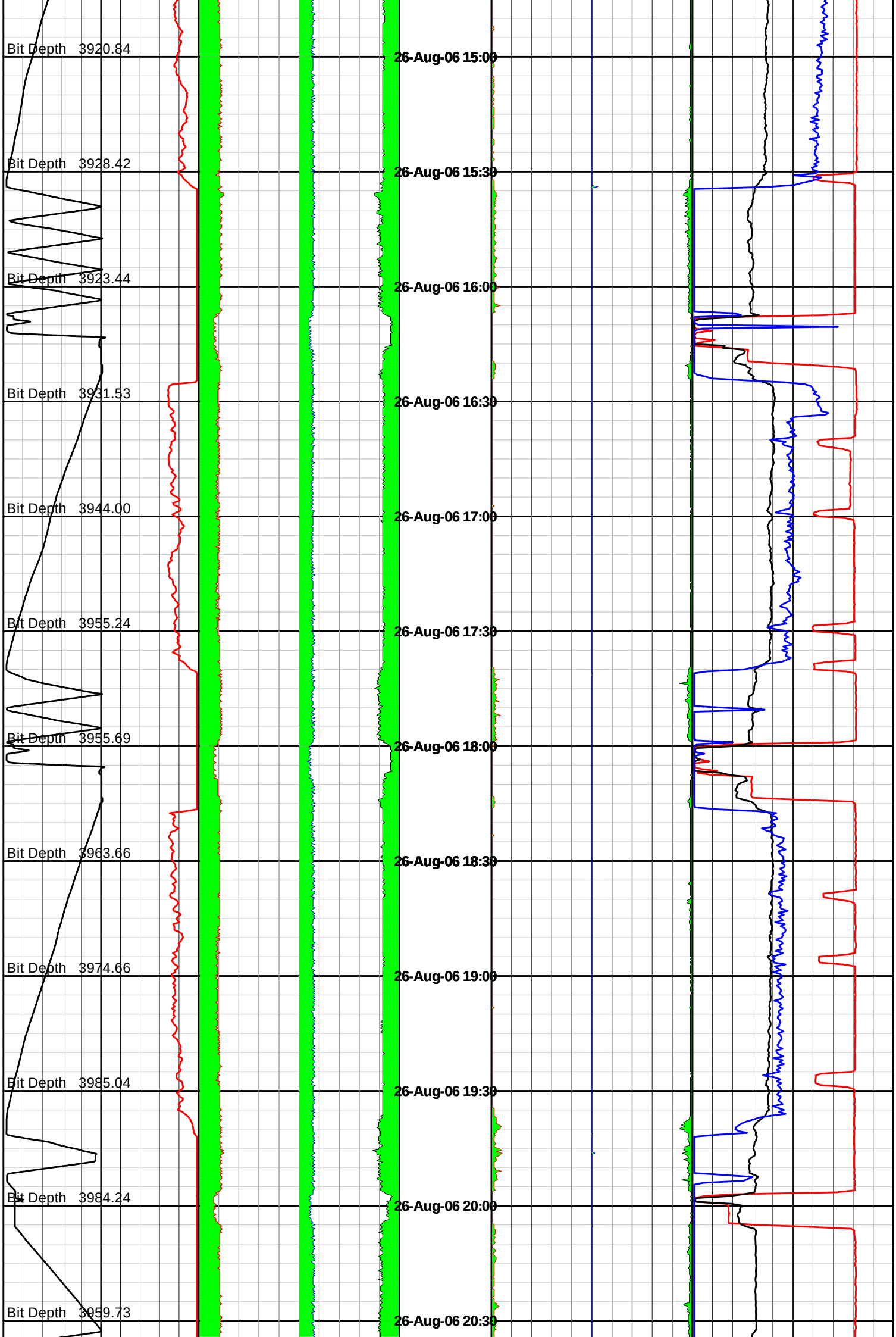
Bit Depth 3854.85
Bit Depth 3868.14
Bit Depth 3866.98
Bit Depth 3870.92
Bit Depth 3878.37
Bit Depth 3886.78
Bit Depth 3892.71
Bit Depth 3899.22
Bit Depth 3899.93
Bit Depth 3902.09
Bit Depth 3910.61
26-Aug-06 09:00
26-Aug-06 09:30
26-Aug-06 10:00
26-Aug-06 10:30
26-Aug-06 11:00
26-Aug-06 11:30
26-Aug-06 12:00
26-Aug-06 12:30
26-Aug-06 13:00
26-Aug-06 13:30
26-Aug-06 14:00
26-Aug-06 14:30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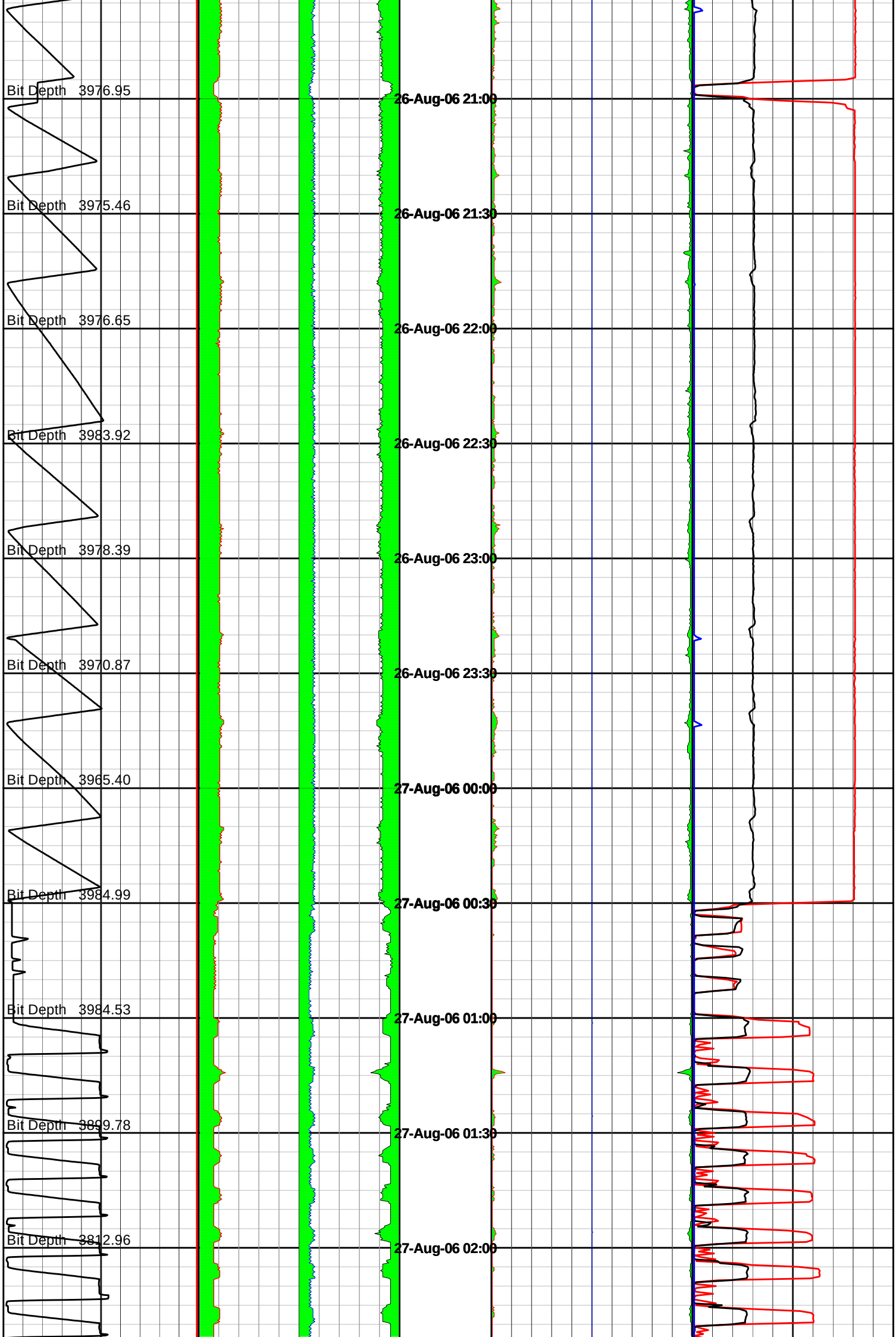
Bit Depth 3928.42
Bit Depth 3923.44
Bit Depth 3931.53
Bit Depth 3944.00
Bit Depth 3955.24
Bit Depth 3955.69
Bit Depth 3963.66
Bit Depth 3974.66
Bit Depth 3985.04
Bit Depth 3984.24
Bit Depth 3959.73
26-Aug-06 15:00
26-Aug-06 15:30
26-Aug-06 16:00
26-Aug-06 16:30
26-Aug-06 17:00
26-Aug-06 17:30
26-Aug-06 18:00
26-Aug-06 18:30
26-Aug-06 19:00
26-Aug-06 19:30
26-Aug-06 20:00
26-Aug-06 20:30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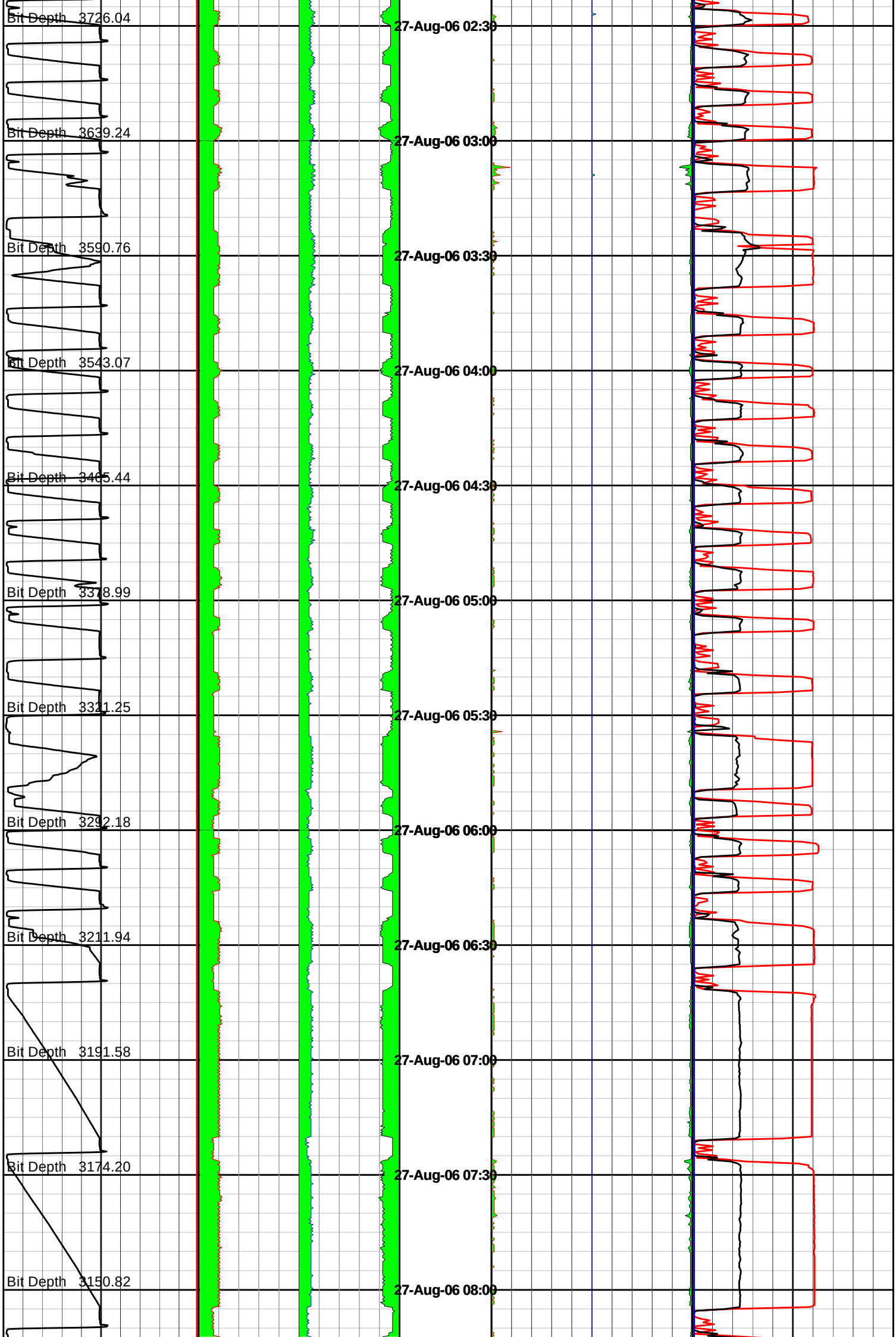
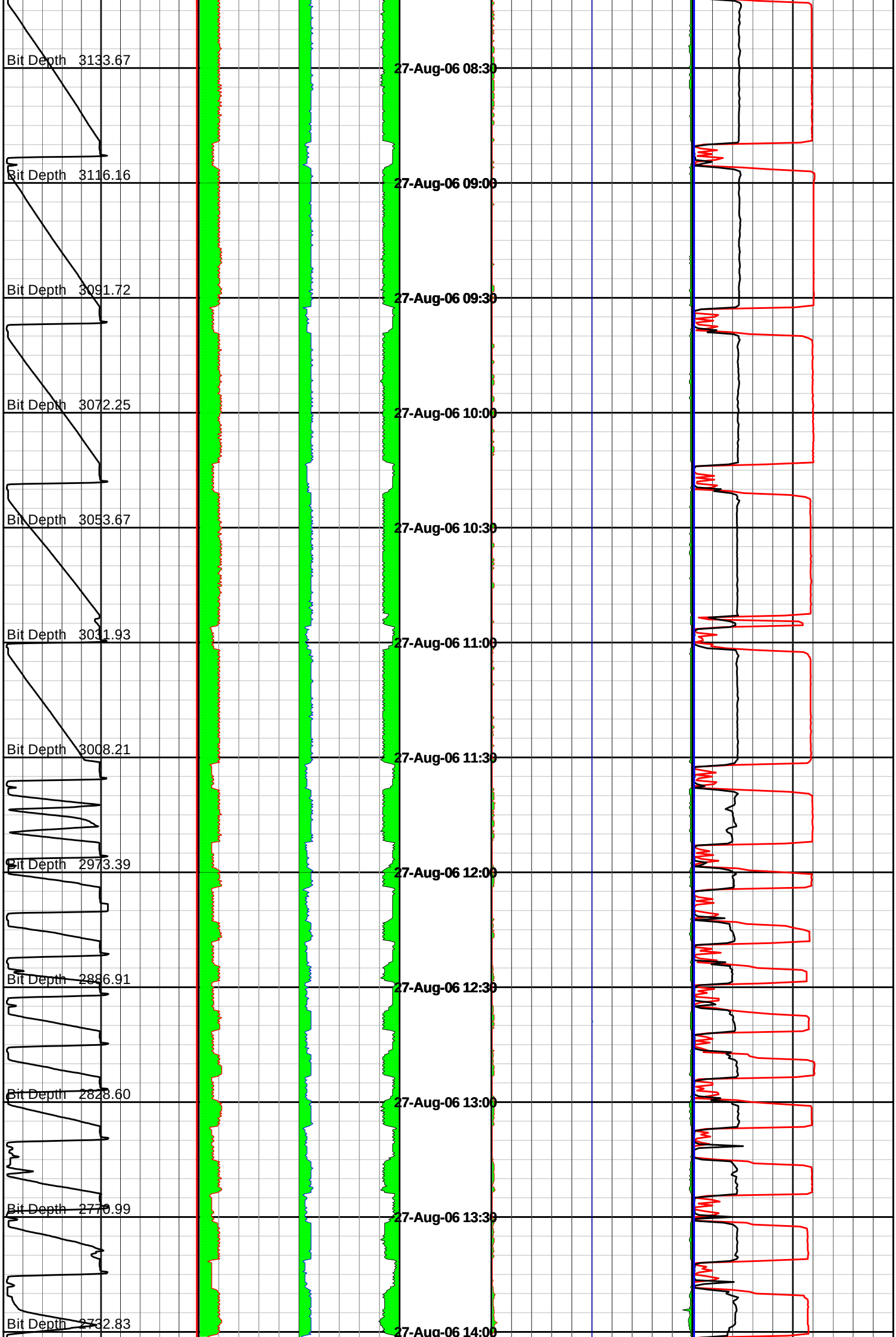
Bit Depth 3975.46
Bit Depth 3976.65
Bit Depth 3983.92
Bit Depth 3978.39
Bit Depth 3970.87
Bit Depth 3965.40
Bit Depth 3984.99
Bit Depth 3984.53
Bit Depth 3899.78
Bit Depth 3812.96
26-Aug-06 21:00
26-Aug-06 21:30
26-Aug-06 22:00
26-Aug-06 22:30
26-Aug-06 23:00
26-Aug-06 23:30
27-Aug-06 00:00
27-Aug-06 00:30
27-Aug-06 01:00
27-Aug-06 01:30
27-Aug-06 02:00


Bit Depth 3726.04
Bit Depth 3639.24
Bit Depth 3590.76
Bit Depth 3543.07
Bit Depth 3465.44
Bit Depth 3378.99
Bit Depth 3321.25
Bit Depth 3292.18
Bit Depth 3211.94
Bit Depth 3191.58
Bit Depth 3174.20
Bit Depth 3150.82
27-Aug-06 02:30
27-Aug-06 03:00
27-Aug-06 03:30
27-Aug-06 04:00
27-Aug-06 04:30
27-Aug-06 05:00
27-Aug-06 05:30
27-Aug-06 06:00
27-Aug-06 06:30
27-Aug-06 07:00
27-Aug-06 07:30
27-Aug-06 08:00


Bit Depth 3133.67
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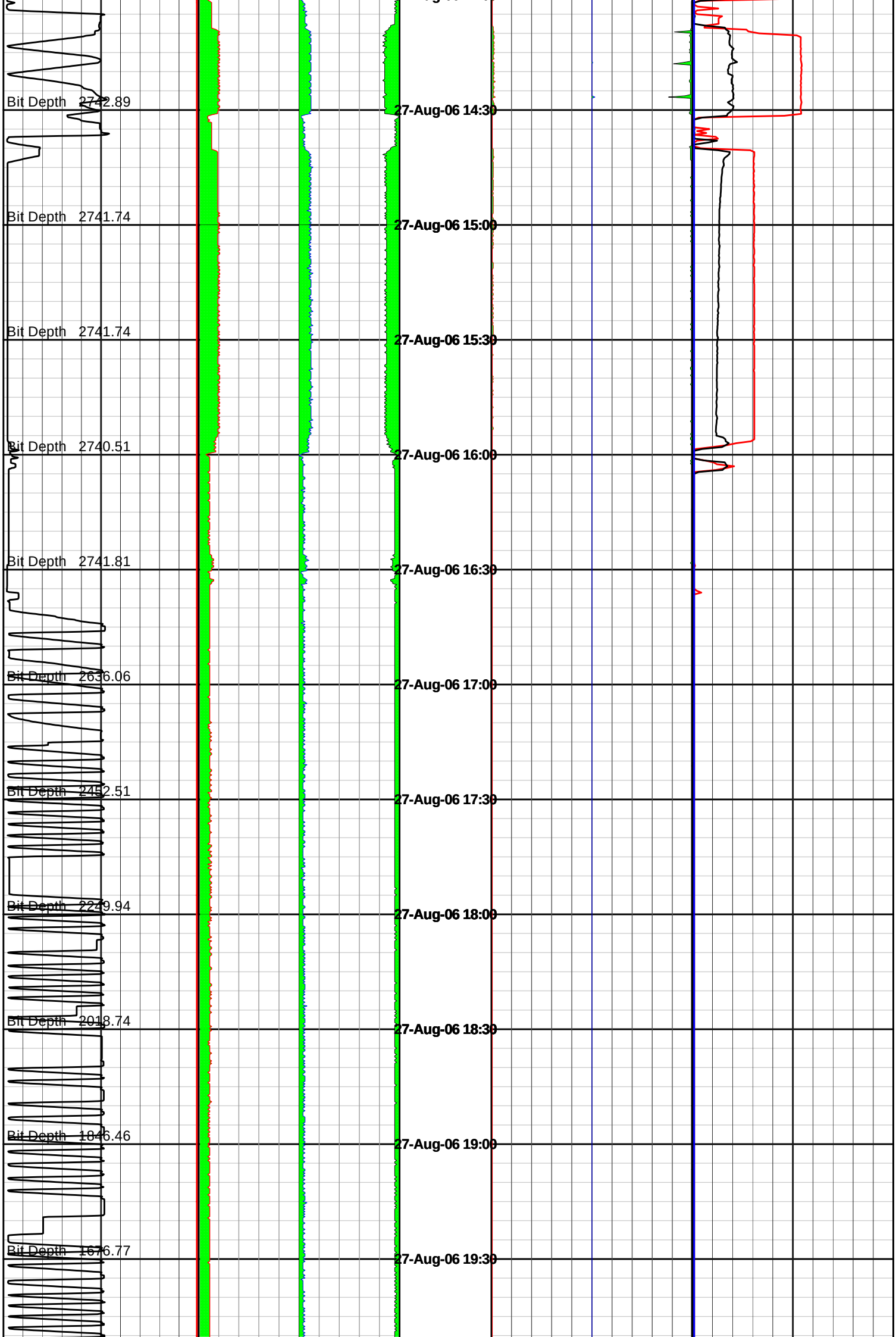
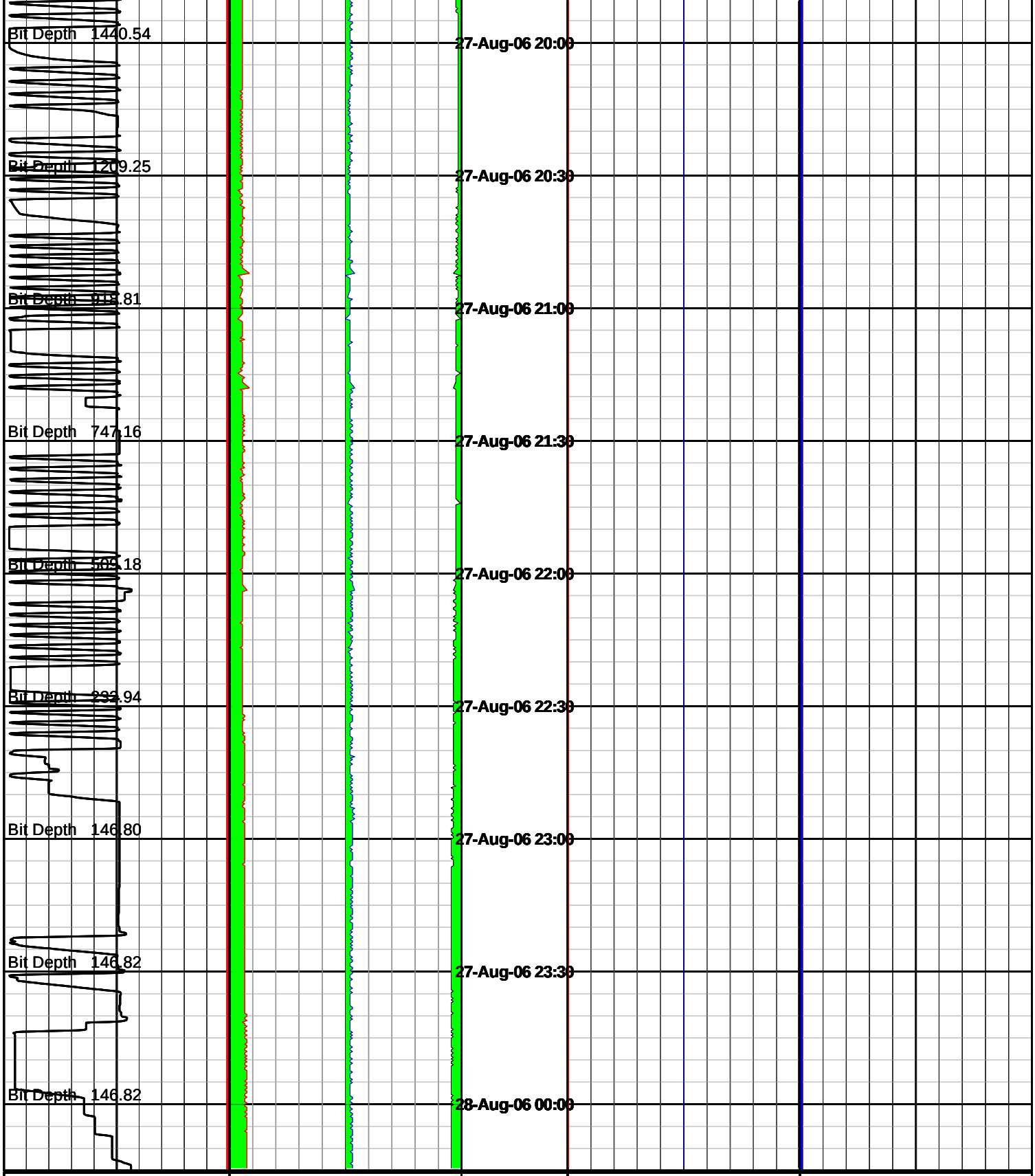
Bit Depth 3091.72
Bit Depth 3072.25
Bit Depth 3053.67
Bit Depth 3031.93
Bit Depth 3008.21
Bit Depth 2973.39
Bit Depth 2886.91
Bit Depth 2828.60
Bit Depth 2770.99
Bit Depth 2732.83
27-Aug-06 08:30
27-Aug-06 09:00
27-Aug-06 09:30
27-Aug-06 10:00
27-Aug-06 10:30
27-Aug-06 11:00
27-Aug-06 11:30
27-Aug-06 12:00
27-Aug-06 12:30
27-Aug-06 13:00
27-Aug-06 13:30
27-Aug-06 14:00


Bit Depth 2742.89
Bit Depth 2741.74
Bit Depth 2741.74
Bit Depth 2740.51
Bit Depth 2741.81
Bit Depth 2636.06
Bit Depth 2452.51
Bit Depth 2249.94
Bit Depth 2018.74
Bit Depth 1846.46
Bit Depth 1676.77
27-Aug-06 14:30
27-Aug-06 15:00
27-Aug-06 15:30
27-Aug-06 16:00
27-Aug-06 16:30
27-Aug-06 17:00
27-Aug-06 17:30
27-Aug-06 18:00
27-Aug-06 18:30
27-Aug-06 19:00
27-Aug-06 19:30



Block Position	SAAX	Time & Date	SPAX	Bit RPM
0 — 60	0 — 20		0 — 200	0 — 200
metres	g		g	rev per min
ROP	**SAAY**		**SPAY**	**Torque**
200 — 0	20 — 0		200 — 0	0 — 50
metre per hr	g		g	foot-klb
	SAAZ		**SPAZ**	**WOB**
	-10 — 10		-100 — 100	0 — 50
	g		g	kilo pounds

HALLIBURTON

PWD Pressure While Drilling

Powered by INSITE™

Sperry Drilling Services

Country	: Australia
Field	: Thylacine
Location	: 39° 14' 14.56" South GDA94 42° 54' 7.58" East GDA94
Well	: THA04
Company	: Woodside Energy Ltd
Rig	: Maersk Guardian

Company	:	**Woodside Energy Ltd**
Rig	:	**Maersk Guardian**
Well	:	**THA04**
Field	:	**Thylacine**
Country	:	**Australia**
DOE Number	:	

LOCATION

Latitude : **39° 14' 14.56" South GDA94**
Longitude : **42° 54' 7.58" East GDA94**

UTM Easting = 664,161.0 m
UTM Northing = 5,655,156.8 m

Other Services

Permanent Datum : **LAT** Elevation : **0.00 m**
Log Measured From : **Drill Floor** **50.50 m** Above Permanent Datum
Drilling Measured From : **Drill Floor**

TIME LOG

Elev. KB
DF **50.50 m**
GL
WD **99.30 m**

Depth Logged : **650.00 m** To **3,987.00 m**
Date Logged : **10-Aug-06** To **26-Aug-06**
Total Depth MD : **3,987.00 m** TVD : **2,253.83 m**
Spud Date : **12-Aug-06**

Unit No. : **SSDS-40** Job No. : **AU-FE-0003930660**
Plot Type : **Final**
Plot Date : **15-Sep-06**

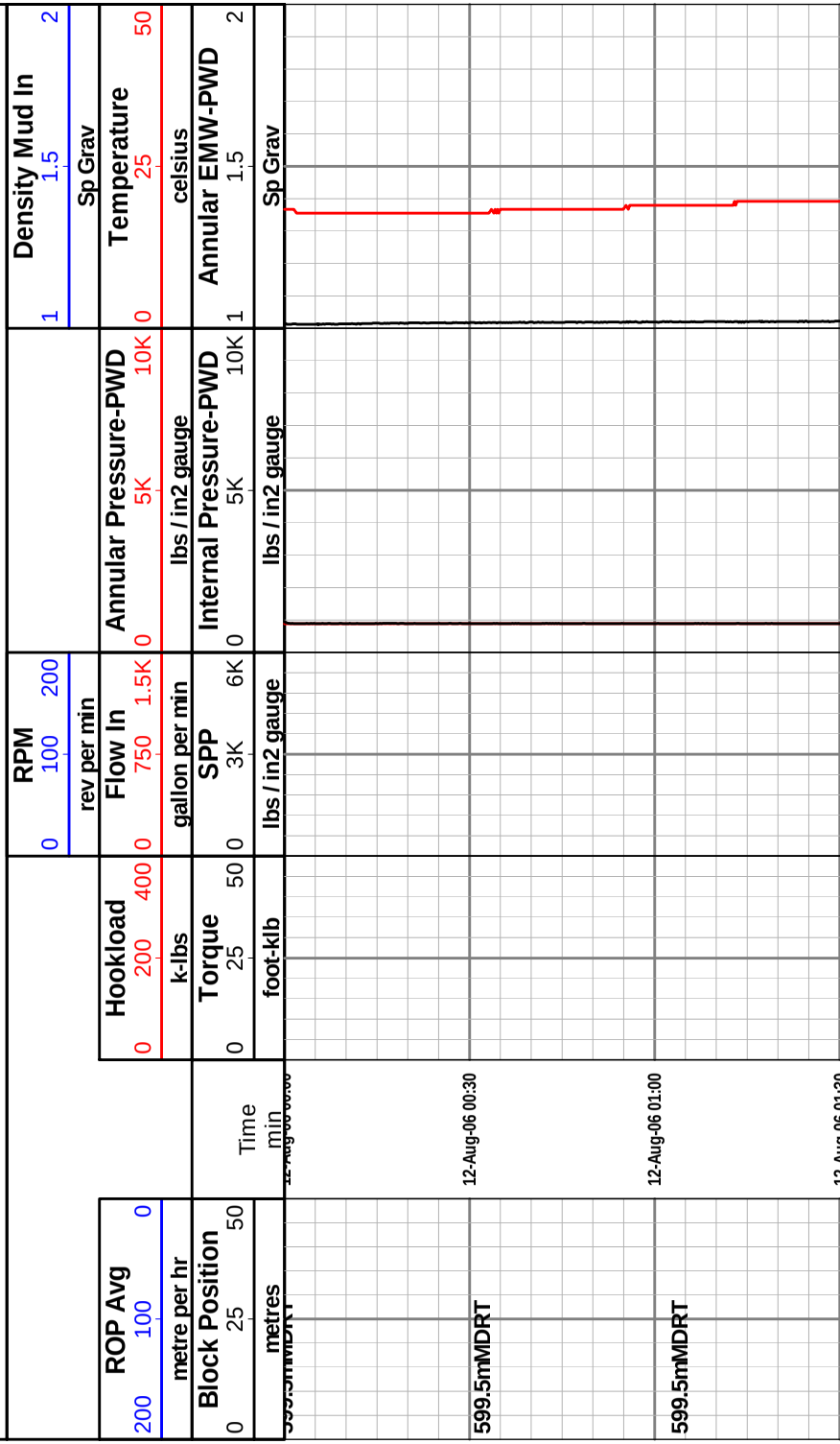
Run No.	Borehole Record (MD) Size	From	To
100	311.000 mm	650.00 m	2,751.00 m
200	216.000 mm	2,751.00 m	3,194.00 m
300	216.000 mm	3,194.00 m	3,987.00 m

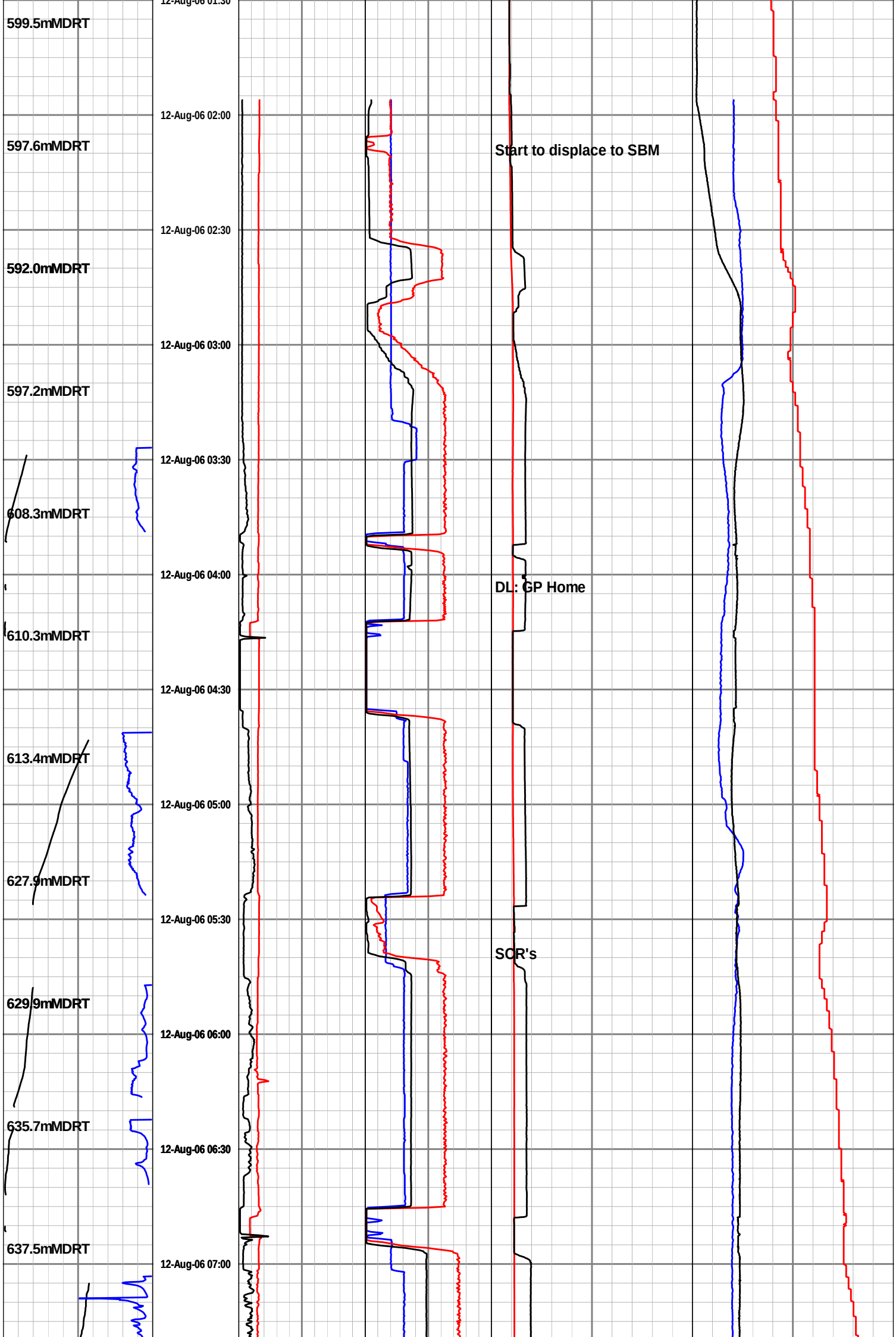
Run No.	Borehole Record (MD) Size	From	To

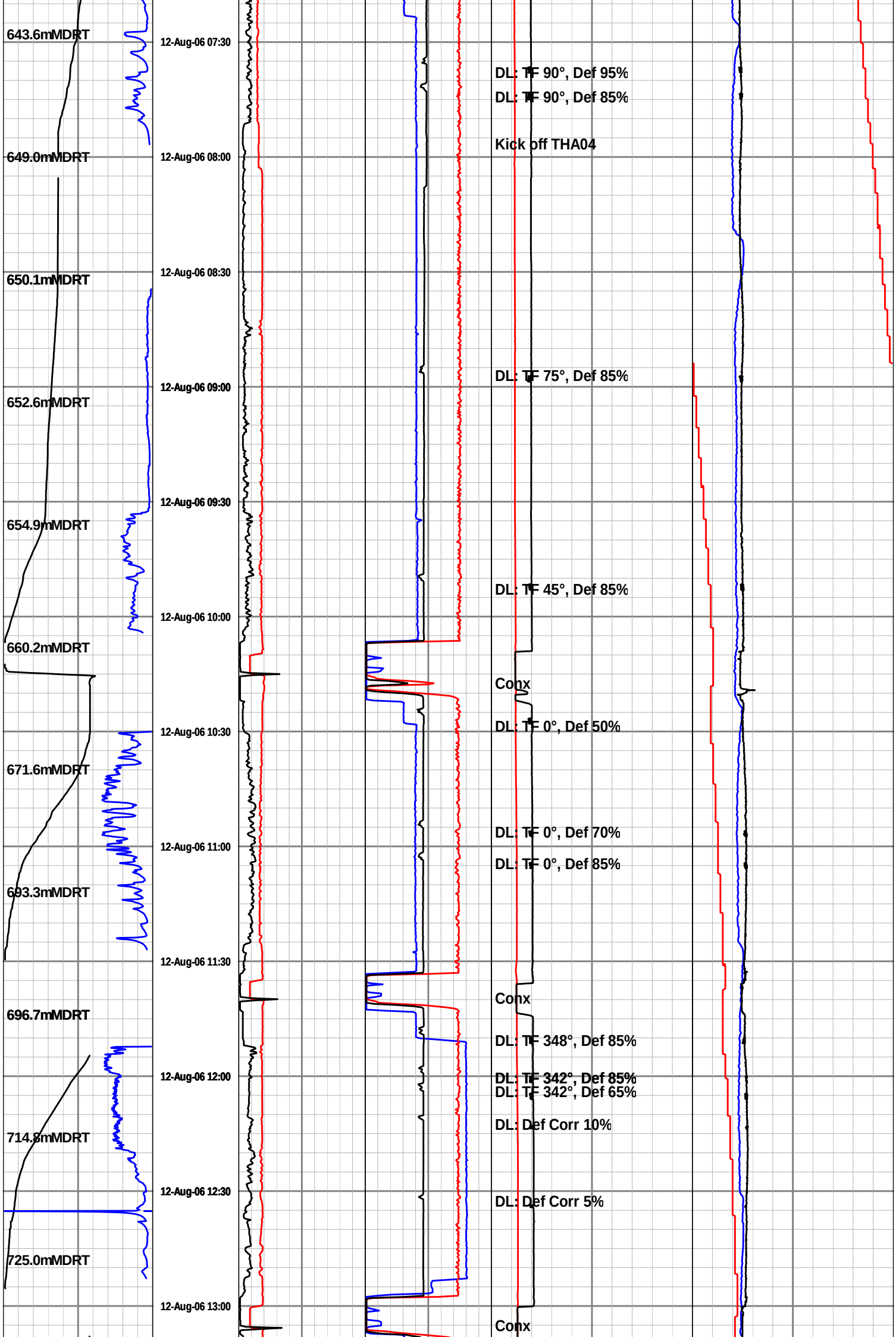
Casing Record (MD)

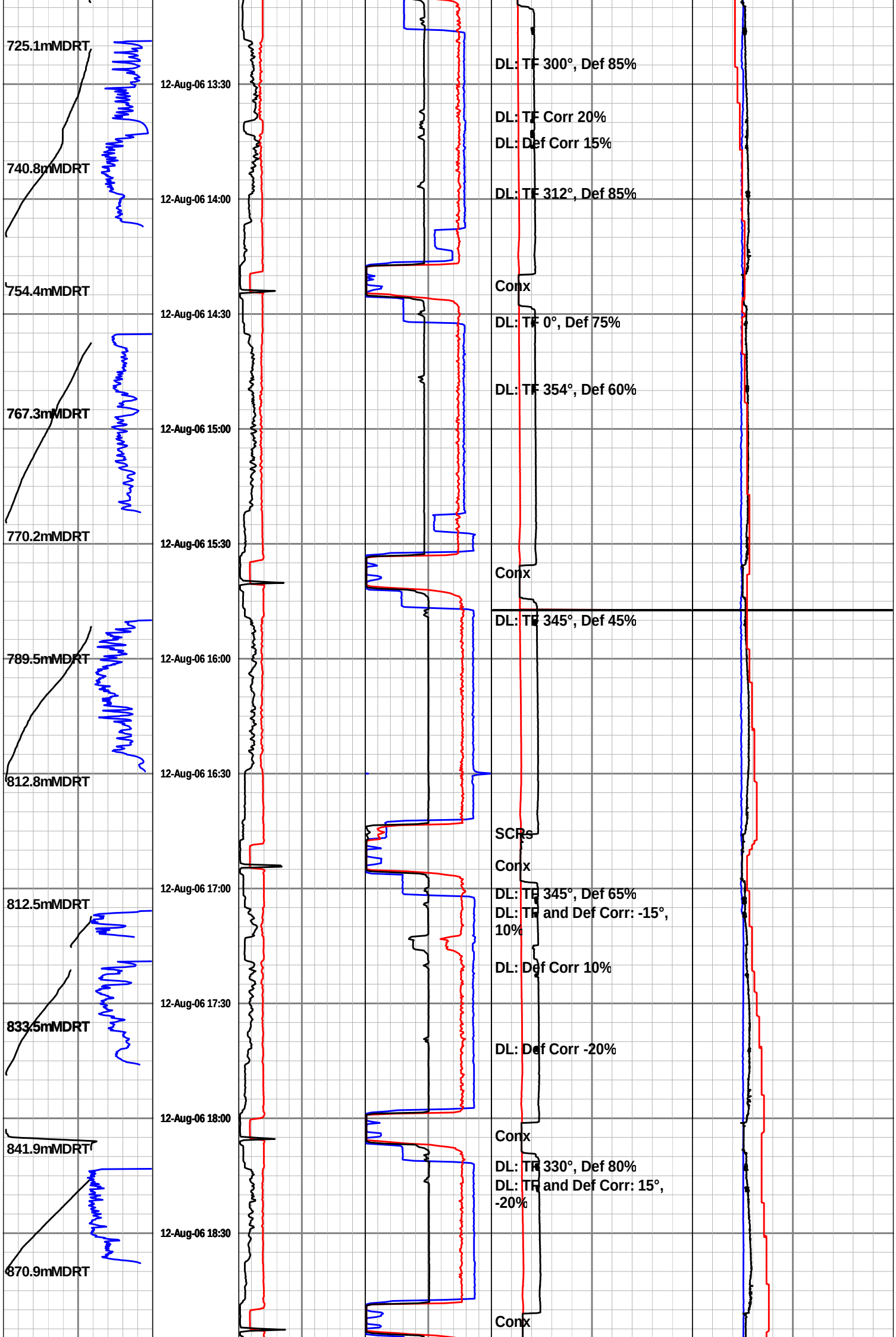
Size	Weight	From	To
244.000 mm	70.00 kgpm	150.00 m	2,742.80 m

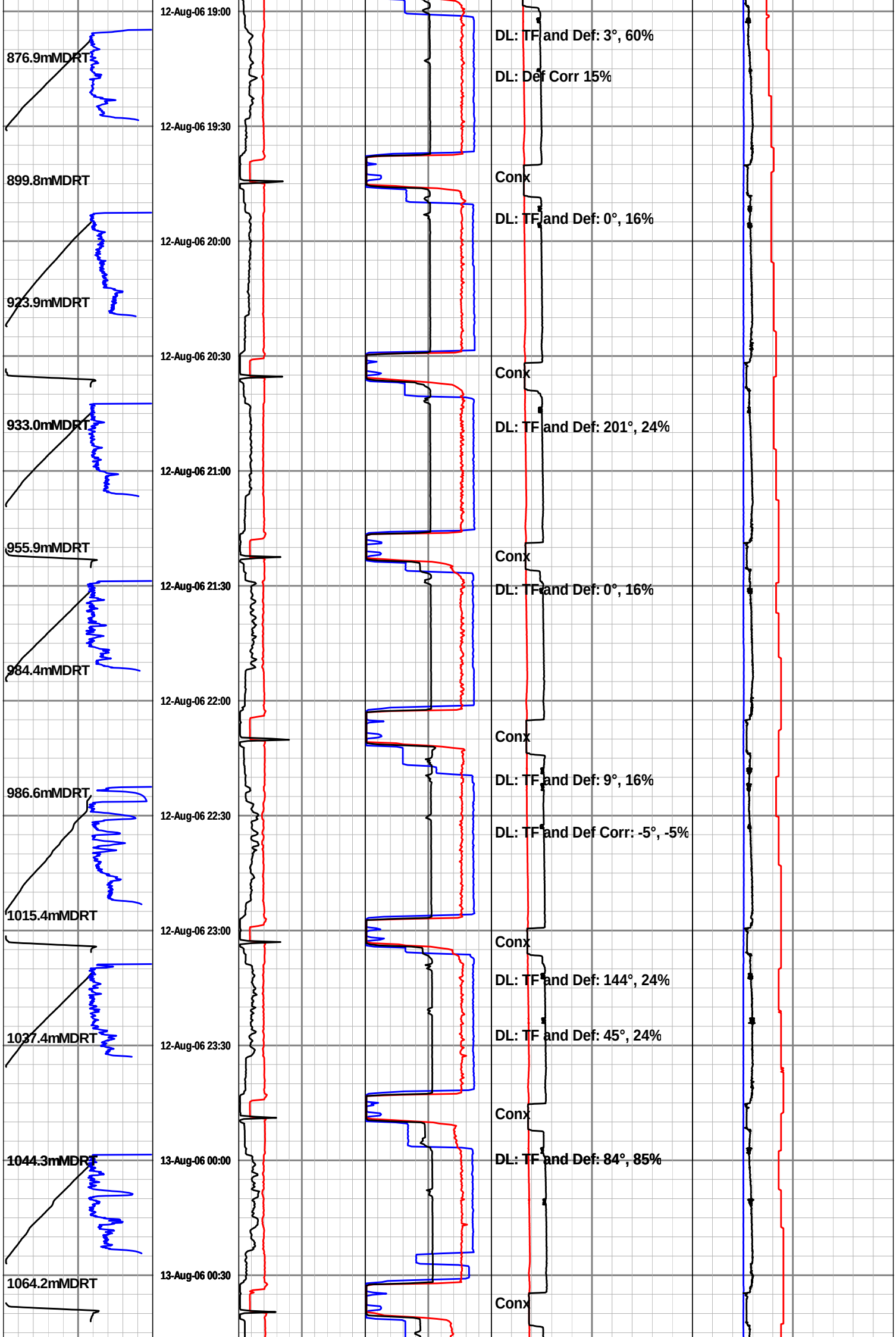
Run 0100 : 311 mm Hole Section
Drilled from 650 to 2751 mMDRT
00:00 hrs 12th Aug - 10:00 hrs 18th Aug 2006
SDL Data presented as supplied by Geoservices

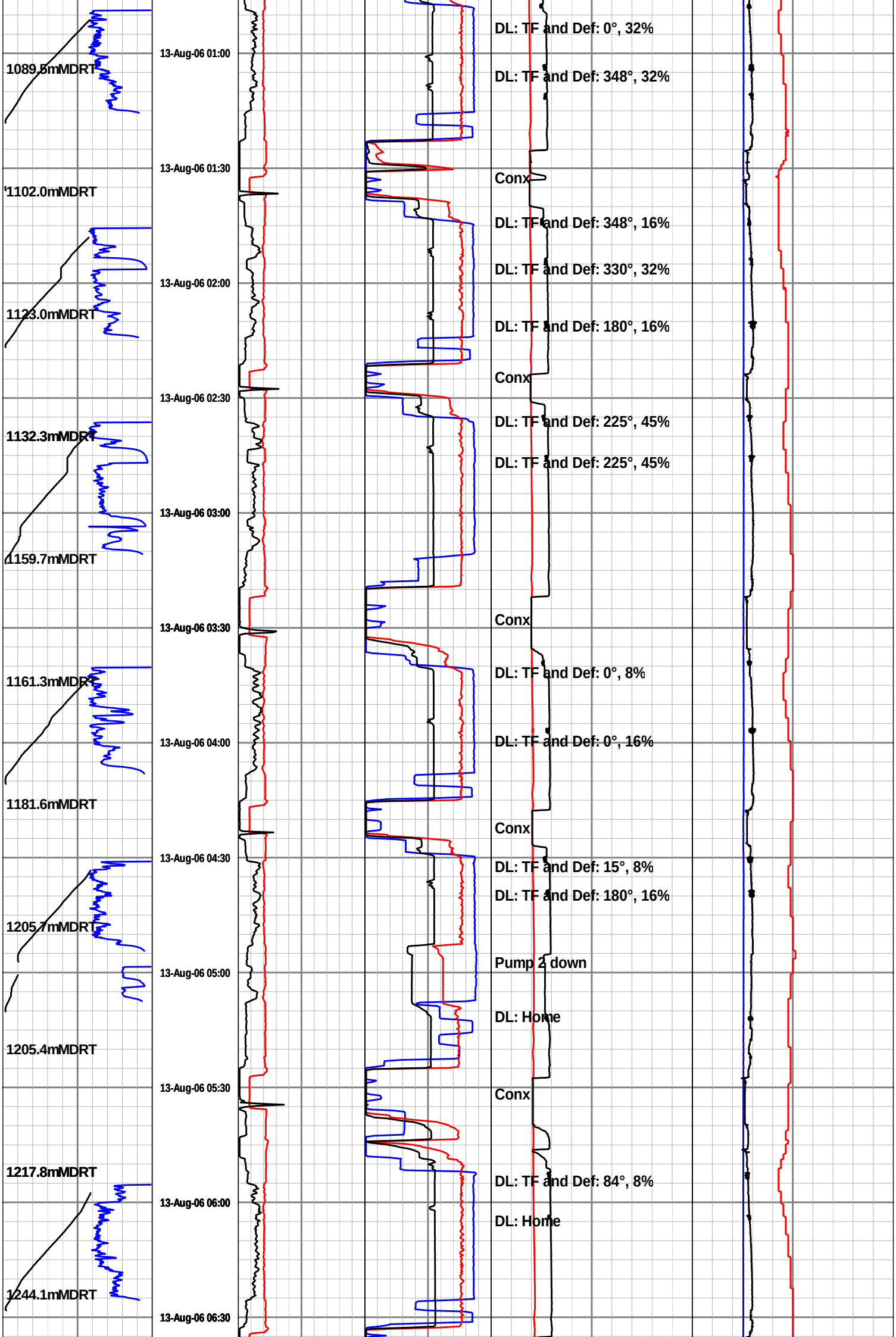


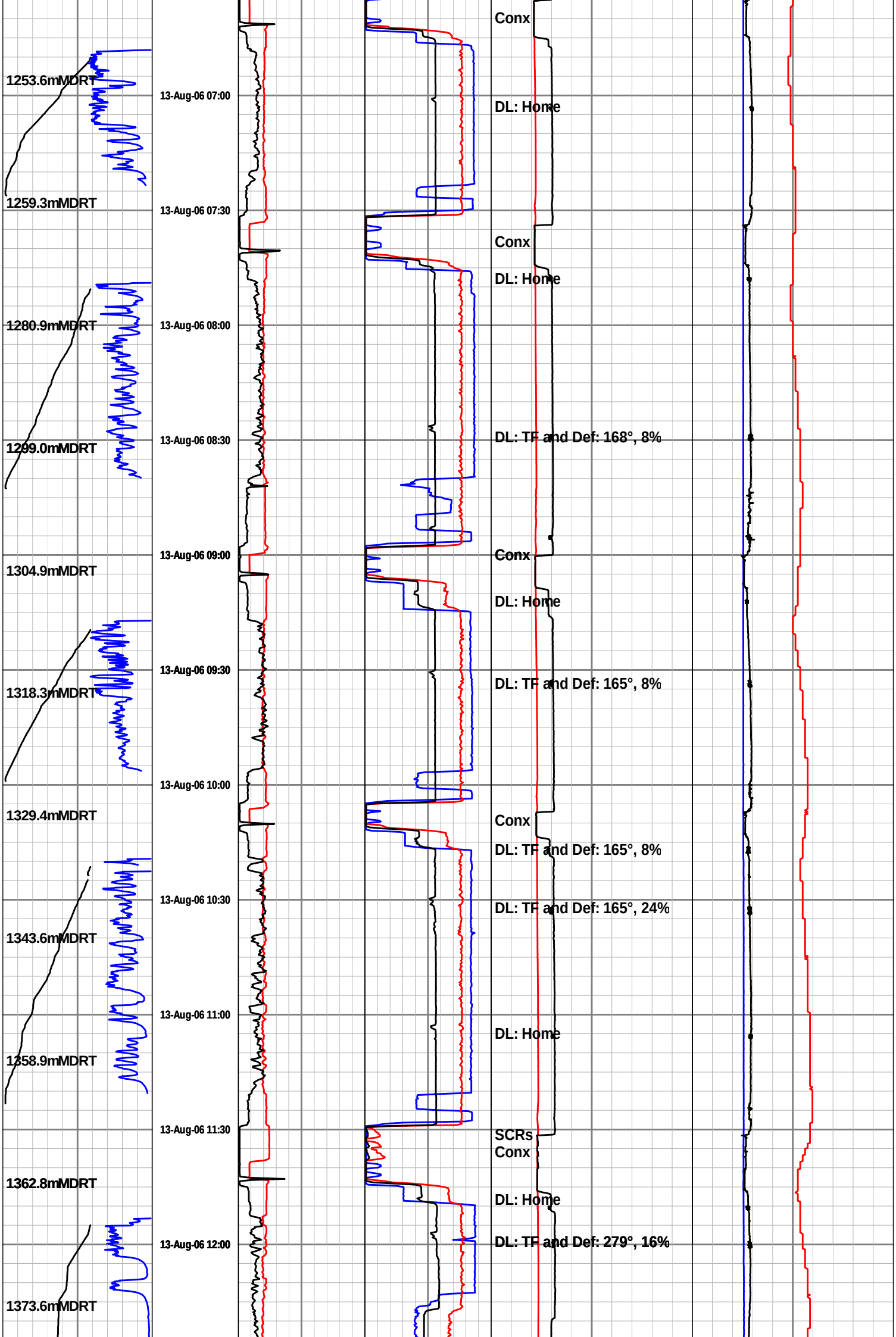

599.5mMDRT
597.6mMDRT
592.0mMDRT
597.2mMDRT
608.3mMDRT
610.3mMDRT
613.4mMDRT
627.9mMDRT
629.9mMDRT
635.7mMDRT
637.5mMDRT
12-Aug-06 01:30
12-Aug-06 02:00
12-Aug-06 02:30
12-Aug-06 03:00
12-Aug-06 03:30
12-Aug-06 04:00
12-Aug-06 04:30
12-Aug-06 05:00
12-Aug-06 05:30
12-Aug-06 06:00
12-Aug-06 06:30
12-Aug-06 07:00
Start to displace to SBM
DL: GP Home
SCR's

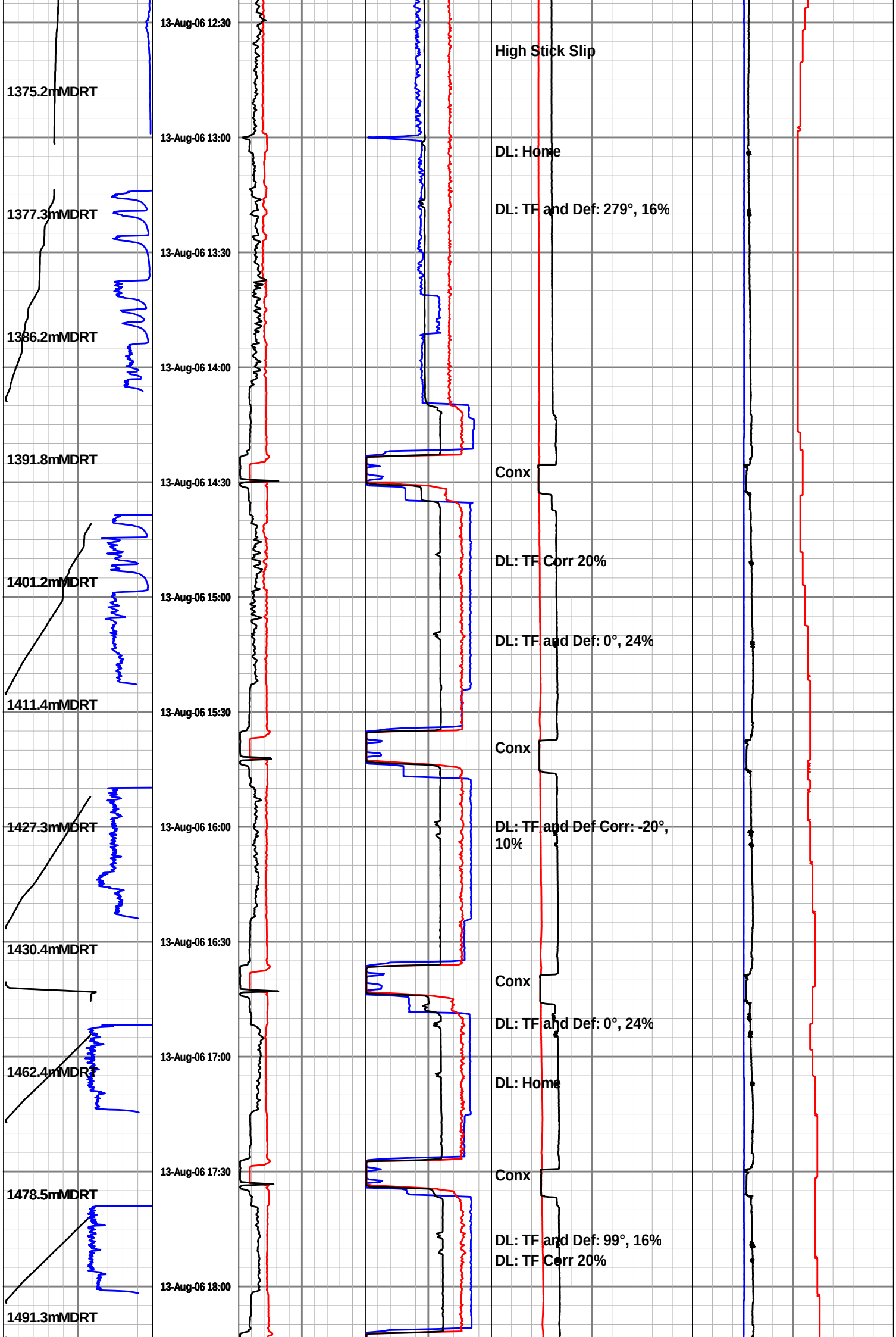

643.6mMDRT
649.0mMDRT
650.1mMDRT
652.6mMDRT
654.9mMDRT
660.2mMDRT
671.6mMDRT
693.3mMDRT
696.7mMDRT
714.8mMDRT
725.0mMDRT
12-Aug-06 07:30
12-Aug-06 08:00
12-Aug-06 08:30
12-Aug-06 09:00
12-Aug-06 09:30
12-Aug-06 10:00
12-Aug-06 10:30
12-Aug-06 11:00
12-Aug-06 11:30
12-Aug-06 12:00
12-Aug-06 12:30
12-Aug-06 13:00
DL: TF 90°, Def 95%
DL: TF 90°, Def 85%
Kick off THA04
DL: TF 75°, Def 85%
DL: TF 45°, Def 85%
Conx
DL: TF 0°, Def 50%
DL: TF 0°, Def 70%
DL: TF 0°, Def 85%
Conx
DL: TF 348°, Def 85%
DL: TF 342°, Def 85%
DL: TF 342°, Def 65%
DL: Def Corr 10%
DL: Def Corr 5%
Conx

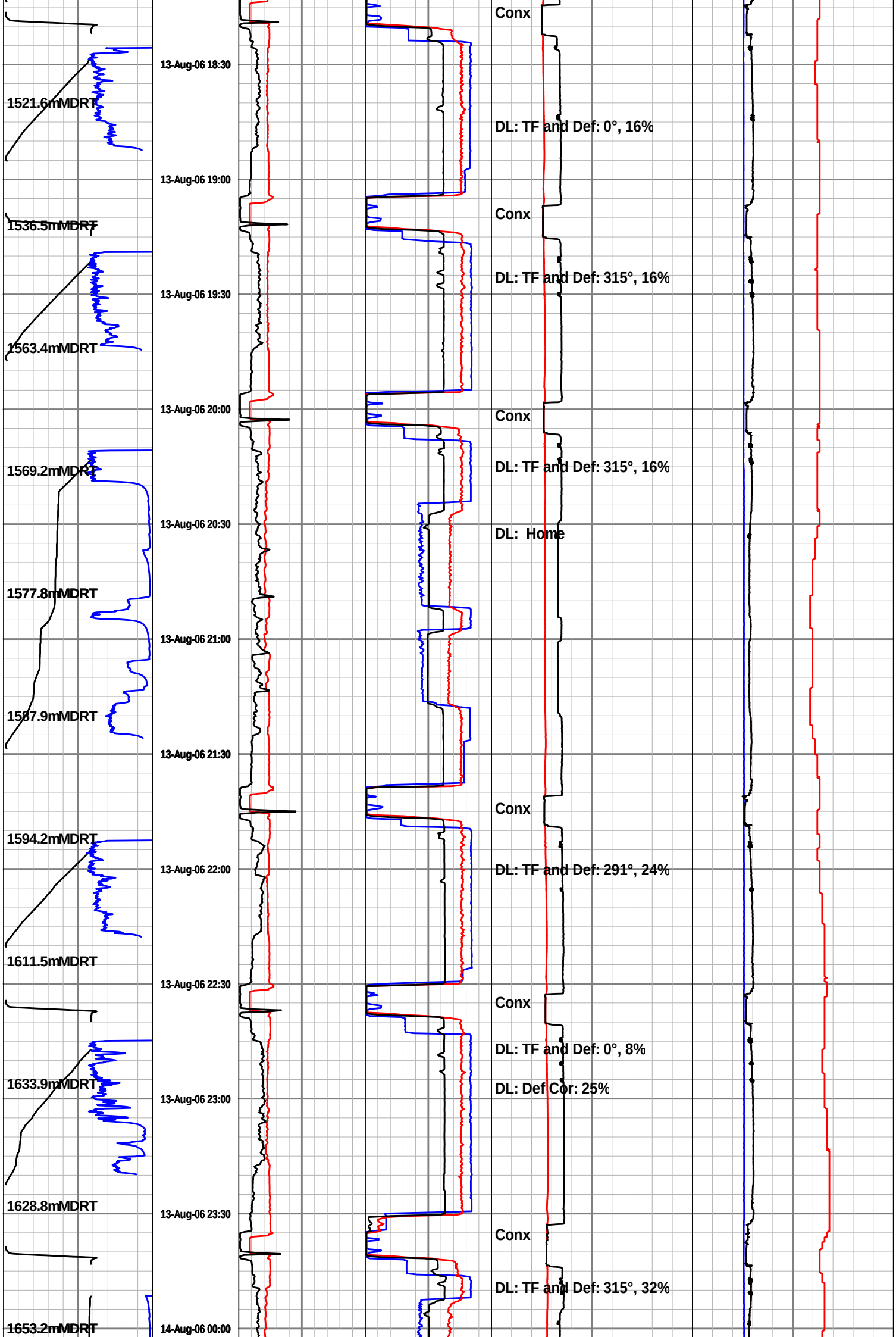

725.1mMDRT
740.8mMDRT
754.4mMDRT
767.3mMDRT
770.2mMDRT
789.5mMDRT
812.8mMDRT
812.5mMDRT
833.5mMDRT
841.9mMDRT
870.9mMDRT
12-Aug-06 13:30
12-Aug-06 14:00
12-Aug-06 14:30
12-Aug-06 15:00
12-Aug-06 15:30
12-Aug-06 16:00
12-Aug-06 16:30
12-Aug-06 17:00
12-Aug-06 17:30
12-Aug-06 18:00
12-Aug-06 18:30
DL: TF 300°, Def 85%
DL: TF Corr 20%
DL: Def Corr 15%
DL: TF 312°, Def 85%
Conx
DL: TF 0°, Def 75%
DL: TF 354°, Def 60%
Conx
DL: TF 345°, Def 45%
SCRs
Conx
DL: TF 345°, Def 65%
DL: TF and Def Corr: -15°, 10%
DL: Def Corr 10%
DL: Def Corr -20%
Conx
DL: TF 330°, Def 80%
DL: TF and Def Corr: 15°, -20%
Conx

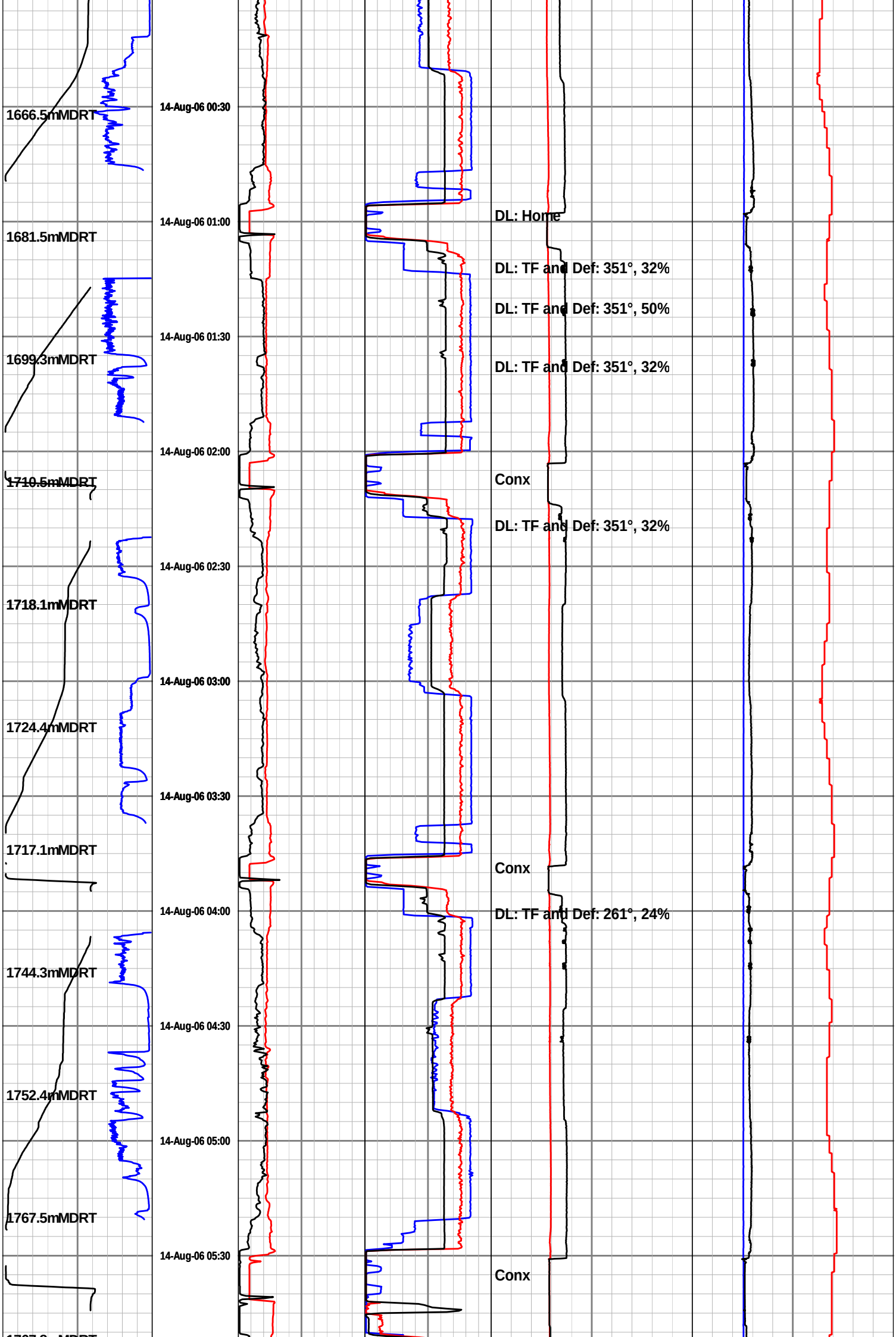

12-Aug-06 19:00
876.9mMDRT
DL: TF and Def: 3°, 60%
DL: Def Corr 15%
12-Aug-06 19:30
899.8mMDRT
Conx
DL: TF and Def: 0°, 16%
12-Aug-06 20:00
923.9mMDRT
12-Aug-06 20:30
Conx
933.0mMDRT
DL: TF and Def: 201°, 24%
12-Aug-06 21:00
955.9mMDRT
Conx
12-Aug-06 21:30
DL: TF and Def: 0°, 16%
984.4mMDRT
12-Aug-06 22:00
Conx
DL: TF and Def: 9°, 16%
986.6mMDRT
12-Aug-06 22:30
DL: TF and Def Corr: -5°, -5%
1015.4mMDRT
12-Aug-06 23:00
Conx
DL: TF and Def: 144°, 24%
1037.4mMDRT
DL: TF and Def: 45°, 24%
12-Aug-06 23:30
Conx
1044.3mMDRT
13-Aug-06 00:00
DL: TF and Def: 84°, 85%
1064.2mMDRT
13-Aug-06 00:30
Conx

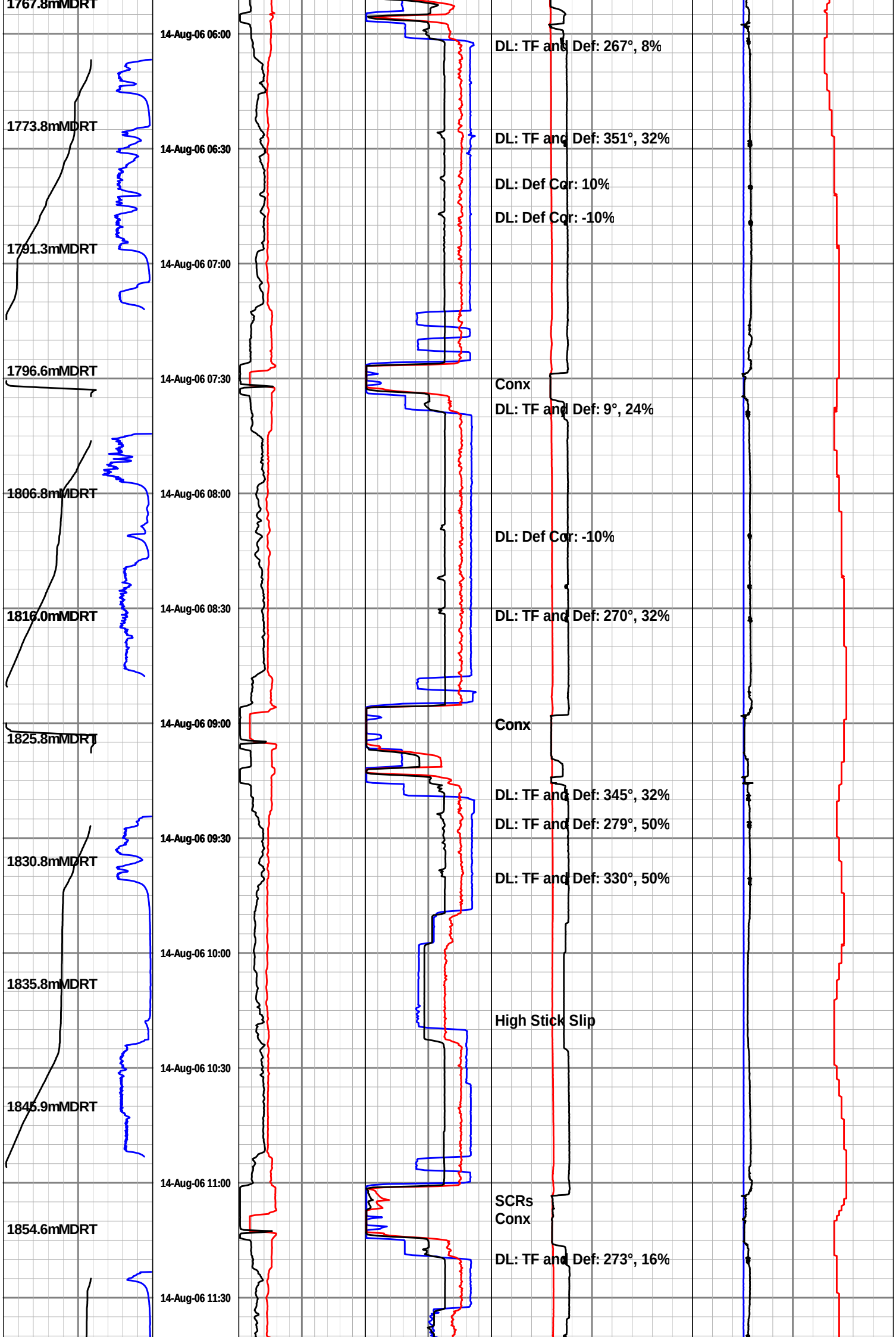

1089.5mMDRT
1102.0mMDRT
1123.0mMDRT
1132.3mMDRT
1159.7mMDRT
1161.3mMDRT
1181.6mMDRT
1205.7mMDRT
1205.4mMDRT
1217.8mMDRT
1244.1mMDRT
13-Aug-06 01:00
13-Aug-06 01:30
13-Aug-06 02:00
13-Aug-06 02:30
13-Aug-06 03:00
13-Aug-06 03:30
13-Aug-06 04:00
13-Aug-06 04:30
13-Aug-06 05:00
13-Aug-06 05:30
13-Aug-06 06:00
13-Aug-06 06:30
DL: TF and Def: 0°, 32%
DL: TF and Def: 348°, 32%
Conx
DL: TF and Def: 348°, 16%
DL: TF and Def: 330°, 32%
DL: TF and Def: 180°, 16%
Conx
DL: TF and Def: 225°, 45%
DL: TF and Def: 225°, 45%
Conx
DL: TF and Def: 0°, 8%
DL: TF and Def: 0°, 16%
Conx
DL: TF and Def: 15°, 8%
DL: TF and Def: 180°, 16%
Pump 2 down
DL: Home
Conx
DL: TF and Def: 84°, 8%
DL: Home

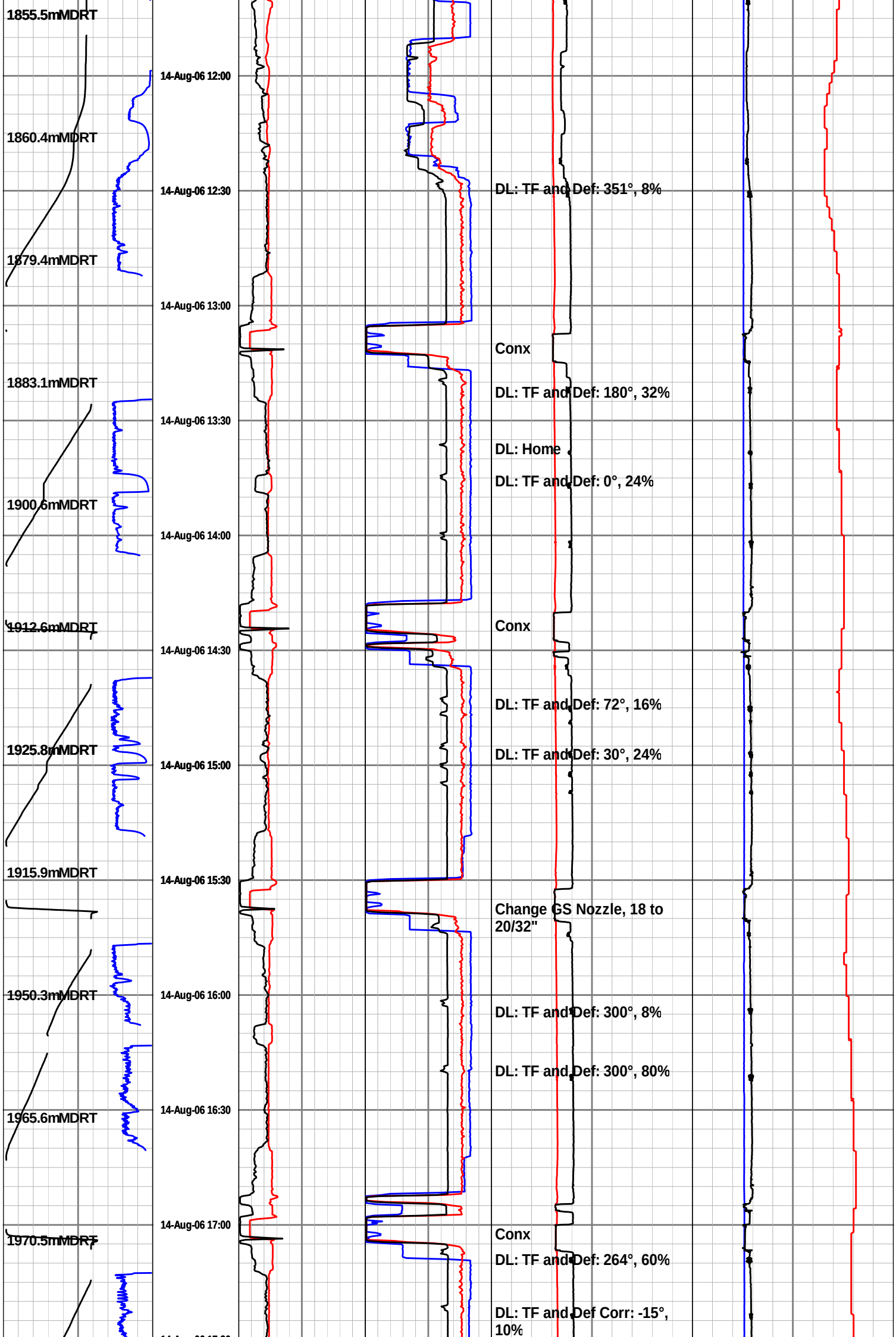

1253.6mMDRT
1259.3mMDRT
1280.9mMDRT
1299.0mMDRT
1304.9mMDRT
1318.3mMDRT
1329.4mMDRT
1343.6mMDRT
1358.9mMDRT
1362.8mMDRT
1373.6mMDRT
13-Aug-06 07:00
13-Aug-06 07:30
13-Aug-06 08:00
13-Aug-06 08:30
13-Aug-06 09:00
13-Aug-06 09:30
13-Aug-06 10:00
13-Aug-06 10:30
13-Aug-06 11:00
13-Aug-06 11:30
13-Aug-06 12:00
Conx
DL: Home
Conx
DL: Home
DL: TF and Def: 168°, 8%
Conx
DL: Home
DL: TF and Def: 165°, 8%
Conx
DL: TF and Def: 165°, 8%
DL: TF and Def: 165°, 24%
DL: Home
SCRs
Conx
DL: Home
DL: TF and Def: 279°, 16%

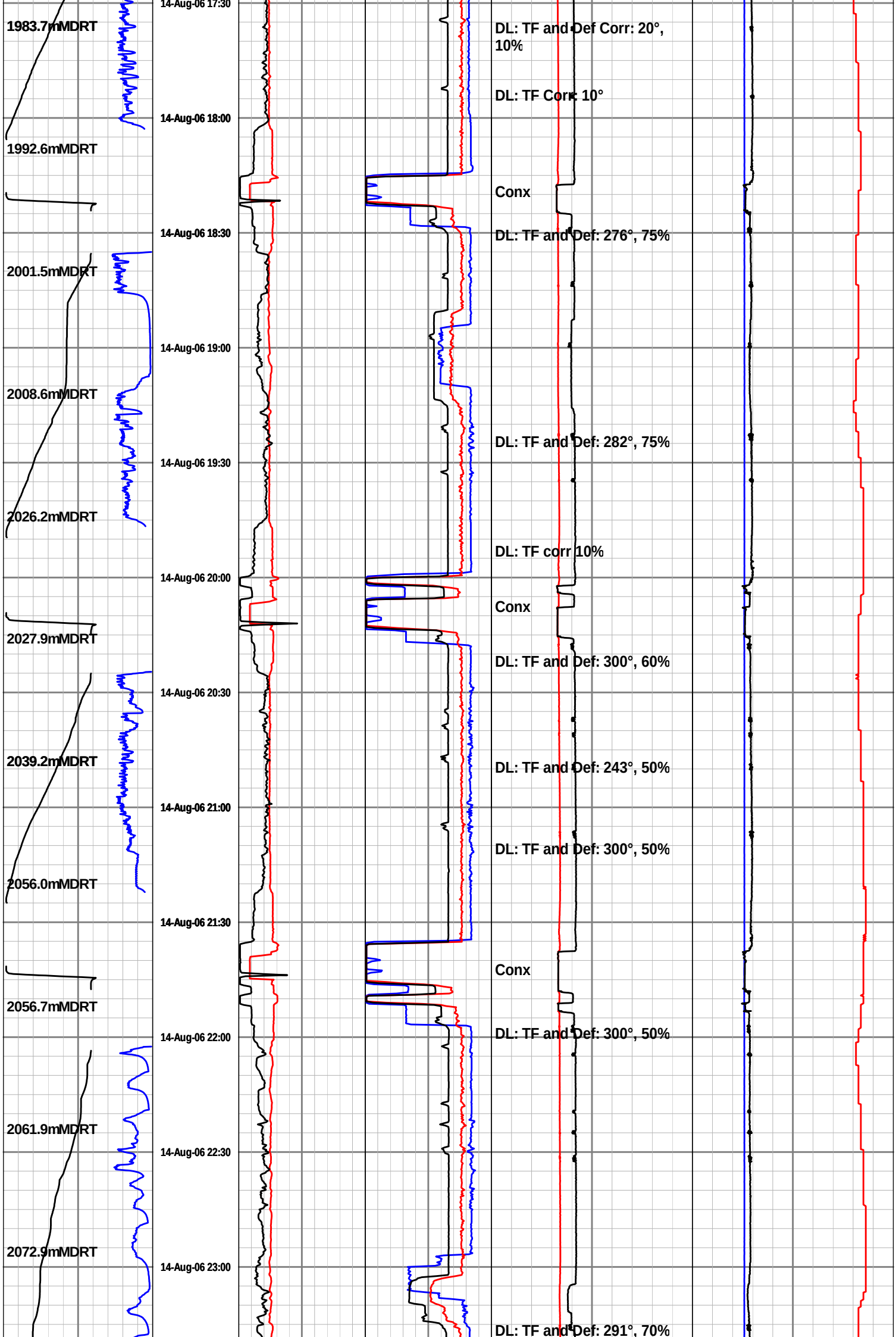

13-Aug-06 12:30
High Stick Slip
1375.2mMDRT
13-Aug-06 13:00
DL: Home
1377.3mMDRT
DL: TF and Def: 279°, 16%
13-Aug-06 13:30
1386.2mMDRT
13-Aug-06 14:00
1391.8mMDRT
Conx
13-Aug-06 14:30
DL: TF Corr 20%
1401.2mMDRT
13-Aug-06 15:00
DL: TF and Def: 0°, 24%
1411.4mMDRT
13-Aug-06 15:30
Conx
1427.3mMDRT
13-Aug-06 16:00
DL: TF and Def Corr: -20°, 10%
1430.4mMDRT
13-Aug-06 16:30
Conx
DL: TF and Def: 0°, 24%
13-Aug-06 17:00
1462.4mMDRT
DL: Home
13-Aug-06 17:30
Conx
1478.5mMDRT
DL: TF and Def: 99°, 16%
DL: TF Corr 20%
13-Aug-06 18:00
1491.3mMDRT

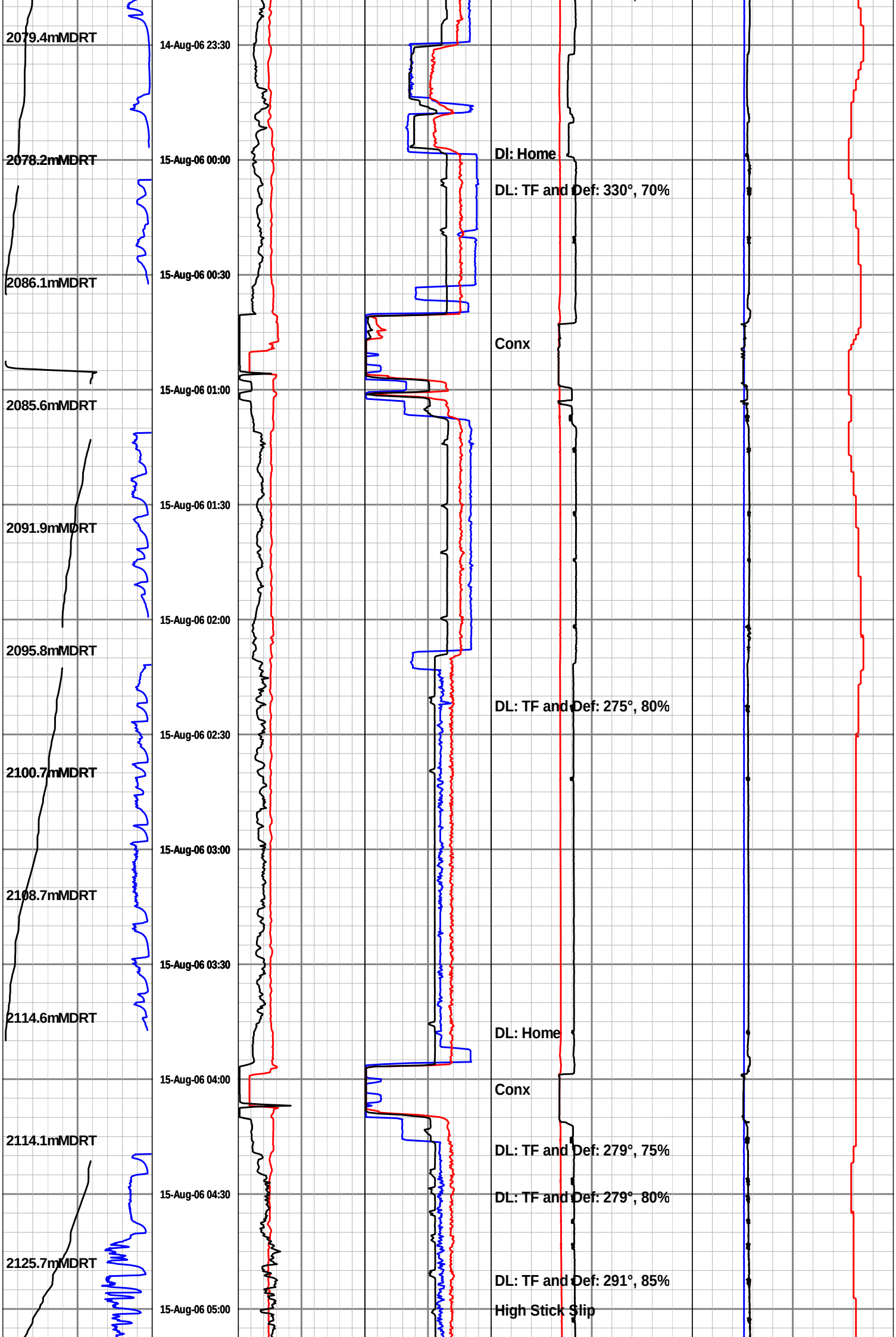

Conx
13-Aug-06 18:30
1521.6mMDRT
DL: TF and Def: 0°, 16%
13-Aug-06 19:00
Conx
1536.5mMDRT
DL: TF and Def: 315°, 16%
13-Aug-06 19:30
1563.4mMDRT
13-Aug-06 20:00
Conx
1569.2mMDRT
DL: TF and Def: 315°, 16%
13-Aug-06 20:30
DL: Home
1577.8mMDRT
13-Aug-06 21:00
1587.9mMDRT
13-Aug-06 21:30
Conx
1594.2mMDRT
13-Aug-06 22:00
DL: TF and Def: 291°, 24%
1611.5mMDRT
13-Aug-06 22:30
Conx
DL: TF and Def: 0°, 8%
1633.9mMDRT
DL: Def Cor: 25%
13-Aug-06 23:00
1628.8mMDRT
13-Aug-06 23:30
Conx
DL: TF and Def: 315°, 32%
1653.2mMDRT
14-Aug-06 00:00

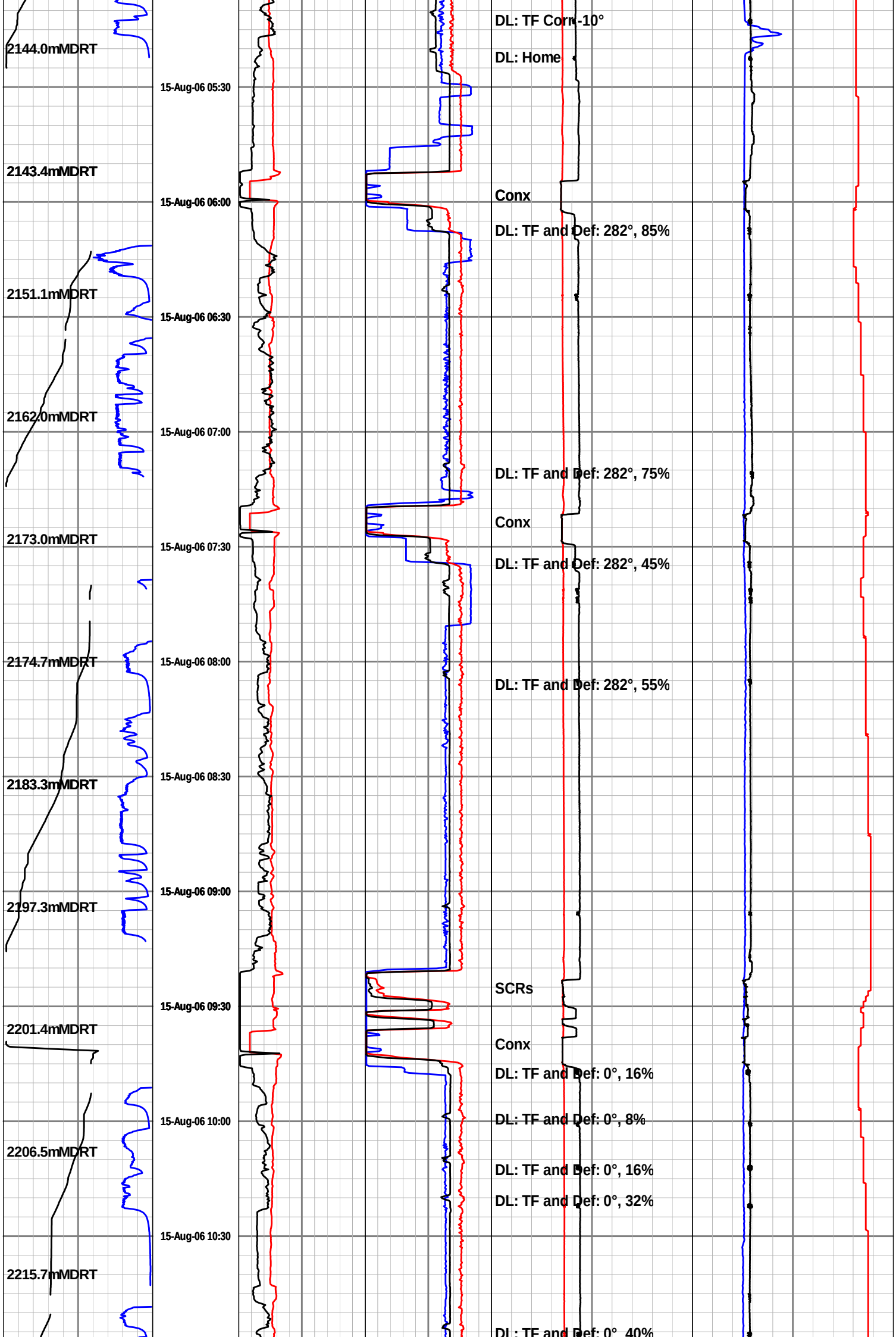

1666.5mMDRT
1681.5mMDRT
1699.3mMDRT
1710.5mMDRT
1718.1mMDRT
1724.4mMDRT
1717.1mMDRT
1744.3mMDRT
1752.4mMDRT
1767.5mMDRT
14-Aug-06 00:30
14-Aug-06 01:00
14-Aug-06 01:30
14-Aug-06 02:00
14-Aug-06 02:30
14-Aug-06 03:00
14-Aug-06 03:30
14-Aug-06 04:00
14-Aug-06 04:30
14-Aug-06 05:00
14-Aug-06 05:30
DL: Home
DL: TF and Def: 351°, 32%
DL: TF and Def: 351°, 50%
DL: TF and Def: 351°, 32%
Conx
DL: TF and Def: 351°, 32%
Conx
DL: TF and Def: 261°, 24%
Conx

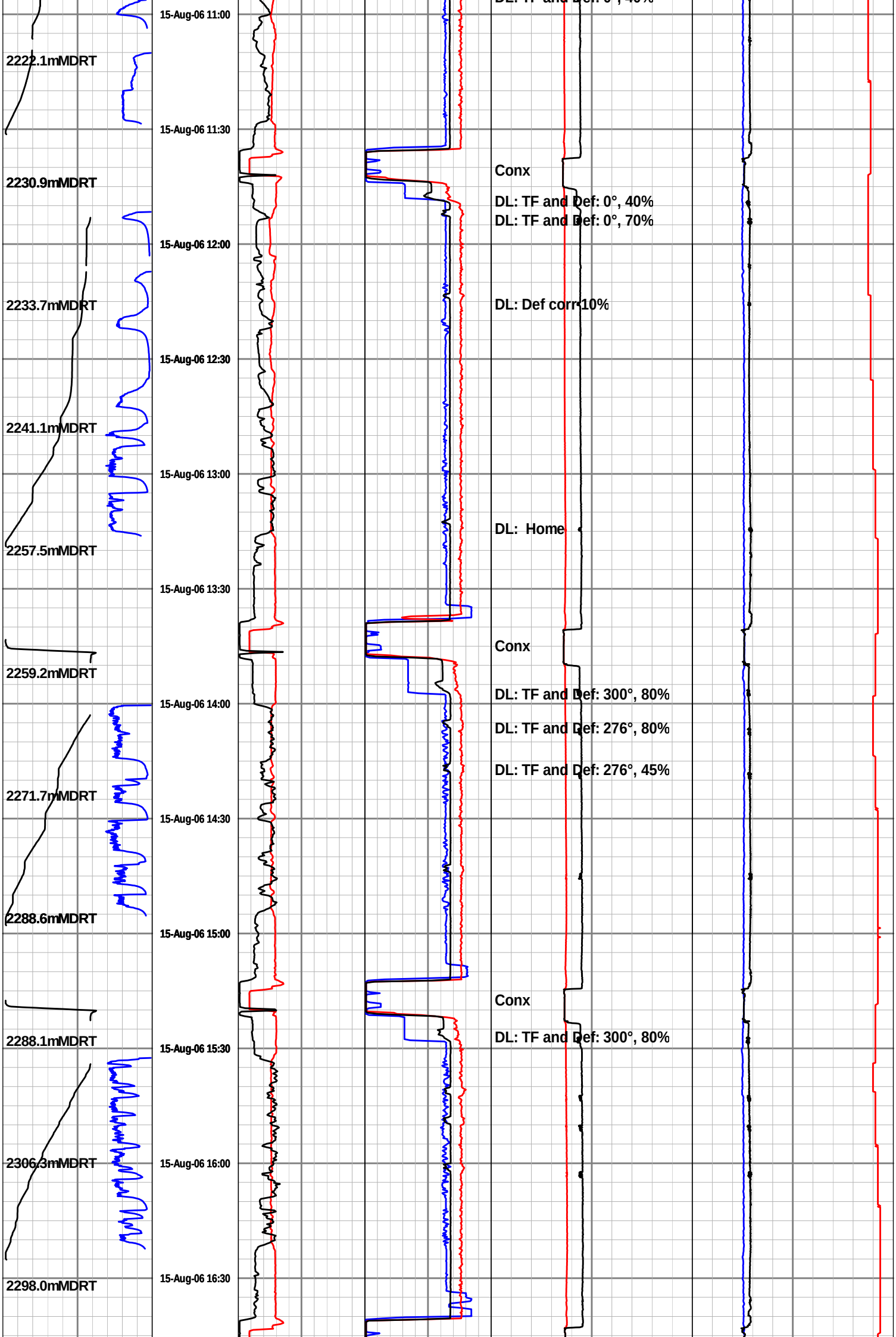

1767.8mMDRT
14-Aug-06 06:00
DL: TF and Def: 267°, 8%
1773.8mMDRT
DL: TF and Def: 351°, 32%
14-Aug-06 06:30
DL: Def Cor: 10%
DL: Def Cor: -10%
1791.3mMDRT
14-Aug-06 07:00
1796.6mMDRT
14-Aug-06 07:30
Conx
DL: TF and Def: 9°, 24%
1806.8mMDRT
14-Aug-06 08:00
DL: Def Cor: -10%
1816.0mMDRT
14-Aug-06 08:30
DL: TF and Def: 270°, 32%
14-Aug-06 09:00
Conx
1825.8mMDRT
DL: TF and Def: 345°, 32%
DL: TF and Def: 279°, 50%
14-Aug-06 09:30
1830.8mMDRT
DL: TF and Def: 330°, 50%
14-Aug-06 10:00
1835.8mMDRT
High Stick Slip
14-Aug-06 10:30
1845.9mMDRT
14-Aug-06 11:00
SCRs
Conx
1854.6mMDRT
DL: TF and Def: 273°, 16%
14-Aug-06 11:30

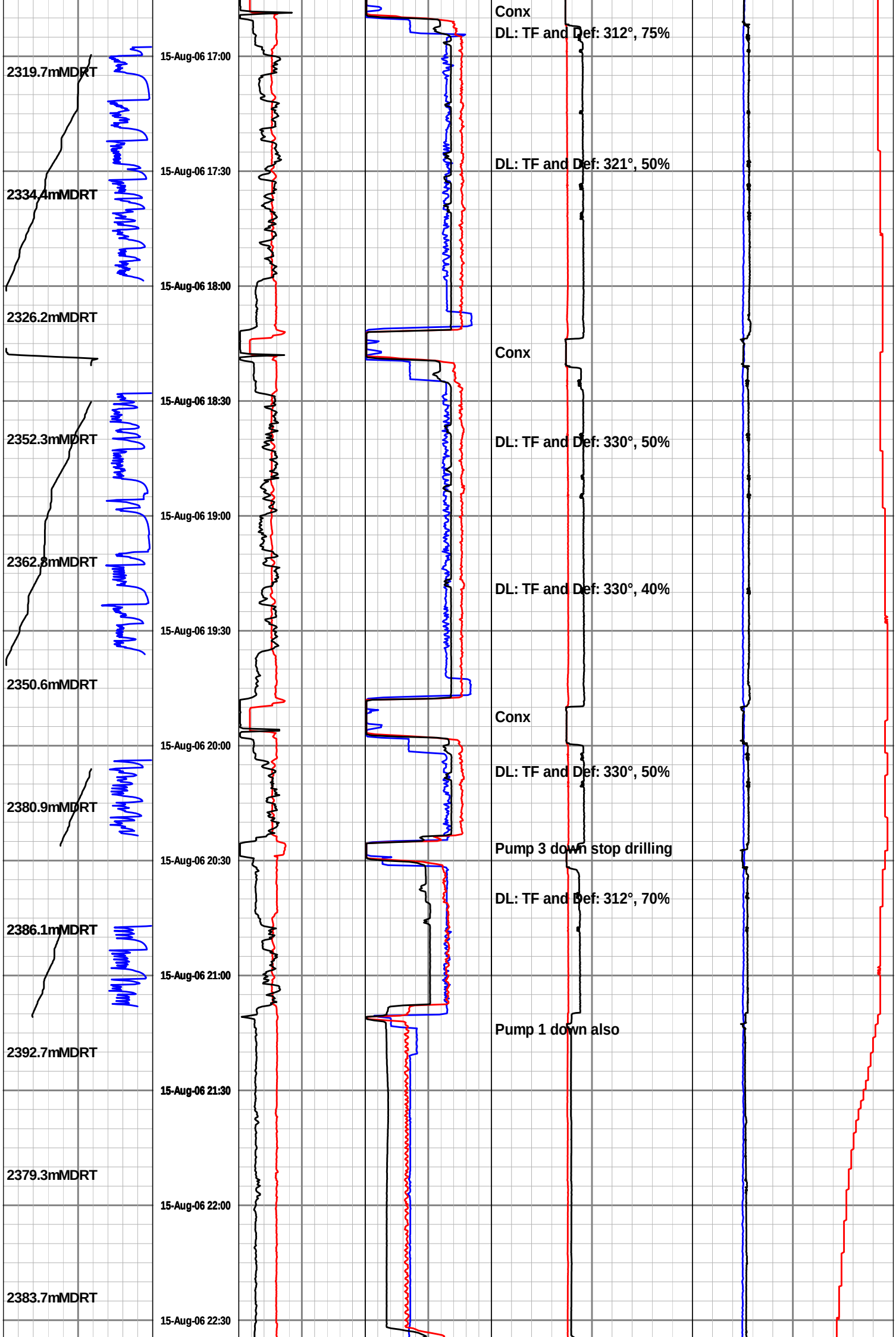

1855.5mMDRT
14-Aug-06 12:00
1860.4mMDRT
14-Aug-06 12:30
DL: TF and Def: 351°, 8%
1879.4mMDRT
14-Aug-06 13:00
Conx
1883.1mMDRT
DL: TF and Def: 180°, 32%
14-Aug-06 13:30
DL: Home
DL: TF and Def: 0°, 24%
1900.6mMDRT
14-Aug-06 14:00
1912.6mMDRT
Conx
14-Aug-06 14:30
DL: TF and Def: 72°, 16%
1925.8mMDRT
DL: TF and Def: 30°, 24%
14-Aug-06 15:00
1915.9mMDRT
14-Aug-06 15:30
Change GS Nozzle, 18 to 20/32"
1950.3mMDRT
14-Aug-06 16:00
DL: TF and Def: 300°, 8%
DL: TF and Def: 300°, 80%
1965.6mMDRT
14-Aug-06 16:30
14-Aug-06 17:00
Conx
1970.5mMDRT
DL: TF and Def: 264°, 60%
DL: TF and Def Corr: -15°, 10%

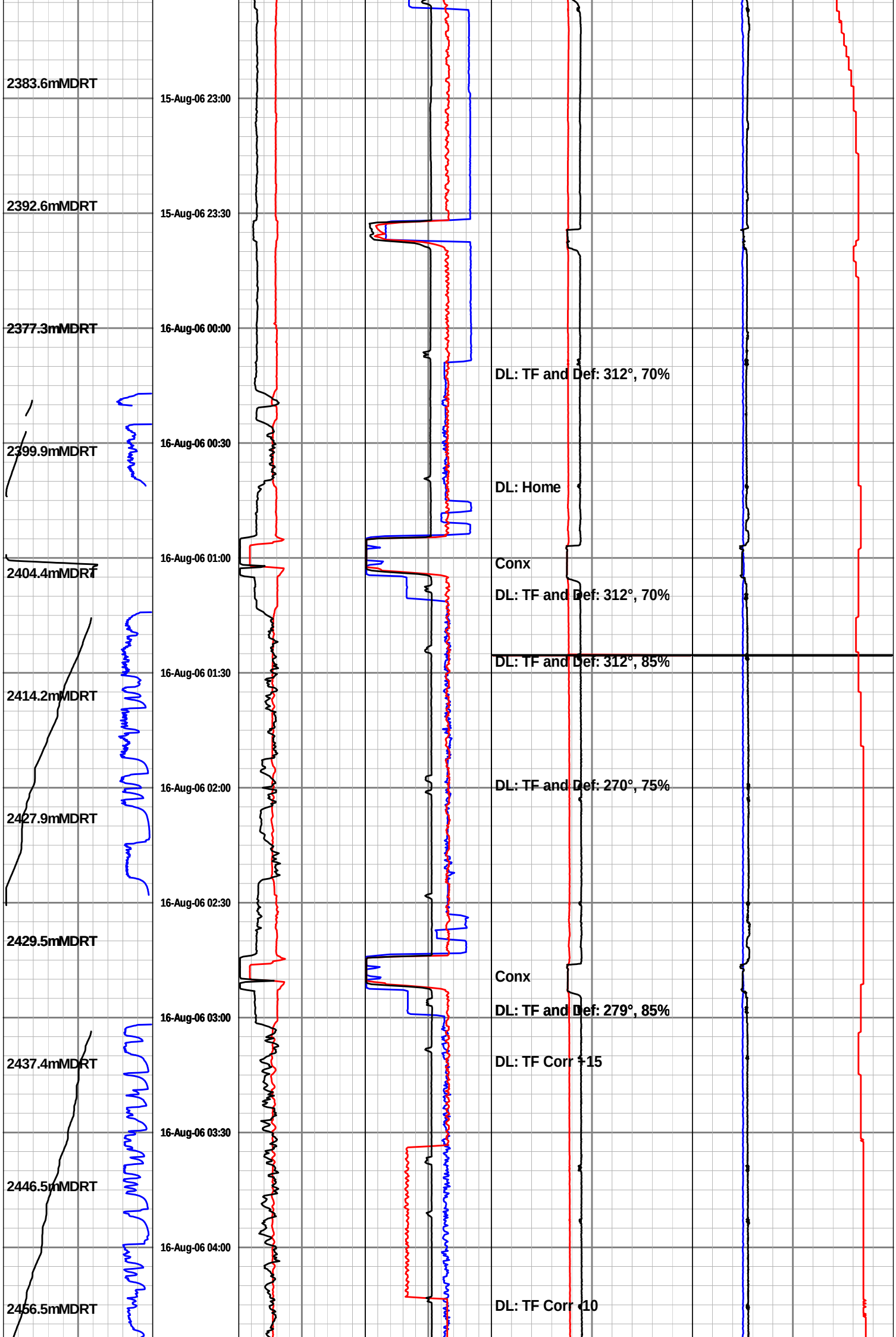

1983.7mMDRT
1992.6mMDRT
2001.5mMDRT
2008.6mMDRT
2026.2mMDRT
2027.9mMDRT
2039.2mMDRT
2056.0mMDRT
2056.7mMDRT
2061.9mMDRT
2072.9mMDRT
14-Aug-06 17:30
14-Aug-06 18:00
14-Aug-06 18:30
14-Aug-06 19:00
14-Aug-06 19:30
14-Aug-06 20:00
14-Aug-06 20:30
14-Aug-06 21:00
14-Aug-06 21:30
14-Aug-06 22:00
14-Aug-06 22:30
14-Aug-06 23:00
DL: TF and Def Corr: 20°, 10%
DL: TF Corr: 10°
Conx
DL: TF and Def: 276°, 75%
DL: TF and Def: 282°, 75%
DL: TF corr 10%
Conx
DL: TF and Def: 300°, 60%
DL: TF and Def: 243°, 50%
DL: TF and Def: 300°, 50%
Conx
DL: TF and Def: 300°, 50%
DL: TF and Def: 291°, 70%

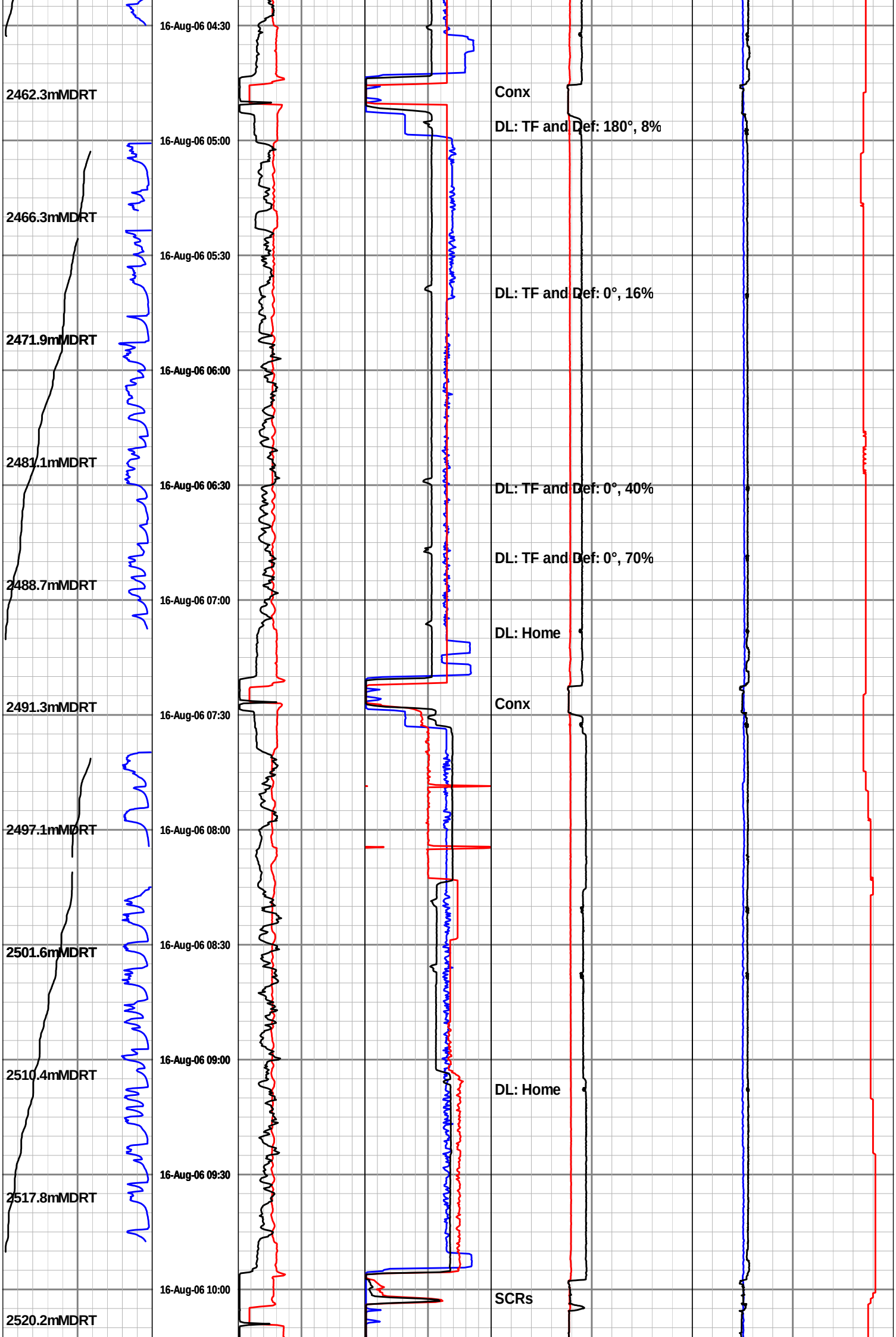

2079.4mMDRT
2078.2mMDRT
2086.1mMDRT
2085.6mMDRT
2091.9mMDRT
2095.8mMDRT
2100.7mMDRT
2108.7mMDRT
2114.6mMDRT
2114.1mMDRT
2125.7mMDRT
14-Aug-06 23:30
15-Aug-06 00:00
15-Aug-06 00:30
15-Aug-06 01:00
15-Aug-06 01:30
15-Aug-06 02:00
15-Aug-06 02:30
15-Aug-06 03:00
15-Aug-06 03:30
15-Aug-06 04:00
15-Aug-06 04:30
15-Aug-06 05:00
Dl: Home
DL: TF and Def: 330°, 70%
Conx
DL: TF and Def: 275°, 80%
DL: Home
Conx
DL: TF and Def: 279°, 75%
DL: TF and Def: 279°, 80%
DL: TF and Def: 291°, 85%
High Stick Slip

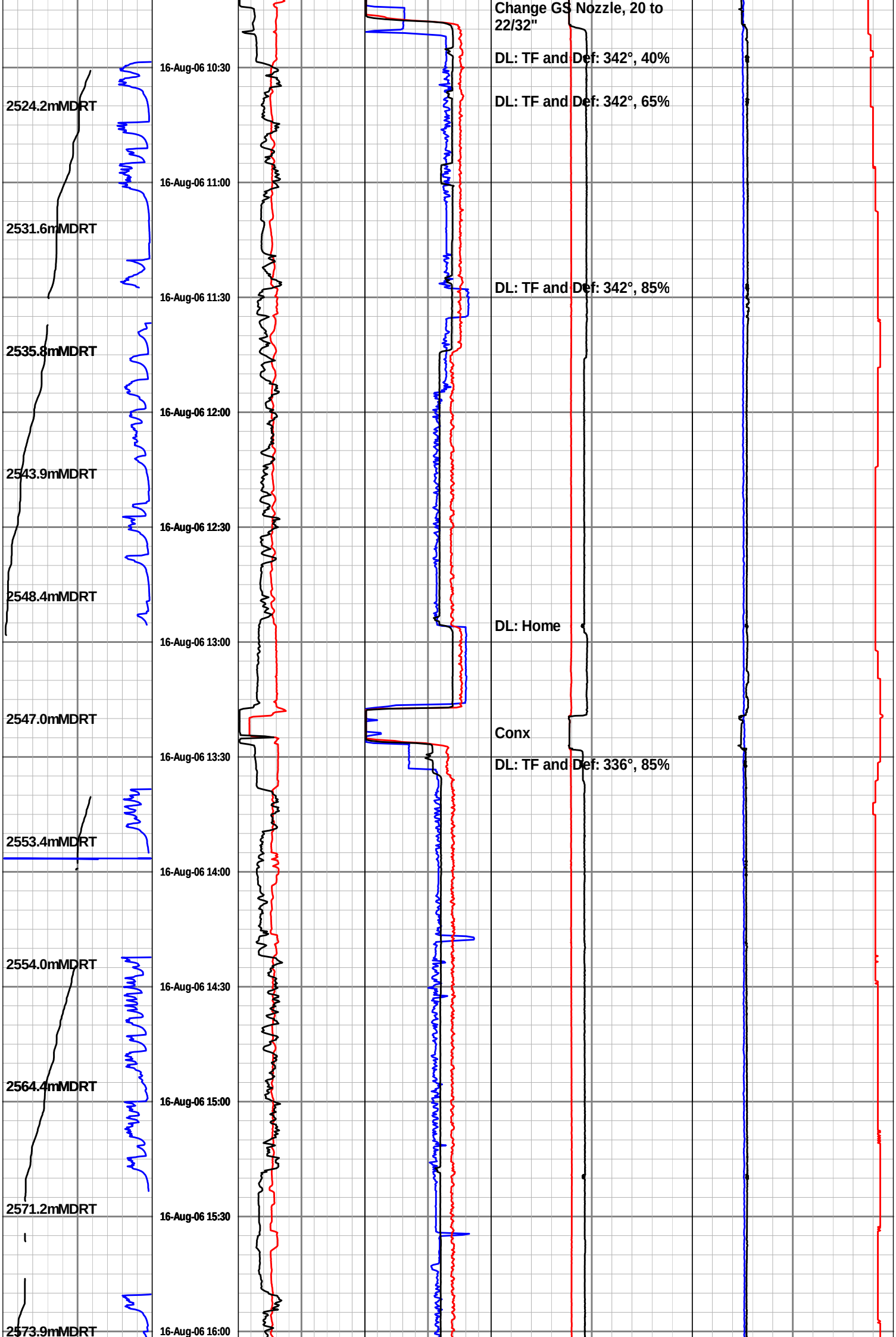

2144.0mMDRT
2143.4mMDRT
2151.1mMDRT
2162.0mMDRT
2173.0mMDRT
2174.7mMDRT
2183.3mMDRT
2197.3mMDRT
2201.4mMDRT
2206.5mMDRT
2215.7mMDRT
15-Aug-06 05:30
15-Aug-06 06:00
15-Aug-06 06:30
15-Aug-06 07:00
15-Aug-06 07:30
15-Aug-06 08:00
15-Aug-06 08:30
15-Aug-06 09:00
15-Aug-06 09:30
15-Aug-06 10:00
15-Aug-06 10:30
DL: TF Corr -10°
DL: Home
Conx
DL: TF and Def: 282°, 85%
DL: TF and Def: 282°, 75%
Conx
DL: TF and Def: 282°, 45%
DL: TF and Def: 282°, 55%
SCRs
Conx
DL: TF and Def: 0°, 16%
DL: TF and Def: 0°, 8%
DL: TF and Def: 0°, 16%
DL: TF and Def: 0°, 32%
DL: TF and Def: 0°, 40%

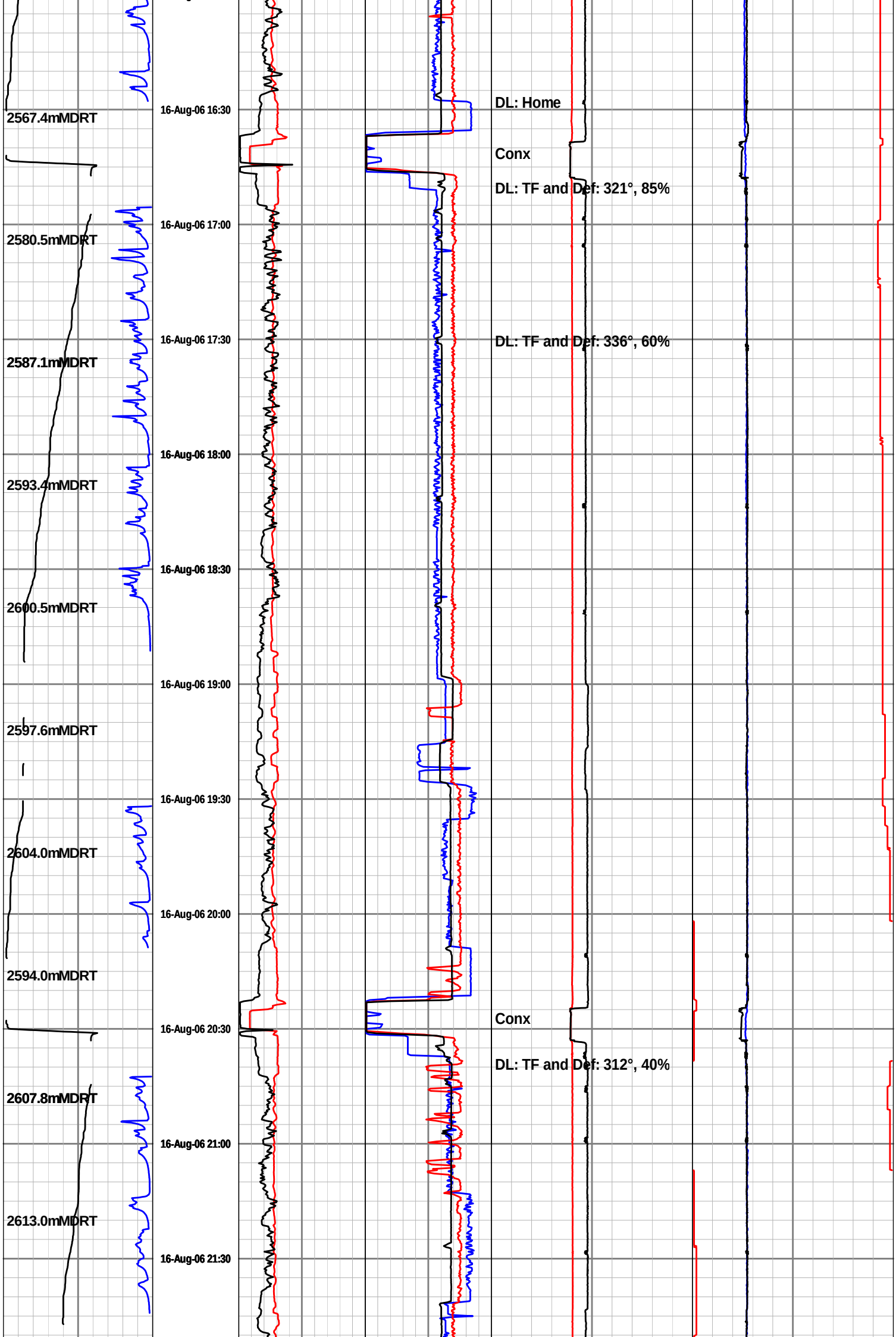

2222.1mMDRT
2230.9mMDRT
2233.7mMDRT
2241.1mMDRT
2257.5mMDRT
2259.2mMDRT
2271.7mMDRT
2288.6mMDRT
2288.1mMDRT
2306.3mMDRT
2298.0mMDRT
15-Aug-06 11:00
15-Aug-06 11:30
15-Aug-06 12:00
15-Aug-06 12:30
15-Aug-06 13:00
15-Aug-06 13:30
15-Aug-06 14:00
15-Aug-06 14:30
15-Aug-06 15:00
15-Aug-06 15:30
15-Aug-06 16:00
15-Aug-06 16:30
Conx
DL: TF and Def: 0°, 40%
DL: TF and Def: 0°, 70%
DL: Def corr 10%
DL: Home
Conx
DL: TF and Def: 300°, 80%
DL: TF and Def: 276°, 80%
DL: TF and Def: 276°, 45%
Conx
DL: TF and Def: 300°, 80%

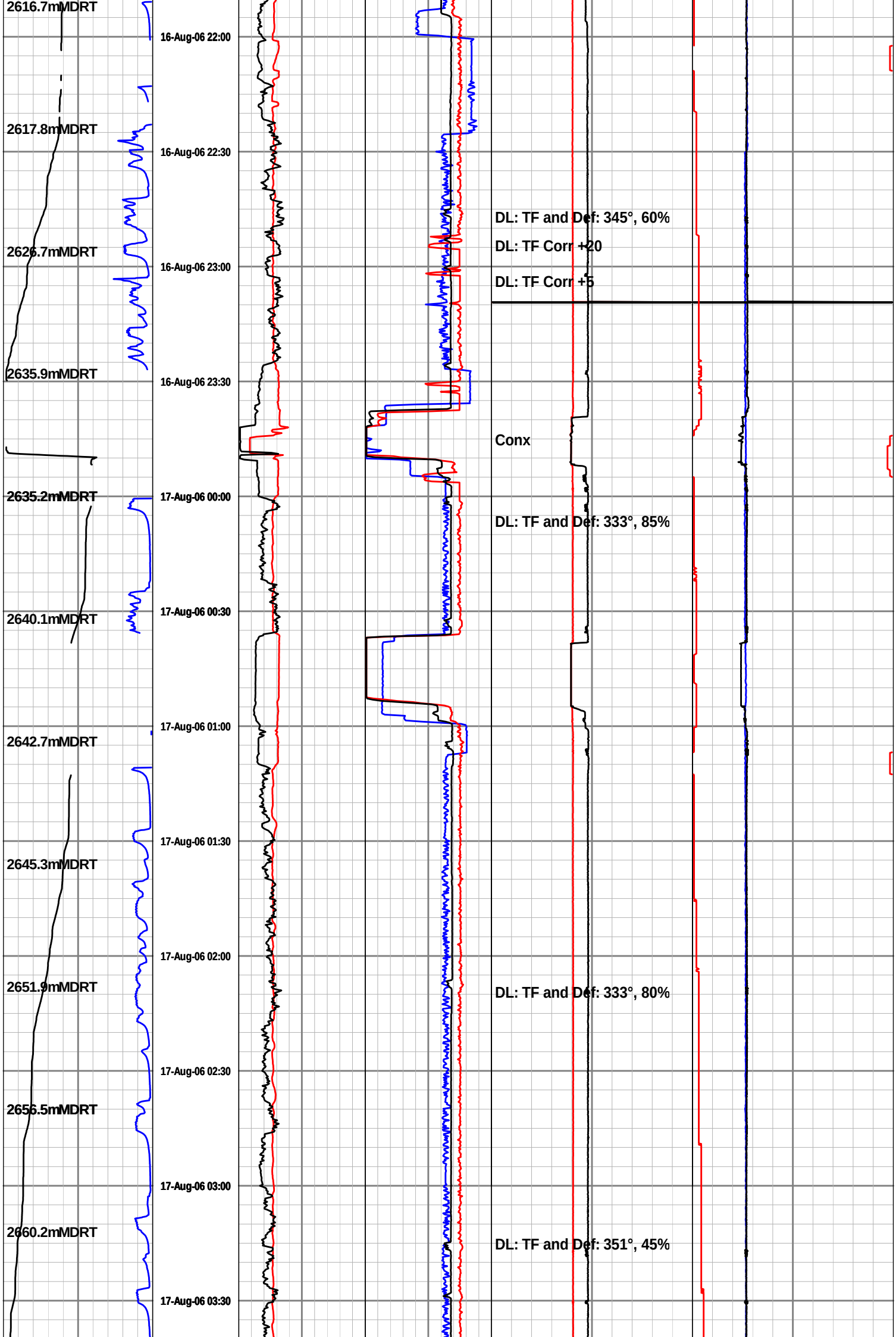

Conx
DL: TF and Def: 312°, 75%
2319.7mMDRT
15-Aug-06 17:00
DL: TF and Def: 321°, 50%
2334.4mMDRT
15-Aug-06 17:30
15-Aug-06 18:00
2326.2mMDRT
Conx
15-Aug-06 18:30
2352.3mMDRT
DL: TF and Def: 330°, 50%
15-Aug-06 19:00
2362.8mMDRT
DL: TF and Def: 330°, 40%
15-Aug-06 19:30
2350.6mMDRT
Conx
15-Aug-06 20:00
DL: TF and Def: 330°, 50%
2380.9mMDRT
Pump 3 down stop drilling
15-Aug-06 20:30
DL: TF and Def: 312°, 70%
2386.1mMDRT
15-Aug-06 21:00
Pump 1 down also
2392.7mMDRT
15-Aug-06 21:30
2379.3mMDRT
15-Aug-06 22:00
2383.7mMDRT
15-Aug-06 22:30

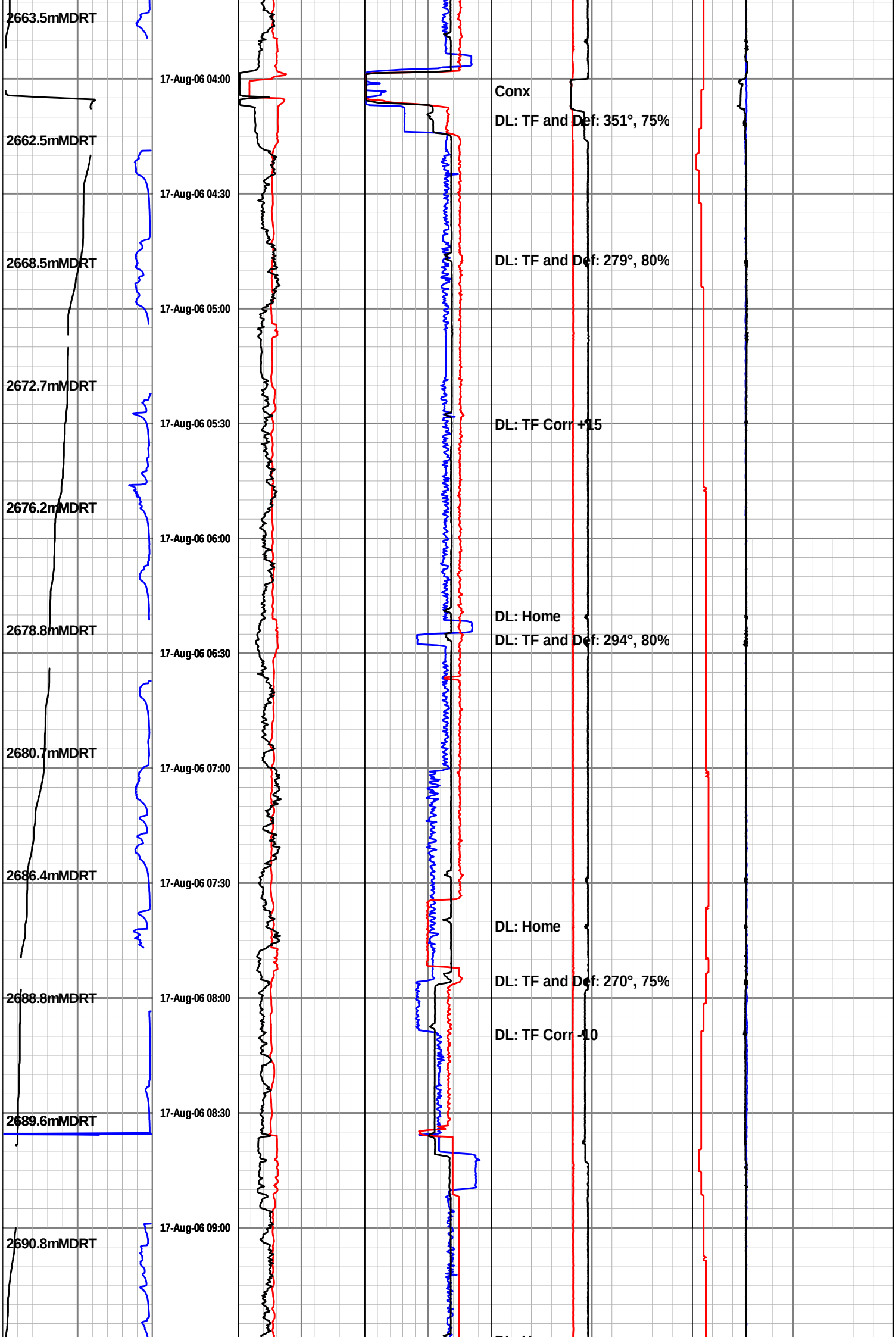

2383.6mMDRT
15-Aug-06 23:00
2392.6mMDRT
15-Aug-06 23:30
2377.3mMDRT
16-Aug-06 00:00
DL: TF and Def: 312°, 70%
2399.9mMDRT
16-Aug-06 00:30
DL: Home
16-Aug-06 01:00
2404.4mMDRT
Conx
DL: TF and Def: 312°, 70%
DL: TF and Def: 312°, 85%
16-Aug-06 01:30
2414.2mMDRT
16-Aug-06 02:00
DL: TF and Def: 270°, 75%
2427.9mMDRT
16-Aug-06 02:30
2429.5mMDRT
Conx
DL: TF and Def: 279°, 85%
16-Aug-06 03:00
2437.4mMDRT
DL: TF Corr +15
16-Aug-06 03:30
2446.5mMDRT
16-Aug-06 04:00
2456.5mMDRT
DL: TF Corr -10

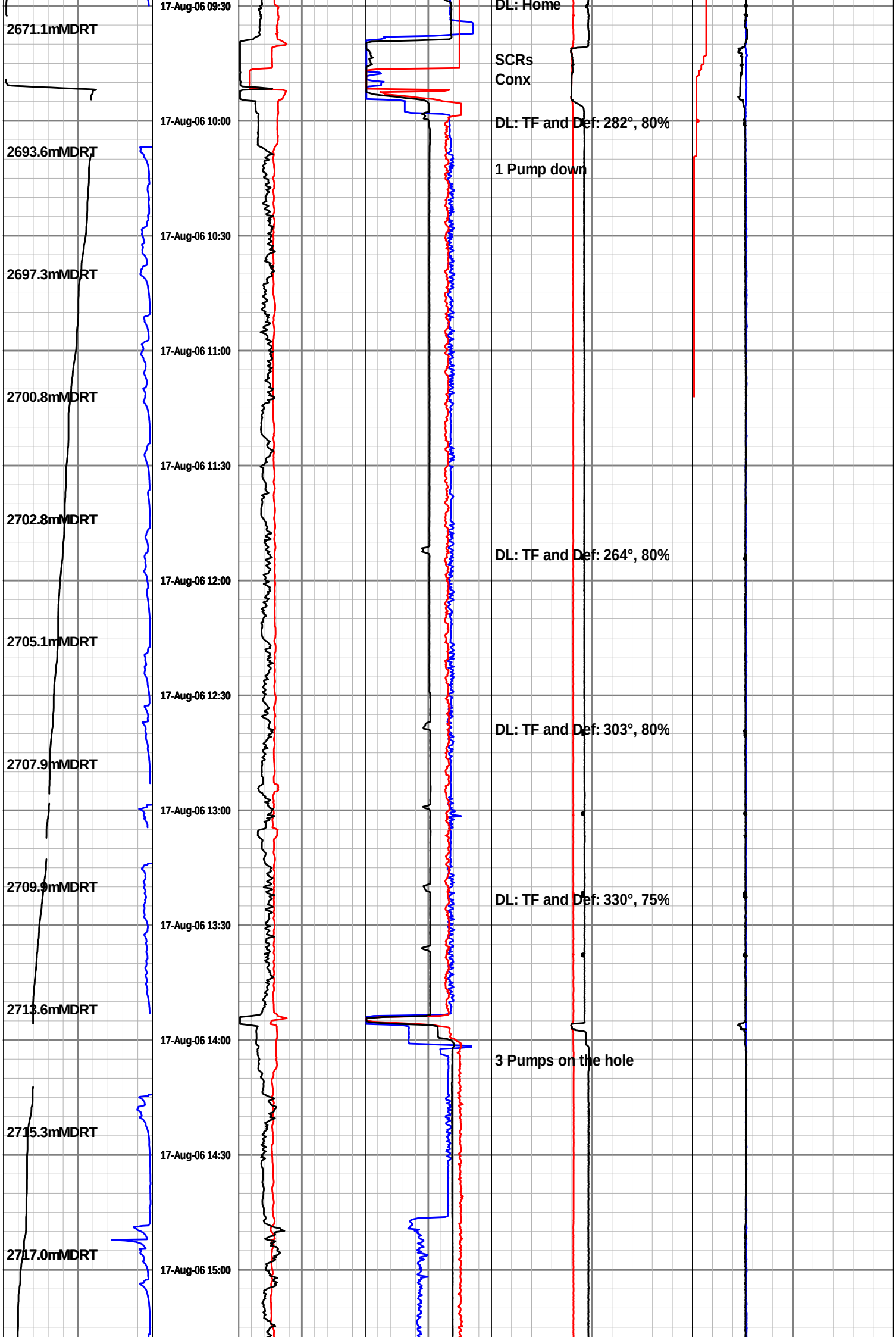

16-Aug-06 04:30
2462.3mMDRT
Conx
DL: TF and Def: 180°, 8%
16-Aug-06 05:00
2466.3mMDRT
16-Aug-06 05:30
DL: TF and Def: 0°, 16%
2471.9mMDRT
16-Aug-06 06:00
2481.1mMDRT
16-Aug-06 06:30
DL: TF and Def: 0°, 40%
DL: TF and Def: 0°, 70%
2488.7mMDRT
16-Aug-06 07:00
DL: Home
2491.3mMDRT
Conx
16-Aug-06 07:30
2497.1mMDRT
16-Aug-06 08:00
2501.6mMDRT
16-Aug-06 08:30
16-Aug-06 09:00
2510.4mMDRT
DL: Home
16-Aug-06 09:30
2517.8mMDRT
16-Aug-06 10:00
SCRs
2520.2mMDRT

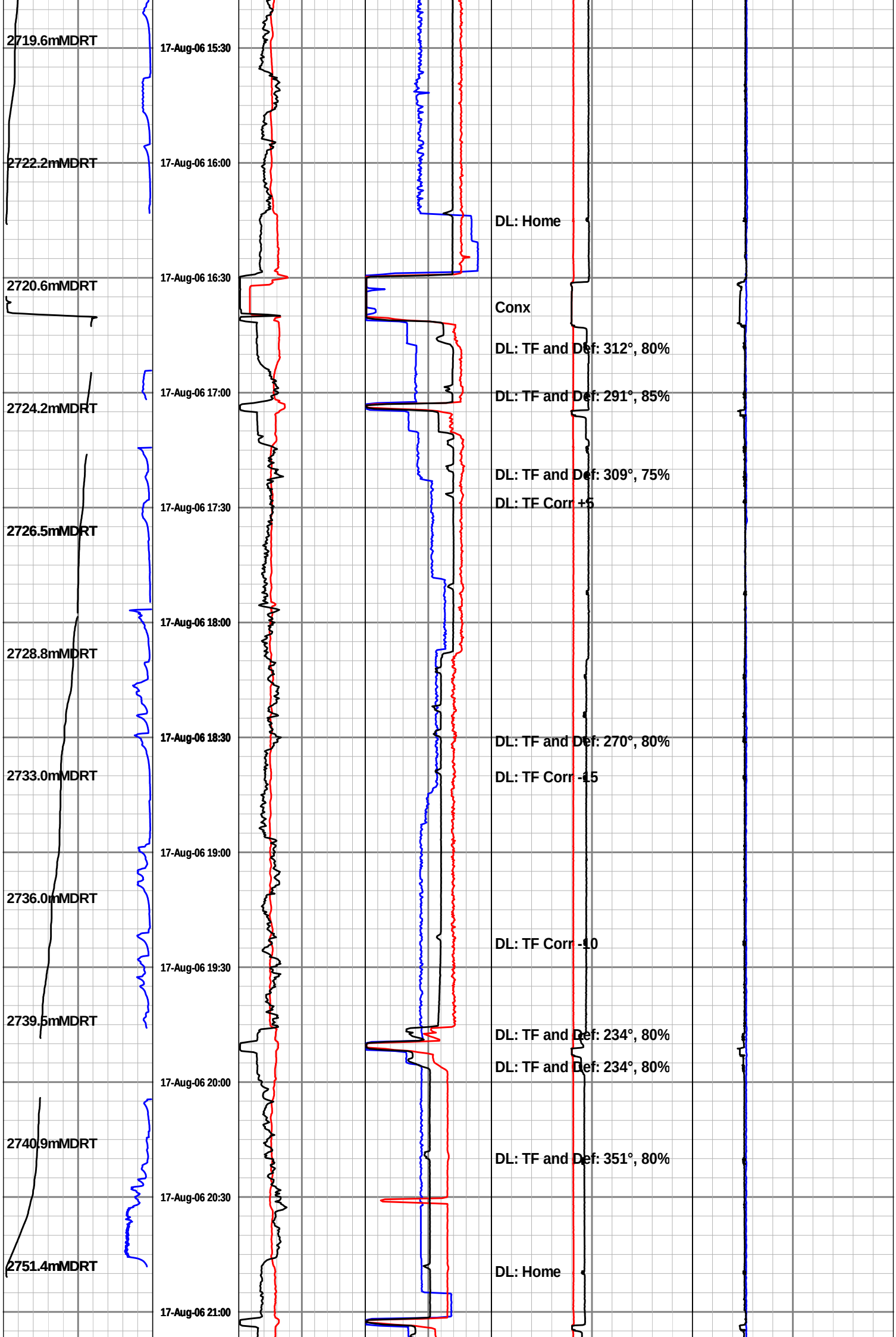

Change GS Nozzle, 20 to 22/32"
DL: TF and Def: 342°, 40%
DL: TF and Def: 342°, 65%
DL: TF and Def: 342°, 85%
DL: Home
Conx
DL: TF and Def: 336°, 85%
2524.2mMDRT
2531.6mMDRT
2535.8mMDRT
2543.9mMDRT
2548.4mMDRT
2547.0mMDRT
2553.4mMDRT
2554.0mMDRT
2564.4mMDRT
2571.2mMDRT
2573.9mMDRT
16-Aug-06 10:30
16-Aug-06 11:00
16-Aug-06 11:30
16-Aug-06 12:00
16-Aug-06 12:30
16-Aug-06 13:00
16-Aug-06 13:30
16-Aug-06 14:00
16-Aug-06 14:30
16-Aug-06 15:00
16-Aug-06 15:30
16-Aug-06 16:00

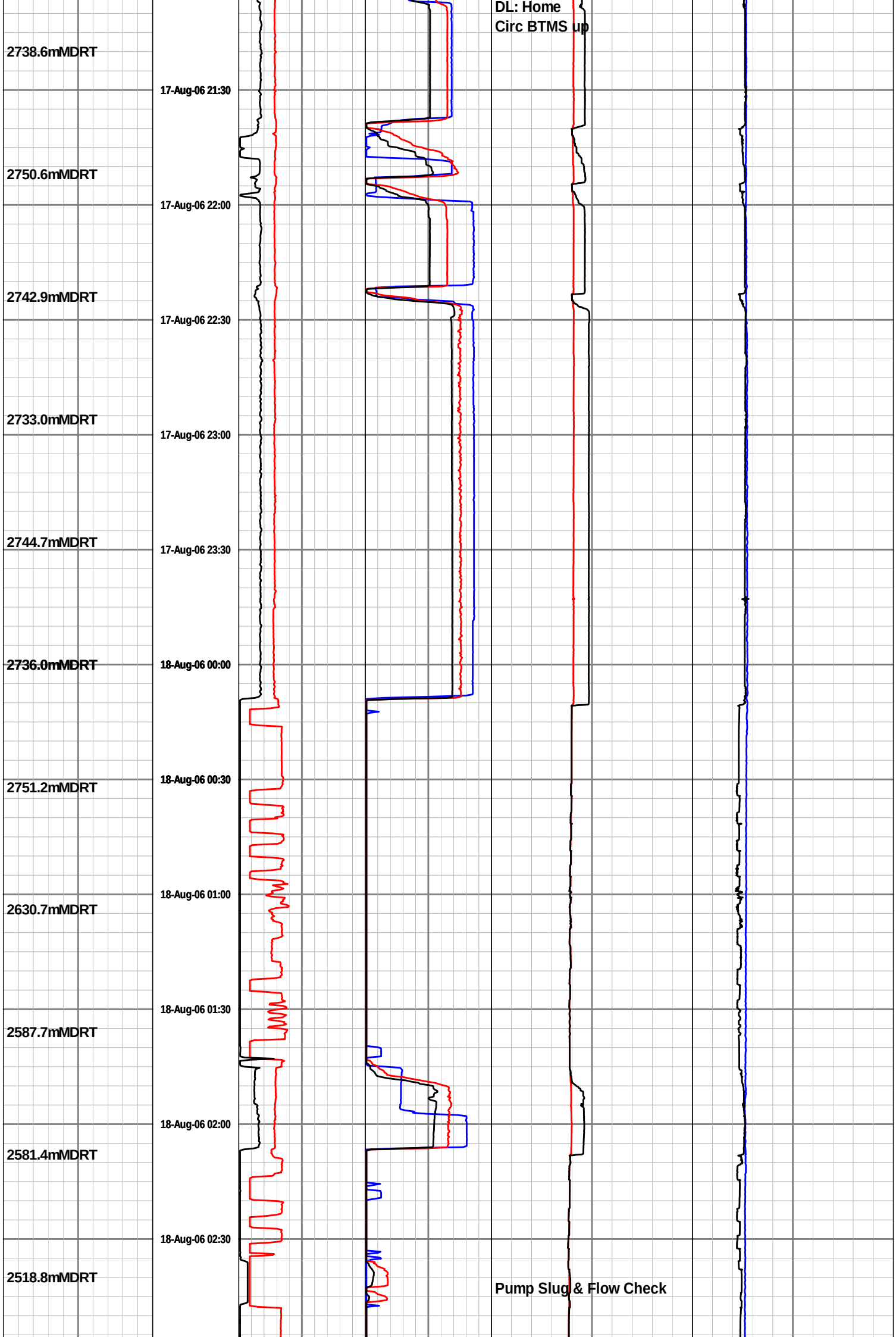

2567.4mMDRT
2580.5mMDRT
2587.1mMDRT
2593.4mMDRT
2600.5mMDRT
2597.6mMDRT
2604.0mMDRT
2594.0mMDRT
2607.8mMDRT
2613.0mMDRT
16-Aug-06 16:30
16-Aug-06 17:00
16-Aug-06 17:30
16-Aug-06 18:00
16-Aug-06 18:30
16-Aug-06 19:00
16-Aug-06 19:30
16-Aug-06 20:00
16-Aug-06 20:30
16-Aug-06 21:00
16-Aug-06 21:30
DL: Home
Conx
DL: TF and Def: 321°, 85%
DL: TF and Def: 336°, 60%
Conx
DL: TF and Def: 312°, 40%

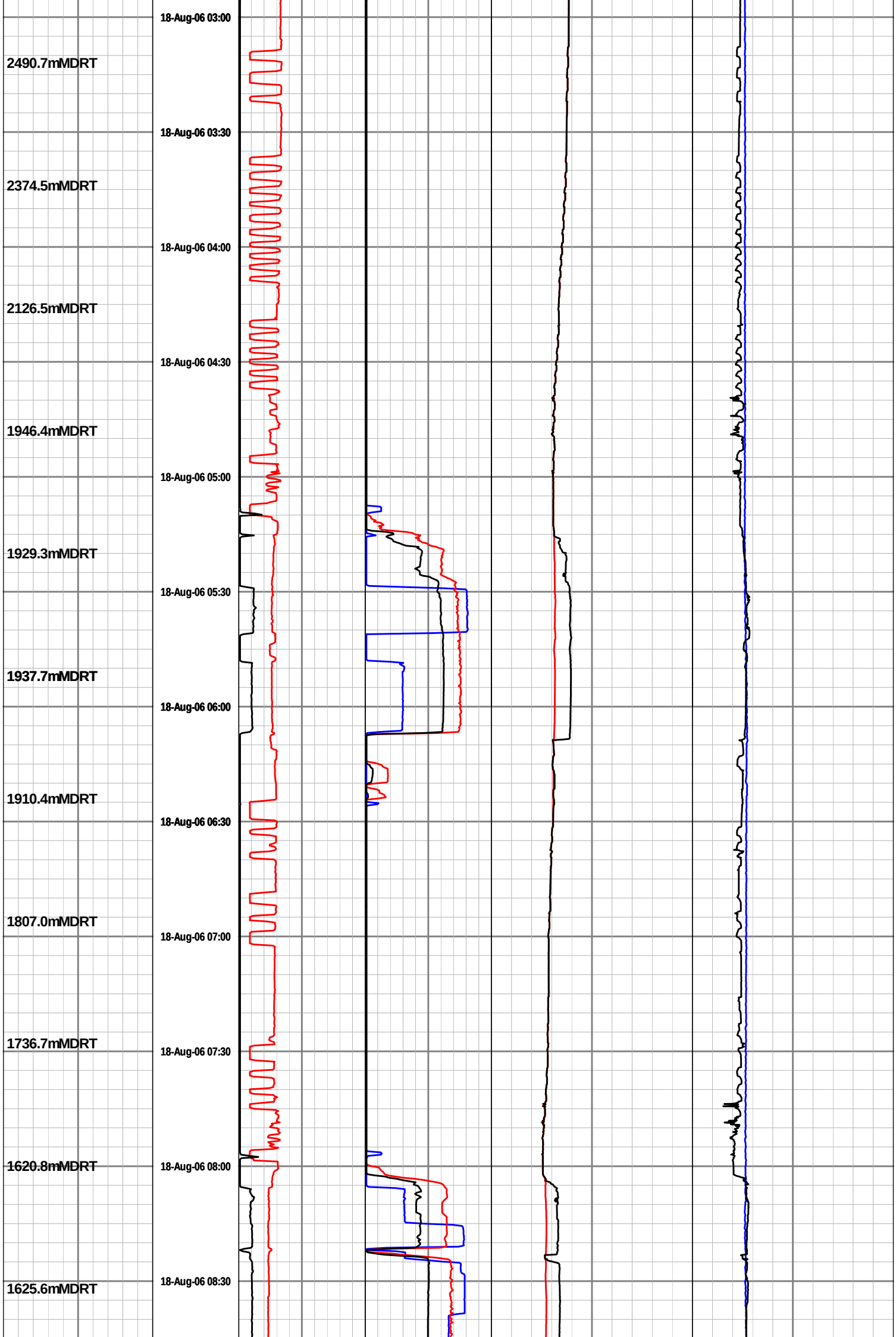

2616.7mMDRT
16-Aug-06 22:00
2617.8mMDRT
16-Aug-06 22:30
DL: TF and Def: 345°, 60%
2626.7mMDRT
DL: TF Corr +20
16-Aug-06 23:00
DL: TF Corr +5
2635.9mMDRT
16-Aug-06 23:30
Conx
2635.2mMDRT
17-Aug-06 00:00
DL: TF and Def: 333°, 85%
2640.1mMDRT
17-Aug-06 00:30
17-Aug-06 01:00
2642.7mMDRT
17-Aug-06 01:30
2645.3mMDRT
17-Aug-06 02:00
2651.9mMDRT
DL: TF and Def: 333°, 80%
17-Aug-06 02:30
2656.5mMDRT
17-Aug-06 03:00
2660.2mMDRT
DL: TF and Def: 351°, 45%
17-Aug-06 03:30

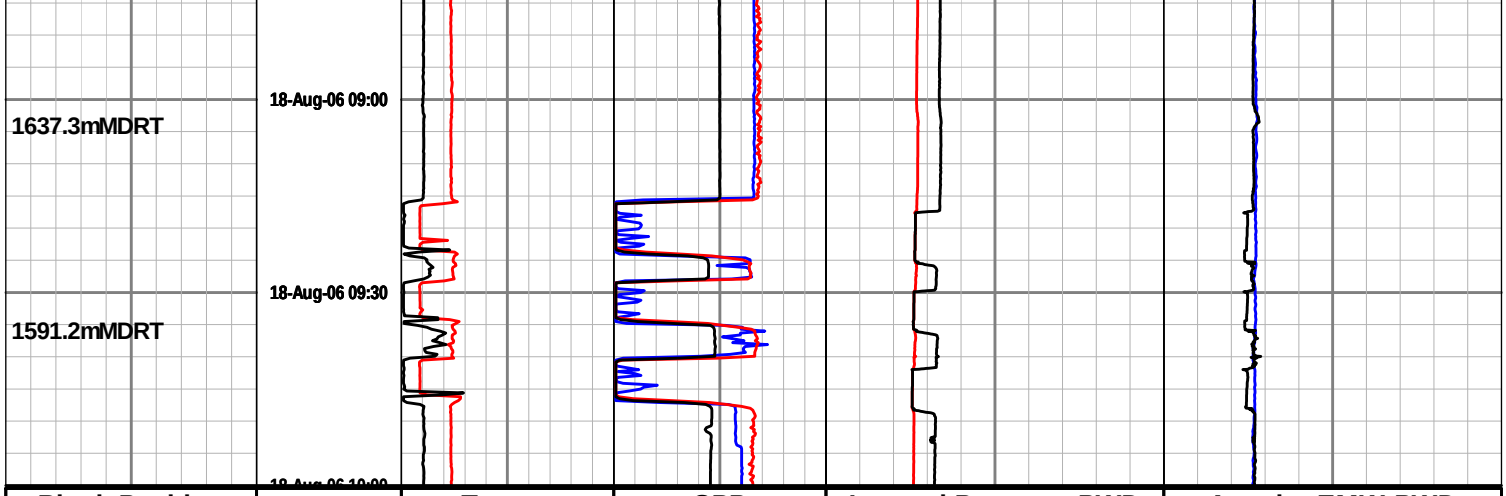

2663.5mMDRT
2662.5mMDRT
2668.5mMDRT
2672.7mMDRT
2676.2mMDRT
2678.8mMDRT
2680.7mMDRT
2686.4mMDRT
2688.8mMDRT
2689.6mMDRT
2690.8mMDRT
17-Aug-06 04:00
17-Aug-06 04:30
17-Aug-06 05:00
17-Aug-06 05:30
17-Aug-06 06:00
17-Aug-06 06:30
17-Aug-06 07:00
17-Aug-06 07:30
17-Aug-06 08:00
17-Aug-06 08:30
17-Aug-06 09:00
Conx
DL: TF and Def: 351°, 75%
DL: TF and Def: 279°, 80%
DL: TF Corr +15
DL: Home
DL: TF and Def: 294°, 80%
DL: Home
DL: TF and Def: 270°, 75%
DL: TF Corr -10


2671.1mMDRT
2693.6mMDRT
2697.3mMDRT
2700.8mMDRT
2702.8mMDRT
2705.1mMDRT
2707.9mMDRT
2709.9mMDRT
2713.6mMDRT
2715.3mMDRT
2717.0mMDRT
17-Aug-06 09:30
17-Aug-06 10:00
17-Aug-06 10:30
17-Aug-06 11:00
17-Aug-06 11:30
17-Aug-06 12:00
17-Aug-06 12:30
17-Aug-06 13:00
17-Aug-06 13:30
17-Aug-06 14:00
17-Aug-06 14:30
17-Aug-06 15:00
DL: Home
SCRs
Conx
DL: TF and Def: 282°, 80%
1 Pump down
DL: TF and Def: 264°, 80%
DL: TF and Def: 303°, 80%
DL: TF and Def: 330°, 75%
3 Pumps on the hole


2719.6mMDRT
17-Aug-06 15:30
2722.2mMDRT
17-Aug-06 16:00
DL: Home
17-Aug-06 16:30
2720.6mMDRT
Conx
DL: TF and Def: 312°, 80%
17-Aug-06 17:00
DL: TF and Def: 291°, 85%
2724.2mMDRT
DL: TF and Def: 309°, 75%
17-Aug-06 17:30
DL: TF Corr +5
2726.5mMDRT
17-Aug-06 18:00
2728.8mMDRT
17-Aug-06 18:30
DL: TF and Def: 270°, 80%
2733.0mMDRT
DL: TF Corr -15
17-Aug-06 19:00
2736.0mMDRT
DL: TF Corr -10
17-Aug-06 19:30
2739.5mMDRT
DL: TF and Def: 234°, 80%
DL: TF and Def: 234°, 80%
17-Aug-06 20:00
2740.9mMDRT
DL: TF and Def: 351°, 80%
17-Aug-06 20:30
2751.4mMDRT
DL: Home
17-Aug-06 21:00


DL: Home
Circ BTMS up
2738.6mMDRT
17-Aug-06 21:30
2750.6mMDRT
17-Aug-06 22:00
2742.9mMDRT
17-Aug-06 22:30
2733.0mMDRT
17-Aug-06 23:00
2744.7mMDRT
17-Aug-06 23:30
2736.0mMDRT
18-Aug-06 00:00
2751.2mMDRT
18-Aug-06 00:30
2630.7mMDRT
18-Aug-06 01:00
2587.7mMDRT
18-Aug-06 01:30
2581.4mMDRT
18-Aug-06 02:00
2518.8mMDRT
18-Aug-06 02:30
Pump Slug & Flow Check


18-Aug-06 03:00
2490.7mMDRT
18-Aug-06 03:30
2374.5mMDRT
18-Aug-06 04:00
2126.5mMDRT
18-Aug-06 04:30
1946.4mMDRT
18-Aug-06 05:00
1929.3mMDRT
18-Aug-06 05:30
1937.7mMDRT
18-Aug-06 06:00
1910.4mMDRT
18-Aug-06 06:30
1807.0mMDRT
18-Aug-06 07:00
1736.7mMDRT
18-Aug-06 07:30
1620.8mMDRT
18-Aug-06 08:00
1625.6mMDRT
18-Aug-06 08:30

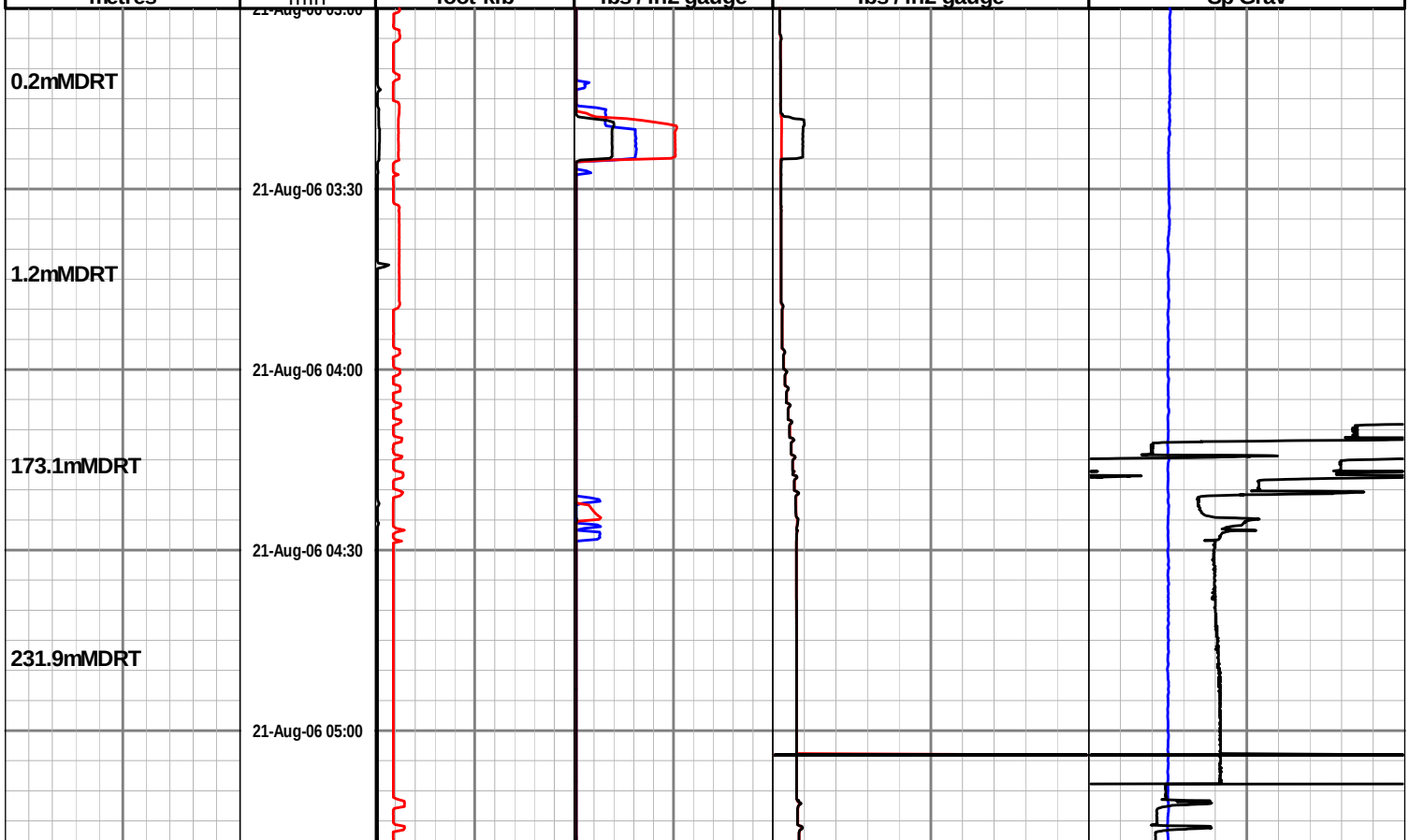


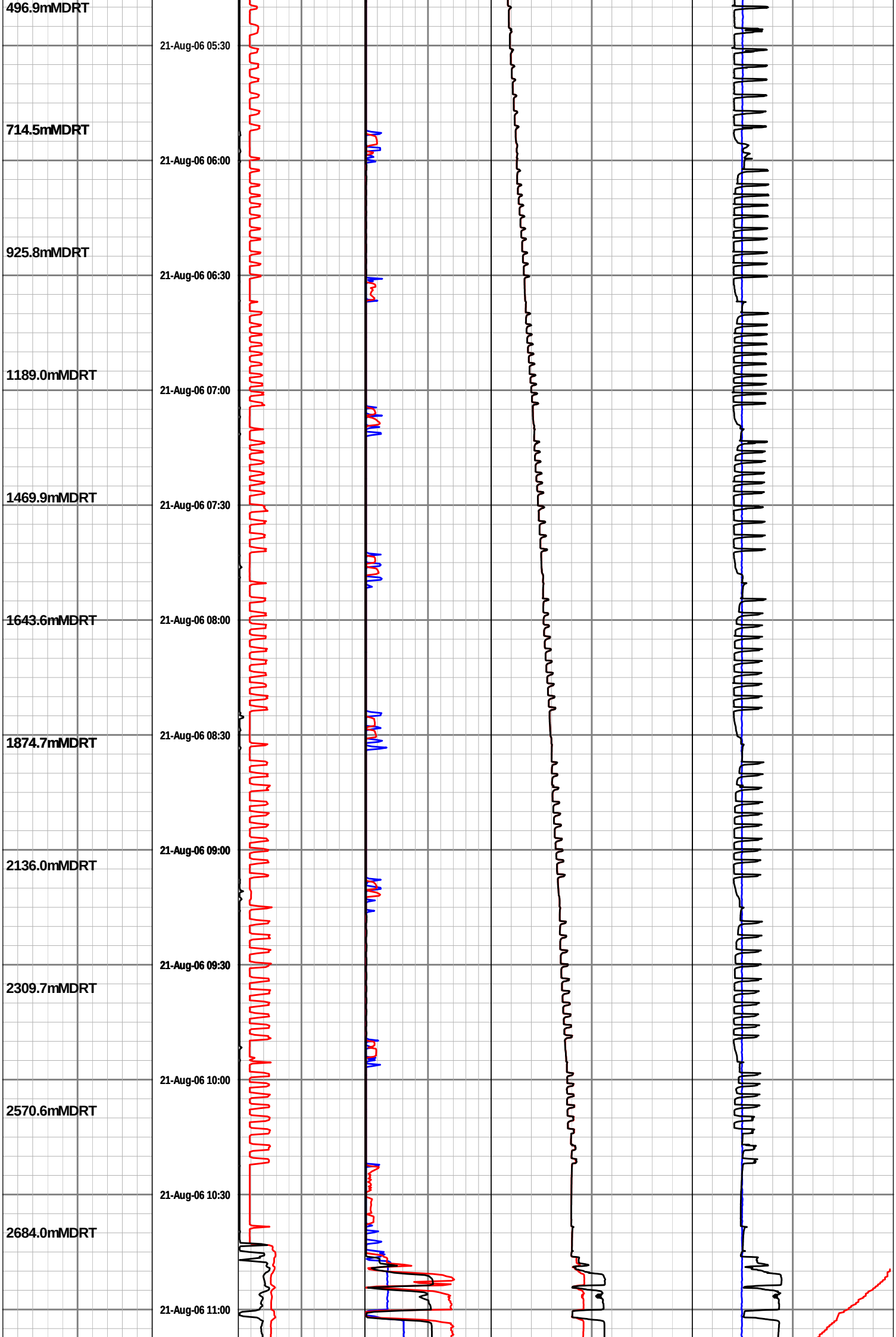
Block Position	Time	Torque	SPP	Internal Pressure-PWD	Annular EMW-PWD
0 25 50		0 25 50	0 3K 6K	0 5K 10K	1 1.5 2
metres	min	foot-klb	lbs / in2 gauge	lbs / in2 gauge	Sp Grav
ROP Avg		**Hookload**	**Flow In**	**Annular Pressure-PWD**	**Temperature**
200 100 0		0 200 400	0 750 1.5K	0 5K 10K	0 25 50
metre per hr		k-lbs	gallon per min	lbs / in2 gauge	celsius
			RPM		**Density Mud In**
			0 100 200		1 1.5 2
			rev per min		Sp Grav

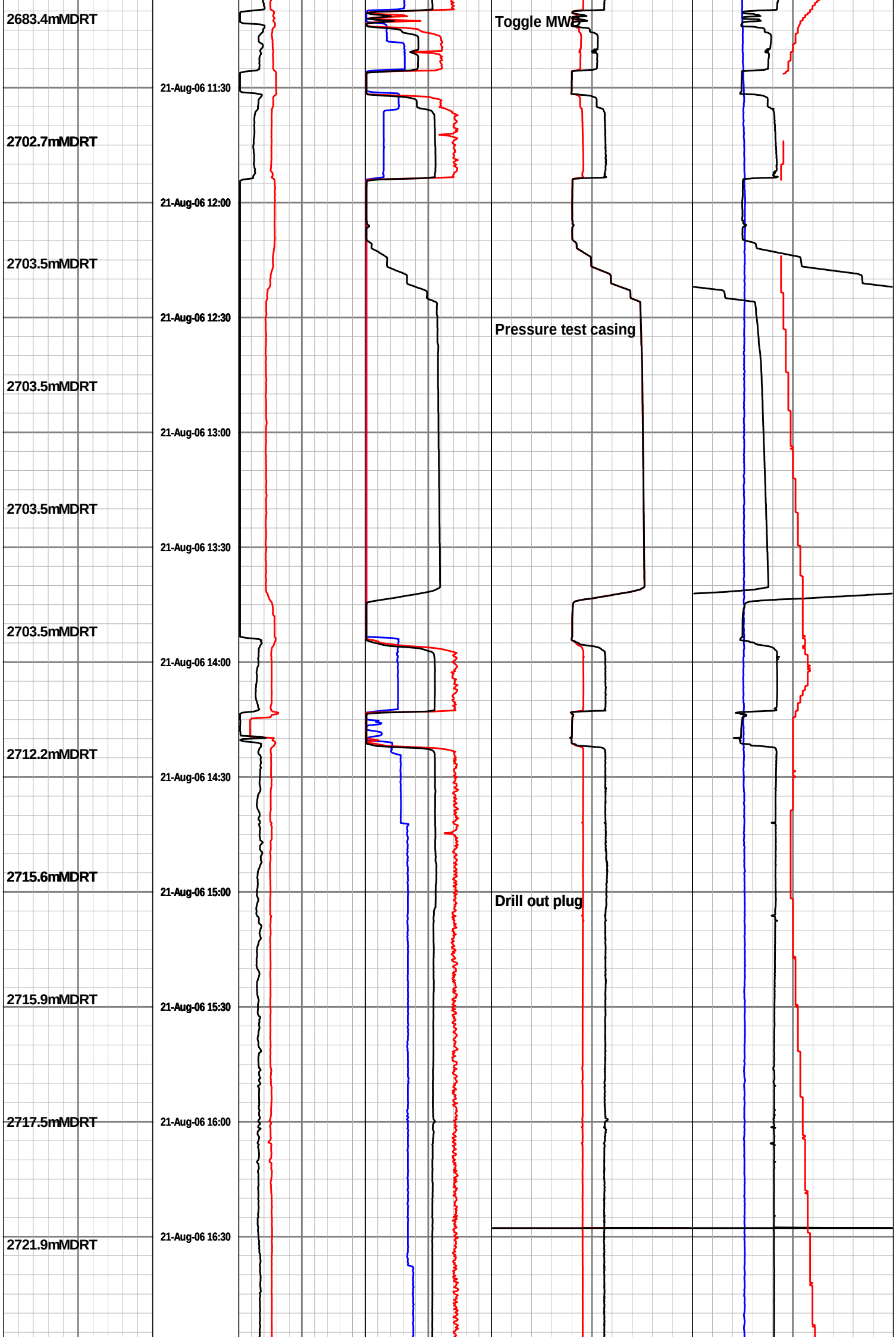
Run 0200 : 216 mm Hole Section
Drilled from 2751 to 3194 mMDRT
03:00 hrs 21th Aug - 19:00 hrs 23rd Aug 2006

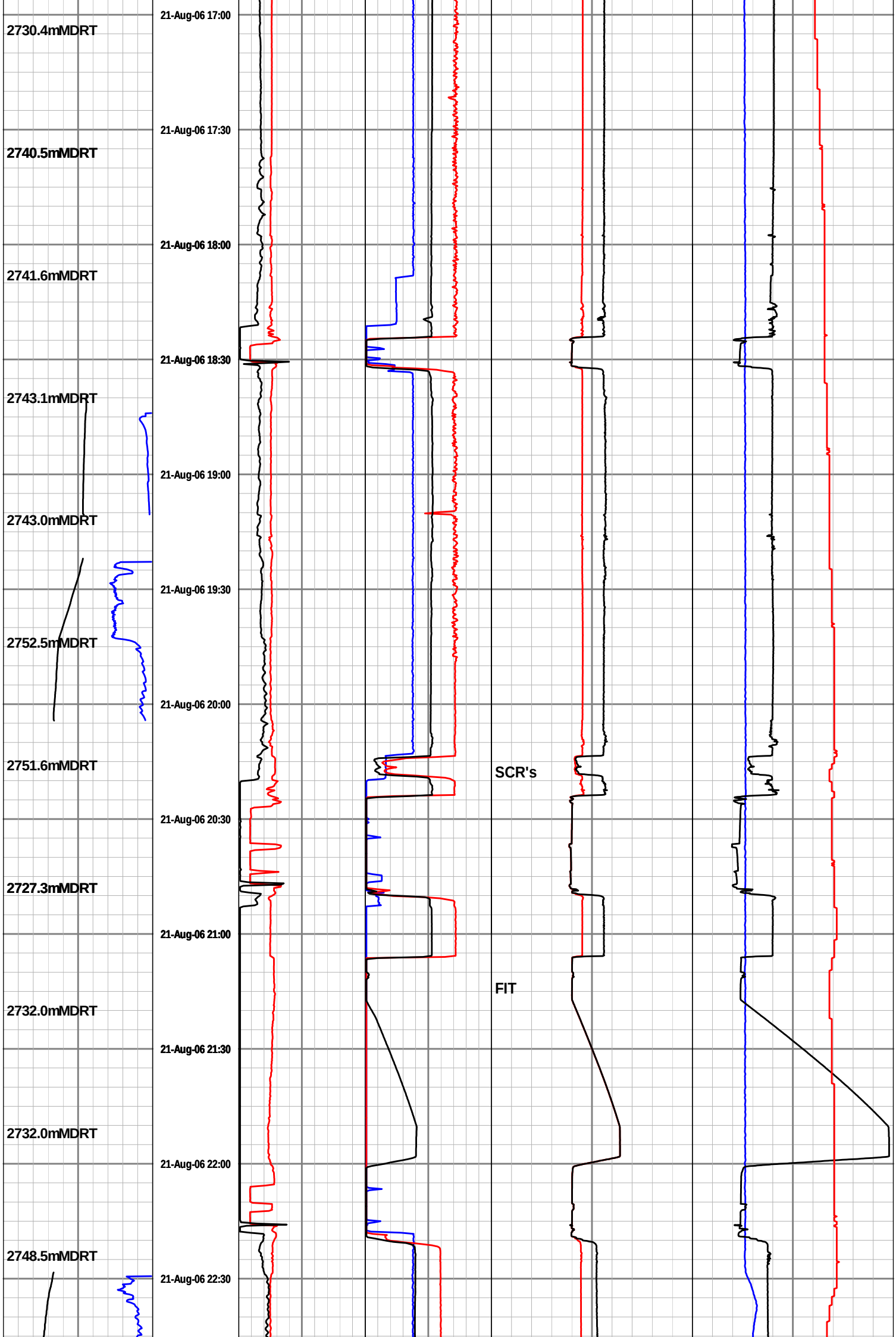
SDL Data presented as supplied by Geoservices

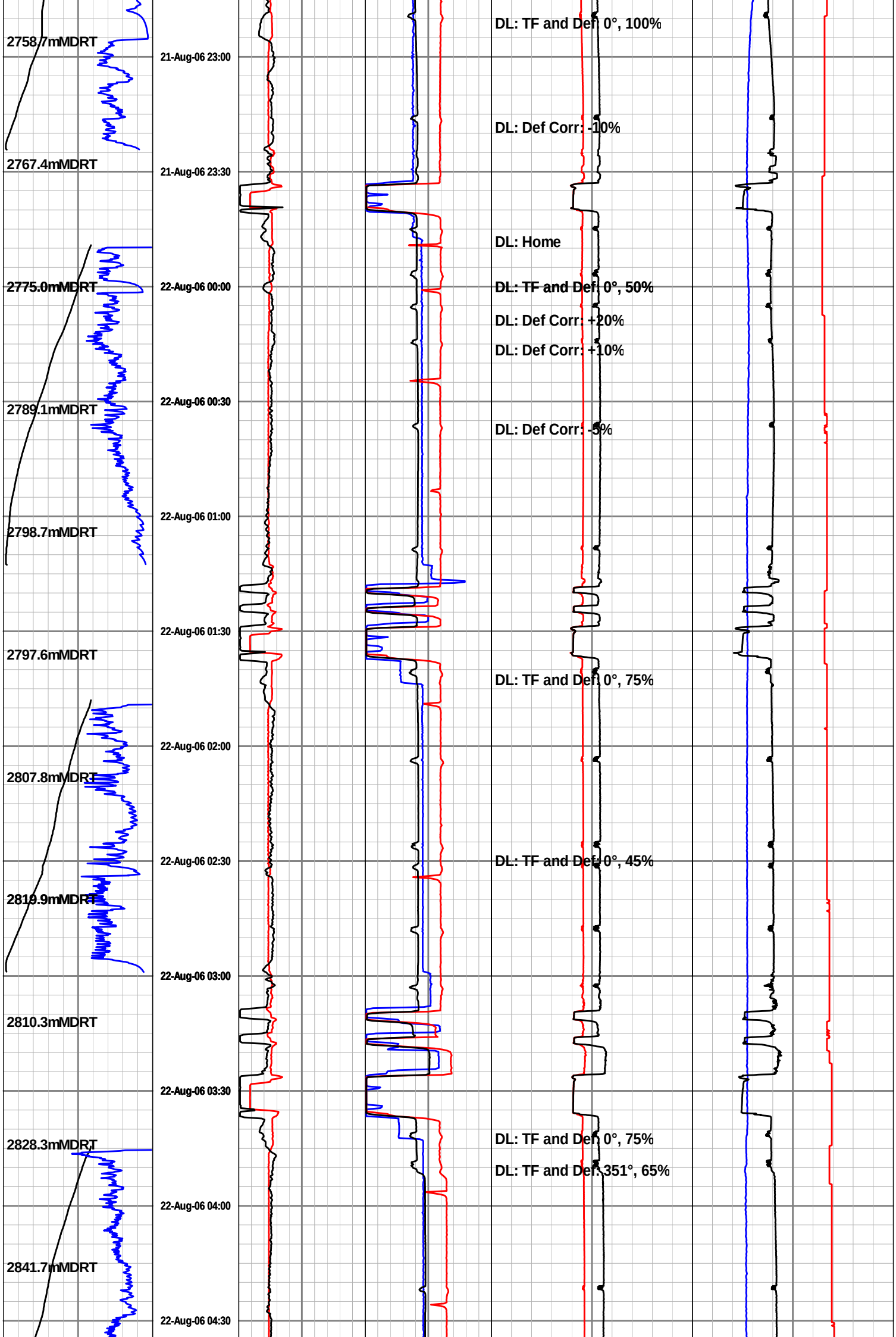
			RPM		**Density Mud In**
			0 100 200		1 1.5 2
			rev per min		Sp Grav
ROP Avg		**Hookload**	**Flow In**	**Annular Pressure-PWD**	**Temperature**
100 50 0		0 200 400	0 500 1K	0 5K 10K	0 25 50
metre per hr		k-lbs	gallon per min	lbs / in2 gauge	celsius
Block Position	**Time**	**Torque**	**SPP**	**Internal Pressure-PWD**	**Annular EMW-PWD**
0 25 50		0 25 50	0 3K 6K	0 5K 10K	1 1.5 2
metres	min	foot-klb	lbs / in2 gauge	lbs / in2 gauge	Sp Grav

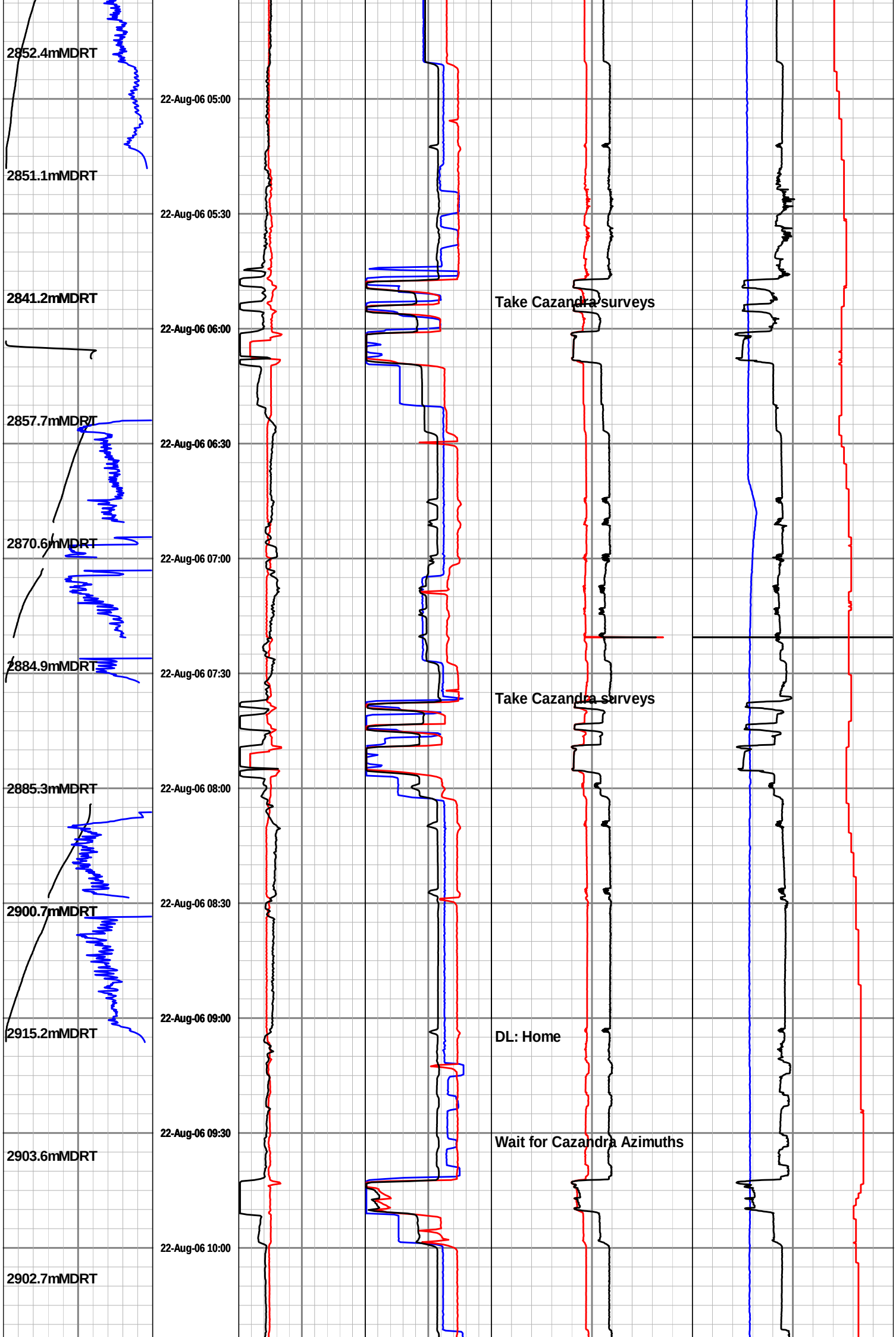


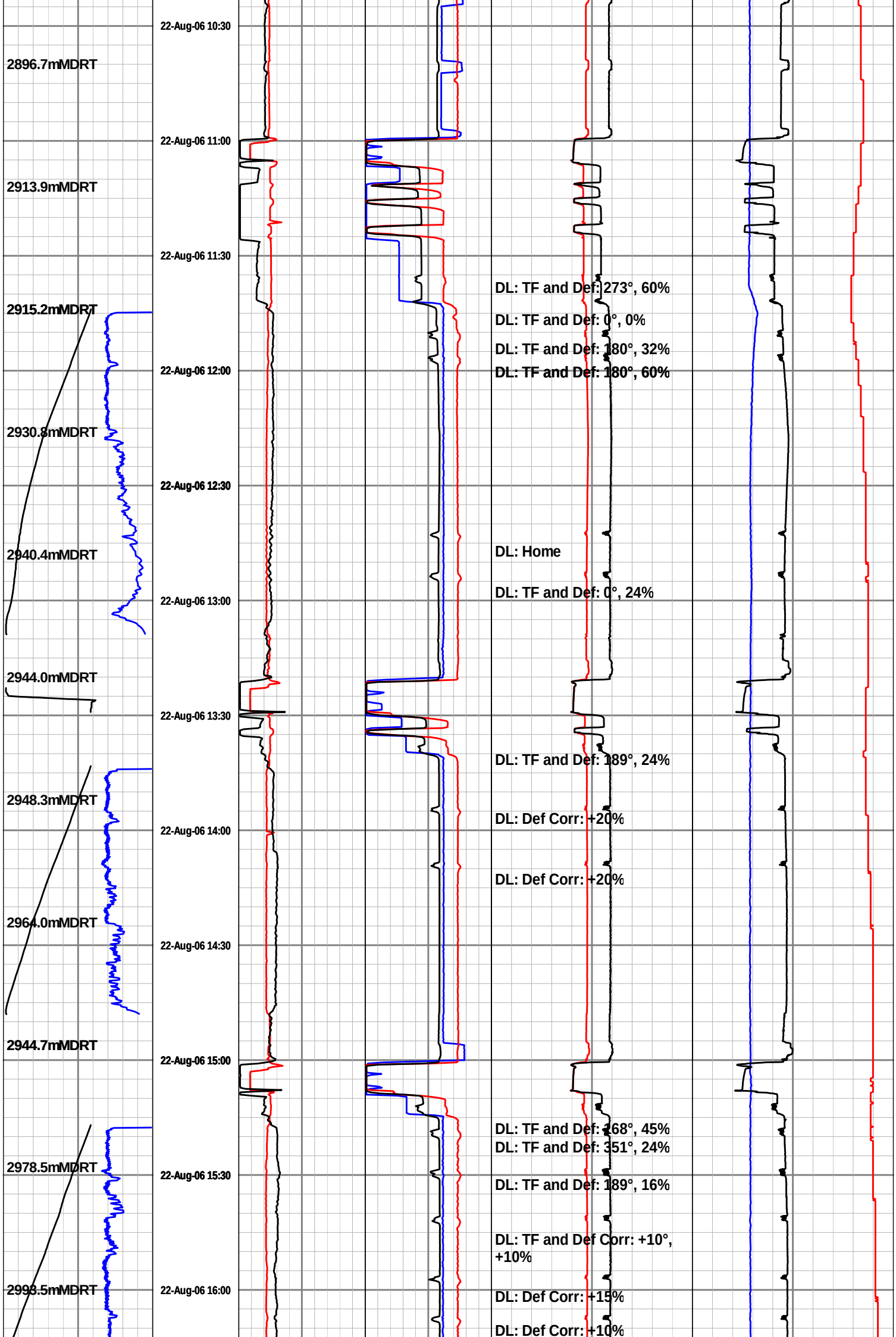

496.9mMDRT
714.5mMDRT
925.8mMDRT
1189.0mMDRT
1469.9mMDRT
1643.6mMDRT
1874.7mMDRT
2136.0mMDRT
2309.7mMDRT
2570.6mMDRT
2684.0mMDRT
21-Aug-06 05:30
21-Aug-06 06:00
21-Aug-06 06:30
21-Aug-06 07:00
21-Aug-06 07:30
21-Aug-06 08:00
21-Aug-06 08:30
21-Aug-06 09:00
21-Aug-06 09:30
21-Aug-06 10:00
21-Aug-06 10:30
21-Aug-06 11:00

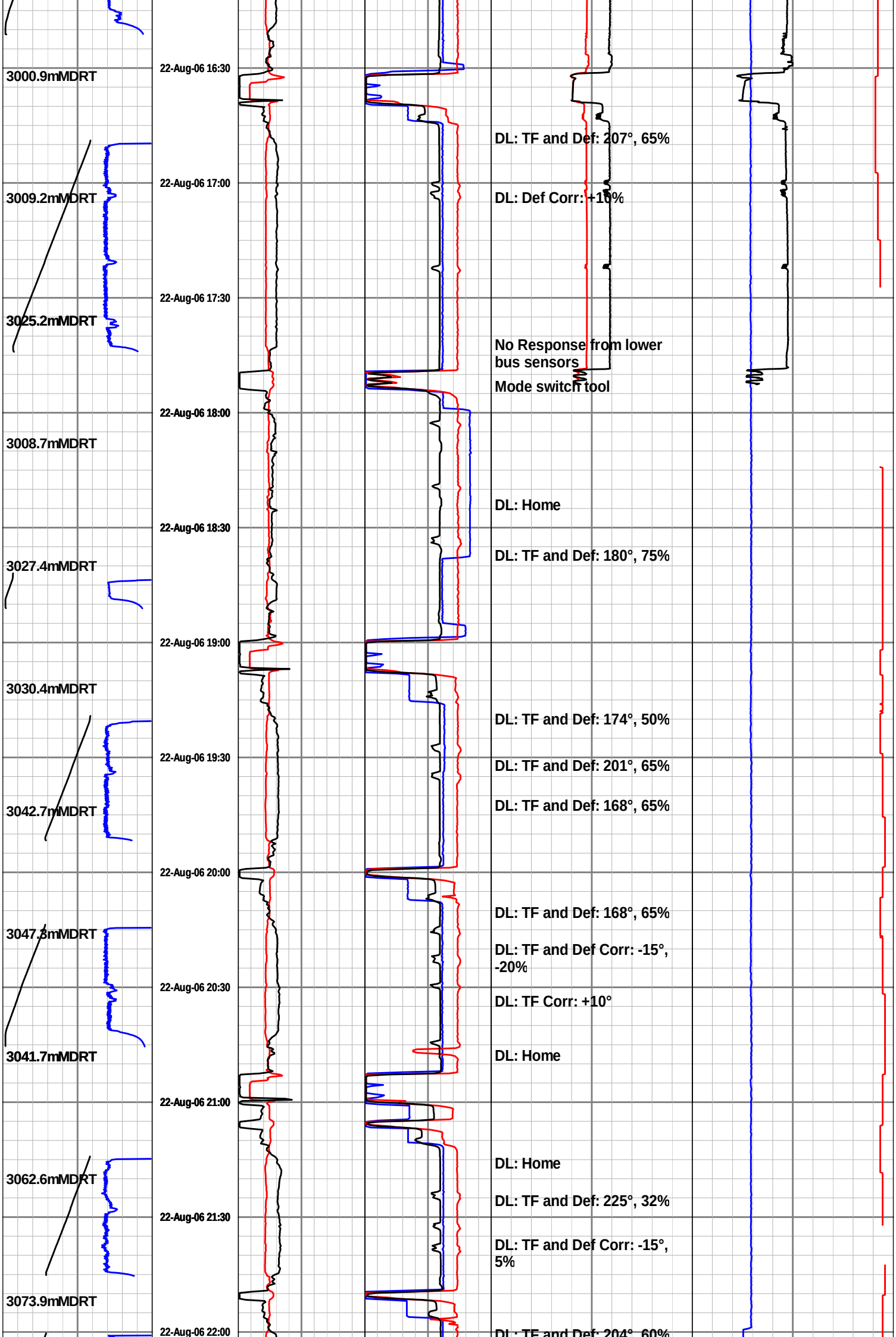

2683.4mMDRT
21-Aug-06 11:30
2702.7mMDRT
21-Aug-06 12:00
2703.5mMDRT
21-Aug-06 12:30
2703.5mMDRT
21-Aug-06 13:00
2703.5mMDRT
21-Aug-06 13:30
2703.5mMDRT
21-Aug-06 14:00
2712.2mMDRT
21-Aug-06 14:30
2715.6mMDRT
21-Aug-06 15:00
2715.9mMDRT
21-Aug-06 15:30
2717.5mMDRT
21-Aug-06 16:00
21-Aug-06 16:30
2721.9mMDRT
Toggle MWD
Pressure test casing
Drill out plug

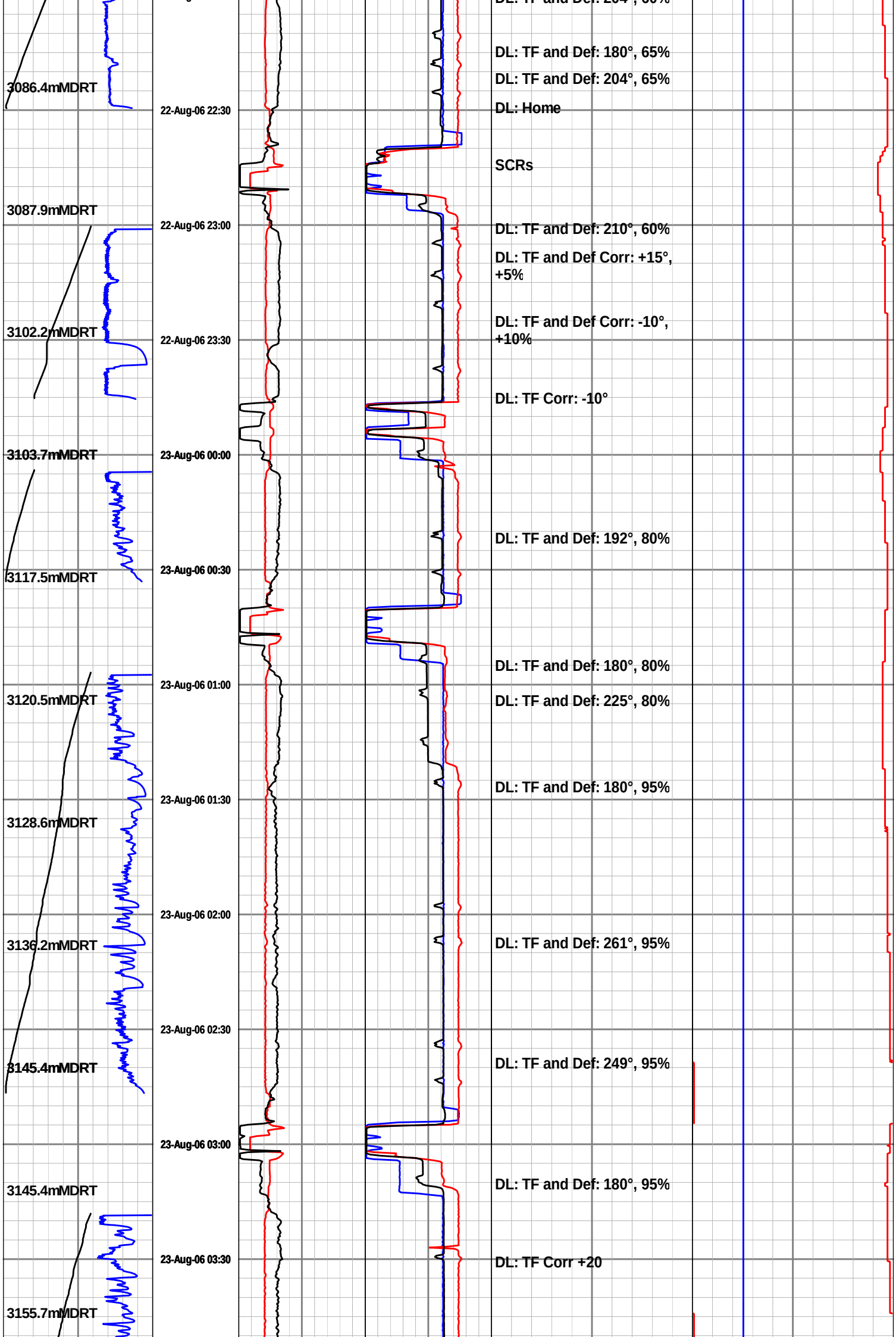

2730.4mMDRT
2740.5mMDRT
2741.6mMDRT
2743.1mMDRT
2743.0mMDRT
2752.5mMDRT
2751.6mMDRT
2727.3mMDRT
2732.0mMDRT
2732.0mMDRT
2748.5mMDRT
21-Aug-06 17:00
21-Aug-06 17:30
21-Aug-06 18:00
21-Aug-06 18:30
21-Aug-06 19:00
21-Aug-06 19:30
21-Aug-06 20:00
21-Aug-06 20:30
21-Aug-06 21:00
21-Aug-06 21:30
21-Aug-06 22:00
21-Aug-06 22:30
SCR's
FIT

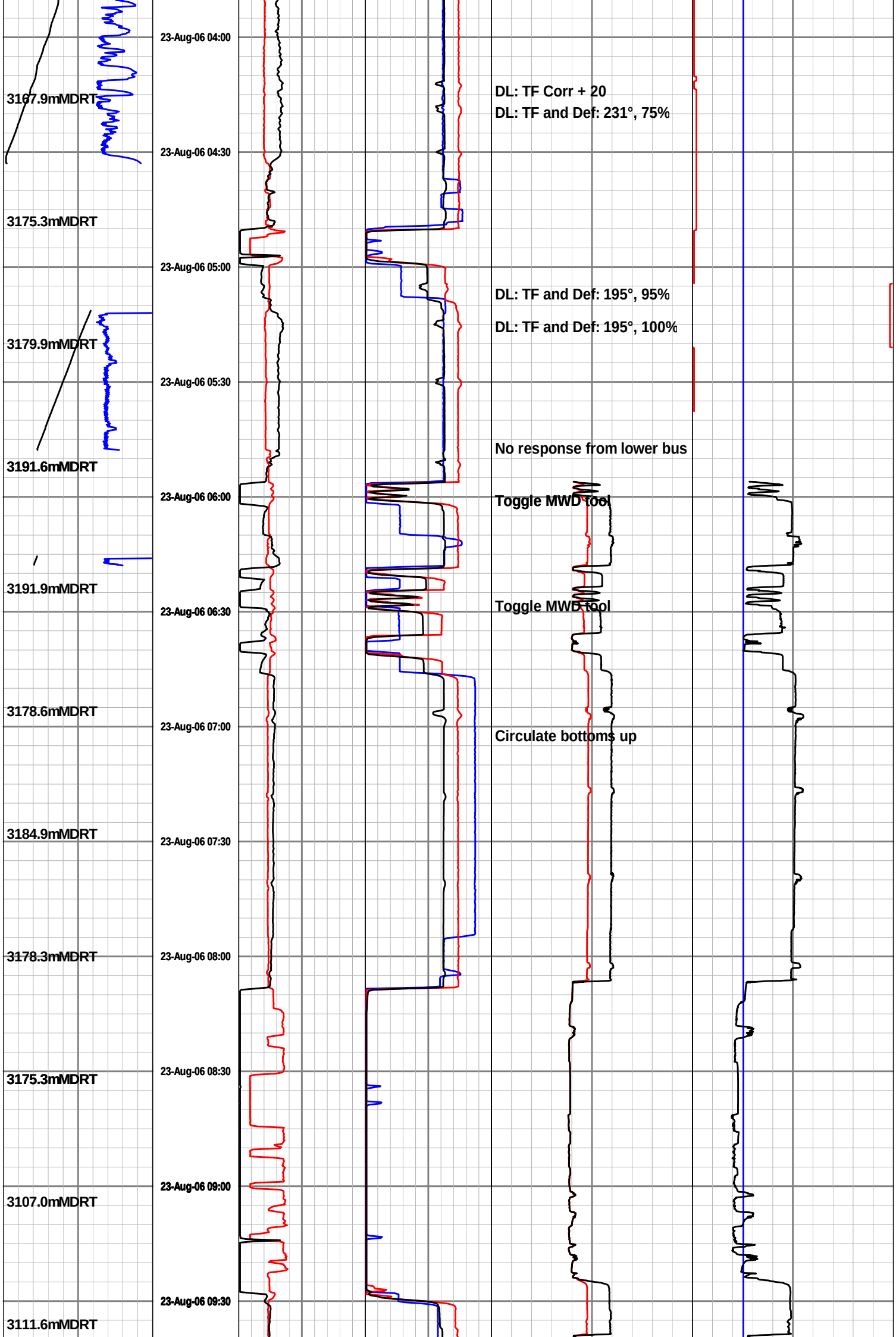

2758.7mMDRT
2767.4mMDRT
2775.0mMDRT
2789.1mMDRT
2798.7mMDRT
2797.6mMDRT
2807.8mMDRT
2819.9mMDRT
2810.3mMDRT
2828.3mMDRT
2841.7mMDRT
21-Aug-06 23:00
21-Aug-06 23:30
22-Aug-06 00:00
22-Aug-06 00:30
22-Aug-06 01:00
22-Aug-06 01:30
22-Aug-06 02:00
22-Aug-06 02:30
22-Aug-06 03:00
22-Aug-06 03:30
22-Aug-06 04:00
22-Aug-06 04:30
DL: TF and Def: 0°, 100%
DL: Def Corr: -10%
DL: Home
DL: TF and Def: 0°, 50%
DL: Def Corr: +20%
DL: Def Corr: +10%
DL: Def Corr: -5%
DL: TF and Def: 0°, 75%
DL: TF and Def: 0°, 45%
DL: TF and Def: 0°, 75%
DL: TF and Def: 351°, 65%

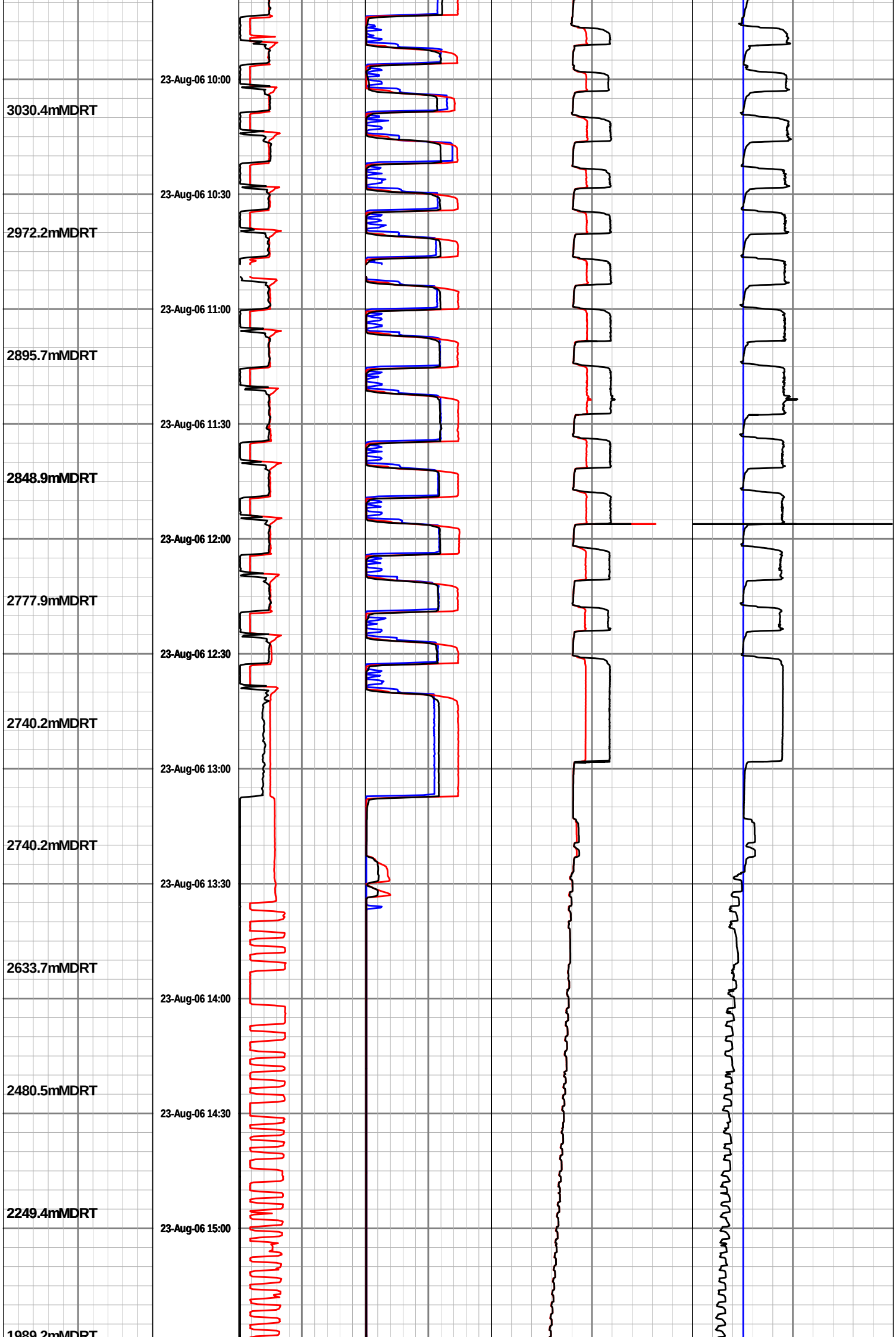

2852.4mMDRT
2851.1mMDRT
2841.2mMDRT
2857.7mMDRT
2870.6mMDRT
2884.9mMDRT
2885.3mMDRT
2900.7mMDRT
2915.2mMDRT
2903.6mMDRT
2902.7mMDRT
22-Aug-06 05:00
22-Aug-06 05:30
22-Aug-06 06:00
22-Aug-06 06:30
22-Aug-06 07:00
22-Aug-06 07:30
22-Aug-06 08:00
22-Aug-06 08:30
22-Aug-06 09:00
22-Aug-06 09:30
22-Aug-06 10:00
Take Cazandra surveys
Take Cazandra surveys
DL: Home
Wait for Cazandra Azimuths

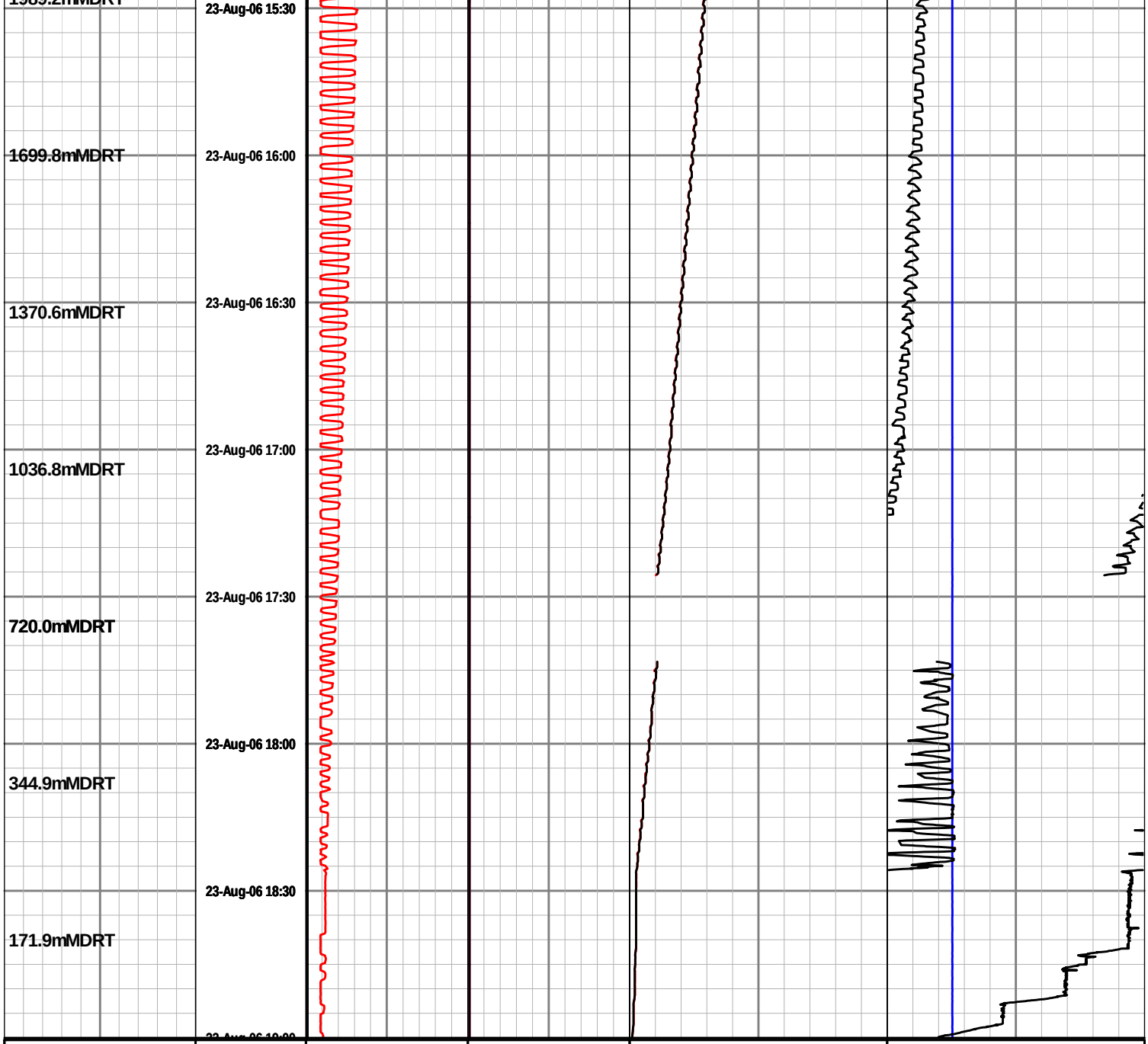

22-Aug-06 10:30
2896.7mMDRT
22-Aug-06 11:00
2913.9mMDRT
22-Aug-06 11:30
2915.2mMDRT
DL: TF and Def: 273°, 60%
DL: TF and Def: 0°, 0%
DL: TF and Def: 180°, 32%
22-Aug-06 12:00
DL: TF and Def: 180°, 60%
2930.8mMDRT
22-Aug-06 12:30
2940.4mMDRT
DL: Home
DL: TF and Def: 0°, 24%
22-Aug-06 13:00
2944.0mMDRT
22-Aug-06 13:30
DL: TF and Def: 189°, 24%
2948.3mMDRT
DL: Def Corr: +20%
22-Aug-06 14:00
DL: Def Corr: +20%
2964.0mMDRT
22-Aug-06 14:30
2944.7mMDRT
22-Aug-06 15:00
DL: TF and Def: 268°, 45%
DL: TF and Def: 351°, 24%
2978.5mMDRT
22-Aug-06 15:30
DL: TF and Def: 189°, 16%
DL: TF and Def Corr: +10°, +10%
2993.5mMDRT
22-Aug-06 16:00
DL: Def Corr: +15%
DL: Def Corr: +10%


3000.9mMDRT
22-Aug-06 16:30
DL: TF and Def: 207°, 65%
3009.2mMDRT
22-Aug-06 17:00
DL: Def Corr: +10%
22-Aug-06 17:30
3025.2mMDRT
No Response from lower bus sensors
Mode switch tool
22-Aug-06 18:00
3008.7mMDRT
DL: Home
22-Aug-06 18:30
DL: TF and Def: 180°, 75%
3027.4mMDRT
22-Aug-06 19:00
3030.4mMDRT
DL: TF and Def: 174°, 50%
22-Aug-06 19:30
DL: TF and Def: 201°, 65%
3042.7mMDRT
DL: TF and Def: 168°, 65%
22-Aug-06 20:00
DL: TF and Def: 168°, 65%
3047.3mMDRT
DL: TF and Def Corr: -15°, -20%
22-Aug-06 20:30
DL: TF Corr: +10°
3041.7mMDRT
DL: Home
22-Aug-06 21:00
DL: Home
3062.6mMDRT
DL: TF and Def: 225°, 32%
22-Aug-06 21:30
DL: TF and Def Corr: -15°, 5%
3073.9mMDRT
22-Aug-06 22:00
DL: TF and Def: 204°, 60%


DL: TF and Def: 204°, 60%
DL: TF and Def: 180°, 65%
DL: TF and Def: 204°, 65%
3086.4mMDRT
22-Aug-06 22:30
DL: Home
SCRs
3087.9mMDRT
22-Aug-06 23:00
DL: TF and Def: 210°, 60%
DL: TF and Def Corr: +15°, +5%
3102.2mMDRT
22-Aug-06 23:30
DL: TF and Def Corr: -10°, +10%
DL: TF Corr: -10°
3103.7mMDRT
23-Aug-06 00:00
DL: TF and Def: 192°, 80%
3117.5mMDRT
23-Aug-06 00:30
DL: TF and Def: 180°, 80%
3120.5mMDRT
23-Aug-06 01:00
DL: TF and Def: 225°, 80%
DL: TF and Def: 180°, 95%
23-Aug-06 01:30
3128.6mMDRT
23-Aug-06 02:00
3136.2mMDRT
DL: TF and Def: 261°, 95%
23-Aug-06 02:30
3145.4mMDRT
DL: TF and Def: 249°, 95%
23-Aug-06 03:00
3145.4mMDRT
DL: TF and Def: 180°, 95%
23-Aug-06 03:30
DL: TF Corr +20
3155.7mMDRT


23-Aug-06 04:00
3167.9mMDRT
23-Aug-06 04:30
3175.3mMDRT
23-Aug-06 05:00
3179.9mMDRT
23-Aug-06 05:30
3191.6mMDRT
23-Aug-06 06:00
3191.9mMDRT
23-Aug-06 06:30
3178.6mMDRT
23-Aug-06 07:00
3184.9mMDRT
23-Aug-06 07:30
3178.3mMDRT
23-Aug-06 08:00
3175.3mMDRT
23-Aug-06 08:30
3107.0mMDRT
23-Aug-06 09:00
3111.6mMDRT
23-Aug-06 09:30
DL: TF Corr + 20
DL: TF and Def: 231°, 75%
DL: TF and Def: 195°, 95%
DL: TF and Def: 195°, 100%
No response from lower bus
Toggle MWD tool
Toggle MWD tool
Circulate bottoms up


23-Aug-06 10:00
3030.4mMDRT
23-Aug-06 10:30
2972.2mMDRT
23-Aug-06 11:00
2895.7mMDRT
23-Aug-06 11:30
2848.9mMDRT
23-Aug-06 12:00
2777.9mMDRT
23-Aug-06 12:30
2740.2mMDRT
23-Aug-06 13:00
2740.2mMDRT
23-Aug-06 13:30
2633.7mMDRT
23-Aug-06 14:00
2480.5mMDRT
23-Aug-06 14:30
2249.4mMDRT
23-Aug-06 15:00
1989.2mMDRT

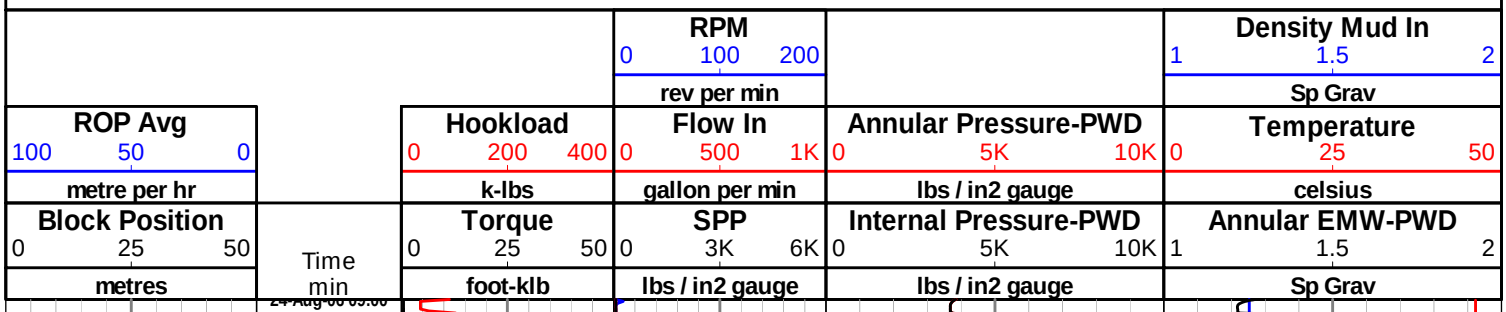


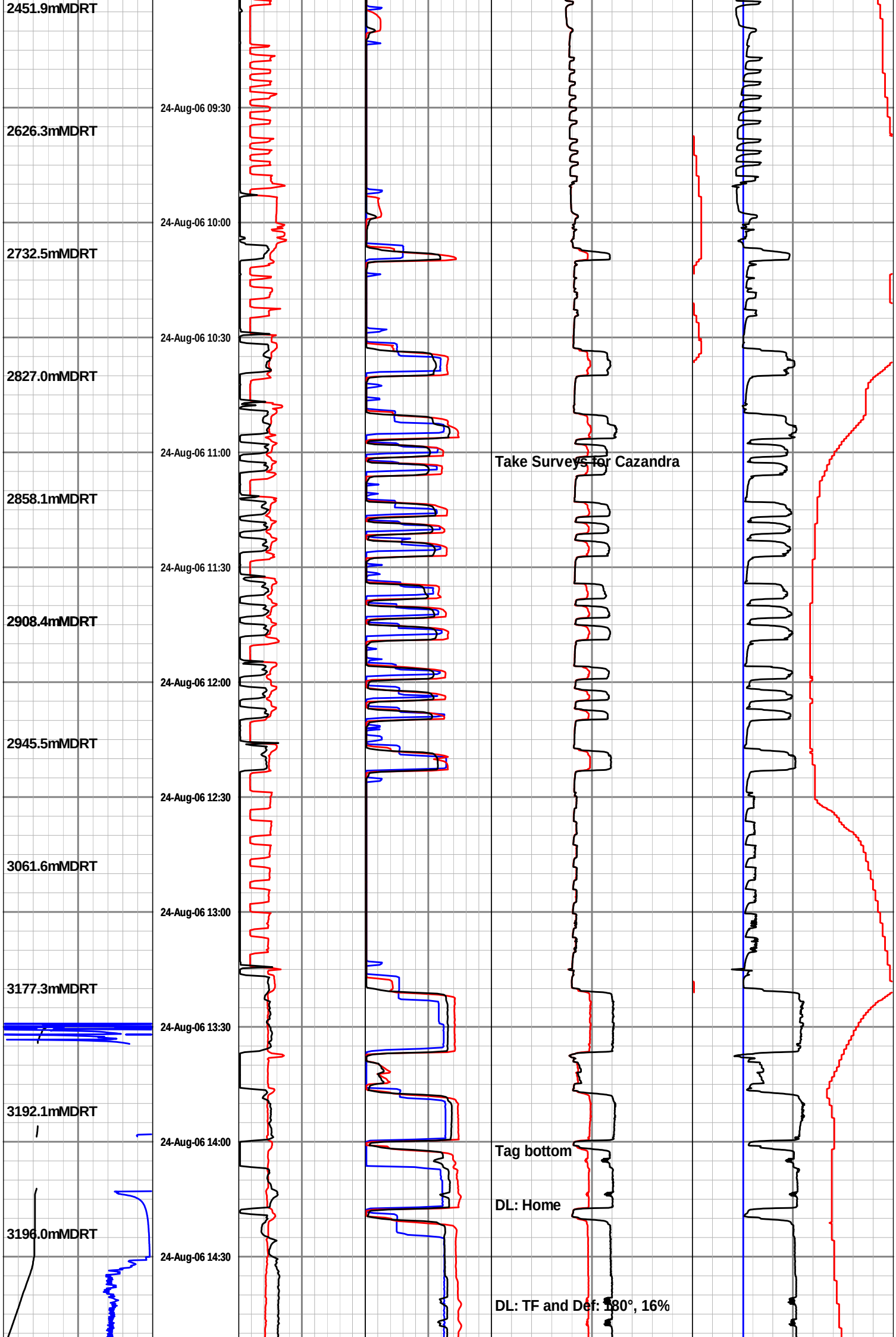
Run 0300 : 216 mm Hole Section

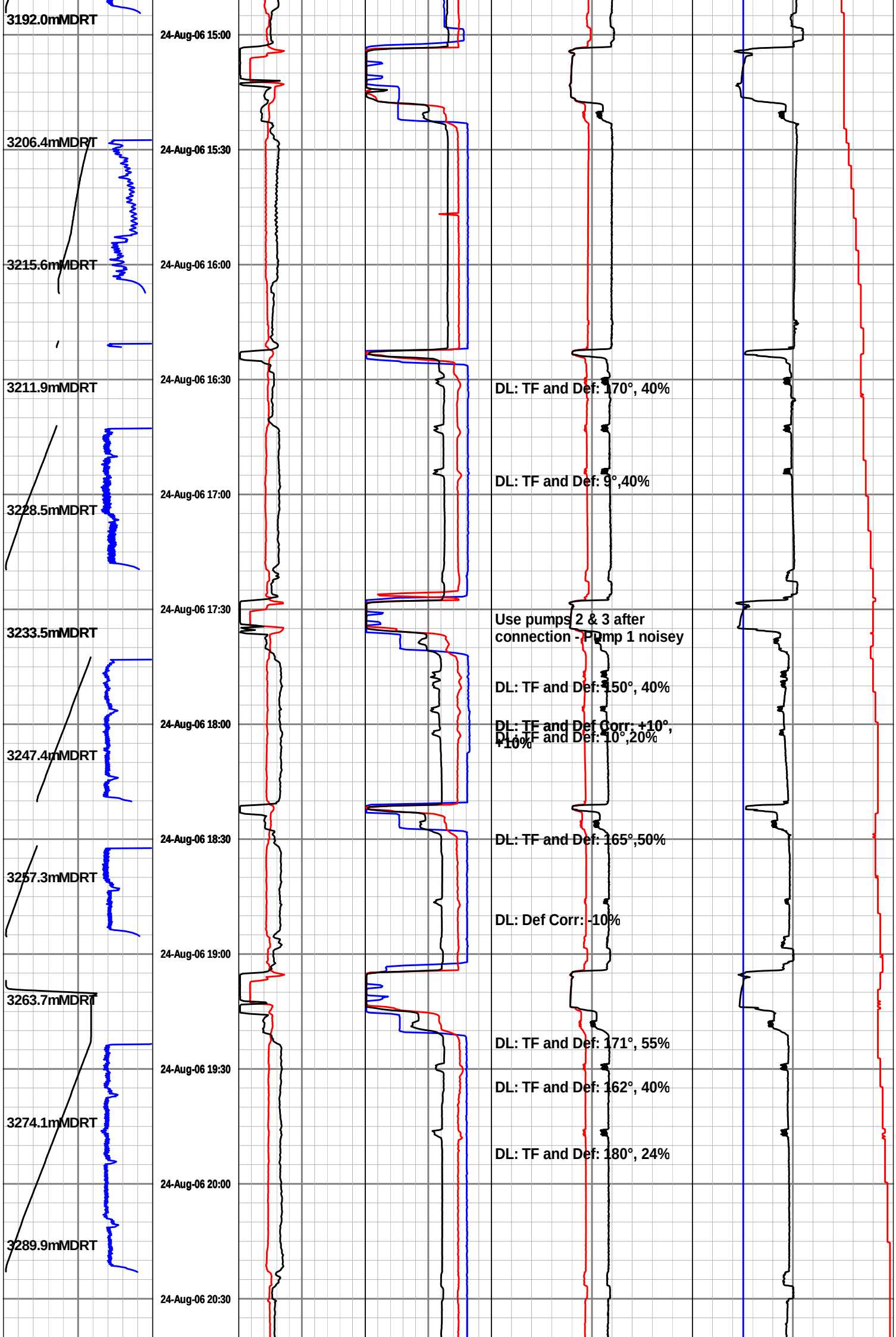
Drilled from 3194 to xxxx mMDRT

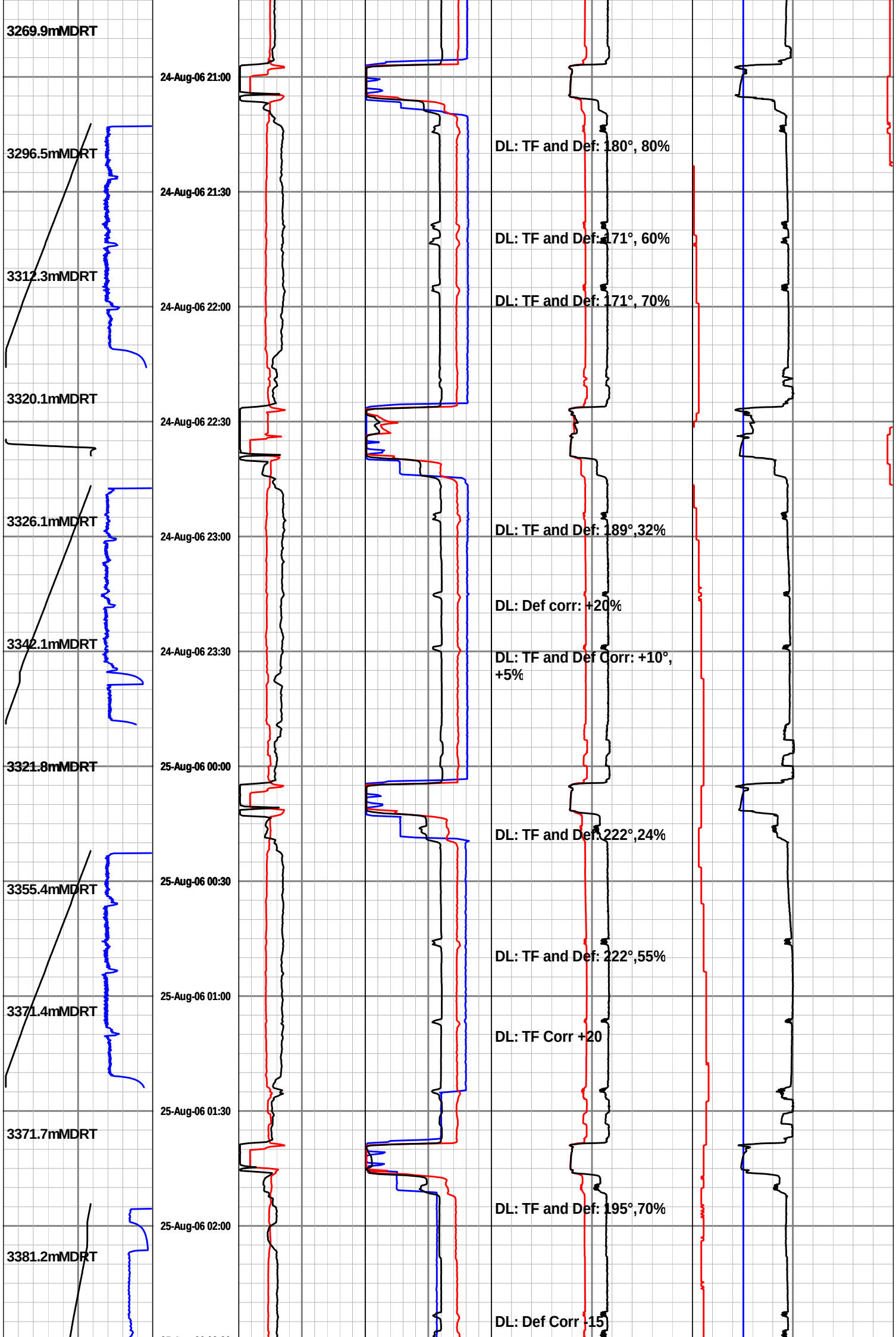
09:00 hrs 24th Aug - 00:15 hrs 28th Aug 2006

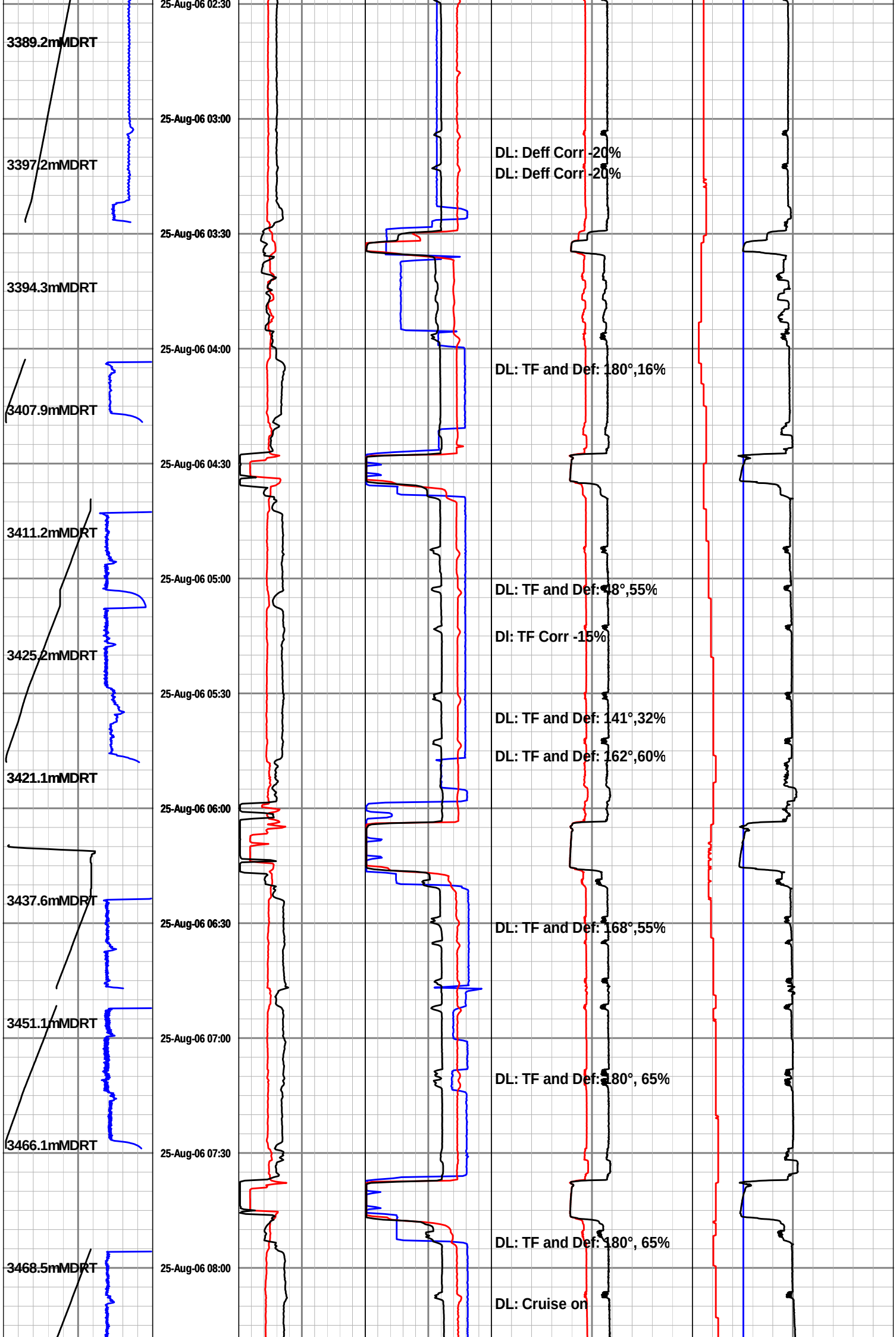
SDL Data presented as supplied by Geoservices

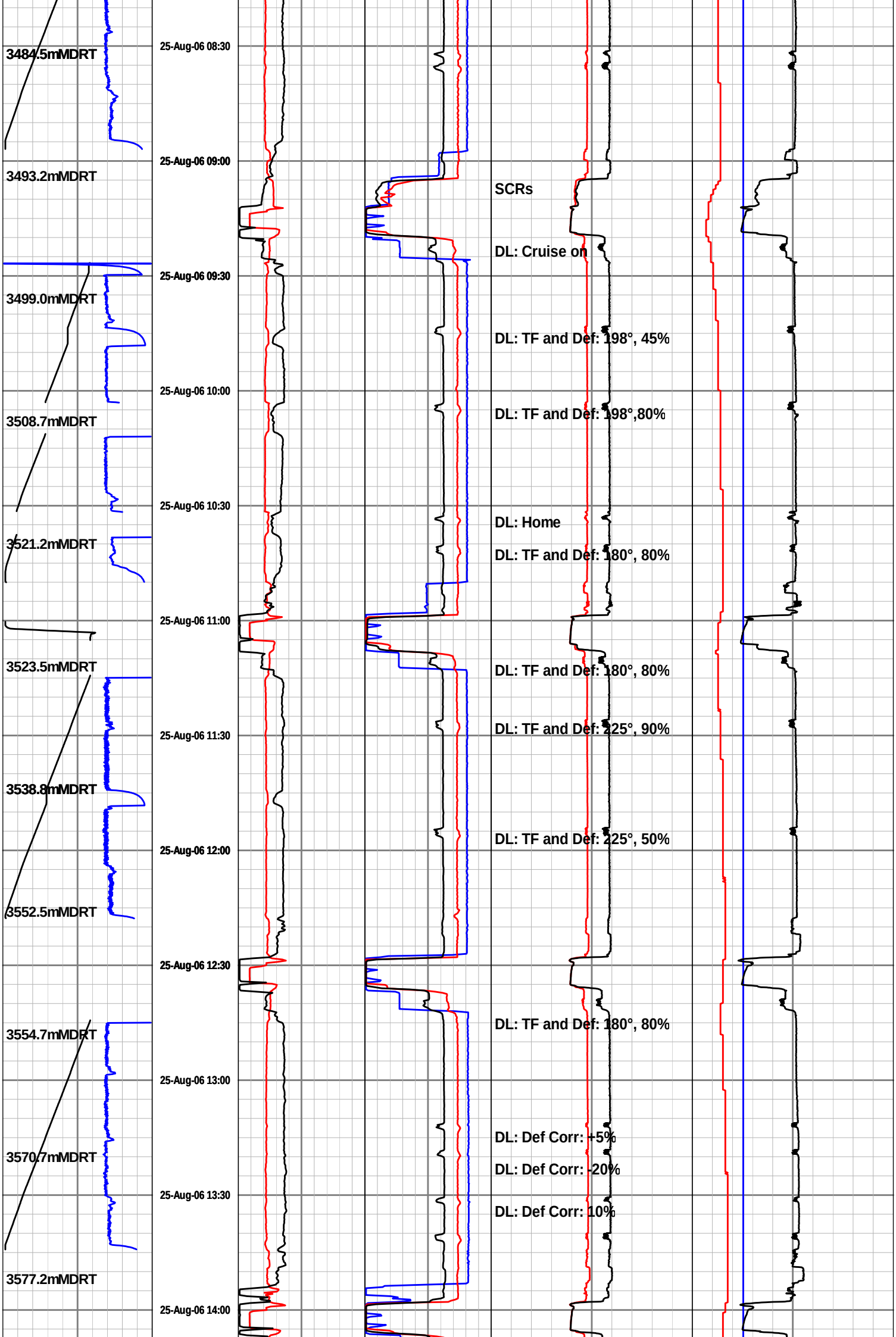


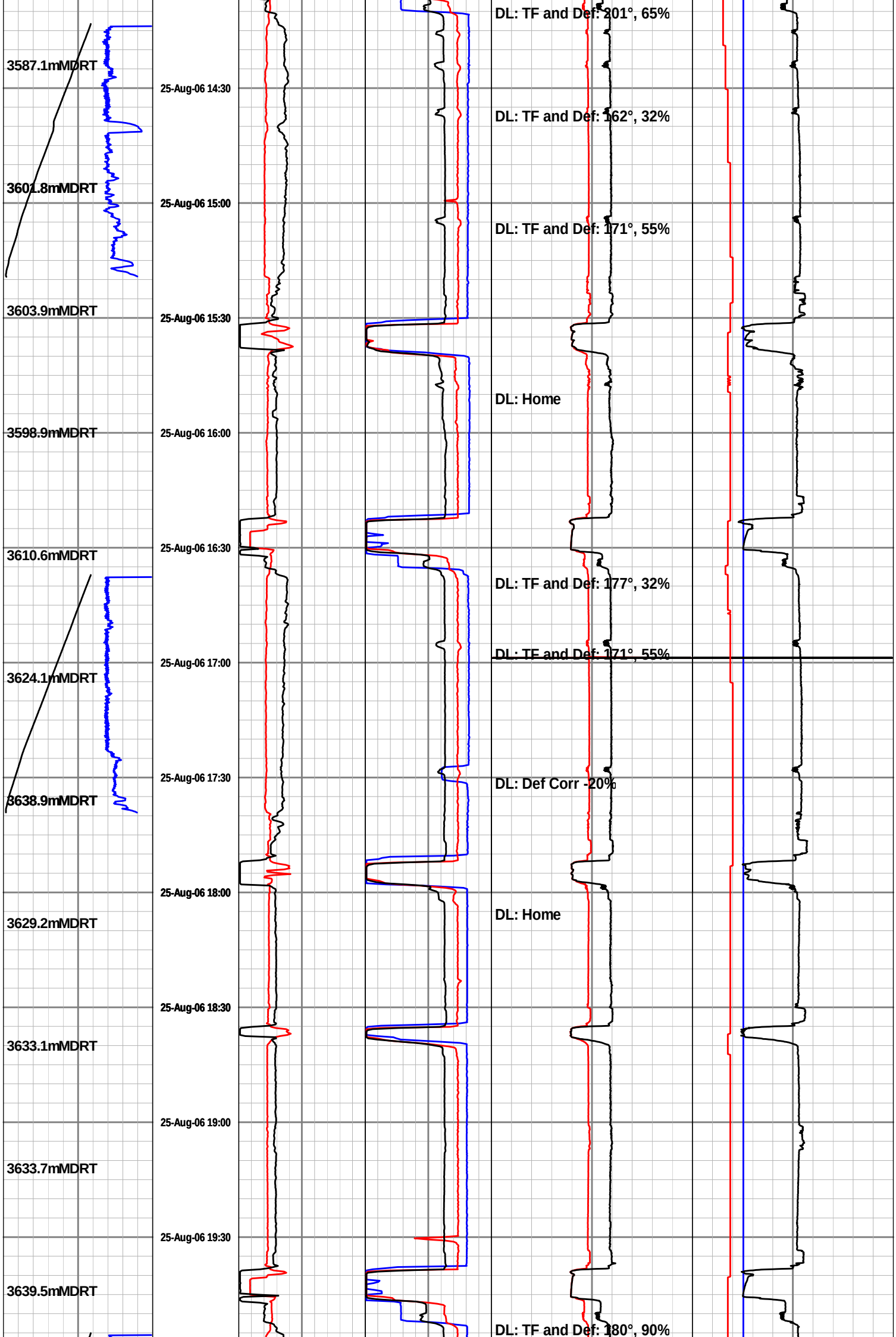

2451.9mMDRT
24-Aug-06 09:30
2626.3mMDRT
24-Aug-06 10:00
2732.5mMDRT
24-Aug-06 10:30
2827.0mMDRT
24-Aug-06 11:00
Take Surveys for Cazandra
2858.1mMDRT
24-Aug-06 11:30
2908.4mMDRT
24-Aug-06 12:00
2945.5mMDRT
24-Aug-06 12:30
3061.6mMDRT
24-Aug-06 13:00
3177.3mMDRT
24-Aug-06 13:30
3192.1mMDRT
24-Aug-06 14:00
Tag bottom
DL: Home
3196.0mMDRT
24-Aug-06 14:30
DL: TF and Def: 180°, 16%


3192.0mMDRT
3206.4mMDRT
3215.6mMDRT
3211.9mMDRT
3228.5mMDRT
3233.5mMDRT
3247.4mMDRT
3257.3mMDRT
3263.7mMDRT
3274.1mMDRT
3289.9mMDRT
24-Aug-06 15:00
24-Aug-06 15:30
24-Aug-06 16:00
24-Aug-06 16:30
24-Aug-06 17:00
24-Aug-06 17:30
24-Aug-06 18:00
24-Aug-06 18:30
24-Aug-06 19:00
24-Aug-06 19:30
24-Aug-06 20:00
24-Aug-06 20:30
DL: TF and Def: 170°, 40%
DL: TF and Def: 9°,40%
Use pumps 2 & 3 after connection - Pump 1 noisey
DL: TF and Def: 150°, 40%
DL: TF and Def Corr: +10°, +10%
DL: TF and Def: 10°,20%
DL: TF and Def: 165°,50%
DL: Def Corr: -10%
DL: TF and Def: 171°, 55%
DL: TF and Def: 162°, 40%
DL: TF and Def: 180°, 24%


3269.9mMDRT
3296.5mMDRT
3312.3mMDRT
3320.1mMDRT
3326.1mMDRT
3342.1mMDRT
3321.8mMDRT
3355.4mMDRT
3371.4mMDRT
3371.7mMDRT
3381.2mMDRT
24-Aug-06 21:00
24-Aug-06 21:30
24-Aug-06 22:00
24-Aug-06 22:30
24-Aug-06 23:00
24-Aug-06 23:30
25-Aug-06 00:00
25-Aug-06 00:30
25-Aug-06 01:00
25-Aug-06 01:30
25-Aug-06 02:00
DL: TF and Def: 180°, 80%
DL: TF and Def: 171°, 60%
DL: TF and Def: 171°, 70%
DL: TF and Def: 189°,32%
DL: Def corr: +20%
DL: TF and Def Corr: +10°, +5%
DL: TF and Def: 222°,24%
DL: TF and Def: 222°,55%
DL: TF Corr +20
DL: TF and Def: 195°,70%
DL: Def Corr -15


3389.2mMDRT
3397.2mMDRT
3394.3mMDRT
3407.9mMDRT
3411.2mMDRT
3425.2mMDRT
3421.1mMDRT
3437.6mMDRT
3451.1mMDRT
3466.1mMDRT
3468.5mMDRT
25-Aug-06 02:30
25-Aug-06 03:00
25-Aug-06 03:30
25-Aug-06 04:00
25-Aug-06 04:30
25-Aug-06 05:00
25-Aug-06 05:30
25-Aug-06 06:00
25-Aug-06 06:30
25-Aug-06 07:00
25-Aug-06 07:30
25-Aug-06 08:00
DL: Deff Corr -20%
DL: Deff Corr -20%
DL: TF and Def: 180°,16%
DL: TF and Def: 48°,55%
Dl: TF Corr -15%
DL: TF and Def: 141°,32%
DL: TF and Def: 162°,60%
DL: TF and Def: 168°,55%
DL: TF and Def: 180°, 65%
DL: TF and Def: 180°, 65%
DL: Cruise on


3484.5mMDRT
3493.2mMDRT
3499.0mMDRT
3508.7mMDRT
3521.2mMDRT
3523.5mMDRT
3538.8mMDRT
3552.5mMDRT
3554.7mMDRT
3570.7mMDRT
3577.2mMDRT
25-Aug-06 08:30
25-Aug-06 09:00
25-Aug-06 09:30
25-Aug-06 10:00
25-Aug-06 10:30
25-Aug-06 11:00
25-Aug-06 11:30
25-Aug-06 12:00
25-Aug-06 12:30
25-Aug-06 13:00
25-Aug-06 13:30
25-Aug-06 14:00
SCRs
DL: Cruise on
DL: TF and Def: 198°, 45%
DL: TF and Def: 198°,80%
DL: Home
DL: TF and Def: 180°, 80%
DL: TF and Def: 180°, 80%
DL: TF and Def: 225°, 90%
DL: TF and Def: 225°, 50%
DL: TF and Def: 180°, 80%
DL: Def Corr: +5%
DL: Def Corr: -20%
DL: Def Corr: 10%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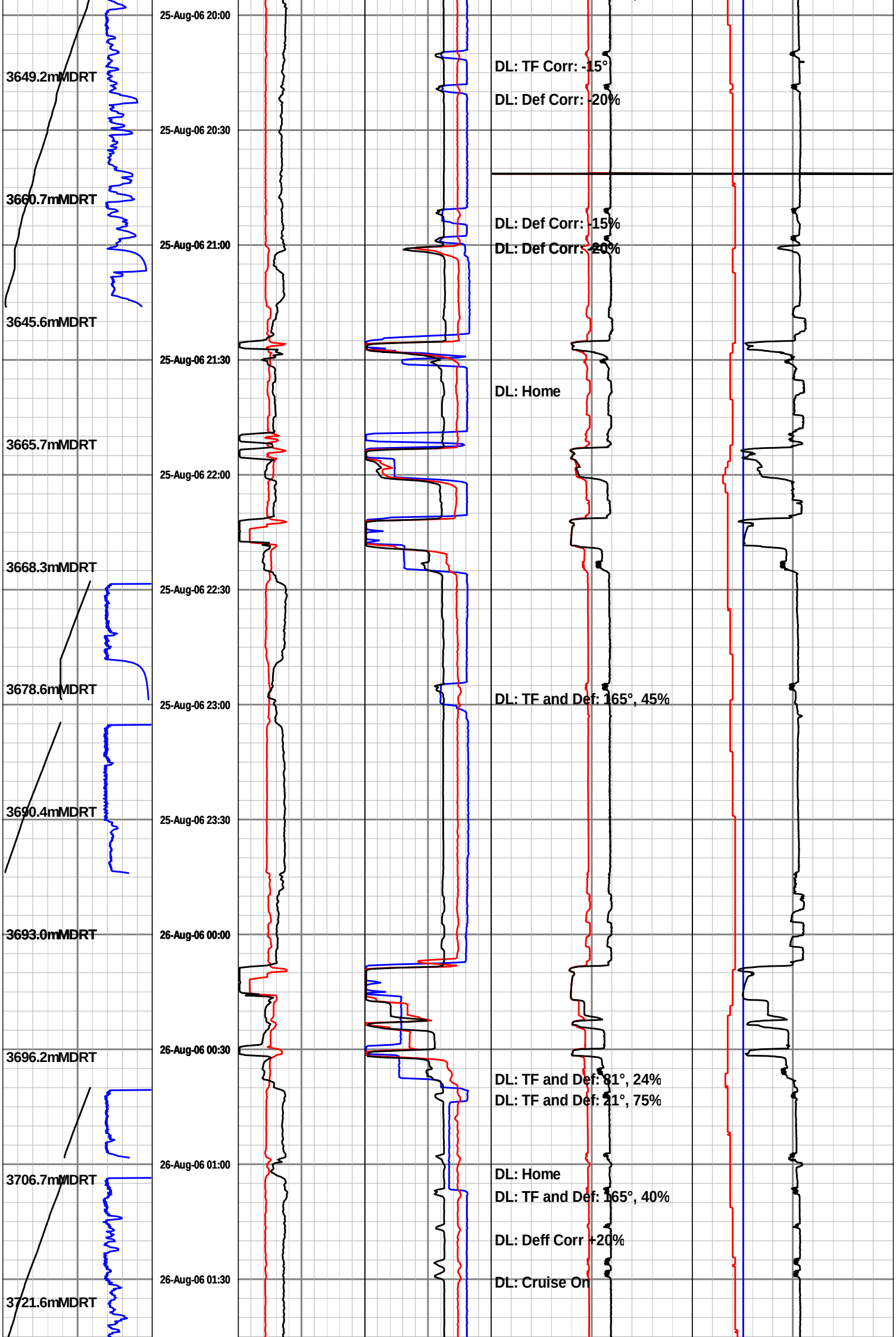
3629.2mMDRT
3633.1mMDRT
3633.7mMDRT
3639.5mMDRT
25-Aug-06 14:30
25-Aug-06 15:00
25-Aug-06 15:30
25-Aug-06 16:00
25-Aug-06 16:30
25-Aug-06 17:00
25-Aug-06 17:30
25-Aug-06 18:00
25-Aug-06 18:30
25-Aug-06 19:00
25-Aug-06 19:30
DL: TF and Def: 201°, 65%
DL: TF and Def: 162°, 32%
DL: TF and Def: 171°, 55%
DL: Home
DL: TF and Def: 177°, 32%
DL: TF and Def: 171°, 55%
DL: Def Corr -20%
DL: Home
DL: TF and Def: 180°, 90%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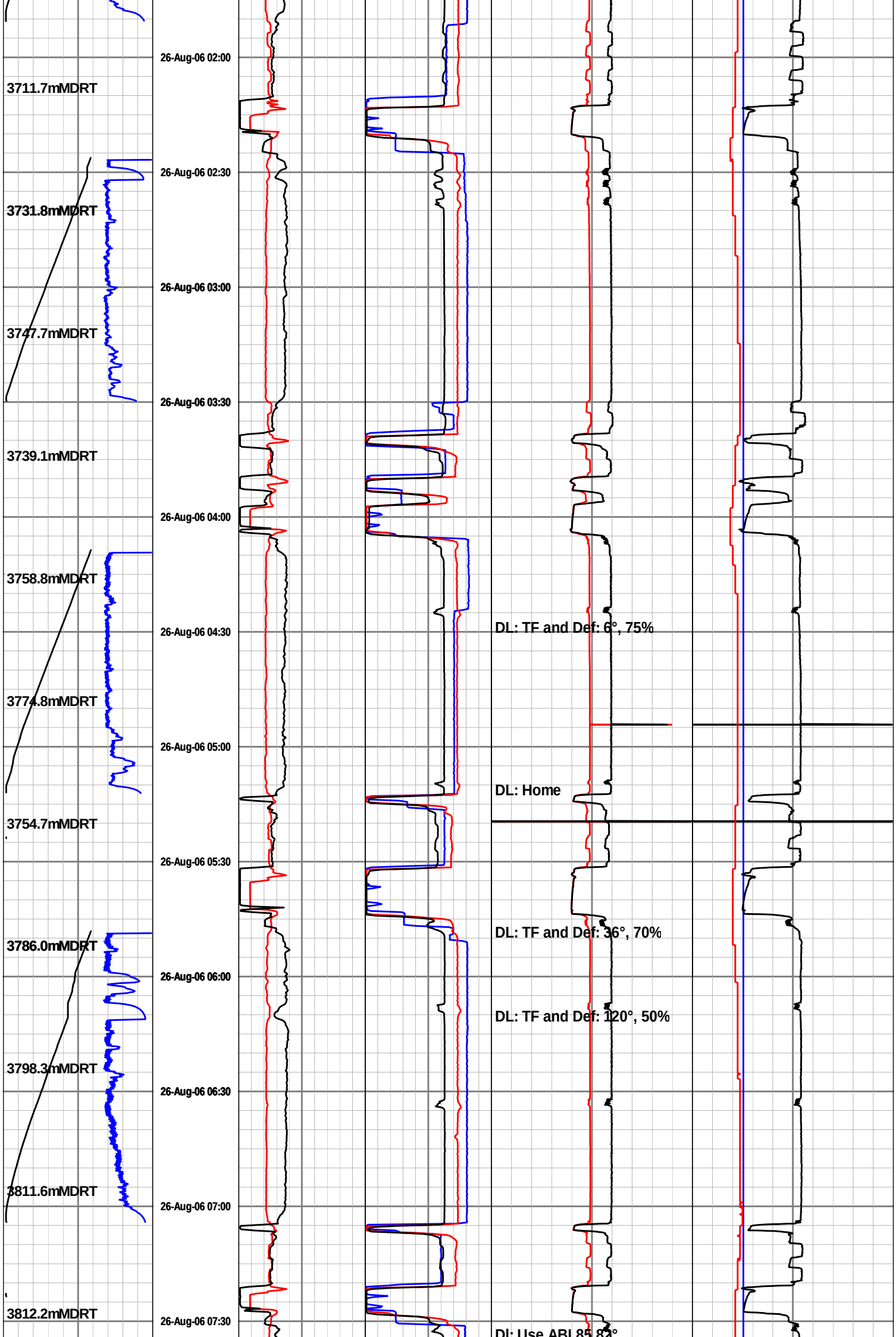
25-Aug-06 23:30
26-Aug-06 00:00
26-Aug-06 00:30
26-Aug-06 01:00
26-Aug-06 01:30
3649.2mMDRT
3660.7mMDRT
3645.6mMDRT
3665.7mMDRT
3668.3mMDRT
3678.6mMDRT
3690.4mMDRT
3693.0mMDRT
3696.2mMDRT
3706.7mMDRT
3721.6mMDRT
DL: TF Corr: -15°
DL: Def Corr: -20%
DL: Def Corr: -15%
DL: Def Corr: -20%
DL: Home
DL: TF and Def: 165°, 45%
DL: TF and Def: 81°, 24%
DL: TF and Def: 21°, 75%
DL: Home
DL: TF and Def: 165°, 40%
DL: Deff Corr +20%
DL: Cruise On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3774.8mMDRT
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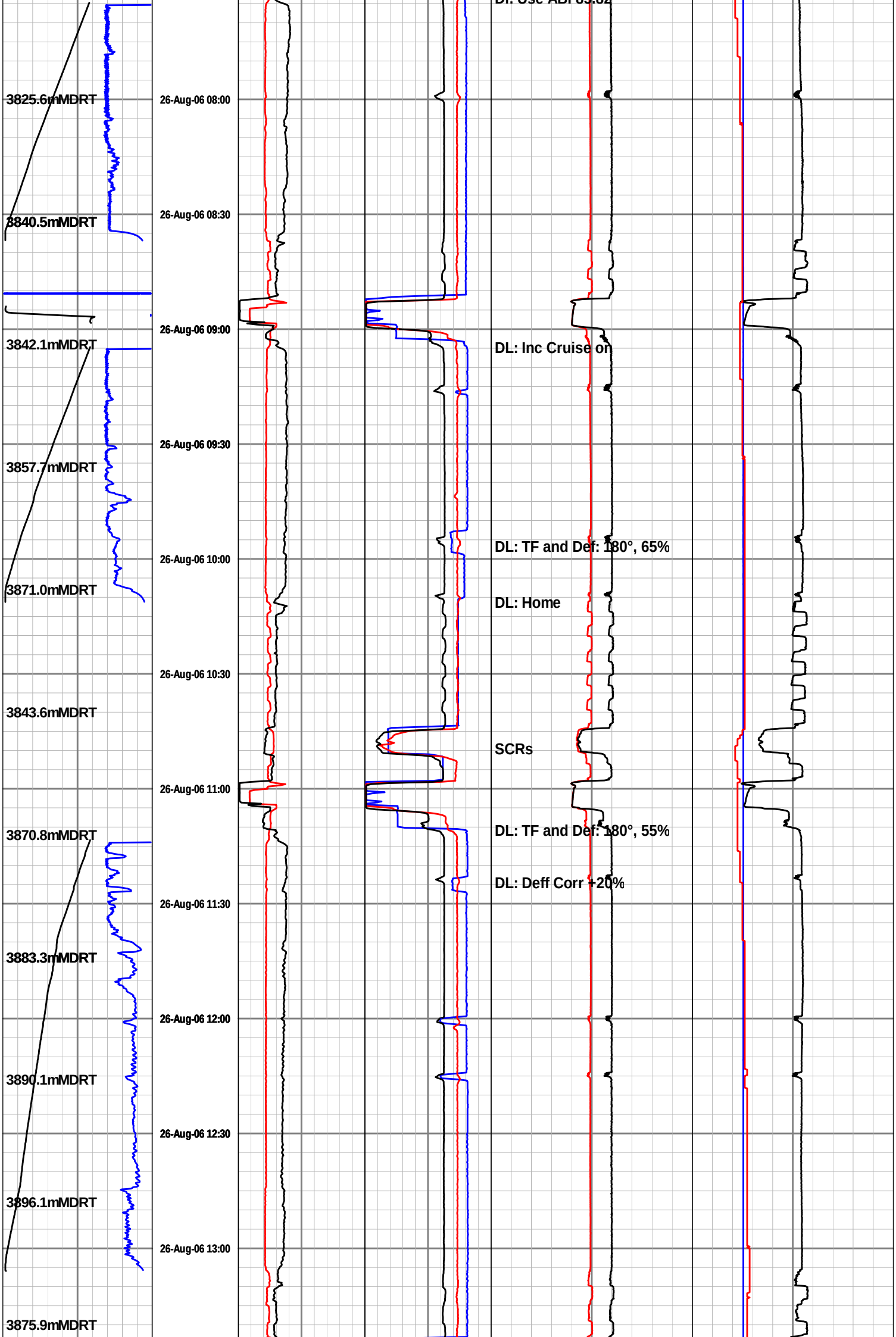
3786.0mMDRT
3798.3mMDRT
3811.6mMDRT
3812.2mMDRT
26-Aug-06 02:00
26-Aug-06 02:30
26-Aug-06 03:00
26-Aug-06 03:30
26-Aug-06 04:00
26-Aug-06 04:30
26-Aug-06 05:00
26-Aug-06 05:30
26-Aug-06 06:00
26-Aug-06 06:30
26-Aug-06 07:00
26-Aug-06 07:30
DL: TF and Def: 6°, 75%
DL: Home
DL: TF and Def: 36°, 70%
DL: TF and Def: 120°, 50%
DL: Use ABL 85 82°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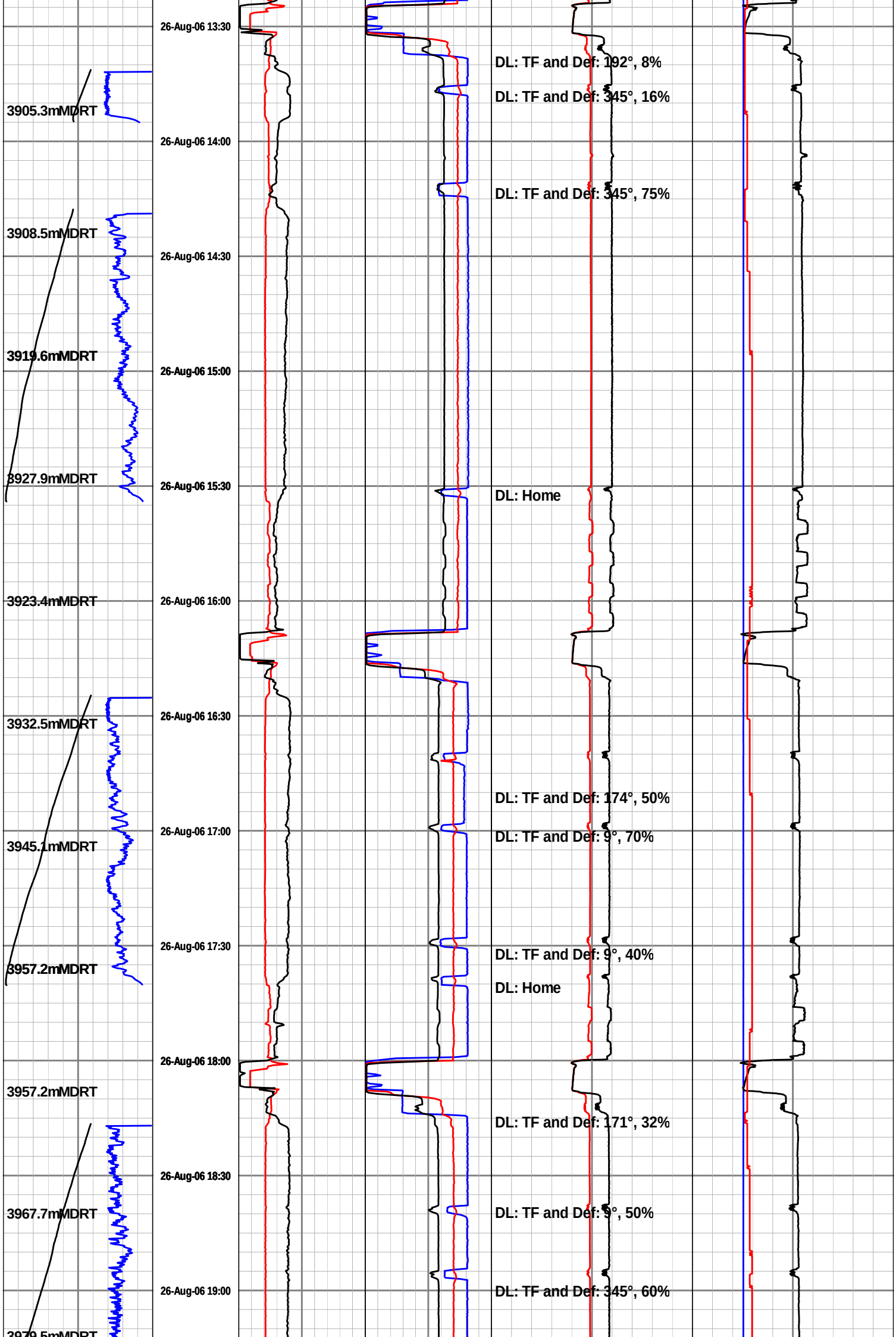
3871.0mMDRT
3843.6mMDRT
3870.8mMDRT
3883.3mMDRT
3890.1mMDRT
3896.1mMDRT
3875.9mMDRT
26-Aug-06 08:00
26-Aug-06 08:30
26-Aug-06 09:00
26-Aug-06 09:30
26-Aug-06 10:00
26-Aug-06 10:30
26-Aug-06 11:00
26-Aug-06 11:30
26-Aug-06 12:00
26-Aug-06 12:30
26-Aug-06 13:00
DL: Inc Cruise on
DL: TF and Def: 180°, 65%
DL: Home
SCRs
DL: TF and Def: 180°, 55%
DL: Deff Corr +20%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26-Aug-06 14:30
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26-Aug-06 15:30
26-Aug-06 16:00
26-Aug-06 16:30
26-Aug-06 17:00
26-Aug-06 17:30
26-Aug-06 18:00
26-Aug-06 18:30
26-Aug-06 19:00
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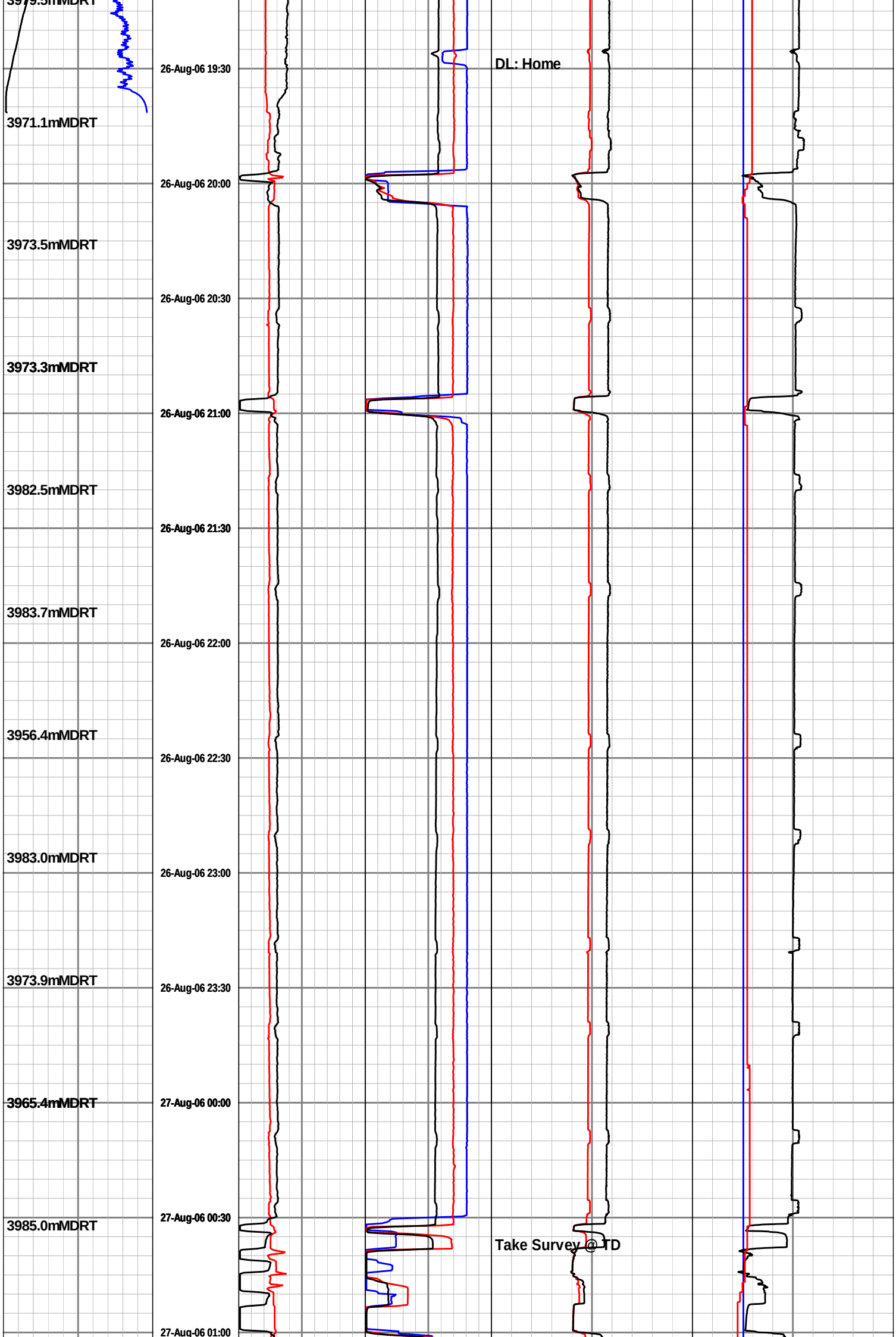
3908.5mMDRT
3919.6mMDRT
3927.9mMDRT
3923.4mMDRT
3932.5mMDRT
3945.1mMDRT
3957.2mMDRT
3957.2mMDRT
3967.7mMDRT
3979.5mMDRT
DL: TF and Def: 192°, 8%
DL: TF and Def: 345°, 16%
DL: TF and Def: 345°, 75%
DL: Home
DL: TF and Def: 174°, 50%
DL: TF and Def: 9°, 70%
DL: TF and Def: 9°, 40%
DL: Home
DL: TF and Def: 171°, 32%
DL: TF and Def: 9°, 50%
DL: TF and Def: 345°, 60%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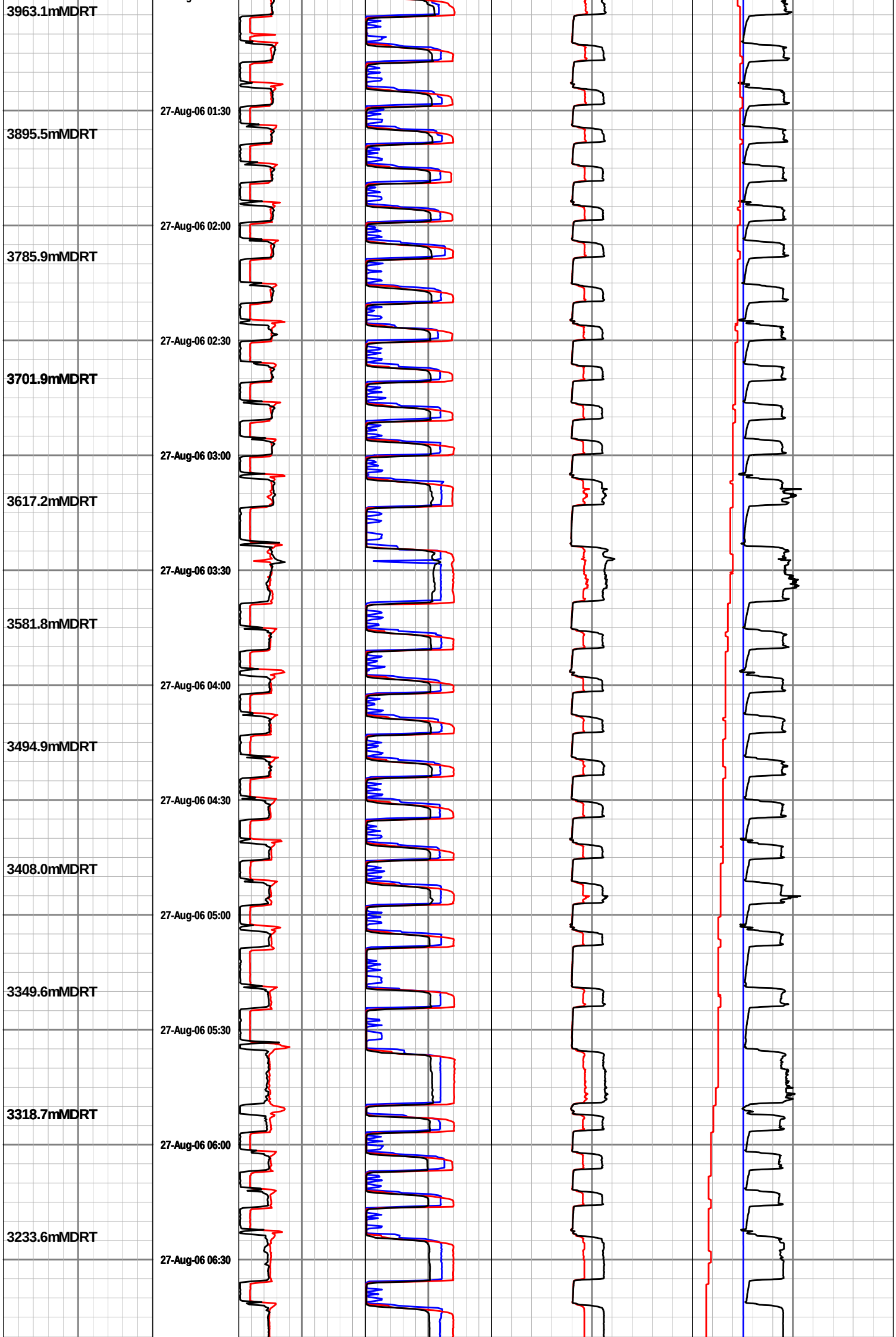
3973.9mMDRT
3965.4mMDRT
3985.0mMDRT
26-Aug-06 19:30
26-Aug-06 20:00
26-Aug-06 20:30
26-Aug-06 21:00
26-Aug-06 21:30
26-Aug-06 22:00
26-Aug-06 22:30
26-Aug-06 23:00
26-Aug-06 23:30
27-Aug-06 00:00
27-Aug-06 00:30
27-Aug-06 01:00
DL: Home
Take Survey @ TD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27-Aug-06 03:00
3617.2mMDRT
27-Aug-06 03:30
3581.8mMDRT
27-Aug-06 04:00
3494.9mMDRT
27-Aug-06 04:30
3408.0mMDRT
27-Aug-06 05:00
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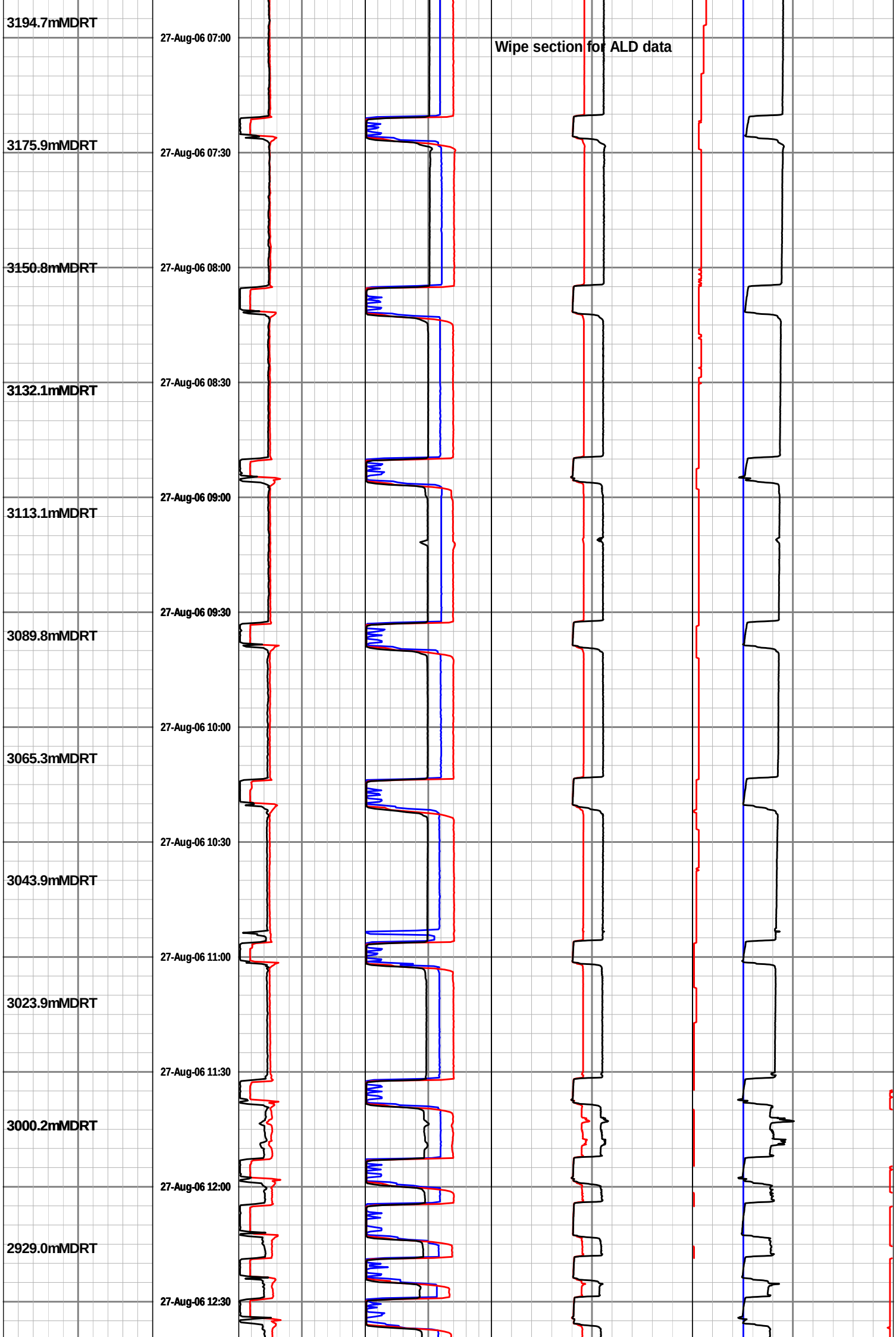
27-Aug-06 06:00
3233.6mMDRT
27-Aug-06 06:30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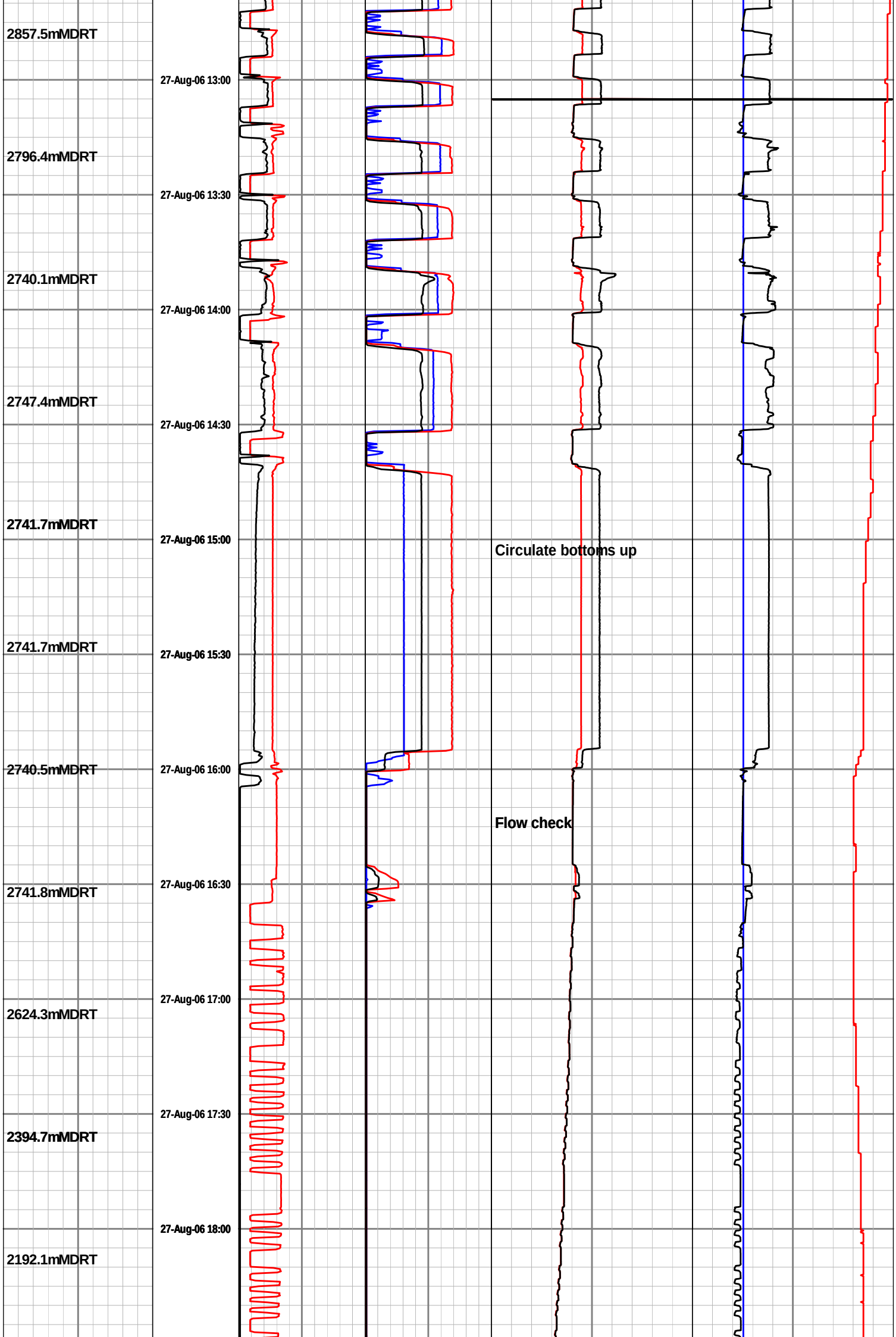
3043.9mMDRT
3023.9mMDRT
3000.2mMDRT
2929.0mMDRT
27-Aug-06 07:00
27-Aug-06 07:30
27-Aug-06 08:00
27-Aug-06 08:30
27-Aug-06 09:00
27-Aug-06 09:30
27-Aug-06 10:00
27-Aug-06 10:30
27-Aug-06 11:00
27-Aug-06 11:30
27-Aug-06 12:00
27-Aug-06 12:30
Wipe section for ALD data


2857.5mMDRT
27-Aug-06 13:00
2796.4mMDRT
27-Aug-06 13:30
2740.1mMDRT
27-Aug-06 14:00
2747.4mMDRT
27-Aug-06 14:30
2741.7mMDRT
27-Aug-06 15:00
Circulate bottoms up
2741.7mMDRT
27-Aug-06 15:30
2740.5mMDRT
27-Aug-06 16:00
Flow check
27-Aug-06 16:30
2741.8mMDRT
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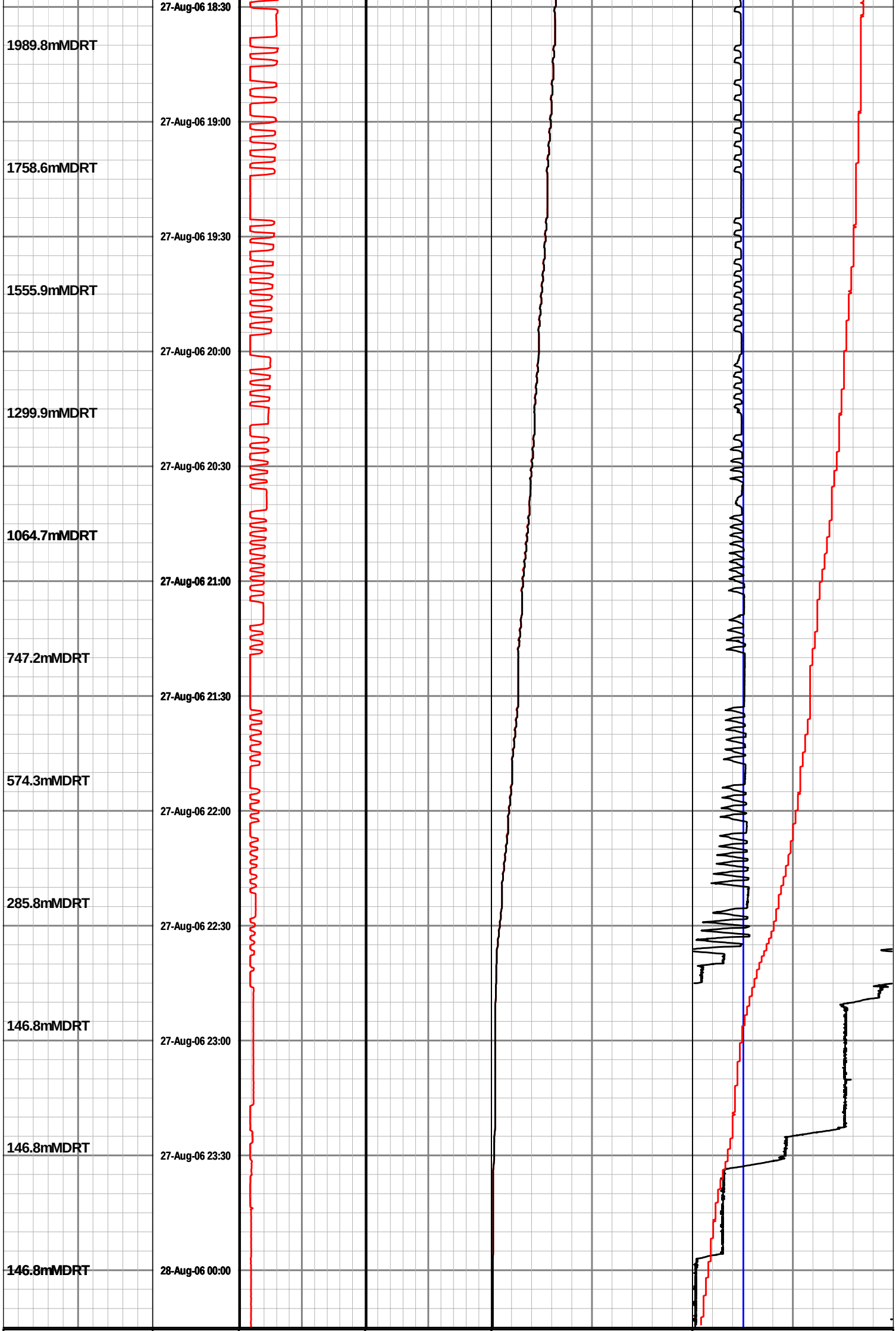
2624.3mMDRT
27-Aug-06 17:30
2394.7mMDRT
27-Aug-06 18:00
2192.1mMDRT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747.2mMDRT
27-Aug-06 21:30
574.3mMDRT
27-Aug-06 22:00
285.8mMDRT
27-Aug-06 22:30
146.8mMDRT
27-Aug-06 23:00
146.8mMDRT
27-Aug-06 23:30
146.8mMDRT
28-Aug-06 00:00

Block Position	Time	Torque	SPP	Internal Pressure-PWD	Annular EMW-PWD
0 25 50		0 25 50	0 3K 6K	0 5K 10K	1 1.5 2
metres	min	foot-klb	lbs / in2 gauge	lbs / in2 gauge	Sp Grav
ROP Avg		**Hookload**	**Flow In**	**Annular Pressure-PWD**	**Temperature**
100 50 0		0 200 400	0 500 1K	0 5K 10K	0 25 50
metre per hr		k-lbs	gallon per min	lbs / in2 gauge	celsius
			RPM		**Density Mud In**
			0 100 200		1 1.5 2
			rev per min		Sp Grav

Mud Gas Isotopes Report

Isotech Mudgas Data
Job 8222
Well: Thylacine #04
84 IsoTubes

Isotech Lab No.	Isotech Job No.	Sample Date	Sample Time	Depth 1 Meter	Well Name	Gas Units	GC Date	O_2 + Ar ppm	CO_2 ppm	N_2 ppm	CO ppm	C_1 ppm	C_2 ppm	C_2H_4 ppm	C_3 ppm	C_3H_6 ppm	iC_4 ppm	nC_4 ppm	iC_5 ppm	nC_5 ppm	C_6+ ppm	Mass Spec Date	$\delta^{13}C_1$ per mil	$\delta^{13}C_2$ per mil	$\delta^{13}C_3$ per mil
113781	8222	8/13/2006	2:00	1100	Thylacine THA #04	0	3/24/2007	219300	150	780500	0	13	0	0	0	0	0	0	0	0	0				
113782	8222	8/13/2006	5:15	1200		0.01	3/24/2007	219500	150	780300	0	8	0	0	0	0	0	0	0	0	0				
113783	8222	8/13/2006	10:46	1334		0.02	3/24/2007	211900	210	787800	60	70	1	0	1	0	0	0	0	0	0				
113784	8222	8/13/2006	15:23	1400		0.05	3/24/2007	207500	230	791700	150	385	4	13	1	2	0	0	0	0	1				
113785	8222	8/13/2006	12:50	1500		0.03	3/24/2007	206800	140	792500	50	550	4	1	1	0	1	0	0	0	1				
113786	8222	8/13/2006	21:42	1600		0.01	3/24/2007	214300	330	785300	0	34	1	2	0	1	0	0	0	0	0				
113787	8222	8/17/2006	21:51	2751		13.23	3/24/2007	189600	150	739400	140	67800	2310	7	469	3	54	54	13	8	10	4/18/2007	-37.1	-28.5	-27.2
113788	8222	8/22/2006	0:01	2770		11	3/24/2007	187800	160	714800	0	94000	2690	0	473	1	49	46	9	5	4	4/18/2007	-37.8	-28.3	-27.3
113789	8222	8/22/2006	2:00	2800		1.1	3/24/2007	205600	160	782200	100	11200	546	1	145	0	20	20	5	3	4	4/18/2007	-35.2	-27.7	-27.1
113790	8222	8/22/2006	8:51	2900		9.68	3/24/2007	188200	150	719300	0	88600	2970	2	623	1	77	75	19	11	15	4/18/2007	-37.9	-28.4	-27.4
113791	8222	8/22/2006	16:45	3000		7.88	3/26/2007	189900	130	729800	0	76600	2780	5	589	2	71	71	18	11	14	4/18/2007	-38.1	-28.6	-27.5
113792	8222	8/23/2006	0:01	3100		7.4	3/26/2007	192300	140	740900	40	63500	2370	3	521	2	65	65	18	11	19	4/18/2007	-38.3	-28.6	-27.5
113793	8222	8/24/2006	15:20	3200		6.89	3/26/2007	190600	170	742700	0	64400	1760	2	317	1	33	31	6	4	4	4/18/2007	-39.4	-29.4	-27.9
113794	8222	8/24/2006	17:42	3231		10.89	3/26/2007	185000	150	719600	0	91400	3030	4	599	2	67	65	15	9	11	4/18/2007	-38.7	-28.9	-27.7
113795	8222	8/24/2006	22:45	3300		8.6	3/26/2007	188700	160	730800	40	76400	2980	5	677	3	85	86	22	13	20	4/18/2007	-38.3	-28.5	-27.7
113796	8222	8/25/2006	4:00	3400		4.6	3/26/2007	195900	140	761600	110	40100	1600	2	409	1	57	60	18	12	22	4/18/2007	-38.1	-28.7	-27.6
113797	8222	8/25/2006	10:00	3500		6.74	3/26/2007	191000	160	745400	90	59900	2590	6	621	2	81	84	23	15	26	4/18/2007	-38.3	-28.8	-27.5
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113799	8222	8/25/2006	15:20	3600		3.4	3/26/2007	202400	230	772200	100	23500	1110	4	333	2	50	54	17	11	24	4/18/2007	-32.2	-25.8	-26.2
113800	8222	8/26/2006	1:15	3700		10	3/26/2007	187700	130	731300	40	76700	3190	5	707	3	84	84	20	12	18	4/18/2007	-38.5	-29.1	-27.9
113801	8222	8/26/2006	7:00	3800		4	3/26/2007	196600	120	768700	120	32700	1270	5	331	2	47	50	15	10	21	4/18/2007	-37.4	-28.4	-27.5
113802	8222	8/26/2006	9:15	3842		10.6	3/26/2007	187400	130	727000	30	81500	3070	9	652	4	79	81	21	13	20	4/18/2007	-37.4	-28.2	-27.1

Chemical analysis based on standards accurate to within 2%.
in blue = carbon isotope data obtained via cryogenic enrichment

Rig Positioning Report

Appendix 9

REPORT FOR THE OTWAY GAS PROJECT OFFSHORE FACILITIES INSTALLATION

SURVEY SERVICES

FUGRO SURVEY JOB NO. – P0339

TOPL JOB NO. – AP004057

Client	:	Technip Oceania Pty Ltd
		1100 Hay Street
		West Perth, 6005
	:	Western Australia
Date of Survey	:	12 November 2005 - 30 March 2006

0	Final			6 April 2006
Rev	Description	Checked	Approved	Date

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1.0 SURVEY RESULTS

1.1 The Project

Fugro Survey Pty Ltd (Fugro), Perth was contracted by Technip Oceania Pty Ltd (TOPL) to provide survey services for the Otway Gas Project - Offshore Facilities. The Otway Project is operated by Woodside Energy Ltd (WEL) and includes the Thylacine and Geographe Fields located in the Otway Basin in permits VIC P/43 and T/30P approximately 70kms offshore South West Victoria, Australia. Water depth at the fields is approximately 100m.

A general location diagram is shown as Figure 1-1.

The Otway Project consists of an unmanned platform gathering gas from four wells and piped ashore via a new 70km pipeline to a gas plant onshore. TOPL was contracted to install the jacket and topsides and used the jack up rig *Maersk Guardian* to carry out this work.

Fugro provided survey personnel and equipment on board the *Maersk Guardian* and equipment on the associated vessels. Fugro's Starfix.DGPS was used as the primary positioning system for all vessels on the project.

The offshore phase of the project was completed between 12 November 2005 and 23 March 2006. Appendix A contains the Fugro Daily Operations Reports for the work undertaken.

This report details the as-built details of the jacket and topside facilities. The geodetic parameters used and the operational survey procedures employed to complete the scope of work defined below are also described.

1.2 Scope of Work

The survey scope of work carried out included the following:

- Develop and have approved the project survey procedures.
- Prepare and test equipment in Perth ready for dispatch to the various vessels at the required ports of mobilisation.
- Install and function test a motion sensor and data logging system on the jacket tow barge at the MSE shipyard in Johor Baru, Malaysia.
- Mobilise personnel and equipment to Western Port, Portland and Geelong for installation of equipment on the JUR, support vessels and the jacket barge. This included a BMS system to remotely control the navigation and positioning systems on three AHTs.
- Re-install the motion sensor and telemetry equipment on the jacket barge to allow monitoring of barge motion during jacket launch.
- Function test, and calibrate all equipment on the JUR in Western Port prior to sail away for the field. Similarly, function test and calibrate where possible, navigation equipment installed on the various support vessels.
- Determine JUR offsets from the centre stern datum to navigation antennae by completing a closed survey traverse around the rig.

GENERAL LOCATION DIAGRAM

FIGURE 1-1

u:\p0339\dgn\figure\procedure\figure1-1.dgn

- Provide positioning assistance for the JUR and three AHT's to hook up the pre-laid temporary moorings and position the JUR on location and heading at the Thylacine location.

- Once the JUR was on location and jacked up to operating height, confirm position and determine MSL elevation by conducting carrier phase GPS observations as per the WEL specification. Process data using the Aus Pos service and provide confirmation of the results by processing at the Fugro offices in Perth.

- Provide positioning assistance for the AHT's during the launch, tow and upending of the jacket at the stern of the JUR.

- Once the jacket was on the seabed, provide checks on verticality using the installed pill bubble and the supplied digital level.

- Transfer LAT elevation from the JUR to the jacket and confirm position prior to commencement of piling operations.

- On completion of piling, re-observe GPS carrier phase observations on board the JUR and transfer height to the jacket to enable leg cut off levels to be marked relative to LAT.

- Prior to the load out of the top sides section on the tow barge, mobilise positioning equipment to the barge. The motion sensor remained configured to transmit barge motion data to the JUR for display and logging.

- Provide positioning assistance using the BMS on board the JUR to reposition the pre-laid temporary moorings and install additional moorings required for the top side's installation.

- Provide positioning assistance as required for the AHT's to bring the top sides barge into position at the stern of the JUR.

- Once the top sides have been installed, undertake survey measurements to confirm final deck elevation and level.

- Demobilise all equipment and personnel to Perth at completion of the project.

- Compile a daily report offshore listing equipment and personnel on board and detailing the events of the day.

- Compile field reports throughout the project on specific survey operations as required.

- On completion of the jacket and top sides installation phase of the Otway Gas Project and on return to Perth, complete a final as-built survey report.

1.3 Abbreviations

The following abbreviations are in use throughout this report.

AHD	-	Australian Height Datum
AHT	-	Anchor Handling Tug
APSat	-	Asia Pacific Satellite
BMS	-	Barge Management System
CM	-	Central Meridian
CRP	-	Common Reference Point
DGPS	-	Differential Global Positioning System
Fugro	-	Fugro Survey Pty Ltd.
GDA94	-	Geodetic Datum Australia 1994
GPS	-	Global Positioning System
HS & E	-	Health Safety and Environment
JHA	-	Job Hazard Analysis
JUR	-	Jack-Up Rig
LAT	-	Lowest Astronomical Tide
LSF	-	Lateral Support Frame
MGA	-	Map Grid Australia
MRDGPS	-	Multi Reference Differential Global Positioning System
MSL	-	Mean Sea Level
PDF	-	Portable Document Format
ROV	-	Remote Operated Vehicle
TOPL	-	Technip Oceania Pty Ltd
WEL		Woodside Energy Limited
WGS84	-	World Geodetic System 1984

1.4 Report Structure

This report presents the as-built results of the Otway Gas Project undertaken from the *Maersk Guardian* between November 2005 and March 2006. The report also includes details of the survey equipment used and calibrations undertaken. Descriptions of the survey operations, field procedures and a section on health, safety and environmental procedures are also included.

Information pertaining to equipment calibrations, as-laid results and other project documentation is provided in the attached appendices. This report and associated appendices are also supplied digitally in Adobe Acrobat (PDF) format.

2.0 SURVEY RESULTS

The following sections provide a summary of the survey results obtained during the project. All coordinates are in terms of the project geodesy detailed in Section 6.1 of this report.

2.1 Jack Up Rig Positioning Results

2.1.1 Final Rig Position

The *Maersk Guardian* was positioned at the Thylacine-A location at 20:44 on 18 November 2005. On completion of pre-load operations the rig was jacked-up to an air gap of 17.8m and a final position fix was taken. The final position of the *Maersk Guardian* centre stern was established by calculating the mean position from one hour of DGPS data logged between 06:02 and 07:02 on 21 November 2005. During this period, calculated centre stern coordinates from the primary and secondary positioning systems were logged at five second intervals using Starfix.Seis. Data from the primary positioning system was used for the final position calculation.

Table 2-1 summarises details of the final JUR position at the Thylacine location.

GDA94, MGA, CM 141° E		
Position	**Easting (m)**	**Northing (m)**
Design Location Thylacine A	664169.65	5655160.35
Final JUR Location	664165.59	5655155.38
Coordinate Difference	-4.06	-4.97
Radial Difference from Design	6.4m at 219.2° (Grid)	

TABLE 2-1 : FINAL JUR POSITION AT THYLACINE-A

A copy of the original rig position field report is contained in Appendix B.

2.1.2 GPS Carrier Phase Measurements

The GPS carrier phase measurements were completed between 04:45 and 10:45 on 21 November 2005. Table 2-2 summarises the results obtained which served to confirm the final position of the JUR.

GDA94, MGA, CM 141° E			
Position	**Easting (m)**	**Northing (m)**	**Height (m) (above MSL)**
Carrier Phase Position for GPS Antenna	664207.04	5655118.21	52.23
Carrier Phase Position for JUR	664165.92	5655155.35	
Final JUR Location	664165.59	5655155.38	
Difference	0.32	0.03	

TABLE 2-2 : GPS CARRIER PHASE RESULTS

2.1.3 *Final Rig Heading*

The heading of the *Maersk Guardian* at the Thylacine-A location was established by calculating the average heading during one hour of corrected gyro compass readings logged between 06:02 and 07:02 on 21 November 2005. During this period heading data were logged at five second intervals using Starfix.Seis.

Table 2-3 summarises the final heading of the *Maersk Guardian* at the Thylacine-A location.

Description	Grid	True
Design Rig Heading	135°	133.8°
Final Rig Heading	129.1°	127.9°
Difference from Design	-5.9°	

TABLE 2-3 : FINAL JUR HEADING AT THYLACINE-A

2.2 Jacket Installation Results

2.2.1 *Final Jacket Position*

The final position of the jacket was established from observations from each of the two stern survey control points to the centre of the jackets legs. From these measurements the jacket datum position could be established.

The results of final jacket position are shown in Table 2-4.

GDA94, MGA, CM 141° E		
Position	**Easting (m)**	**Northing (m)**
Design Jacket Datum	664165	5655165
Jacket Datum	664161.63	5655160.19
Difference from Design	-3.37	-4.81

TABLE 2-4 : FINAL THYLACINE JACKET POSITION

Full details of jacket position are provided in the Field Reports contained in Appendix B.

2.2.2 *Final Jacket Heading*

The final jacket heading was calculated from observations to each of the centre of legs C/3 and E/3 from the two stern survey control stations.

The results of final jacket heading are shown in Table 2-5.

Description	Grid	True
Jacket Heading	219.8°	218.6°

TABLE 2-5 : FINAL THYLACINE JACKET HEADING

Full details of final jacket heading are provided in the Field Reports contained in Appendix B.

2.2.3 *Final Jacket Elevation*

The jacket elevation was established from observations from the starboard stern survey control station. An LAT height for this control station was established from the second GPS carrier phase logging session which was undertaken on the 15 February 2006. Appendix C. contains details of the carrier phase results.

The results of the jacket and JUR elevation observations are shown in Table 2-6.

Description	Height Above LAT (m)
Jacket THY-A Top Deck (Average)	31.01
JUR Drill Floor	50.46
JUR Underside of Hull	29.51

TABLE 2-6 : FINAL THYLACINE JACKET ELEVATIONS

Full details of jacket elevations are provided in the Field Reports contained in Appendix B.

2.2.4 *Final Jacket Level*

The level survey showed that there is a maximum level difference from highest to lowest point on the top deck of 0.163m. This difference is along the X axis of the top deck which equates to +0.27° of roll over the length of top sides.

Full details of the level survey are in Appendix B.

3.0 HEALTH, SAFETY & ENVIRONMENT MANAGEMENT

3.1 Health, Safety & Environment Management

All work undertaken by Fugro personnel during the project was conducted within the guidelines of Fugro's Safety Policy as defined in Fugro's Safety Manual (FSSM01) and Offshore Survey Safety Practices (FSSM06).

The Fugro Party Chief was the designated on site Fugro Safety Representative and liaised with the TOPL HSE Coordinator on board the *Maersk Guardian* concerning all matters relating to safety.

All Fugro personnel were supplied with full personal protective equipment (PPE) and this was worn at all times when on deck.

3.2 Inductions

Fugro personnel received rig and project inductions on board the *Maersk Guardian.* Specific vessel emergency procedures and mustering details were explained to all personnel, together with the project scope of work and the identified hazards associated with the tasks to be carried out.

A summary of all inductions held during the project is contained in Table 3-1.

Date	Induction	Location
13 November 2005	Rig Safety Induction – 2 Fugro personnel	*Maersk Guardian*
15 November 2005	Rig Safety Induction – 1 Fugro personnel	*Maersk Guardian*
28 November 2005	TOPL Project Induction	*Maersk Guardian*
13 December 2005	Rig Safety Induction – 1 Fugro personnel	*Maersk Guardian*
15 February 2006	Rig Safety Induction – 1 Fugro personnel	*Maersk Guardian*
22 February 2006	Rig Safety Induction – 1 Fugro personnel	*Maersk Guardian*

TABLE 3-1 : SUMMARY OF INDUCTIONS

3.3 Safety Meetings & Drills

A summary of all safety meetings and drills held during the project is contained in Table 3-2.

Date	Meeting/Drill	Location
14 November 2005	Abandon Rig Drill and Emergency Muster	*Maersk Guardian*
15 November 2005	Fire Drill and Emergency Muster	*Maersk Guardian*
22 November 2005	Abandon Rig Drill and Emergency Muster	*Maersk Guardian*
26 November 2005	Fire Drill and Emergency Muster	*Maersk Guardian*
27 November 2005	Rig Safety Meeting	*Maersk Guardian*
30 November 2005	Fugro Safety Meeting	*Maersk Guardian*
3 December 2005	Abandon Rig Drill and Emergency Muster	*Maersk Guardian*
10 December 2005	Fire Drill and Emergency Muster	*Maersk Guardian*
15 December 2005	Fugro Safety Meeting	*Maersk Guardian*
17 December 2005	Abandon Rig Drill and Emergency Muster	*Maersk Guardian*
31 December 2005	Fire Drill and Emergency Muster	*Maersk Guardian*
7 January 2006	Fugro Toolbox Meeting	*Maersk Guardian*
18 February 2006	Fire Drill and Emergency Muster	*Maersk Guardian*
25 February 2006	Fire Drill and Emergency Muster	*Maersk Guardian*

TABLE 3-2 : SUMMARY OF PROJECT SAFETY MEETINGS/DRILLS

Copies of the minutes of the Fugro safety meetings are contained in Appendix D.

3.4 Job Hazard Analysis

Prior to the commencement of any key survey tasks, for example, equipment mobilisation, a Job Hazard Analysis (JHA) was undertaken. This is a method of evaluating step by step the risks involved with the process and then looking at ways in which that potential risk can be eliminated or, as a minimum, protected against. The JHA involves clear documentation of the task and any specific variations and actions required for the particular equipment or vessel set-up.

For survey tasks identified in the Hazard Register the JHA was reviewed whereas for other tasks a new JHA was carried out. Table 3-3 summarises the project specific JHAs undertaken.

Date	JHA Reference	JHA Description
25 November 2005	SMS-J24	Vessel Transfer at Sea (Review)
30 November 2005	SMS-J27	Mobilisation of Anchor Handling Vessels (Review)
1 December 2005	F001	Survey Observations at Rig Stern
15 February 2006	-	Technip JHA for Working on Jacket

TABLE 3-3 : JOB HAZARD ANALYSIS

3.5 Reported Hazards and Incidents

Fugro personnel utilised the hazard reporting systems on board the *Maersk Guardian*. No safety incidents involving Fugro personnel were encountered and no injuries were suffered during the project.

4.0 SURVEY OPERATIONS

4.1 Sequence of Events

The offshore phase of the project was carried out between 12 November 2005 and 23 March 2006. A brief summary of the installation program is presented in Table 4-1. For more detailed information refer to the Daily Operations Reports provided in Appendix A of this report.

Installation Dates		Description
From	To	
12 Nov 2005		Two Fugro personnel travel Perth to Melbourne.
13 Nov 2005	14 Nov 2005	Personnel and equipment transferred to *Maersk Guardian* at Western Port. Two additional Fugro personnel transfer to rig from *Maersk Supporter*. Complete mobilisation of JUR and check equipment on *Pacific Wrangler* and *Far Grip*.
15 Nov 2005		Two personnel mobilise survey equipment to *Lady Gerda* and jacket barge in Geelong. Undertake survey traverse on JUR.
16 Nov 2005		One personnel return to Perth. One personnel travel to Portland to check equipment on *Pacific Wrangler.* Complete calibrations on board JUR.
16 Nov 2005	18 Nov 2005	*Maersk Guardian* towed to site and positioned at Thylacine location.
17 Nov 2005		One personnel travel Portland to Perth.
19 Nov 2005	21 Nov 2005	Rig completing pre-load operations. Re-positioning of pre-laid moorings. Observation of GPS carrier phase data.
22 Nov 2005	10 Dec 2005	*Maersk Guardian* at Thylacine awaiting arrival of jacket barge.
30 Nov 2005		Survey equipment mobilised to the *Ray J Hope.*
30 Nov 2005	1 Dec 2005	Jacket barge on location at Thylacine, decision made not to proceed with launch and installation of jacket. Barge returns to Geelong.
10 Dec 2005	11 Dec 2005	Jacket barge on location at Thylacine, launch operations commenced. Launch abandoned and barge returned to Portland.
12 Dec 2005		*Maersk Guardian* at Thylacine awaiting arrival of jacket barge. One Fugro personnel depart JUR and travel to Perth.
13 Dec 2005		One Fugro personnel arrive on board JUR.
16 Dec 2005		One Fugro personnel depart JUR.
19 Dec 2005		One Fugro personnel arrive on board JUR.
20 Dec 2005	21 Dec 2005	Jacket barge on location at Thylacine, launch operations commenced. Launch abandoned and barge returned to Portland.
21 Dec 2005		Two Fugro personnel depart JUR.
31 Dec 2005		Two Fugro personnel arrive on board JUR.
5 Jan 2006	6 Jan 2006	Jacket barge on location at Thylacine, jacket launched, upended and landed on seabed.
7 Jan 2006	8 Jan 2006	Conduct verticality, orientation and offset checks on jacket.
10 Jan 2006	12 Jan 2006	Fugro personnel transfer to *Maersk Supporter* to carry out topside anchor deployment.
12 Jan 2006		Two Fugro personnel depart JUR.
2 Feb 2006		One Fugro personnel arrive on board JUR.

Installation Dates		Description
From	To	
4 Feb 2006	5 Feb 2006	Deploying S2 & S3 anchors from *Maersk Supporter.*
6 Feb 2006		Compiling report on anchor deployment locations and checking requirements for two phase based GPS positions for height.
7 Feb 2006		One Fugro personnel depart JUR.
14 Feb 2006		One Fugro personnel arrive on board JUR. Logging data for GPS carrier phase data to determine height.
15 Feb 2006		One Fugro personnel arrive on board JUR.
16 Feb 2006		Transferring level to jacket and marking cut off elevation at 9.4m LAT.
17 Feb 2006		Relocating positions of S3, S4 & P1 anchor buoys.
18 Feb 2006	22 Feb 2006	Standing by for top sides barge.
22 Feb 2006		One Fugro personnel depart and one arrived on JUR.
23 Feb 2006		Standing by for top sides barge.
24 Feb 2006	25 Feb 2006	Connecting top sides barge to anchors.
26 Feb 2006	27 Feb 2006	Top sides lifted off barge, disconnecting anchor wires from barge. Demobilised *Maersk Guardian*.
27 Feb 2006		Two Fugro personnel depart JUR.
28 Feb 2006	2 Mar 2006	Demobilising top sides barge and Lady Gerda AHT in Portland.
23 Mar 2006		One Fugro personnel arrived on JUR. Carrying out final as-built survey on THY-A Jacket.
24 Mar 2006		One Fugro personnel departed JUR.
29 Mar 2006		Travelling to Portland
30 Mar 2006		Demobilising *Maersk Supporter*

TABLE 4-1 : INSTALLATION SUMMARY

4.2 Project Preparations

Prior to mobilisation for the offshore phase of the work, there was a period of preparation in order to organise the equipment and personnel and to put together a plan for the conduct of the survey support services. A key component of the preparation was the compilation of project documentation. This process involved interaction between Fugro, TOPL and WEL to produce health, safety, environmental, quality management and operational procedures.

4.3 Mobilisation

Two Fugro personnel travelled from Perth to Melbourne on 12 November 2005, and transferred the following day to the JUR *Maersk Guardian*. The survey equipment was loaded in a container and arrived on board the rig later that day. Mobilisation took place with the JUR on the heavy lift vessel *Transshelf'* at anchor at Western Port. Two additional Fugro personnel transferred from the *Maersk Supporter* to the JUR on 14 November 2005. This vessel had been involved in the installation of temporary moorings offshore and was therefore left mobilised as an AHT.

All navigation and survey equipment were installed in the jacking control room of the *Maersk Guardian* and navigation and telemetry antennae mounted in clear locations on the control room roof and adjacent to the helideck. The installed navigation equipment and gyro compass were interfaced to the navigation computer and a helmsman display provided for the rig tow master.

Prior to the JUR departing Western Port on 16 November 2005, DGPS checks and gyro calibrations were completed to demonstrate correct operation of these systems. An offset traverse was undertaken using a Total Station instrument to accurately locate the GPS antenna relative to the centre stern of the JUR.

For the rig move operations the AHTs *Far Grip* and *Pacific Wrangler* were to be used and it was required to mobilise these vessels with positioning packages that would operate with the rig BMS. Both vessels were mobilised with DGPS and telemetry equipment from a previous contract and therefore it was required only to install modems operating at the correct BMS frequency. Personnel visited each vessel prior to the tow to site to install the modem and check that systems were operational.

For the jacket and top sides installation the *Lady Gerda* and *Ray J Hope* were mobilised with positioning and telemetry equipment. The *Lady Gerda* was mobilised in Geelong on 15 November 2005. The jacket barge was in Geelong at this time and the required motion sensor and telemetry equipment were installed in the winch room on the barge and connected to a battery supply. The *Ray J Hope* was mobilised offshore on 30 November 2006, with personnel transferring with the equipment from the JUR to complete this mobilisation.

The top sides barge was mobilised in Geelong on the 22 February 2006, with a motion sensor and telemetry equipment. In addition to this, DGPS was installed with telemetry so the movement of the top sides barge could be monitored from the JUR using the BMS system.

4.4 General Positioning

The *Maersk Guardian* and all support vessels used Fugro's Starfix positioning systems for surface positioning throughout the project. The Starfix reference stations used to provide accurate differential corrections during the project were Melbourne, Ceduna, Cobar and Bathurst.

A scaled outline of the *Maersk Guardian* was displayed at all times on the navigation screen on board the JUR. The BMS system permitted the location of all AHTs with survey equipment installed and within telemetry range of the JUR to also be displayed. An as-laid database was also displayed on the screen to indicate the location of the Thylacine-1 wellhead, the pre-installed anchors and surface pennant buoys.

Similar navigation displays were available on each AHT such that each vessel was able to see its location with respect to all other vessels, including the JUR. Any amendments to the as-laid database were transmitted by radio modem to ensure information on the AHT navigation screens remained current.

4.5 Jack Up Rig Positioning

The *Maersk Guardian* was towed out from Western Port by the AHTs *Maersk Supporter* and *Far Grip* on 16 November 2005. The position of the channel markers in the Western Channel were displayed on the navigation screen and a tow route as supplied by WEL was entered to the navigation computer.

The JUR arrived at the Thylacine-A location on 17 November 2005, and the legs were jacked down to approximately 50m above the seabed whilst an assessment was made of the prevailing weather conditions. The *Pacific Wrangler* arrived on location to assist with the rig positioning and the location of all vessels was monitored using the BMS on board the *Maersk Guardian.* The JUR remained under tow outside of the pre-installed mooring system until the following day when the decision was made to make use of the current weather window to pin the JUR on location.

Due to the time required to connect to the pre-installed moorings and the possibility of deteriorating weather conditions it was decided not to connect to the mooring system but to use the three AHTs to statically position the JUR. The design heading and location of the JUR were displayed as a template on the navigation screen and range and bearing information provided to assist in positioning the rig within the required tolerance.

The three AHTs were connected to the JUR and under the control of the tow master, each vessel was positioned on DP to bring the rig to the correct heading and position. Figure 4-1 shows an example of the navigation screen made available to the tow master to assist with this operation.

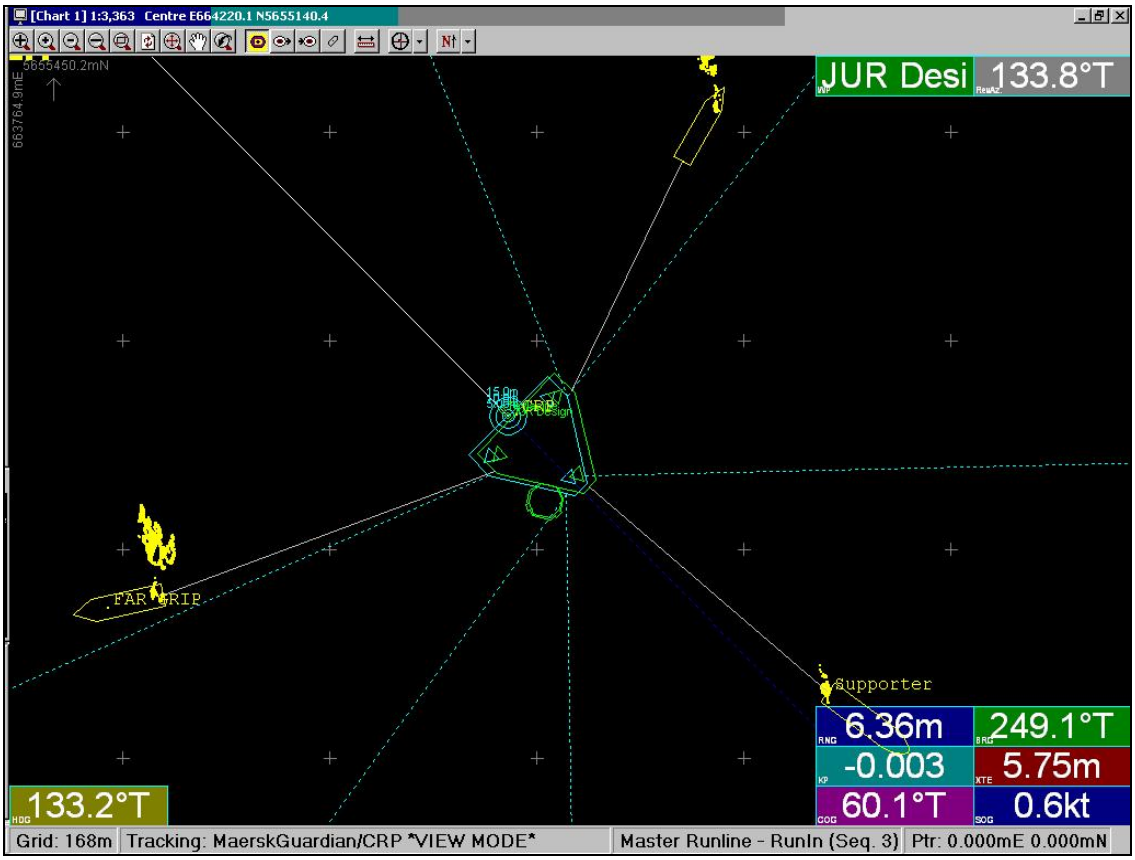


FIGURE 4-1 : EXAMPLE NAVIGATION DISPLAY DURING FINAL JUR POSITIONING

The legs were lowered and the JUR pinned on location at 20:44 on 18 November 2005. A preliminary position and heading were determined prior to preload operations. The preload was completed on 21 November 2005, and the rig jacked up to its working air gap of 17.8m.

Final position and heading for the *Maersk Guardian* was determined by logging one hour of data, at an interval of five seconds, from the primary DGPS and the gyro compass. Appendix B contains a copy of the issued field report detailing final mean position and heading relative to design.

To provide confirmation of position and determine an elevation datum, it was required to observe GPS carrier phase data on the JUR at completion of the preload operations. A Trimble SSE dual frequency GPS receiver with ground plane antenna was mobilised for this purpose and the antenna sited at an optimum location to minimise signal reflections. On 21 November 2005, data was logged at a 15 second interval for a period of six hours.

The data was sent ashore for processing and the results obtained were checked by on board processing with Trimble software, GPSurvey. The final solution used baseline data logged at Melbourne, Hobart and Tidbinbilla in New South Wales.

The processed results also yielded an ellipsoidal height for the phase centre of the GPS antenna. It was necessary to correct this height to AHD and the ellipsoid-geoid separation was obtained from Geoscience Australia. A further correction to LAT was then applied using the vertical datum information detailed in Section 6.3 of this report.

4.6 Jacket Installation

Preparations for the jacket installation included the transfer of elevation from the GPS antenna datum to two of the JUR legs. This ensured the elevation datum was not lost when the rig hull was jacked to a different position during the jacket installation operations. A combination of vertical tape measurements and tilting level observations were used to transfer the LAT elevation at the GPS antenna to fixed reference points on the bow and port legs of the JUR.

After a period of time waiting for a suitable weather window to commence jacket installation operations the jacket barge was towed to site from Portland on 29 November 2005. The launch of the jacket was aborted due to the JUR not being ready and the jacket barge was towed to Portland. The jacket barge was again towed out to site on the 10 December 2005, however the launch was aborted due to engineering problems and the jacket barge was returned to Portland. On 19 December 2005, the jacket barge was towed out to site but the jacket launch was again aborted and returned to Portland. After returning to Portland the barge was refitted to overcome the engineering problems and was towed out to site on 4 January 2006. The jacket was launched, upended and landed on the seabed between 5 and 7 January 2006. The position and heading of the jacket was controlled by the LSF and on the JUR consequently no positioning services were required.

Once the jacket had been landed and secured in the LSF a check was conducted for verticality using a digital builder's level. A copy of the field report detailing the results of the survey can be found in Appendix H.

On 8 January 2006, after the jacket had been ballasted down, an orientation and offset check was conducted. Observations were made to the centre of the tower legs using a total station from two survey stations situated on the port and starboard extremities of the JUR's stern. From these observations a coordinate was calculated for the datum point and also the orientation of the jacket. Elevations from the JUR leg bench marks were transferred down to the stern stations and then transferred to the +18.5m elevation horizontal frame on the jacket using a total station.

4.7 Topside Anchor Deployment

Prior to the arrival of the top sides barge an eight anchor mooring system was installed in accordance with Technip Drawing No. AP004057-190-DW-3842-002. Positioning was monitored from the *Maersk Supporter* and the final position of the anchors is an estimate based on pre-tension load of 80 Te and subsequent catenary calculations using client supplied software. Appendix H contains a field report that details the final positions of the topside anchors.

4.8 Top Sides Installation

The top side was transferred from a heavy lift vessel to the barge at Geelong. A radio modem was installed on the barge to transmit motion data to the JUR. A BMS system was also mobilised onto the barge. This allowed personnel on the JUR to track all tugs and the barge.

The BMS on the JUR was utilised to track the top sides barge and all AHT's during hook up of the top sides barge to the preinstalled mooring system. Motion data (heave, pitch, roll, and accelerations in heave, pitch, and roll) were displayed graphically on the JUR. Data for the past 30 minutes was displayed and all data was logged. The OCM used the information along with weather forecasts to decide on when to bring the barge into position under the JUR derrick.

The top sides barge was moved into final position on the 26 February 2006, using visual means as the DGPS system was receiving multipath errors from the JUR structure. Once in position and the weather conditions were right the top side was lifted from the barge and left suspended from the derrick until jacket readiness.

The BMS was used again to assist in removing the top sides barge from the eight anchors and out of the field on the 26 and 27 February 2006.

GPS carrier phase observations were completed on February 2006, prior to the top deck being installed, GPS data was logged over 24 hours at two locations one on each stern leg. This was used to determine an LAT height of the GPS antennas with post processing and thus transfer LAT heights to the jacket and control points around the JUR.

The LAT height of the top deck was transferred by total station on the 23 March 2006, from the starboard control point on the JUR. A number of observations were taken on both face left and face right of the instrument. The level survey was also carried out on the top deck on the 23 March 2006, a total of eight points were taken around the top sides to give a good spread around the deck level.

It should be noted that there was movement on both the JUR and the jacket due to the large swell at the time making levelling of the instruments challenging.

Appendix B contains a field report that details the LAT height and level survey.

4.9 Demobilisation

Due to the extended nature of the project a number of personnel and equipment demobilisations were undertaken prior to the completion of the scope of work on 30 March 2006. Full details are provided in the Daily Operations Reports contained in Appendix A.

The AHTs *Far Grip* and *Pacific Wrangler* were required for the rig move operations only and went off charter on 18 and 22 November 2005, respectively. Survey equipment remained on board apart from the telemetry modems which were demobilised to the *Maersk Guardian.*

The *Maersk Guardian* was demobilised on 27 February 2006, of all BMS equipment. A minimal amount of land survey equipment was left on board to carry out the remaining as-built survey work on the top sides.

The top sides barge and the *Lady Gerda* were demobilised in Portland on 1 March 2006. The *Maersk Supporter* was demobilised in Portland on 30 March 2006.

4.10 Processing and Reporting

After completion of the offshore phase of the project, all electronic survey data was backed up for return to Fugro's Perth office for processing and final reporting. The processing and charting procedures used are explained below.

The positioning data obtained were of good quality and the compilation and processing of the recorded data was completed offshore.

5.0 EQUIPMENT CALIBRATION, VERIFICATION AND OPERATION

5.1 Gyro Compass Calibration

To provide vessel heading information during the Otway Gas Project jacket and top sides installation the *Maersk Guardian* was mobilised with an SG Brown Meridian gyro compass. This was installed in the jacking control room and was interfaced to the navigation computer.

Calibration of the gyro compass was undertaken by two different methods prior to the rig being floated off the heavy lift vessel, *Transshelf,* in Western Port, Victoria. The initial method adopted was to observe an angle, relative to rig heading, from the helideck of the *Maersk Guardian* to the main mast on the *Maersk Supporter.* The position of the mast was known and was being transmitted to the rig using Starfix.Wombat. This enabled a true bearing to be computed between the observing position and the mast, to which the observed angle could be applied to determine a computed rig heading.

The second method of calibration was by sun azimuth observations using a Wild T1000 theodolite set up on the helideck and a reference bearing established parallel with the centreline of the rig. Observed angles from the reference to the sun were applied to the computed sun azimuth to determine a true heading for the rig. For both methods of calibration the observed gyrocompass values were logged with Starfix.Seis during the period of survey observations and a gyro correction value was determined by comparing computed rig heading with the observed values.

The mean correction determined from both calibration exercises is summarised in Table 5-1.

Gyro Compass	Calibration Method	Correction
SG Brown (S/N 137393)	Observation to *Maersk Supporter*	-1.02°
SG Brown (S/N 137393)	Sun Azimuth	-0.63°
	Mean Correction	**-0.82°**

TABLE 5-1 : GYRO CALIBRATION RESULTS

The mean correction value was entered to the navigation computer to correct all interfaced gyro values obtained during the project.

Full details of the gyro calibrations and the observations made are provided in Appendix E.

5.2 DGPS Operation and Verification

To provide surface positioning for the *Maersk Guardian* during the rig move, the vessel was mobilised with two Fugro Starfix Differential GPS systems. These systems were installed, interfaced to the navigation computer and configured to provide three navigation solutions using differential corrections from reference stations at Melbourne, Cobar, Ceduna and Bathurst. Corrections were delivered to the vessel from the Optus and APSat communications satellites. Table 5-2 summarises the three navigation solutions available.

System	Description	Corrections
Primary	Starfix HP	Melbourne, Cobar, Ceduna, Bathurst (OPTUS)
Secondary	Starfix GSS	Global corrections
Tertiary	Trimble/Starfix.MRDGPS	Melbourne, Cobar, Ceduna, Bathurst (APSAT)

TABLE 5-2 : JUR DGPS CONFIGURATION

Mobilisation of the *Maersk Guardian* was undertaken at Western Port whilst the rig was still on the heavy lift vessel and therefore the method of verifying correct operation of the DGPS was restricted to a range and bearing observation to the *Maersk Supporter.* The DGPS on this vessel had been checked previously whilst alongside at Portland, Victoria. Appendix F contains details of the DGPS verification undertaken on board the *Maersk Supporter.*

Prior to the position check, all rig offsets had been confirmed by traverse and the gyro compass had also been calibrated. A total station instrument was set up on the helideck and used to observe range and bearing measurements to a prism on the mast of the *Maersk Supporter.* Position data from the vessel was telemetred to the rig and logged to enable a comparison between computed and observed positions to be made.

A summary of the results of this verification check is shown in Table 5-3.

Position	Mean C-O East (SD)	Mean C-O North (SD)
Maersk Supporter Mast	-1.67 (0.44)	-0.78 (0.33)

TABLE 5-3 : DGPS VERIFICATION

A DGPS comparison was also undertaken between all navigation systems with data being logged simultaneously and reduced to vessel datum. Table 5-4 summarises the results of the comparison.

System	Diff East (m)	Diff North (m)	SD East	SD North
Primary	-	-	-	-
Secondary	-0.21	0.03	0.07	0.04
Tertiary	-0.04	0.17	-0.48	-0.48

TABLE 5-4 : DGPS COMPARISONS

The results obtained from the DGPS checks indicate that all positioning systems were installed and operating correctly. The comparison between the positioning systems was displayed and monitored throughout the project.

Full details of the DGPS verification checks are contained in Appendix F.

6.0 SURVEY PARAMETERS

6.1 Geodetic Parameters

All coordinates are referenced to the Geocentric Datum of Australia 1994 (GDA94) unless otherwise noted. The Global Positioning System (GPS) operates on the World Geodetic System 1984 (WGS84) datum. Fugro's Differential GPS Reference Stations are currently defined in the International Terrestrial Reference Frame 2000 (ITRF2000 Epoch 2005.75) datum. Due to the continual refinement of the WGS84 reference frame, for all cases, the transformation parameters indicate that the WGS84 and ITRF2000 reference frames are essentially identical.

Datum	**:**	**World Geodetic System 1984 (WGS84)**
Reference Spheroid	:	World Geodetic System 1984
Semi Major Axis	:	6378137.000m
Inverse flattening	:	298.257223563

Datum	**:**	**Geodetic Datum Australia 1994 (GDA94)**
Reference Spheroid	:	GRS 80
Semi Major Axis	:	6378137.000m
Inverse flattening	:	298.257222101

The following seven parameter datum transformation (Table 6-1) was used in Fugro's software, to transform WGS84 (ITRF2000 Epoch 2005.50) coordinates to GDA94 coordinates. These parameters are calculated from the 14 parameter transformation defined by Geoscience Australia. Fugro follows the Coordinate Frame Rotation convention (as defined by UKOOA) for datum transformations.

Transformation Parameters from WGS84 (ITRF2000 Epoch 2005.50) to GDA94			
dX	-0.0156m	rX	+0.014452"
dY	-0.0349m	rY	+0.013052"
dZ	-0.0513m	rZ	+0.015040"
		dS	+0.004976ppm

TABLE 6-1 : TRANSFORMATION PARAMETERS

All grid projection coordinates are referenced to the Map Grid of Australia.

Grid	**:**	**Map Grid of Australia 1994 (MGA94)**
Projection	:	Transverse Mercator
Latitude of Origin	:	0°
Central Meridian	:	141° E (UTM Zone 54)
Central Scale Factor	:	0.9996
False Easting	:	500000m
False Northing	:	10000000m
Units	:	Metres

A printout of the navigation software configuration showing the geodetic parameters in use during the project is included in Appendix G.

6.2 Differential GPS Reference Stations

Fugro's Differential GPS Reference Stations are currently defined in the ITRF2000 (Epoch 2005.75) datum and shown in Table 6-2.

ITRF 2000, EPOCH 2005.75					
Station	**Id**	**Latitude**	**Longitude**	**Height (m)**	**Uplink**
Bathurst	336	33° 25' 46.882" S	149° 34' 01.968" E	756.66	Optus/APSat
Ceduna	355	32° 07' 03.052" S	133° 41' 22.849" E	7.27	Optus/APSat
Cobar	316	31° 29' 57.434" S	145° 50' 20.344" E	270.17	Optus/APSat
Melbourne	385 / 938	37° 48' 29.008" S	144° 57' 48.029" E	82.06	Optus/APSat

TABLE 6-2 : STARFIX DGPS REFERENCE STATIONS

6.3 Vertical Datum

The vertical datum used for this project was Lowest Astronomical Tide (LAT). From information supplied by WEL, LAT at the Thylacine A location LAT is 0.63m below Mean Sea Level (MSL). For the determination of the elevation of the jacket, height was transferred from GPS observations on the JUR. These were obtained relative to AHD, which is assumed to equal MSL.

7.0 SURVEY EQUIPMENT, VESSEL & PERSONNEL

7.1 Equipment Listing

7.1.1 Maersk Guardian

The following equipment was used on the *Maersk Guardian* during the project.

Positioning Systems
2 x Starfix DGPS (one spare)

Navigation and Data Logging System
2 x Pentium computers c/w Fugro's Starfix Navigation software (one spare)
1 x Helmsman Monitor
2 x SG Brown Gyro Compass (one spare)
1 x Offline reporting computer
1 x Printer
2 x Radio Modems for BMS (one spare)

Additional Equipment
2 x Leica TCRP1203 Total Station and Tripod
1 x Survey Level and Saff
1 x Digital Spirit Level
2 x Trimble SSE Dual Frequency GPS Receivers (one spare)
1 x Radio Modem for reception of MRU data from top sides barge

Spare Remote Vessel Package
1 x DGPS Receiver
1 x Navigation computers
1 x Helmsman Monitor
1 x Fluxgate Compass
1 x Radio Modem

All systems were supplied with the necessary cabling, power supplies, antennae, accessories, manuals and consumables for the system to be operational.

Figure 7-1 shows the equipment flow diagram for the *Maersk Guardian.*

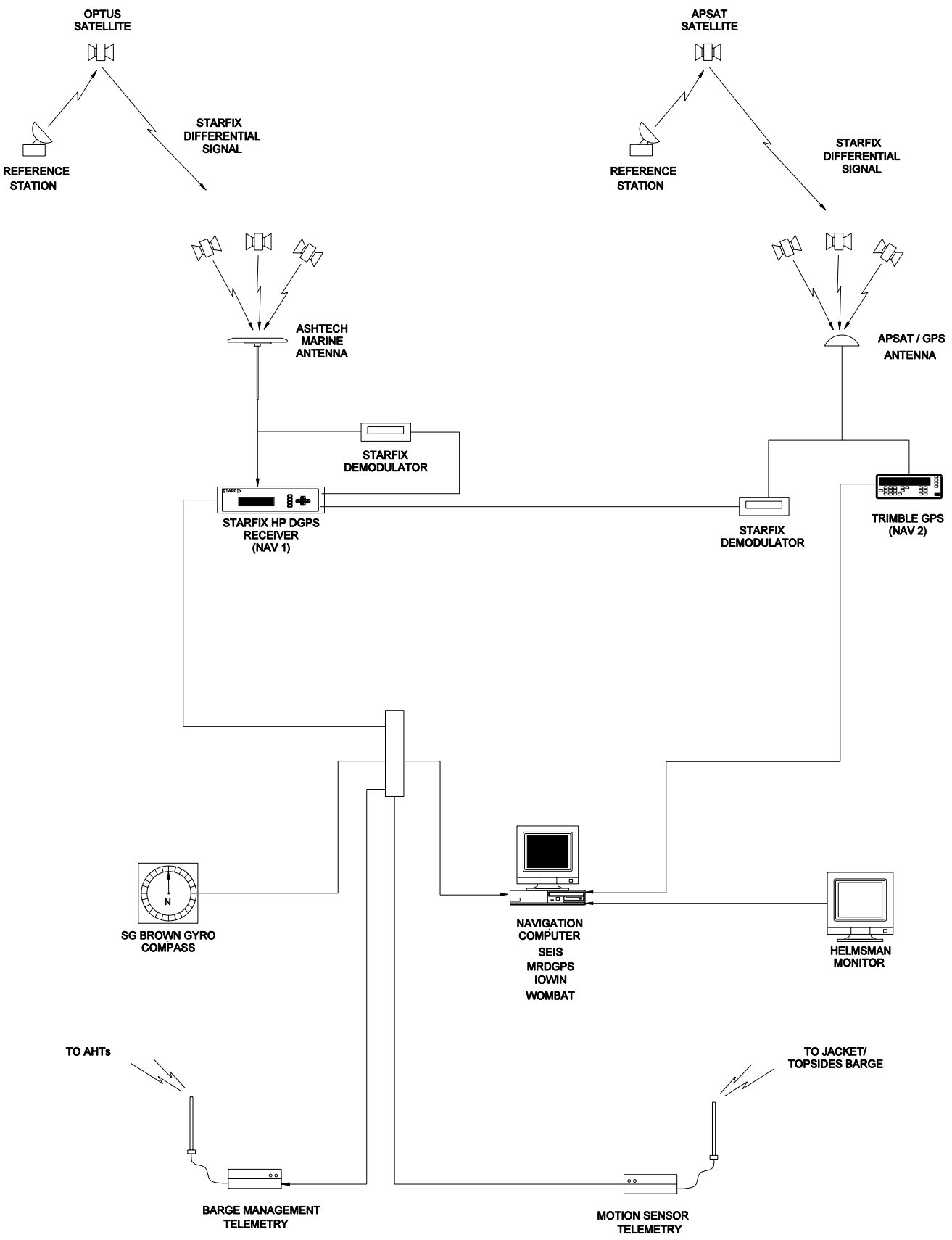
7.1.2 Substructure and Top Sides Barge

The following equipment was installed in the winch room of the barge.

1 x TSS DMS-05 Motion Sensor
1 x Portable PC
1 x Radio Modem to transmit motion data to the JUR

For the installation of the top sides a navigation package comprising the following equipment was added.

1 x DGPS Receiver
1 x Navigation Computers
1 x Helmsman Monitor
1 x Fluxgate Compass
1 x Radio Modem



EQUIPMENT FLOW DIAGRAM – MAERSK GUARDIAN

FIGURE 7–1

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7.1.3 *Support Vessels*

The following vessels were mobilised at various times during the project with navigation and telemetry equipment.

- *Maersk Supporter*
- *Far Grip*
- *Pacific Wrangler*
- *Lady Gerda*
- *Ray J Hope*

The equipment used comprised the following items and all systems were supplied with the necessary cabling, power supplies, antennae and consumables for the system to be operational.

1 x DGPS Receiver
1 x Navigation computers
1 x Helmsman Monitor
1 x Fluxgate Compass
1 x Radio Modem

Figure 7-2 shows an equipment flow diagram for the typical set up of navigation and telemetry on each of the support vessels.

7.2 Vessels

The *Maersk Guardian* is a jack-up rig approximately 84m in length and 90m in width. The survey equipment was installed in, and operated from, the jacking control room. GPS and telemetry antenna were mounted on the control room roof and adjacent to the helideck in positions selected to minimise the potential for signal obstruction and reflection.

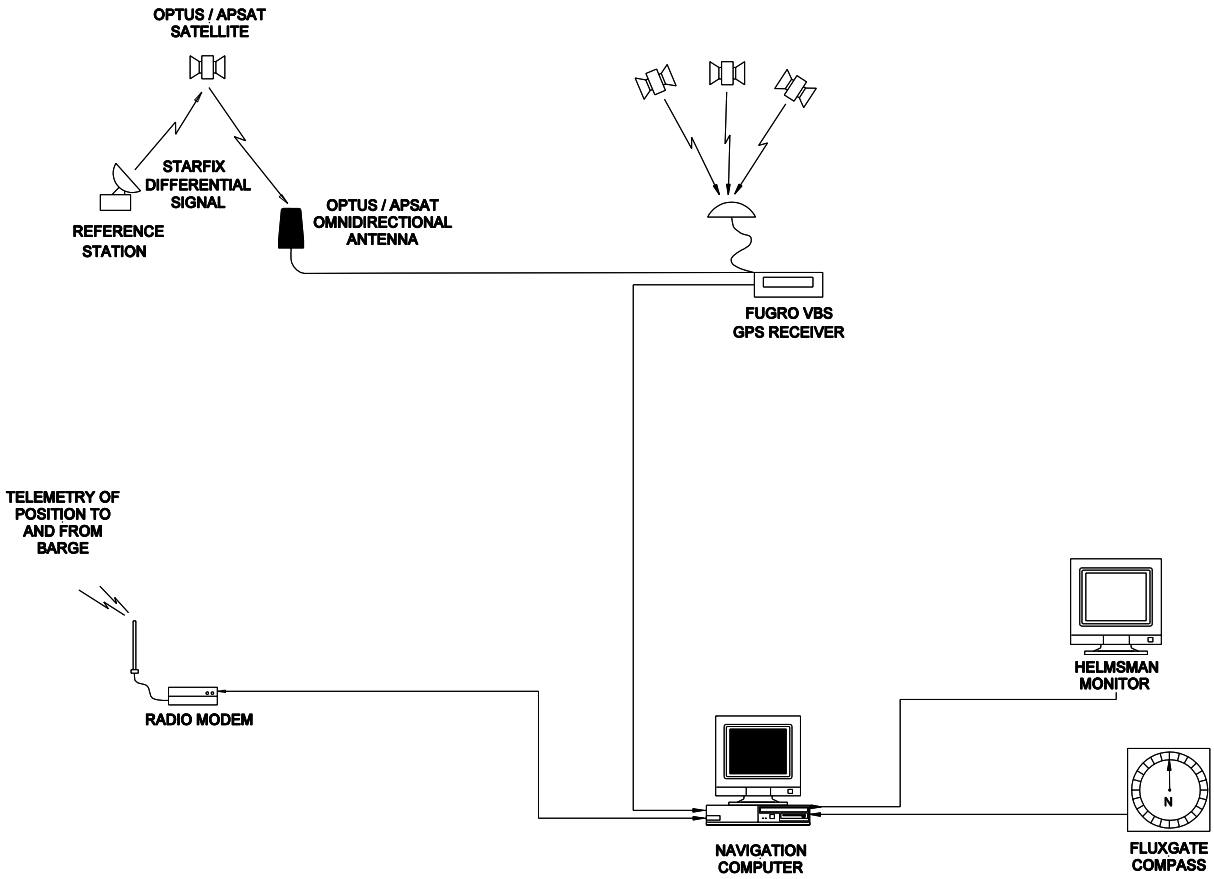
A vessel offset diagram for the *Maersk Guardian* is included as Figure 7-3. The centre stern of the rig was selected as the common reference point (CRP) and all navigation antenna and vessel offsets were related to this point. Offsets are also recorded in the Starfix.Seis configuration printout included in Appendix G.

The *Maersk Supporter* is an 80m long anchor handling vessel equipped with a dynamic positioning (Class 1) system. The survey equipment was installed and operated from the bridge. This vessel was used prior to the rig move to position and pre-tension a six anchor mooring system. For the jacket installation, the tow master was based on the *Maersk Supporter* and an additional navigation monitor was supplied to the vessel to assist the tow master with vessel positioning.

The anchor handling vessels *Pacific Wrangler* and *Far Grip* were mobilised with positioning and telemetry equipment for the duration of the JUR move to Thylacine-A. Survey equipment had been installed on the bridge of each vessel from previous positioning projects. For the duration of the rig move a modem was supplied to each vessel to enable the positioning equipment to operate with the BMS on board the *Maersk Guardian*.

The *Lady Gerda* and *Ray J Hope* are anchor handling vessels operated by Farstad and Tidewater respectively. These two vessels were mobilised with positioning and telemetry equipment to assist in the jacket and top sides installation works.

ANCHOR HANDLING TUG



EQUIPMENT FLOW DIAGRAM – AHT

FIGURE 7–2

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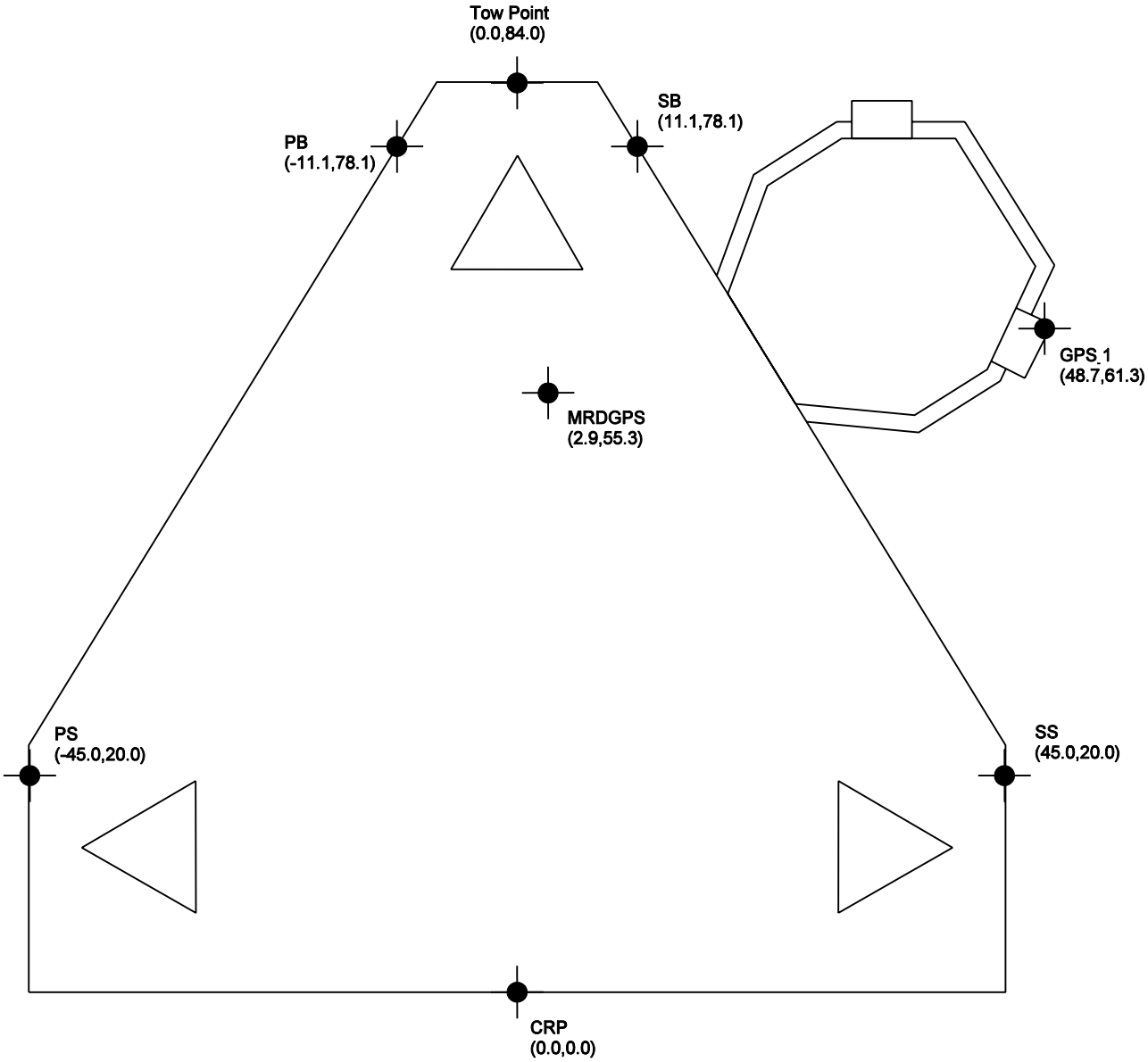

VESSEL OFFSET DIAGRAM – MAERSK GUARDIAN

FIGURE 7–3

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Vessel offset diagrams for the *Maersk Supporter, Far Grip, Pacific Wrangler, Lady Gerda* and *Ray J Hope* are included as Figure 7-4, Figure 7-5, Figure 7-6, Figure 7-7 and Figure 7-8 respectively. A common reference point (CRP) was selected and all navigation antenna and vessel offsets were related to this point. Offsets are also recorded in the Starfix.Seis configuration printout included in Appendix G.

7.3 Personnel

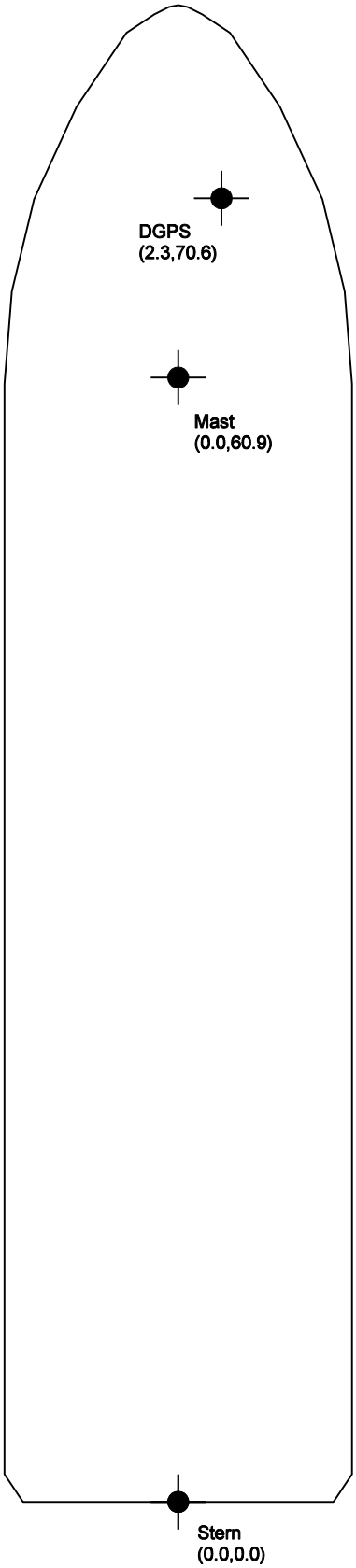
The following Fugro personnel were involved in the offshore phase of the project.

Mobilisation and Jacket Installation

Paul Caswell	Party Chief/Surveyor	14 November – 16 December 2005
Mick Elmslie	Surveyor	12 November – 12 December 2005
Chris Kennedy	Surveyor	12 November – 16 November 2005
Jonathon Richards	Technician	14 November – 17 November 2005
Stephen Lumb	Party Chief/Surveyor	12 December – 21 December 2005
Mick Elmslie	Party Chief/Surveyor	19 December – 21 December 2005
Stephen Lumb	Surveyor	31 December 2005 – 12 January 2006
Mick Elmslie	Party Chief/Surveyor	31 December 2005 – 12 January 2006
Stephen Lumb	Party Chief/Surveyor	2 February – 6 February 2006

Topsides Installation

Stephen Lumb	Party Chief/Surveyor	13 February – 22 February 2006
Simon Staples	Party Chief/Surveyor	13 February – 2 March 2006
Louise Arrowsmith	Surveyor	21 February – 2 March 2006
Jonathon Richards	Technician	21 February – 22 February 2006
Simon Staples	Surveyor	22 March – 24 March 2006
Simon Staples	Surveyor	29 March – 30 March 2006



VESSEL OFFSET DIAGRAM – MAERSK SUPPORTER

FIGURE 7–4

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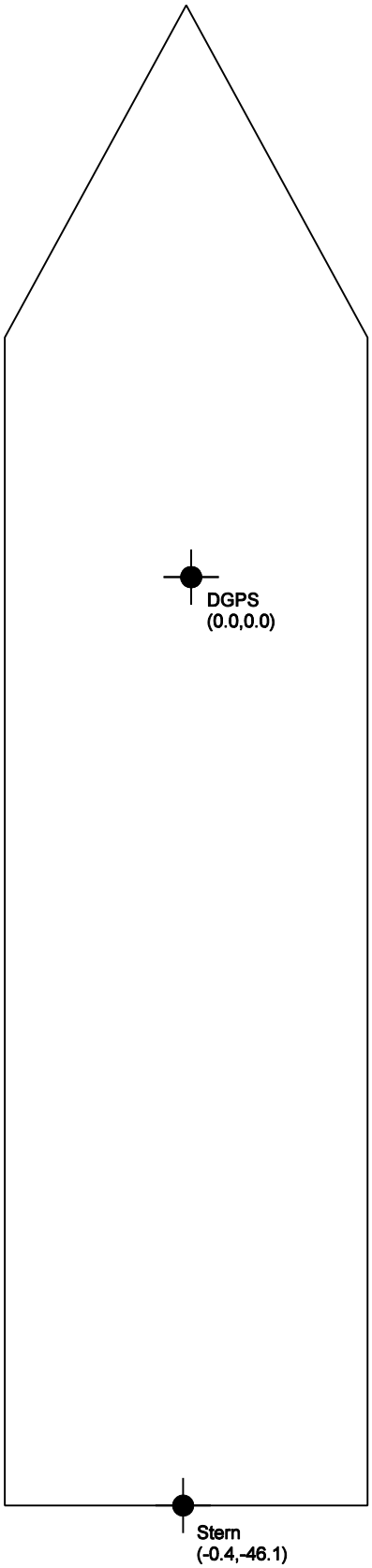

VESSEL OFFSET DIAGRAM – FAR GRIP

FIGURE 7–5

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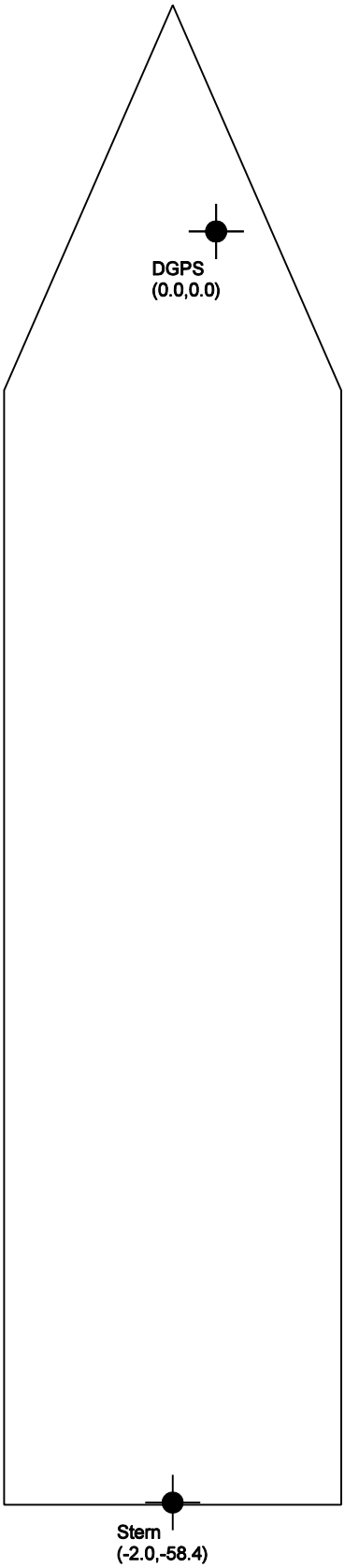

VESSEL OFFSET DIAGRAM – PACIFIC WRANGLER

FIGURE 7–6

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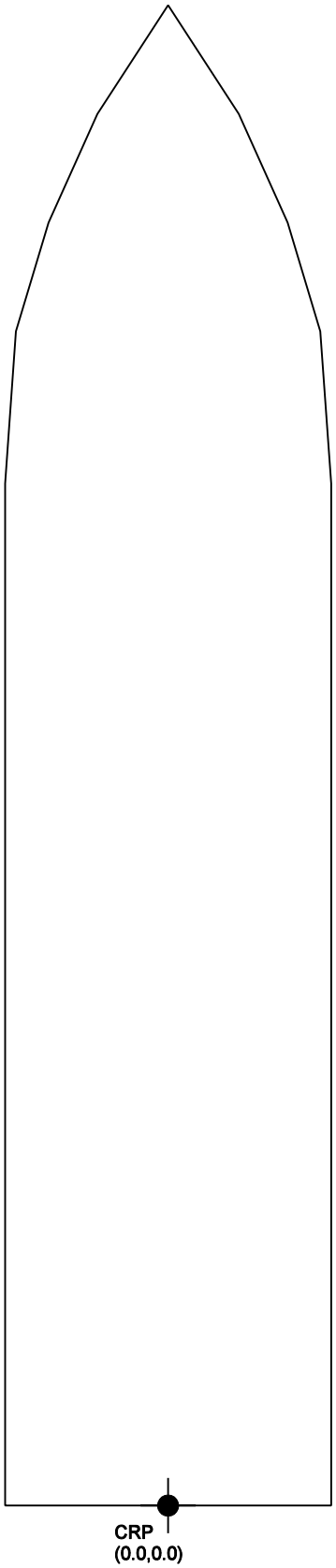

VESSEL OFFSET DIAGRAM – LADY GERDA

FIGURE 7–7

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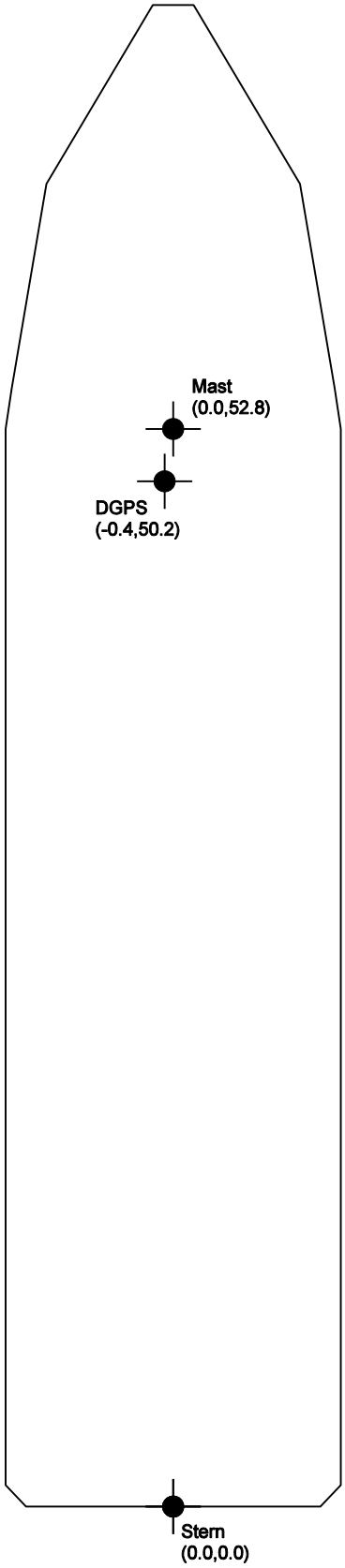

VESSEL OFFSET DIAGRAM – RAY J HOPE

FIGURE 7–8

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8.0 CONCLUSIONS AND RECOMMENDATIONS

Survey operations conducted during the project were completed in a timely and efficient manner. All survey systems on board the vessel operated within system limitations and expectations.

9.0 DISTRIBUTION

Copies of this report have been distributed as follows:

Technip Oceania Pty Ltd	: 2 hard copies
Attn: Mr Jonathan Wilson	: 2 electronic copies
Mr Scott Simpson	
and	
Perth Document Control	
Fugro Survey Pty Ltd	: 1 hard copy
	: 1 electronic copy

APPENDIX A
DAILY OPERATIONS REPORTS

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: WESTERNPORT	DATE: 12 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
1245	1920	M.Elmslie and C.Kennedy travel Perth to Melbourne.
1920	2400	Overnight in Holiday Inn, Melbourne Airport.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	TBA	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	TBA	1	M. Elmslie	Surveyor
Dual Frequency GPS	2			C. Kennedy	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION: 2 X HOLIDAY INN

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Lawer	WILSON	P0339_01

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: WESTERNPORT	DATE: 13 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0800	0945	Collect hire car and travel from Melbourne to Stony Point.
0945	1030	Standby at Stony Point.
1030	1330	Travel to Geelong to check survey system on Far Grip.
1330	1500	On board Far Grip. Update navigation software.
1500	1730	Travel Geelong to Stony Point ready to join Maersk Guardian.
1800		M.Elmslie transfer to Maersk Guardian
1900		C.Kennedy transfer to Maersk Guardian
1900	2300	Standby on rig awaiting arrival of survey equipment.
2130		Fugro personnel receive rig inductions.
2300	2400	Survey equipment on board, personnel commence mobilisation.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Far Grip	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	TBA	1	M. Elmslie	Surveyor
Dual Frequency GPS	2			C. Kennedy	Surveyor
VEHICLES: 1 X HIRE CAR					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Lawrence	WILSON	P0339_02

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: WESTERNPORT	DATE: 14 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	0230	Personnel continue mobilisation of primary navigation equipment.
0230	0800	Suspend mobilisation – personnel resting.
0800		Mobilisation resumed – confirm Maersk Supporter operational as remote vessel.
0915		P.Caswell and J.Richards transfer from Maersk Supporter to Maersk Guardian.
1015	1115	J.Richards on board Far Grip to mobilise telemetry system, return to rig.
1145	1210	Emergency muster drill.
1500	1830	J.Richards and C.Kennedy depart rig and travel to Geelong.
1615		M.Elmslie on board Pacific Wrangler to upgrade software and mobilise telemetry
	1910	system. Return to rig on completion.
1830		Remote telemetry systems on all three AHTs now operational.
2100	2400	Personnel off shift. All navigation equipment installed and interfaced.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Far Grip	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Pacific Wrangler	1	M. Elmslie	Surveyor
Dual Frequency GPS	2			C. Kennedy	Surveyor
VEHICLES: 1 X HIRE CAR				P. Caswell	Surveyor / PC
CONSUMABLES:				J. Richards	Technician
ACCOMMODATION: 2 X HOTEL, GEELONG.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Caswell	WILSON	P0339_03

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: WESTERNPORT	DATE: 15 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0745	1145	Undertaking survey observations for rig traverse to confirm system offsets.
0845	0915	Attend marine department meeting for latest update.
1145	1210	Fire drill and emergency muster.
1300	1615	Resume traverse observations.
1450		Crew vessel depart with GPS antenna for Lady Gurda on board.
1510	1620	Attend pre-rig move meeting.
1630	1800	Preliminary traverse calculations completed.
1650	1705	Attend project and safety briefing from OIM.
1705	1735	P.Caswell receive rig induction.
1945	2030	Theodolite observations taken to Maersk Supporter for initial gyro calibration.
2045	2200	Survey traverse plotted and rig offsets finalised.
0930	1400	J.Richards and C.Kennedy mobilise Lady Gurda alongside Geelong.
1500	1700	Complete mobilisation of motion sensor and display package on jacket barge.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Far Grip	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Pacific Wrangler	1	M. Elmslie	Surveyor
Dual Frequency GPS	2	Lady Gurda	1	C. Kennedy	Surveyor
VEHICLES: 1 X HIRE CAR				P. Caswell	Surveyor / PC
CONSUMABLES:				J. Richards	Technician
ACCOMMODATION: 2 X HOTEL, GEELONG.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Caswell	WILSON.	P0339_04

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: WESTERNPORT	DATE: 16 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	0750	Preparations for floating rig off heavy lift vessel 'Transshelf'
0750		Maersk Guardian free from heavy lift vessel. Monitor vessel movements.
0800	1930	Preparations to commence tow on evening slack tide.
0900	1100	Secure all navigation equipment ready for tow to site.
1130	1150	Survey observations to Maersk Supporter to confirm DGPS integrity.
1320	1420	Test data collection with dual frequency GPS.
1710	1800	Sun azimuth observations undertaken for gyro calibration.
1930	2300	Rig under tow from Maersk Supporter and Far Grip through Western Port channel.
2106	2116	Log data for DGPS comparison
2313	2400	Pilot departs, Maersk Guardian continue transit to Thylacine location.
		.
0830	1230	All installation of survey equipment on Lady Gerda and jacket barge completed.
1630	2100	J.Richards travel Geelong to Portland.
2110	2400	C.Kennedy travel Melbourne to Perth.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Far Grip	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Pacific Wrangler	1	M. Elmslie	Surveyor
Dual Frequency GPS	2	Lady Gerda	1	C. Kennedy	Surveyor
VEHICLES: 1 X HIRE CAR				P. Caswell	Surveyor / PC
CONSUMABLES:				J. Richards	Technician
ACCOMMODATION: 1 X HOTEL, PORTLAND.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

1 X Battery and Battery Charger purchased to supply survey equipment installed on Jacket Barge.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_05

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 17 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2030	Maersk Guardian under tow to Thylacine location.
0800	1000	J.Richards checking survey equipment on Pacific Wrangler
2030	2217	Approximately 1 Nm from location, jacking legs down to 50m above seabed.
2055	2400	J.Richards travel Melbourne to Perth.
2220		Weather conditions unsuitable to jack down further, Pacific Wrangler and Maersk
	2400	Supporter maintain slow tow of rig to north of buoy pattern.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Far Grip	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Pacific Wrangler	1	M. Elmslie	Surveyor
Dual Frequency GPS	2	Lady Gerda	1	J. Richards	Technician
VEHICLES: 1 X HIRE CAR (RETURNED)				P. Caswell	Surveyor / PC
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Lunen		P0339_06

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 18 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	0815	Maersk Guardian remains under tow, monitoring weather conditions.
0815		Tow vessels instructed to head directly for location.
0900	1000	Pacific Wrangler checking position of anchor buoys,
1045	1115	Pacific Wrangler connected to port stern of rig.
1140	1300	Far Grip released from tow rigging and re-connected at starboard stern of rig.
1310		Commence jacking legs down to approximately 25 m above seabed.
1438	1458	Undertake static positioning trial with three vessels holding rig position.
1500	1655	Move rig into design location.
1655	1955	Rig held on location whilst clearance obtained to proceed with pinning of legs.
2000	2044	Lower jacket legs until on seabed. Rig on final position.
2140		Pacific Wrangler disconnected from port stern.
2144		Pacific Wrangler released to transit to Portland.
2210	2220	Log position and heading data for preliminary final position report.
2230		Far Grip disconnected from starboard stern, preparing to run anchors.
2350		Commence pre-load operations.
2352		Far Grip released off hire, underway to Port of Melbourne.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Far Grip	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Pacific Wrangler	1	M. Elmslie	Surveyor
Dual Frequency GPS	2	Lady Gerda	1	P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PAlmwen		P0339_07

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 19 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Maersk Guardian undertaking pre-load operations.
1248	1400	Maersk Supporter disconnect from rig and prepare for anchor operations.
1412	1550	Recover Anchor No 1 buoy to Supporter deck and bring anchor to roller.
1550	1634	Reposition vessel to wet store location and deploy anchor to seabed.
1640	1747	Paying out chain/wire and pre-tension anchor leg to 50Te.
1750	1850	Connect 80m pennant and redeploy anchor buoy.
1924	2010	Supporter recover Anchor No 2 buoy to deck and pull up on pennant wire.
2010	2108	Reposition vessel and lay pennant buoy to south of anchor leg bearing.
2122	2255	Supporter recover Anchor No 1A buoy to deck and bring anchor to roller.
2255	2333	Reposition vessel to target location for topsides anchor P4.
2333	2400	P4 anchor on seabed, paying out chain along anchor leg bearing

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	2	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2			M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_08

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 20 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Maersk Guardian undertaking pre-load operations.
0000	0031	Supporter complete paying out of chain/wire on anchor leg P4.
0031	0155	Complete pre-tensioning of anchor to 100 Te.
0155	0238	Connect pennant wire rigging and deploy pennant buoy for anchor leg P4.
0240	0302	Supporter reposition vessel to anchor buoy 3A and secure on deck.
0302	0431	Recover anchor leg 3A to bring anchor to roller.
0431	0502	Supporter relocate to target position for topsides anchor P1.
0502	0511	Lower original anchor 3A to P1 position on seabed.
0514	0623	Paying out chain/wire along anchor leg P1.
0623	0818	Tension anchor leg P1 to 90 Te.
0818	0915	Connect pennant wire rigging and deploy pennant buoy for anchor leg P1.
0915	0939	Supporter reposition vessel to anchor buoy 3 and secure on deck.
0939	1124	Reposition anchor buoy 3 at new location.
1220	1303	Supporter pick up anchor buoy 3 and reposition at new location.
1318	1512	Supporter pick up anchor buoy 2 and recover anchor. Redeploy as P3 anchor.
1515	1626	Paying out chain/wire along anchor leg P3.
1626	1800	Tensioning anchor leg P3. Anchor not holding at 80 Te.
1800	1918	Lay anchor leg P3 to seabed and deploy pennant buoy.
1950	2145	Install dual frequency GPS antenna and test log one hour of data.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	2	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2			M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Final position for rig and dual frequency GPS data to be logged tomorrow a.m on completion of jacking up to final air gap.

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Curwen	Wilson	P0339_09

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 21 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	0105	Maersk Guardian undertaking pre-load operations.
0105	0210	Maersk Guardian jack-up to final air gap of 17.8m.
0445	1045	Logging of GPS carrier phase data.
0602	0702	Log DGPS data for final position fix.
0945	0950	Toolbox meeting to discuss safe access to jacket legs.
0950		Undertake marking of height datums on jacket legs and preliminary height
	1200	observations.
1300	1500	Continue height and line of sight checks around the rig.
1930		Pacific Wrangler arrives in the field – survey system operational.
2000	2015	Check measurements made from rig deck to water surface.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	2	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Pacific Wrangler	1	M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Final rig position submitted to client. GPS carrier phase data sent ashore for processing.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_10

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 22 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Technip preparations for jacket installation works.
0400		Maersk Supporter departs field with cargo for Portland.
0735		Receive telemetry modem from Pacific Wrangler.
0750		Pacific Wrangler departs rig for Melbourne, now off hire.
0925		Meeting with Technip Tow Master, Mike Hancock to discuss survey requirements
	1005	for jacket installation works.
1145	1200	Emergency muster and abandon rig drill.
1345	1415	Survey observations to determine remaining jacking heights on each leg.
1800		Receive results of GPS carrier phase observations. Confirm results with check
	2000	processing on board.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	2	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2			M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Processing of GPS carrier phase observations completed.

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Unwin		P0339_11

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 23 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Technip preparations for jacket installation works.
0815	0930	Power down and disconnect gyro compass ready for demobilisation.
0950	1135	Undertaking survey observations on deck to confirm offsets for jacket installation.
1225	1630	Continue survey observations on deck.
1800	2200	Reduction and computation of traverse observations.
1845		Maersk Supporter returns to the field – survey system tested as operational.
1900	1915	Test video splitter equipment required for Maersk Supporter.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	2	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2			M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Gyro compass packed up in preparation for demobilisation from rig as instructed.

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Cruven		P0339_12

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 24 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Technip preparations for jacket installation works.
		Complete traverse calculations and height reduction in preparation for jacket
		installation.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	2	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2			M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Linwell		P0339_13

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 25 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Technip preparations for jacket installation works.
1630		P.Caswell transfer to Maersk Supporter to install additional navigation monitor
	1815	and return to rig.
1900		RJ Hope arrives at the Maersk Guardian.
2115		Maersk Supporter departs rig for Portland.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	2	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2			M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Cuwen	Brett Proudman	P0339_14

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 26 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Technip preparations for jacket installation works.
1000		Arrange with Technip boilermaker for manufacture of bracket for theodolite at port
		stern of rig.
1035	1105	Fire drill and emergency muster

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	2	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2			M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Weather conditions remain unsuitable for mobilisation of survey package on RJ Hope.

Party Chief Signature:	Client Representative Signature:	D O R Number
PAlnwen		P0339_15

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 27 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Technip preparations for jacket installation works.
0900	1130	Transfer MSL height from GPS antenna to bow leg using survey level and staff.
1300	1330	Rig safety meeting.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	2	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2			M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Weather conditions remain unsuitable for mobilisation of survey package on RJ Hope.

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Curwen	Brett Proud	P0339_16

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 28 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Technip preparations for jacket installation works.
1430		Radio Modem demobilised from Far Grip arrives on board rig.
1545	1630	Technip project induction held.
2130		Lady Gerda arrives in field. Advise vessel master of anchor buoy locations and
		agree to wait until daylight to configure survey system on board.
2145		Ray J Hope departs for Geelong.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	2	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2			M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Weather conditions remain unsuitable for mobilisation of survey package on Ray J Hope.

Party Chief Signature:	Client Representative Signature:	D O R Number
PAlmwell		P0339_17

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 29 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Technip preparations for jacket installation works.
0210		Commence anchor operations with Maersk Supporter to reset anchor P3.
0300	0405	P3 buoy on deck, recovering and disconnecting pennant wire.
0405	0450	Recover wire and chain to bring anchor to roller.
0450	0525	Vessel reposition and change heading for anchor deployment.
0531	0630	P3 anchor on seabed. Paying out chain/wire along anchor leg.
0630	0755	Tension anchor leg to 70 Te.
0755	0853	Connect pennant wire and let go P3 buoy.
1545	1630	Demobilise DGPS and install radio modem/antenna for jacket barge telemetry.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	2	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2			M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC

VEHICLES:

CONSUMABLES:

ACCOMMODATION:.

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_18

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 30 NOV 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Technip preparations for jacket arrival.
0900	0940	Test computer equipment for Ray J Hope is fully operational.
1010	1200	Levelling observations to transfer height datum across to port leg.
1130		Receiving motion data from jacket barge.
1300	2400	Logging barge motion data at 5 second interval.
1915	1930	Fugro safety meeting undertaken.
1940	1955	Fugro personnel view 'Frog' transfer training video.
2030		P.Caswell and M.Elmslie transfer to Ray J Hope
2050	2300	Mobilise positioning and telemetry equipment.
2300	2400	Standby for transfer back to Maersk Guardian.
		Advised by rig that crane operator will not do personnel transfer at night. Personnel
		remain on board Ray J Hope overnight.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Ray J Hope	1	M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

With delay to jacket launch it is likely that motion monitoring equipment on barge will fail unless batteries that supply power to equipment are recharged.

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Caswell		P0339_19

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 1 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Technip preparations for jacket arrival.
0720		P.Caswell and M.Elmslie transfer from Ray J Hope back to Maersk Guardian.
1215		Lady Gerda take over tow of jacket barge and proceed to Geelong.
1305	1315	Instruction on permit to work system received from Technip HSE Representative.
1330		Review safety requirements for surveying operations at stern post jacket
	1400	installation with Technip HSE Representative.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Ray J Hope	1	M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Caswell	[signature]	P0339_20

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 2 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather window suitable for jacket installation.
1000	1140	P. Caswell transfer to Ray J Hope for equipment checks and return to rig.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Ray J Hope	1	M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Caswell	[signature]	P0339_21

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 3 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather window suitable for jacket installation.
2230	2245	Emergency muster and abandon rig drill.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Ray J Hope	1	M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Lnwen		P0339_22

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 4 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather window suitable for jacket installation.
0945	1100	Inventory of survey equipment. Test spare fluxgate compass for Ray J Hope.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Ray J Hope	1	M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Unwen	Brett Proud	P0339_23

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 5 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather window suitable for jacket installation.
1630	1700	Spare fluxgate compass transferred to Ray J Hope

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Ray J Hope	1	M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PAlmwen		P0339_24

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 6 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather window suitable for jacket installation.
1000	1100	Attempting to resolve fluxgate gyro problems on Ray J Hope
1550		Replacement fluxgate transferred to Ray J Hope. Compass installed and calibrated
	1700	correctly.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix DGPS	2	Survey Level/Staff	1	Barge	
Starfix Navigation	2	MRU Radio Modem	1	Motion Sensor / PC	1
Gyrocompass	2	Spare AHT Package	1	Radio Modem	1
Offline Computer	1	AHT Packages		AHT package	1
Printer	2	Maersk Supporter	1		
BMS Radio Modem	2	Lady Gerda	1	**PERSONNEL**	**TITLE**
Total Stations/Tripod	2	Ray J Hope	1	M. Elmslie	Surveyor
Dual Frequency GPS	2			P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

DGPS and Gyro equipment demobilised ashore

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Linwell		P0339_25

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 7 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather window suitable for jacket installation.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			M. Elmslie	Surveyor
				P. Caswell	Surveyor / PC

VEHICLES:

CONSUMABLES:

ACCOMMODATION:.

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Luwen		P0339_26

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 8 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather window suitable for jacket installation.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			M. Elmslie	Surveyor
				P. Caswell	Surveyor / PC

VEHICLES:

CONSUMABLES:

ACCOMMODATION:.

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
P A Unwen		P0339_27

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 9 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather window suitable for jacket installation.
0910		Confirm survey system operational on Maersk Supporter
1050		Lady Gerda arrive in field – confirm survey system operational

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			M. Elmslie	Surveyor
				P. Caswell	Surveyor / PC

VEHICLES:

CONSUMABLES:

ACCOMMODATION:.

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Lenwen		P0339_28

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 10 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather window suitable for jacket installation.
1030	1100	Fire and emergency muster drill.
2010		Technip personnel transferred to Lady Gerda to assess conditions for transfer to
		jacket barge.
2048	2120	Technip personnel transfer to jacket barge.
2130		Ray J Hope attaching pick-up slings to buoys P4 and P1.
2210		Technip engineer reports MRU batteries on barge flat, commence charging.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			M. Elmslie	Surveyor
				P. Caswell	Surveyor / PC

VEHICLES:

CONSUMABLES:

ACCOMMODATION:.

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Lawen		P0339_29

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 11 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	0250	Monitoring weather conditions prior to committing to jacket launch.
0115	0150	Jacking operations to reduce air gap to approximately 12m.
0250	0646	Continue with preparations for jacket launch.
0600	0620	Connect Ray J Hope and Lady Gerda to soft lines on jacket.
0646	1400	Winch wire parted on jacket barge – launch operations on hold.
1400	2400	Jacket launch abandoned, barge underway to Portland.
1550	1620	Jacking operations to restore air gap to 17.8m.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			M. Elmslie	Surveyor
				P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

MRU on jacket barge failed to work – batteries flat and unable to be charged.

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Lunwen		P0339_30

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 12 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on next weather window to resume jacket installation operations.
0715	1315	M.Elmslie depart rig. Travel to Perth via Melbourne.
1415	1800	S. Lumb travel New Plymouth, New Zealand to Melbourne.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			M. Elmslie	Surveyor
				P. Caswell	Surveyor / PC
VEHICLES:				S. Lumb	Surveyor
CONSUMABLES:					
ACCOMMODATION:. 1 X HOLIDAY INN, MELBOURNE					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Batteries for MRU require attention prior to jacket barge transiting back to JUR. Also checks need to be made that telemetry antenna is correctly mounted on winch house roof.

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Caswell	Brett Powell	P0339_31

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 13 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on next weather window to resume jacket installation operations.
		S. Lumb remains in Melbourne after being bumped from helicopter.
2015		Maersk Supporter arrives back in the field – survey system operational.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				P. Caswell	Surveyor / PC

VEHICLES:

CONSUMABLES:

ACCOMMODATION:. 1 X HOLIDAY INN, MELBOURNE

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Lumwell		P0339_32

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 14 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on next weather window to resume jacket installation operations.
0950		Ray J Hope departs location for Portland.
1430	1600	S. Lumb by helicopter from Essendon to Maersk Guardian..
1615	1715	S. Lumb receives rig induction.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				P. Caswell	Surveyor / PC

VEHICLES:

CONSUMABLES:

ACCOMMODATION:.

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Caswell	[signature]	P0339_33

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 15 DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on next weather window to resume jacket installation operations.
1230		Undertake walk round on deck to explain location of survey stations and review
	1330	JHA for survey observations at jack-up stern.
1330	1800	Install and test spare tug package for subsequent mobilisation to top sides barge.
1830	1850	Undertake Fugro Safety Meeting.
2000		Maersk Supporter departs rig for Portland.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				P. Caswell	Surveyor / PC
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
PA Caswell	Brett Proud	P0339_34

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 16TH DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	0730	Waiting on next weather window to resume jacket installation operations.
0715	0730	Paul Caswell departed rig for Perth
0730	2400	Waiting on next weather window to resume jacket installation operations.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION:.

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen Lumb.		P0339_35

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 17TH DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on next weather window to resume jacket installation operations.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION:.

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen Plumb.		P0339_36

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 18TH DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on next weather window to resume jacket installation operations.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION:.

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen Lumb		P0339_36

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 19TH DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on next weather window to resume jacket installation operations.
1750		M.Elmslie arrives onboard.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_38

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 20TH DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2024	Waiting on next weather window to resume jacket installation operations.
1026	1050	Conduct jacking operations to 12m air gap.
1755	1830	Technip personnel transferred to jacket barge.
2024	2400	Conduct ballasting and removal of sea fastenings on jacket barge.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:.					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_39

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 21TH DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	0249	Continue Barge ballasting and removal of sea fastenings.
0249		Go ahead for jacket launch announced. Removing final sea fastenings.
0302		Commencing jacket launch.
0330		Barge experiencing problems with launch jacks.
0815		Ray J Hope catches mooring line in prop.
1050		Launch abandoned.
1700		Fugro system powered down.
1715	1845	Fugro personnel depart rig and travel to Melbourne.
1930		Check into accomadation.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION: MELBOURNE AIRPORT HOLIDAY INN

AUTHORISED CONTRACT CHANGES / COMMENTS: FUGRO EQUIPMENT TO REMAIN ONBOARD RIG UNTIL RETURN OF FUGRO PERSONNEL.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_40

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 22TH DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0815	1215	M.Elmslie travels from Melbourne to Perth.
1030	1500	S.Lumb travels from Melbourne to New Plymouth.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	PERSONNEL	TITLE
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION:.

AUTHORISED CONTRACT CHANGES / COMMENTS: FUGRO EQUIPMENT TO REMAIN ONBOARD RIG UNTIL RETURN OF FUGRO PERSONNEL.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_41

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 30TH DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
1655	2020	M.Elmslie travels from Perth to Melbourne.
1215	1800	S.Lumb travels from New Plymouth to Melbourne.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	PERSONNEL	TITLE
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION: MELBOURNE AIRPORT HOLIDAY INN

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_42

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 31TH DEC 2005
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0930	1100	Fugro personnel travel from Melbourne to Maersk Guardian.
1115		Fugro system powered up.
1100	2400	Waiting on weather.
1230		Fugro personnel attend fire/abandonment drill.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION:

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_43

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 01/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_44

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 02/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION:

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_45

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 03/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor

VEHICLES:		
CONSUMABLES:		
ACCOMMODATION:		

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_46

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 04/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Waiting on weather.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION:

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_47

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 05/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	1330	Waiting on weather.
0908	0928	Rig power failure, survey system running on UPS.
1330		Technip personnel transferred to Lady Gerda.
1400		Supporter experiencing heading problems.
1430		M.Elmslie transferred to Supporter.
1432	1503	Technip personnel transferred to jacket barge. Commence ballasting and cutting
		sea fastenings.
1539		Supporter at P4 Buoy 664760 E 5655437 N
1600		Problem with connection into gyro repeater on supporter, fluxgate installed.
1609		Supporter at P1 Buoy 663962 E 5654824 N
1630		M.Elmslie returns to rig.
1930		Technip crew change on jacket barge.
2100		R J Hope connected to jacket and in launch position.
2128		Lady Gerda connected to jacket and in launch postion.
2250		Permission given to launch.
2314		Jacket launched and clear of barge.
2314	2400	Tugs manoeuvring jacket into position.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION:

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_48

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 06/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	1203	Tugs manoeuvring jacket into position.
1015		Discussion with Tow Master concerning position of anchors.
1203		Jacket connected to main block of Maersk Guardian.
1210		Commence preparations for upending of jacket.
1522	1640	Jacking up to 28.4m airgap.
1640	2400	Continue preparations for upending of jacket.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION:

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_49

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 07/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	0218	Continue upending operations.
0218		Jacket upended.
0510	0544	Jacking down .
1100	1330	Conduct station coordination on port stern.
1235		Jacket landed.
1350	1415	Conduct verticality check on jacket
1430	1545	Conduct station coordination on starboard stern.
1550	1830	Level traverse from port stern station to starboard stern station.
1850	1915	Height transfer from port leg benchmark to port stern station.
2000	2350	Calculations for verticality check and level traverse.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_50

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 08/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	1200	Fugro personnel on standby to conduct checks on jacket.
1000		Discussion with K.Mobs(Woodside Rep) regarding demobilisation of survey spread
		from the R J Hope.
1030		Phone conversation with R J Hope master regarding demob of equipment.
		Equipment to be transferred to Supporter and returned to the rig.
1200	1330	Level traverse conducted.
1340	1500	Calculations for level traverse.
1530		Discussion with N.Yann (Technip Engineer) regarding orientation and offset check.
1730		Instructed by Tehnip to conduct checks on jacket.
1800	1900	Waiting on access to jacket.
1900	2030	Conduct check observations to jacket.
2110	2355	Calculations for jacket checks.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2	Ray J Hope	1	**PERSONNEL**	**TITLE**
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_51

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 09/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Fugro Personnel on standby for anchor operations

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:				M Elmslie	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen P Lumb		P0339_52

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 10/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	0915	Waiting to conduct anchor operations.
0915		M.Elmslie, S.Lumb and Technip engineer transferred to Supporter.
0920	0930	Vessel induction.
0930	1002	Recovering #3 buoy.
0940	1030	Issue arises with procedure for anchor deployment, Technip engineer calls beach
		for direction.
1002	1158	Recover #3 anchor
1158	1530	Deploy anchor P2. Final position 664566 E 5654188 N
1530	1621	Vessel recovering P1 buoy.
1621	1814	Recover P1 anchor.
1814	2156	Deploy anchor P1. Final position 663672 E 5654190 N
2156	2233	Vessel recovering #4 buoy.
2233	2400	Deploying anchor S1.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			PERSONNEL	TITLE
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_53

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 11/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	0258	Deploying Anchor S1, Final position 663153 E 5654708 N
0258	0423	Vessel moving to P4 buoy and recovering.
0507	0642	Recovering anchor P4
0642	1856	Deploying anchor P4, experiencing excessive dragging, having to redeploy several
		time in order to get anchor to hold. Final position 665184 E 5655665 N
1856	1945	Moving to wet store buoy and recovering.
2005	2103	Start Heaving In
2103	2133	Anchor @ Roller
2133	2137	S4 Anchor on bottom 664628 E 5656191 N MF #15
2137	2226	Start Paying Out
2226	2236	Stop Paying Out
2236	2248	Start Taking Up Tension(No Fix Taken)
2248	2318	Pretension Fix 664279E 5655404N @40Te
2318	2347	Start Load test @80Te
2347	2400	S4 anchor load test complete 664203E ,5655404N

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO.
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS Radio Modem	2	Maersk Supporter	1	AHT package	1
Total Stations/Tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			PERSONNEL	TITLE
Survey Level/Staff	1			S. Lumb	Surveyor
				M. Elmslie	Surveyor

VEHICLES:

CONSUMABLES:

ACCOMMODATION:

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_54

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 12/01/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	0300	Recover buoy for Anchor P3 Secure and load test and recompute final position
0300	0600	Anchor handling operations complete at this point in time
0600	0730	Personnel transfer from the Supporter to the Guardian
0730	0845	Elmslie and Lumb Depart Guardian for Melbourne and onto Perth

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:				M Elmslie	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen P Lumb	[signature]	P0339_55

Mat Linton 04/02/06

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 2/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
1500	1915	S.Lumb Travel from New Plymouth to Melbourne
1915	2400	Overnight Holiday Inn

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen P Lumb		P0339_56

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 3/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	0415	Overnight Holiday Inn
0415	0720	Travel to Heliport and fly out to the Guardian
0720	0800	Check equipment locate previous reports.
0800	0810	Note the rig has been jacked and will require a level run to the Port Survey Station.
0810	1000	Discussion with Matt Linton regarding work requirements. S Lumb advised that his instructions relate to a pre piling check as the jacket is not fully installed yet. Final position check to occur post piling operations this includes the phase GPS observations.
1000	1100	Phil the rigger assigned as survey hand. Boarded the jacket to explain survey requirements, and then we had to vacate as the derrick was about to skid out. Job on hold until further notice.
1100	1110	Skidding completed. Phil had to attend tool box regarding upcoming programme, and subsequently advised that installation of a pile was about to take place accordingly no access to the jacket available at this time.
1110	1430	Collate information for level transfer from Port Leg to rig deck. Undertake level run with a helping hand from Dom the supervising rigger. Complete height transfer compute new heights for Port and starboard survey stations.
1430	1630	Create ACAD drawing for reporting
1630	2000	Check progress with pile as Dom the supervising rigger had advised that an opportunity might exist at this point in time, opportunity not available. Currently on hold pending access to jacket.
2000	2400	Currently on hold pending access to jacket

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen Lumb	Matt Linton 04/02/06.	P0339_57

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 4/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	0530	Currently on hold pending access to jacket
0830	1030	Gained Access to Jacket and completed field work.
1030	1115	Fire drill
1115	1130	Watch Frog video In preparation for vessel transfer
1130	1430	Start Computations complete preliminary report and diagram
1430	1700	Awaiting transfer to Supporter
1700	1730	S Lumb transferred to the Supporter
1730	1740	Check Nav Set Up. All Operational
1740	1810	Discuss Work scope with Simon (Technip Rep) regarding the remaining two anchors
1810	1840	In Position to drop S3 Awaiting Completion of Back deck tool box meeting
1840	1850	Preparing to deploy and lower anchor S3
1850	1902	S3 on Bottom 663723.326mE 5656191.116mN
1902	1903	Logging started
1903	1921	Chain out preparing to tension anchor
1921	1934	Failed to take start hauling back in
1934	2001	Rotated anchor moving back to drop point
2001	2010	Within 20m ready to deploy S3
2010	2017	Anchor on bottom 663721.74 mE 5656192.44mN
2017	2025	Logging started
2025	2035	Pretension test started
2035	2045	Aborting and starting to haul in S3
2045	2106	Anchor at stern
2106	2122	Anchor on bottom 663713.81mE 5656201.82mN
2122	2123	Logging Started
2123	2211	Wire pennant attached to chain
2211	2300	Stopped paying out wire currently 655m along track
2300	2328	Start pre tension test 80 Tn
2328	2350	Spoke to Simon (Technip) regarding catenary program, he was happy to accept the horizontal projection distances from the spread sheet provided by Technip
1150	2402	Completed load test Final Anchor position **S3(663722.32mE 5656184.89mN)**

DAILY OPERATIONS REPORT

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_58

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 5/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	0010	Operations continue with respect to changing out pennants
0010	1030	Preparing to launch S2
1030	1108	S2 over the stern
1108	1150	Deploying Anchor S2
1150	1157	Anchor on Bottom 663142.26mE 5655607.578mN
1157	1244	Pre Tension Chain to 50 Te
1244	1250	Start 10min Pre Tension Test Stern Fix Start pre Tensioning 663469.7E 5655464.0N(Chain)
1250	1300	Pre Tension Completed
1300	1330	Started logging for final anchor laydown and pre tensioning to 99Te currently attaching the 300m pennant wire..
1330	1420	Paying Out Wire
1420	1456	Coming up on Tension
1456	1514	Load Test Started 99 Te
1514	1545	Load Test Complete Stern coordinates 663919.66E 5655359.66N Compute Final coordinates (**S2 663151.39E 5655604.70N)**
1545	1700	Logging stopped
1700	1707	S2 Buoy deployed 663830.89E 5655291.33N
1707	1718	S3 Buoy Bumped 664116.08 E 5655644.24N
1718	1722	Change Starfix back to wombat configuration
1722	2400	Transfer from Supporter to Guardian Complete Daily Reports and Field reports

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_59

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 6/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0800	2000	Collate information on as laid anchors provide in field report format, check equipment requirements for two phase based GPS positions for height transfer. Camera not onboard but visual check confirms this can be achieved. Will report the same to Perth for implementation as alternative procedure.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_60

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 7/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	0730	S Lumb departs Guardian for New Plymouth

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

ALL equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen Lumb	Mat Linton	P0339_61

Approved by the Operations Manager – 12/05/04
Note – To ensure that this is the latest version check the Online BMS.

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 14/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	0415	Overnight at the Hilton
0415	0445	S Lumb and S Staples await transport to helipad. No sign of transport so we caught a taxi.
0445	0505	Check in for flight, S Staples advised that he was being bumped and will fly out tomorrow.
0705	0810	Helicopter Essodon to Guardian
0900	1540	Start setting up GPS receivers, running cables ensuring lines of site between marks.
1540	1558	Started logging starboard antenna UTC 0440
1558	1900	Started logging port antenna UTC 0458 both antennas to be logged for 12hrs.
1900	1910	Check all systems are operational, note currently a 3.5m sea with less that 10knots of wind. 3hrs worth of logging on port receiver. 3.24hrs worth of logging Stbd receiver.
1900	2400	Continue logging

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen P Lumb		P0339_63

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 15/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	0445	Continue logging
0445	0515	Collect receivers note antenna height measured from ground plane notch, not true vertical. The actual measurement was entered into receiver, notify office for processing purposes. #2485 STBD receiver #4341 PORT receiver
0515	0630	Download data from receivers in readiness for transmittal to Perth Office
0630	0715	Simon Staples arrives Guardian.
0715	0900	Simon Staples undergoes rig induction
0900	1000	Initial introduction to job, including work around survey stations and stern positions
1000	1700	Undertake terrestrial observations for transfer of position and level onto the jacket, limited access to jacket throughout the day.
1700	2400	Process data in preparation for mark up of the jacket cans to 19.40m LAT including transforming data after receipt of post processed GPS data.

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen P Lumb	Brett Rad	P0339_64

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 16/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0600	0700	Complete calculations with respect to antenna heights.
0700	0830	Access jacket and complete level transfer and mark up of the jacket can to 19.4m LAT
0830	1530	Prepare dwg files and field report for submission to Technip.
1530	1800	Set up theodolite and run through operation with Simon

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen P Lumb		P0339_65

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 17/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0600	0930	Awaiting advice on buoy movements.
0930	1000	Simon transferred to the supporter to carry out required buoy shifts
1000	1545	Simon Renwick supplied two dimensional control surveys for comparison. Comparison undertaken and reported back to Simon.
1545	1800	Simon returned from supporter Relocated Buoy positions S3 664025 mE 5655590 mN S4 664370 mE 5655540 mN P1 663856 mE 5654772 mN

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen Lumb.	Brett Pearce	P0339_66

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 18/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	On standby

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_67

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 19/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	On standby

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen Lumb		P0339_68

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 20/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	On standby

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen P Lumb		P0339_69

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 21/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Fugro Personnel on standby for topside operations

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
Stephen Lumb	[signature]	P0339_70

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 22/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	2400	Fugro Personnel on standby for topside operations
1400		Barge with topdeck commenced tow to site with Lady Gerda

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			S Lumb/L Arrowsmith	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_71

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 23/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	23:59	Fugro Personnel on standby for topside operations
11:30		Todeck barge with Lady Gerda arrived on site
13:00	14:00	Meeting to discuss attachment of anchors to topdeck barge and barge movements

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			L Arrowsmith	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_72

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 24/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	1100	Fugro Personnel on standby for topside operations
1100		Started topdeck barge movements to setup location
1345		S.Staples transferred to topdeck barge to fix BMS
1350		Topdeck barge connected to P4 anchor wire
1550		Topdeck barge connected to S4 anchor wire
1830		S.Staples transferred back to JUR
1910		Topdeck barge connected to S2 anchor wire
2130		Topdeck barge connected to P3 anchor wire
2355	2359	Topdeck barge connected to P1 anchor wire, start to tension up on anchors

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			L Arrowsmith	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_73

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 25/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	0040	Continue tensioning up anchors S2, S4, S2, P3 and P1
0040		Disconnected bridle from Invincible Tide
0150		Topdeck barge connected to S1 anchor wire
0515		Topdeck barge connected to S3 anchor wire
0515	0630	Barge tensioning up on all anchors and moving to stand off location
0830		Supporter disconnected from S3, barge and survey personnel standing by for
		Topdeck installation
1030	1115	Carried out an Fire and Abandon Ship Drill
1230		Survey requested to install an additional monitor in barge control room
1430		S.Staples tranfered to barge via FRC
1520	1540	Monitor installed
1800		S.Staples returned to JUR Maersk Guardian
1800	2359	Personnel standing by for topdeck installation
		Note: no time for P2 anchor connection

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			L Arrowsmith	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_74

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 26/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	0900	Personnel standing by for topdeck installation
0900		Barge having problems with BMS, no Mouse
1010		L.Arrowsmith tranfering to barge via Lady Gerda and FRC
1050		Problem on barge fixed
1100	1130	Barge moving to location for lift
1330		L. Arrowsmith back on board Maersk Guardian, survey personnel standing by
1710		Topdeck lifted off barge
1715	1830	Disconnecting P2 anchor wire from barge
1830	2359	Survey personnel standing by till morning for continual recovery of anchor wires

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			L Arrowsmith	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_75

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 27/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	0600	Personnel standing by for disconnection of anchor wires from barge
0600	1310	Continuing disconnection of anchor wires from barge
1310	1325	Barge transit to 500m exclusion zone
1325	1830	Demobilising Maersk Guardian JUR
1830	2359	Survey personnel standing by for morning chopper

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			L Arrowsmith	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_76

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 28/02/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0399

FROM	TO	SUMMARY OF OPERATIONS
0000	0630	Survey personnel standing by for morning chopper
0630		Survey personnel depart Maersk Guardian

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
Starfix Navigation	2	MRU Radio Modem	1	Barge	
Offline Computer	1	Spare AHT Package	1	Motion Sensor / PC	1
Printer	2	AHT Packages		Radio Modem	1
BMS radio Modem	2	Maersk Supporter	1	AHT Package	1
Total Stations/ tripod	2	Lady Gerda	1		
Dual Frequency GPS	2			**Personnel**	**Title**
Survey Level/Staff	1			L Arrowsmith	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_77

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 01/03/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0830	1030	Demobilising Lady Gerda AHT in Portland
1030	1130	Loading Fugro container with equipment from Lady Gerda and top deck barge
1130	1230	Waiting for container to be moved to transportation companies yard
1330	1430	Loading Fugro container with the remaining equipment from Woodside container

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
AHT Packages					
Maersk Supporter	1				
				Personnel	**Title**
				L Arrowsmith	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_78

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: THYLACINE	DATE: 02/03/2006
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0500	1300	Transit from Portland to Melbourne airport

EQUIPMENT	NO.	EQUIPMENT	NO.	EQUIPMENT	NO
AHT Packages					
Maersk Supporter	1				
				Personnel	**Title**
				L Arrowsmith	Surveyor
VEHICLES:				S Staples	Surveyor
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

All equipment remains onboard until personnel return.

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_79

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: BASE STRAIGHT	DATE: 22/03/06
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
2030	2359	Arrived in Melbourne, waiting for morning chopper to Maersk Guardian JUR

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Maersk Guardian		**Maersk Supporter**		Simon Staples	Surveyor
Leica Total Station	1	Starfix Suit	1		
Level	1	DGPS system	1		
Prisms / Tri-Bracs	-	Fluxgate Compass	1		

VEHICLES:

CONSUMABLES:

ACCOMMODATION:

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		P0339_80

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: BASE STRAIGHT	DATE: 23/03/06
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0830		Arrived on board Maersk Guardian
0915	1015	Carrying out level survey of THY-A topdeck
1015	1130	Carrying out LAT transfer to THY-A topdeck
1130	1330	Compiling report for Technip
1330	1500	Demobilising remaining land survey equipment from around JUR
1500	2359	Waiting for morning chopper

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Maersk Guardian		**Maersk Supporter**		Simon Staples	Surveyor
Leica Total Station	1	Starfix Suit	1		
Level	1	DGPS system	1		
Prisms / Tri-Bracs	-	Fluxgate Compass	1		
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
	ALLAN ROGERS	

Fugro Survey Pty Ltd
PM-F50
DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: BASE STRAIGHT	DATE: 24/03/06
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0000	0700	Waiting for chopper

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Maersk Guardian		**Maersk Supporter**		Simon Staples	Surveyor
Leica Total Station	1	Starfix Suit	1		
Level	1	DGPS system	1		
Prisms / Tri-Bracs	-	Fluxgate Compass	1		
VEHICLES:					
CONSUMABLES:					
ACCOMMODATION:					

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
	ALLAN ROGERS	

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: BASE STRAIGHT	DATE: 29/03/06
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0610	1530	Travelling to Portland
1530	2359	Waiting for Maersk Supporter to arrive in port

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Maersk Guardian		**Maersk Supporter**		Simon Staples	Surveyor
		Starfix Suit	1		
Level	1	DGPS system	1		
Prisms / Tri-Bracs	-	Fluxgate Compass	1		

VEHICLES:

CONSUMABLES:

ACCOMMODATION:

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		DOR_83

Fugro Survey Pty Ltd
PM-F50

DAILY OPERATIONS REPORT

CLIENT: TECHNIP	LOCATION: BASE STRAIGHT	DATE: 30/03/06
PROJECT: OTWAY GAS PROJECT	VESSEL: MAERSK GUARDIAN	JOB NO: P0339

FROM	TO	SUMMARY OF OPERATIONS
0830	1115	Demobilising Maersk Supporter
1610	2330	Travelling to Perth

EQUIPMENT	NO.	EQUIPMENT	NO.	PERSONNEL	TITLE
Maersk Guardian		**Maersk Supporter**		Simon Staples	Surveyor
		Starfix Suit	1		
Level	1	DGPS system	1		
Prisms / Tri-Bracs	-	Fluxgate Compass	1		

VEHICLES:

CONSUMABLES:

ACCOMMODATION:

AUTHORISED CONTRACT CHANGES / COMMENTS:

Party Chief Signature:	Client Representative Signature:	D O R Number
		DOR_84

APPENDIX B
AS-BUILT FIELD REPORTS

APPENDIX B1

FINAL RIG POSITION & HEADING

RIG POSITION FIELD REPORT

Thylacine

Client :	**Technip Oceania Pty Ltd**	**Job Number :**	**P0339**
Rig :	**Maersk Guardian**	**Date:**	**21-Nov-05**
Project :	**Otway Gas Project - Thylacine Jacket**		
Attention :	**J.Wilson (Technip) / N. Harrison (Woodside Survey Representative)**		
Company Man :	**D.Rota**		

The final location of the centre stem on the Maersk Guardian was derived from 60 minutes of observations of the Primary Differential GPS Data, between 06:02 and 07:02 hrs on 21 November 2005 on completion of jacking to the final air gap

The results of the observations are as follows:

Geographical Coordinates			**Grid Coordinates**	
Latitude (ϕ)	**-039° 14' 14.60"**	**South**	**Easting**	**664165.6**
Longitude (λ)	**142° 54' 7.77"**	**East**	**Northing**	**5655155.4**

The centre stern position is **6.4 m** at a bearing of **219.2°** Grid from the design location.

The Client supplied design location for : Thylacine .

Geographical Coordinates			**Grid Coordinates**	
Latitude (ϕ)	**-039° 14' 14.44"**	**South**	**Easting**	**664169.7**
Longitude (λ)	**142° 54' 7.94"**	**East**	**Northing**	**5655160.4**
			Heading	**135° Grid**

The heading of the Maersk Guardian was derived from the mean of 10 minutes of the Gyro heading :

127.92° TRUE **129.13° Grid**

All coordinates in this field report are quoted in the following coordinate system:

Datum :	GDA94_Australia_ICSM-ITRF2005.50	Projection :	Transverse Mercator (UTM)	
Spheroid :	GRS80	Zone (Central Meridian) :	54	141° East

Party Chief/Surveyor: P.Caswell / M.Elmslie

Client Representative : J.Wilson

APPENDIX B2

FINAL JACKET POSITION & HEADING

Field Report 11 Dual Phase GPS Observations, Jacket Heighting Orientation and Offset from Stern of JUR Date 16th February 2006

Fugro Survey Pty Ltd where contracted by Technip Oceania Ltd to undertake dual phase GPS and survey observations for the purpose of jacket heighting and orientation to enable the four cans to be marked at 19.400m LAT cut off.
The jacket had been piled, however the structural grouting was not completed.
The jacket was found to be very stable throughout the observational period, with a moderate sea state of less than 3.5m and light winds less than 15knts.
The JUR was moving throughout the observational period primarily due to the fact that the JUR was jacked to an air gap of 29.5m.

Two dual phase GPS antennas where setup on the port and starboard legs. Observations where subsequently logged for a period of twelve hours. The data was then post processed by the Australian Governments AusPos Online GPS processing service.
Using the post processed baseline, positional information was then transferred to the jacket using conventional survey from both GPS points by using a total station.
Throughout the survey forced centering was employed to minimise observational errors arising from the inability to use the total stations compensator. This inability was due primarily to the amount of movement occurring on the JUR.
The total station was set up on each of the GPS survey stations and then moved to the starboard stern of the Maersk Guardian and a number of observations were taken to the centres of the tower legs. The total station was then moved to the port stern of the rig and the observations were repeated to the same points on the jacket. From these observations orientation and offsets of the jacket datum from rig centreline and the transom were calculated.
This method provided an independent check on our positional and level transfer to the jacket. The results confirmed that the positional and level transfer had been undertaken correctly by the survey team.

The results of the orientation and offset checks are summarised in the following tables:

Orientation (Grid Bearing)	
Jacket Heading	219.79°
JUR Stern Heading	219.0°
Difference	0.79°

Orientation was calculated from the bearing between the observed positions of tower legs E/3 and C/3.

From the observations to the three tower legs a coordinate for the datum of the jacket was able to be calculated.

Jacket Datum Coordinate (GDA94, MGA94, CM 141° E)	
Easting	664161.63
Northing	5655160.19

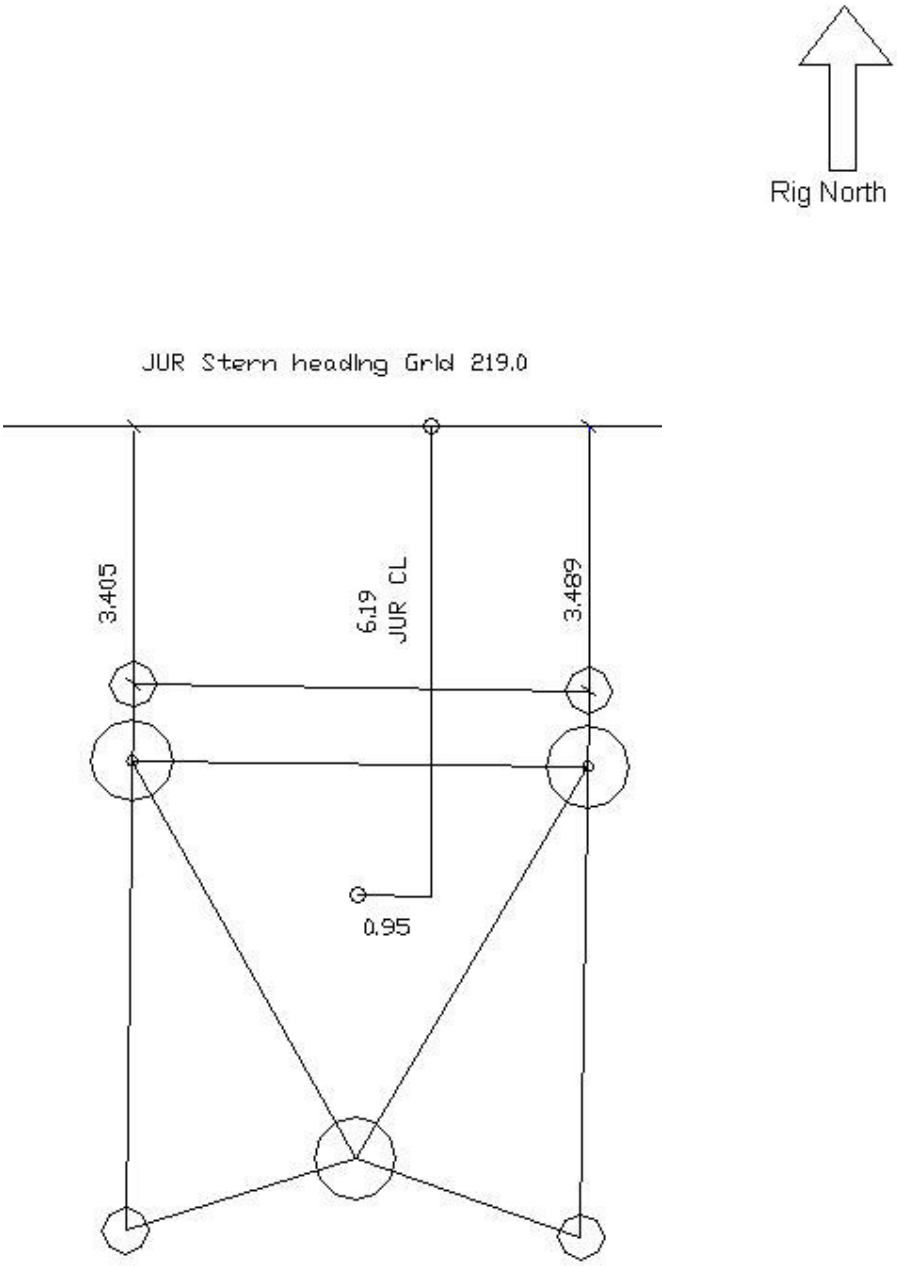
Using this coordinate offsets from the rigs transom and centreline were calculated.

Jacket Datum Offsets	
Offset from Transom	-6.19m
Offset from Rig Centreline	-0.95m

Using a split bubble level and steel rule, elevations relative to LAT were transferred to the four cans requiring trimming.
Also included for clarity is a table detailing the relationship of the drill floor to the jacket cut offs and the current air gap.

Observations were undertaken in the best conditions that we have seen thus far on this job.

……..
Stephen P Lumb
Registered Surveyor
Fugro BTW Ltd
Maersk Guardian



19.400 RL LAT Marked On Cans

Platform heading Grid 219.79

Note: All Dimensions in Metres

All heading information in terms of Grid Bearings

Location	Computed Heights Above LAT
Drill Floor	50.46m LAT
Air Gap	29.51m LAT
Marked Cut Offs	19.40m LAT

APPENDIX B3

FINAL JACKET LEVEL AND LAT HEIGHT

Field Report 13 THY-A Topdeck level and Height Above LAT Date 23th March 2006

Fugro Survey Pty Ltd where contracted by Technip Oceania Ltd to undertake a final survey of the topdeck module once in place. The final survey consisted of a level traverse over the topdeck and transferring the LAT height to the topdeck.

The level traverse covered 8 points around the topdeck. From the results it can be seen that the lowest point is on the northern most point of the helideck with a gradual slope towards the highest point at the flare boom +0.163m giving a gradient of 0.27°. See the drawing attached to this report.

The LAT height was transferred from the starboard stern control station that had been established previously from a traverse and a height from DGPS carrier phase observations. A number of observations were taken to level point 6 on the jacket topdeck and averaged out in order to minimise errors from the jacket and JUR movement.

The attached drawing shows the location of all level points and the differences between.

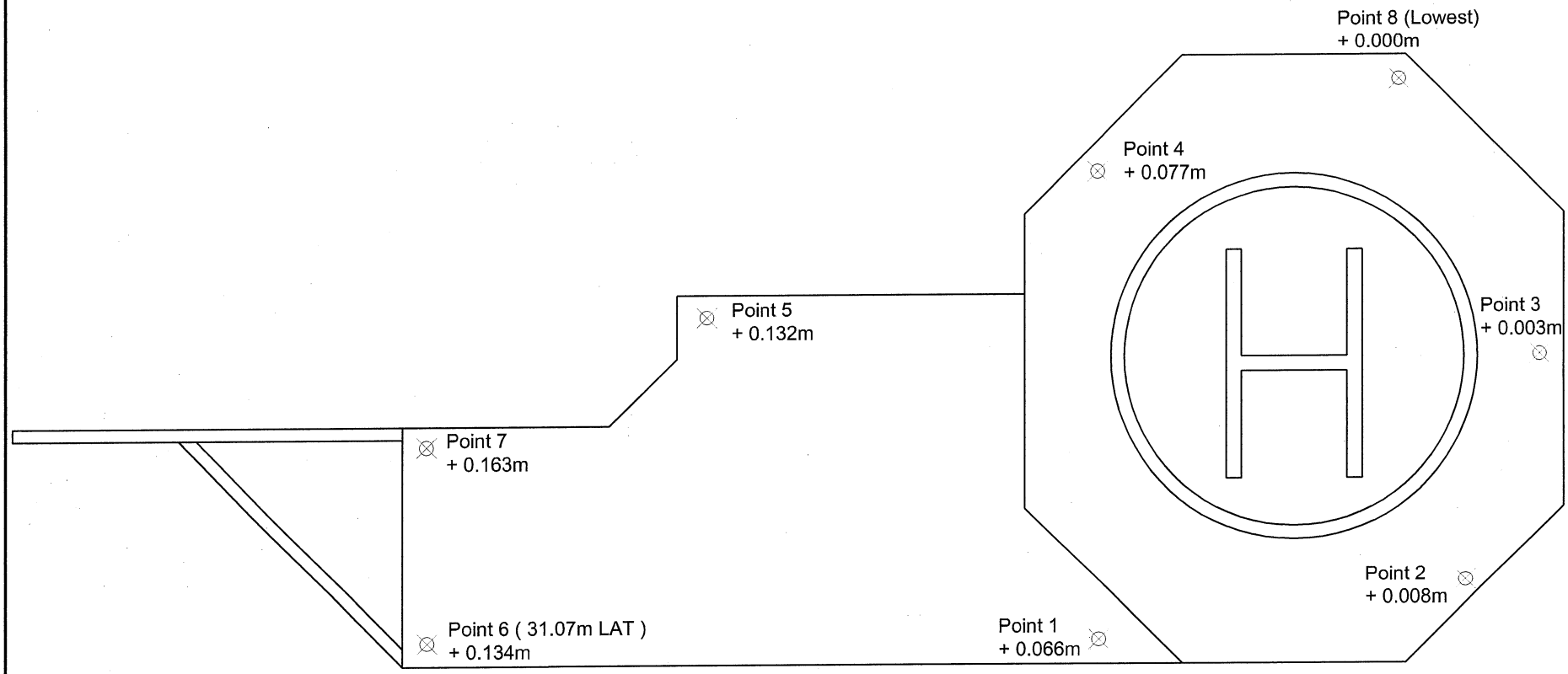
Table showing the LAT heights

Position	LAT Height (m)
JUR drill floor	50.46
Hull of JUR	29.51
Jacket Topdeck (**Avgerage**)	31.01

.....
Simon Staples

FUGRO SURVEY PTY LTD.

TOPDECK LEVELS OF THY-A



NOTE: conditions where not to good due to the large swell causing the movement on the jacket.
DRAWING NOT TO SCALE

APPENDIX C
FINAL CARRIER PHASE PROCESSING RESULTS

Australian Government

Geoscience Australia

AUSPOS Online GPS Processing Report

Space Geodesy Analysis Centre
Geohazards Division, Geoscience Australia

February 15, 2006

This document is a report of the GPS data processing undertaken by the AUSPOS Online GPS Processing Service. The AUSPOS Online GPS Processing Service uses International GPS Service (IGS) products (final, rapid, ultra-rapid depending on availability) including Precise Orbits, Earth Orientation, Coordinate Solutions (IGS-SSC) to compute precise coordinates in ITRF anywhere on Earth. The Service is designed to process only dual frequency GPS phase data.

The AUSPOS Online GPS Processing Service is a free service and you are encouraged to use it for your projects. However, you may not charge others for this service. Geoscience Australia does not warrant that this service a) is error free; b) meets the customer's requirements. Geoscience Australia shall not be liable to the customer in respect of any loss, damage or injury (including consequential loss, damage or injury) however caused, which may arise directly or indirectly in respect of this service.

An overview of the GPS processing strategy is attached to this report. Please direct email correspondence to geodesy@ga.gov.au

AUSPOS Project Manager

Geohazards Division
Geoscience Australia
Cnr Jerrabomberra and Hindmarsh Drive
GPO Box 378, Canberra, ACT 2601, Australia
Freecall (Within Australia): 1800 800 173
Tel: +61 2 6249 9111. Fax: +61 2 6249 9929
Geoscience Australia Home Page: www.ga.gov.au

Job number: #167383; User: `r.bright@fugro.com.au` AUSPOS version 1.01.24

1 User and IGS GPS Data

All antenna heights refer to the vertical distance from the Ground Mark to the Antennna Reference Point (ARP).

User File	Antenna Type	Antenna Height (m)	Start Time	End Time
`24850451.000`	`DEFAULT(NONE)`	0.0000	2006-02-14 04:40:00	2006-02-14 17:53:00
`43410450.000`	`DEFAULT(NONE)`	0.0000	2006-02-14 04:57:59	2006-02-14 17:59:00

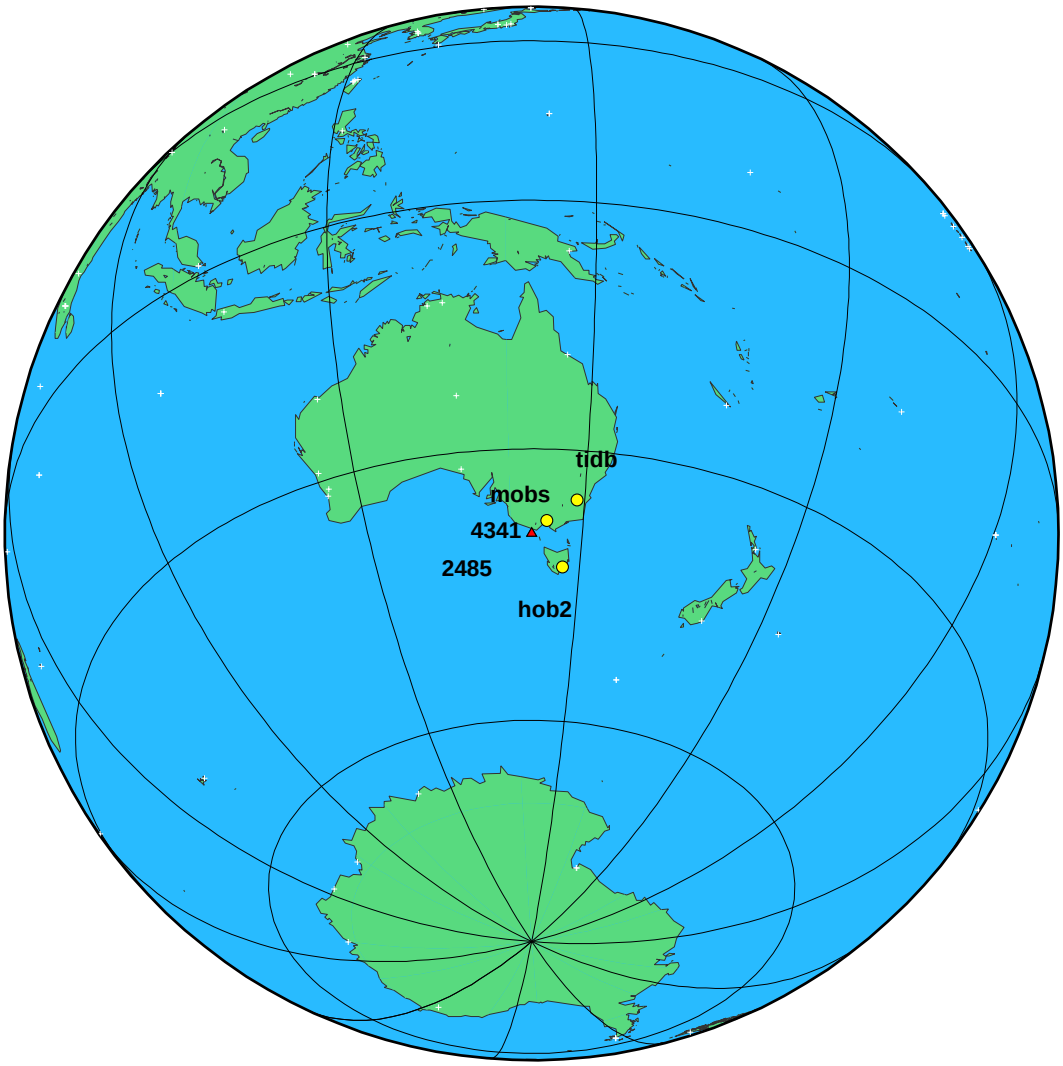


Figure 1: Global View – submitted GPS station(s) and nearby IGS GPS stations used in the processing; triangle(s) represent submitted user data; circle(s) represent the nearest available IGS stations.

2 Processing Summary

Date	IGS Data	User Data	Orbit Type
2006-02-14	mobs hob2 tidb	2485 4341	IGS Ultra-Rapid

Warning: An IGS Ultra-Rapid orbit product has been used in this computation. For improved results please resubmit approximately 2 days after the observation session end to ensure the use of the IGS Rapid orbit product. For the highest quality coordinates please resubmit approximately 2 weeks after the observation session end to ensure the use of the IGS Final orbit product.

3 Computed Coordinates, GDA94

For Australian users Geocentric Datum of Australia (GDA94, ITRF92@1994.0) coordinates are provided. GDA94 coordinates are determined from ITRF coordinates by an Geoscience Australia (GA) derived coordinate transformation process. GA transformation parameters between ITRF and GDA94 are re-computed weekly, incorporating the latest available tectonic motions (determined from the GA GPS network). GA recommends that users within Australia use GDA94 coordinates. All coordinates refer to the Ground Mark. For general/technical information on GDA94 see www.ga.gov.au/nmd/geodesy/datums/gda.jsp and www.icsm.gov.au/icsm/gda/gdatm/

3.1 Cartesian, GDA94

	X(m)	Y(m)	Z(m)	
tidb	-4460996.066	2682557.134	-3674443.860	GDA94
hob2	-3950071.285	2522415.221	-4311638.526	GDA94
mobs	-4130635.787	2894953.100	-3890531.465	GDA94
2485	-3945527.059	2983754.210	-4012824.890	GDA94
4341	-3945575.743	2983742.769	-4012785.801	GDA94

3.2 Geodetic, GRS80 Ellipsoid, GDA94

The height above the Geoid is computed using the GPS Ellipsoidal height and subtracting a Geoid-Ellipsoid separation. Geoid-Ellipsoidal separations are computed using a bilinear interpolation of the AUSGeoid98 grid. The height above the Geoid is only provided for sites within the AUSGeoid98 extents. For information on AUSGeoid98 see www.ga.gov.au/nmd/geodesy/ausgeoid/

	Latitude(DMS)	Longitude(DMS)	Ellipsoidal Height(m)	Above-Geoid Height(m)	
tidb	-35-23 -57.1561	148 58 47.9845	665.425	646.140	GDA94
hob2	-42-48 -16.9852	147 26 19.4356	41.144	44.450	GDA94
mobs	-37-49 -45.8990	144 58 31.2066	40.677	35.730	GDA94
2485	-39-14 -15.8523	142 54 7.4652	49.281	52.523	GDA94
4341	-39-14 -14.2157	142 54 9.0701	49.287	52.525	GDA94

3.3 MGA Grid, GRS80 Ellipsoid, GDA94

	East(M)	North(M)	Zone	Ellipsoidal Height(m)	Above-Geoid Height(m)	
tidb	679807.860	6080884.476	55	665.425	646.140	GDA94
hob2	535873.399	5260777.226	55	41.144	44.450	GDA94
mobs	321819.591	5811180.033	55	40.677	35.730	GDA94
2485	664157.398	5655117.077	54	49.281	52.523	GDA94
4341	664196.937	5655166.726	54	49.287	52.525	GDA94

4 Computed Coordinates, ITRF2000

All computed coordinates are based on the IGS realisation of the ITRF2000 reference frame, provided by the IGS cumulative solution. All the given ITRF2000 coordinates refer to a mean epoch of the site observation data. All coordinates refer to the Ground Mark.

4.1 Cartesian, ITRF2000

	X(m)	Y(m)	Z(m)	ITRF2000 @
tidb	-4460996.476	2682557.095	-3674443.302	2006/02/14
hob2	-3950071.735	2522415.277	-4311638.013	2006/02/14
mobs	-4130636.232	2894953.102	-3890530.911	2006/02/14
2485	-3945527.521	2983754.236	-4012824.341	2006/02/14
4341	-3945576.205	2983742.795	-4012785.252	2006/02/14

4.2 Geodetic, GRS80 Ellipsoid, ITRF2000

The height above the Geoid is computed using the GPS Ellipsoidal height and subtracting a Geoid-Ellipsoid separation. Geoid-Ellipsoidal separations, in this section, are computed using a spherical harmonic synthesis of the global EGM96 geoid. More information on the EGM96 geoid can be found at
earth-info.nga.mil/GandG/wgsegm/egm96.html

	Latitude(DMS)	Longitude(DMS)	Ellipsoidal Height(m)	Above-Geoid Height(m)
tidb	-35-23 -57.1351	148 58 47.9942	665.372	646.209
hob2	-42-48 -16.9640	147 26 19.4442	41.096	44.606
mobs	-37-49 -45.8775	144 58 31.2170	40.626	36.036
2485	-39-14 -15.8307	142 54 7.4759	49.231	53.240
4341	-39-14 -14.1940	142 54 9.0809	49.237	53.242

5 Solution Information

To validate your solution you should check the :-

i. Antenna Reference Point (ARP) to Ground Mark records;

ii. Apriori Coordinate Updates (valid range is 0.000 - 15.000 m);

iii. Coordinate Precision (valid range is 0.001 - 0.025 m);

iv. Root Mean Square (RMS) (valid range is 0.0005 - 0.0250 m); and

v. % Observations Deleted (valid range is 0 - 25) %;

5.1 ARP to Ground Mark, per day

All heights refer to the vertical distance from the Ground Mark to the Antenna Reference Point (ARP). The Antenna Offsets refer to the vertical distance from the ARP to the L1 phase centre.

	Height(m)	Antenna Offsets(m)			
Station	Up	East	North	Up	yyyy/mm/dd
2485	0.0000	0.0000	0.0000	0.0000	2006/02/14
4341	0.0000	0.0000	0.0000	0.0000	2006/02/14

5.2 Apriori Coordinate Updates - Cartesian, per day

	dX(m)	dY(m)	dZ(m)	yyyy/mm/dd
2485	0.040	0.031	-0.009	2006/02/14
4341	-0.077	-0.097	-0.046	2006/02/14

5.3 Coordinate Precision - Cartesian, per day

1 Sigma	sX(m)	sY(m)	sZ(m)	yyyy/mm/dd
2485	0.011	0.011	0.011	2006/02/14
4341	0.011	0.011	0.011	2006/02/14

5.4 RMS, Observations, Deletions per day

Data	RMS (m)	# Observations	% Obs. Deleted	Date
tidb	0.0087	26239	5 %	2006-02-14
hob2	0.0096	23674	7 %	2006-02-14
mobs	0.0079	36123	6 %	2006-02-14
2485	0.0153	13807	19 %	2006-02-14
4341	0.0155	16377	20 %	2006-02-14

A GPS Computation Standards

A.1 Measurement Modelling

Observable	Ionosphere corrected L1 double difference carrier phase, Psuedo-range only used for receiver clock estimation, Elevation cut-off 15°, Sampling rate 30 seconds, Weighting 1.0cm for double difference, elevation dependent 1/sin(E).
Troposphere	Hopfield, Niell mapping function
Preprocessing	Receiver clocks estimated using pseudo-range information
Satellite center of mass correction	Block II x,y,z: 0.2794, 0.0000, 1.0259 m Block IIA x,y,z: 0.2794, 0.0000, 1.2053 m
Satellite Antenna Phase centre calibration	Not applied
Ground Antenna phase centre calibrations	Elevation-dependent phase centre corrections are applied according to the model IGS01, the NGS antenna calibrations are used when the antenna used is not a recognised IGS type. The corrections are given relative to the Dorne Margolin T antenna.
Atmospheric Drag	Jachhia Model
Centre of Mass Correction / Attitude	Nil

A.2 Orbit Modelling

Earth's Gravitational (Static) Potential Model	EGM96 - degree and order 12
Solid Earth Tides (Dynamic) Potential	Love Model
Ocean Tide (Dynamic) Potential	Christodoulidis
Third Body Perturbations	Sun, Moon and Planets Values for physical constants - AU, Moon/Earth mass ratio, GM(moon, sun and planets) from JPL DE403 Planetary Ephemeris.
Direct Solar Radiation Pressure	Rock

A.3 Station Position Modelling and Reference Frame

Precession	IAU76/IERS96
Nutation	IAU80/IERS96 (including epsilon and psi corrections)
Sine terms added to accumulated precession and nutation in Right Ascension	As in IERS TN 21, p. 21
Geodesic Nutation	As in IERS TN 21, P. 37
Polar Motion	IGS Earth Orientation Parameters (Ultra-rapid, Rapid, Final) - apriori
Earth Rotation (UT1)	IGS Earth Orientation Parameters (Ultra-rapid, Rapid, Final) - apriori
Daily and Sub-daily tidal corrections to X, Y and UT1	Applied (IERS2000)
Plate Motion	IGS Cumulative SSC
Planetary and Lunar Ephemeris	JPL DE403
Station Displacement - Solid Earth Tide Loading	Williamson and Diamante (1972) + Wahr (1980) for the frequency dependent elastic response of the Earth's fluid interior.
Station Displacement - Ocean Tide Loading	not applied
Station Displacement - Pole Tide	applied
Station Displacement - Atmosphere Loading	not applied
Reference Frame	IGS Cumulative SSC

APPENDIX D
HS&E MANAGEMENT

HEALTH, SAFETY & ENVIRONMENT MEETING RECORD

Date: 30 November 2005	**Time: 1915-1930**
Location: Maersk Guardian	**Job Number: P0339**

Personnel Present:

P. Caswell

M. Elmslie

Items Discussed:

1. PPE - Boots, overalls, hard hats and glasses required on deck. Ensure clear glasses available for night time work.
2. Reminder on hazard identification. Use Maersk/Technip systems as appropriate to record any potential hazards observed.
3. Review of upcoming activities
   - Mobilisation of Ray J Hope. JHA on 'Mobilisation of Anchor Vessels' to be reviewed and amended if required.
   - Observation of final jacket position and transfer of level datum. Need to be aware of other activities happening simultaneously on the rig. Suggest wearing of fluoro vests so that personnel are more easily seen by others on deck. Theodolite set up at port and starboard stern requires close proximity to rig side – life vest / safety line if required.
   - Possible transfer to jacket once on seabed. Use ladders/stairway provided and life vest to be worn. Supervision by Technip personnel required.
4. Possible demobilisation of some equipment to Perth. Use correct manual handling techniques with lifting of heavy boxes.
5. Personnel transfer to AHTs will be with the 'Frog'. Ensure training is provided and personnel properly instructed on procedure prior to use each time.

Action Items:	Action by:	Target date
1. Request Fugro, Perth to provide fluro vests for use on deck.	PC	
2. Discuss with Technip HSE the safety requirements for use of theodolite at port and starboard stern.	PC	

Signature of Site HS&E Rep:	PAlnwen	**Date:**	30/11/2005

PLEASE FORWARD ORIGINAL TO FUGRO SURVEY HS&E MANAGER

HEALTH, SAFETY & ENVIRONMENT MEETING RECORD

Date: 15 December 2005	**Time: 1830-1850**
Location: Maersk Guardian	**Job Number: P0339**

Personnel Present:

P. Caswell

S. Lumb

Items Discussed:

1. PPE - Reminder on requirement for overalls, hard hats and glasses when on deck.
2. Completed familiarisation tour on deck to show location of survey stations and safe access to potential work areas.
3. Advise barge engineer when going onto deck for survey observations in case of conflict with other simultaneous operations.
4. Fluro vests arrived from Perth, should be worn when undertaking levelling and theodolite work on deck.
5. JHA for survey operations at the stern has been reviewed today. Prior to actually commencing the work an 'Over Side' work permit is to be raised, and the JHA again reviewed during a formalised toolbox meeting in accordance with Maersk safety systems.
6. Review of other upcoming activities
   - Vessel transfers are now unlikely to be required. However, if transfer is required personnel to watch 'Frog' video and ensure Frog operations are properly supervised by rig personnel.
   - Possible transfer to jacket once on seabed. Use ladders/stairway provided and life vest to be worn. Supervision by Technip personnel required.
7. Reminder that emergency muster drills normally held each Saturday. Rig safety meeting held every fortnight and Fugro personnel to attend if possible.

Action Items:	Action by:	Target date
1. Request hard hat chin strap from Technip.	SL	

Signature of Site HS&E Rep: PA Lumsden	**Date:** 15/12/05

PLEASE FORWARD ORIGINAL TO FUGRO SURVEY HS&E MANAGER

HEALTH, SAFETY & ENVIRONMENT MEETING RECORD

Date: 21/02/2006	**Time: 14:00**
Location: Maersk Guardian	**Job Number: P0339**

Personnel Present:

Steve Lumb

Simon Staples

Items Discussed:

1. PPE – Reminder on requirement for PPE on deck.
2. Review of other upcoming activities

- Transfers to jacket. Use ladder and full harness and life jacket as per Technip JSA.
- Transfers to vessel via 'Frog'. Watch safety video and make sure PPE worn during transfer including chin strap for hard hat.

3. Participated in abandon ship drill on the 18th February at 22:30.

Action Items:	Action by:	Target date

Signature of Site HS&E Rep: Stephen Lumb **Date:** 21st Feb 2006

PLEASE FORWARD ORIGINAL TO FUGRO SURVEY HS&E MANAGER

APPENDIX E
GYRO CALIBRATION

Field Report 1 **Gyro Calibration** **Date: 18 November 2005**

To provide heading information for the *Maersk Guardian* jack-up rig during the Otway Gas Project the rig was mobilised with an SG Brown gyro compass. This was installed in the control room and was interfaced to the navigation computer.

Calibration of the gyro compass was undertaken in two stages prior to the rig being floated off the heavy lift vessel in Western Port, Victoria. Between 19:45 and 20:30 on 15 November 2005 a series of theodolite observations were made from the helideck of the *Maersk Guardian* to the *Maersk Supporter* at anchor approximately 1km from the rig. A prism had been previously attached to the main mast of the *Maersk Supporter* for this purpose. The DGPS system on this vessel had been calibrated alongside in Portland and vessel position was being transmitted to the rig using Starfix.Wombat.

The positions for the observing station and the *Maersk Supporter* mast were recorded together with gyro compass readings at the time of the theodolite observation. This enabled a calculated rig heading to be compared against the observed value and a correction determined.

In addition to this calibration, a series of sun azimuth observations were made between 17:14 and 17:42 on 16 November. A Wild T1000 theodolite was set up on the helideck and a reference bearing established parallel with the centreline of the rig. . Observed gyrocompass values were logged with Starfix.Seis during the period of sun observations and a gyro correction value was determined by comparing computed rig heading with the observed values.

The mean correction determined from both calibration exercises is summarised in the following table.

Gyro Compass	Mean Correction
SG Brown (S/N 136002)	-0.82°

This value was entered to the navigation computer to correct all interfaced gyro values obtained during the subsequent rig move to the Thylacine location.

Attached are copies of the Fugro Survey gyro compass calibration forms completed for the calibration observations.

.....

Paul Caswell
Fugro Survey Pty Ltd
Maersk Guardian

GYRO COMPASS CALIBRATION BY SUN AZIMUTH - CALCULATION SUMMARY

Fugro Job Number:	P0339	**Vessel:**	Maersk Guardian
Job Description:	Otway Gas Project - Thylacine Jacket	**Instrument**	Wild T1000
Client:	Technip Oceania Pty Ltd	**Serial No.**	13040
Surveyor:	P.Caswell / M.Elmslie	**Date:**	November 16, 2005
		Time Zone :	11hrs

Vessel Details

	D	M	S
Enter correction from RO to vessel centreline	180°	00 '	00 "

Enter approximate WGS84 position of instrument :

	D	M	S
Latitude (ϕ)	-38 °	25 '	57 "
Longitude (λ)	145 °	15 '	13 "

Observations

Obs. No.	Date	UTC	Instrument Position		Calculated Sun Azimuth at UTC		Observed Direction to Sun				Calc'd Vessel Hdg	Obs'd Vessel Hdg	Sun Semi Diameter	(C-O) Degrees
			Latitude (ϕ) DMS	Longitude (λ) DMS	DMS	Dec. Deg	Deg	Min	Sec	Dec. Deg				
1	16-Nov-05	6:14:10	-038° 25' 57.00"	145° 15' 13.00"	271° 16' 36.33"	271.277 °	340°	34'	38	340.577	110.700 °	111.30 °	0.2700	-0.60 °
2	16-Nov-05	6:16:34	-038° 25' 57.00"	145° 15' 13.00"	270° 53' 51.91"	270.898 °	340°	35'	52	340.598	110.300 °	110.80 °	0.2700	-0.50 °
3	16-Nov-05	6:24:34	-038° 25' 57.00"	145° 15' 13.00"	269° 38' 55.41"	269.649 °	336°	17'	34	336.293	113.356 °	114.00 °	0.2700	-0.64 °
4	16-Nov-05	6:25:31	-038° 25' 57.00"	145° 15' 13.00"	269° 30' 6.38"	269.502 °	335°	37'	05	335.618	113.884 °	114.50 °	0.2700	-0.62 °
5	16-Nov-05	6:30:26	-038° 25' 57.00"	145° 15' 13.00"	268° 44' 43.89"	268.746 °	336°	26'	37	336.444	112.302 °	113.00 °	0.2700	-0.70 °
6	16-Nov-05	6:32:26	-038° 25' 57.00"	145° 15' 13.00"	268° 26' 23.48"	268.440 °	335°	42'	22	335.706	112.734 °	113.40 °	0.2700	-0.67 °
7	16-Nov-05	6:34:47	-038° 25' 57.00"	145° 15' 13.00"	268° 04' 55.42"	268.082 °	333°	30'	12	333.503	114.579 °	115.20 °	0.2700	-0.62 °
8	16-Nov-05	6:35:39	-038° 25' 57.00"	145° 15' 13.00"	267° 57' 1.69"	267.950 °	332°	37'	01	332.617	115.334 °	116.00 °	0.2700	-0.67 °
9	16-Nov-05	6:40:06	-038° 25' 57.00"	145° 15' 13.00"	267° 16' 39.70"	267.278 °	331°	10'	52	331.181	116.097 °	116.80 °	0.2700	-0.70 °
10	16-Nov-05	6:42:13	-038° 25' 57.00"	145° 15' 13.00"	266° 57' 33.52"	266.959 °	326°	41'	44	326.696	120.264 °	120.80 °	0.2700	-0.54 °

Mean	**-0.63 °**
Std. Deviation	**0.07**
Maximum	**-0.50 °**
Minimum	**-0.70 °**
Range	**0.20**

Signature

SURVEYOR / PARTY CHIEF
P.Caswell / M.Elmslie

Fugro Survey Pty Ltd
FSHY31-2

GYRO-COMPASS CALIBRATION - RESULTS SHEET

Fugro Job Number:	P0339	**Location**	Western Port
Job Description:	Otway Gas Project	**Vessel:**	Maersk Guardian
Client:	Technip	**Observation Date:**	15 November 2005
Surveyor:	P.Caswell/M.Elmslie	**Gyro :**	SG Brown
Time Zone	UTC+ 11	**Serial No.:**	136002

Geodesy

Spheroid	GRS80	**Projection**	Transverse Mercator (UTM)	**Zone**	54
Datum	GDA94_Australia_ICSM-ITRF2005.50	**Central Meridian**	141		

Results

Obs	Time (hh:mm:ss)	Calculated Bearing to Mast (Grid)				Observed Angle to RO				Calculated Heading (G)	Calc Heading (T)	Observed Heading (T)	C-O
1	19:56:38	276	011	036	276.1935	47	35	36	47.593	228.600	225.96	227.00	-1.04
2	19:57:25	276	010	018	276.1717	47	27	55	47.465	228.706	226.07	227.20	-1.13
3	19:59:30	276	015	003	276.2509	46	53	38	46.894	229.357	226.72	227.80	-1.08
4	20:07:02	275	055	027	275.9240	44	48	41	44.811	231.113	228.47	229.30	-0.83
5	20:10:45	276	003	006	276.0516	44	13	22	44.223	231.829	229.19	230.20	-1.01
												Mean	**-1.02**
												SD	**0.12**

Signature

SURVEYOR/PARTY CHIEF

Date :

Fugro Survey Pty Ltd
FSHY31-2

GYRO-COMPASS CALIBRATION - INPUT SHEET

Fugro Job Number:	P0339	**Location**	Western Port
Job Description:	Otway Gas Project	**Vessel:**	Maersk Guardian
Client:	Technip	**Observation Date:**	15 November 2005
Surveyor:	P.Caswell/M.Elmslie	**Gyro Type:**	SG Brown
Time Zone	UTC+ 11	**Serial No.:**	136002

Geodesy

Spheroid	GRS80	**Projection**	Transverse Mercator (UTM)
Semi Major Axis	6378137	Central Meridian	141
Inverse Flattening	298.2572	False Easting	500000
Datum	GDA94_Australia_ICSM-ITRF2005.50	False Northing	10000000
		Central Scale Factor	0.9996

Station Details

Instrument Station: Stn 2 (Maersk Guardian Traverse)
Instrument Type : Leica TCRP1203
Instrument Serial No. : -

Backsight Station (RO) : Stn 1 (Maersk Guardian Traverse)

Calculated Convergence : 002 38 06

Observations

Obs	Time	Observer's Position		Maersk Supporter Mast		Observed Angle to RO			Observed Heading
		Easting	Northing	Easting	Northing				
1	19:56:38	869678	5737586	870664	5737479	47	35	36	227.00
2	19:57:25	869675	5737585	870665	5737478	47	27	55	227.20
3	19:59:30	869682	5737583	870668	5737475	46	53	38	227.80
4	20:07:02	869686	5737578	870669	5737476	44	48	41	229.30
5	20:10:45	869690	5737577	870671	5737473	44	13	22	230.20

Signature PA Caswell
SURVEYOR/PARTY CHIEF

Date : 15/11/2005

APPENDIX F
DGPS VERIFICATION

Field Report 2 **DGPS Check** **Date: 16 November 2005**

To provide surface positioning for the *Maersk Guardian* during the rig move to Thylacine, the jack-up was mobilised with two Fugro Starfix Differential GPS systems. These systems were installed, interfaced to the navigation computer and configured to provide three navigation solutions as summarised in the following table.

System	Description	Reference Stations
Primary	Starfix HP	Melbourne, Ceduna, Cobar, Bathurst (OPTUS and APSAT)
Secondary	Starfix GSS	Global corrections
Tertiary	Starfix MRDGPS	Melbourne, Ceduna, Cobar, Bathurst (OPTUS and APSAT)

During the vessel mobilisation at Western Port, Victoria the rig remained on the heavy lift vessel and the only means to check the DGPS was against the positioning system on board the *Maersk Supporter*. A DGPS check had been undertaken on the *Maersk Supporter* during mobilisation in Portland and a prism was mounted on the vessel mast at this time to allow subsequent checks to be made from the rig to this vessel.

Prior to the position check, all rig offsets had been confirmed by traverse and the gyro compass had also been calibrated. A Wild T1000 Total Station was set up on one of the traverse stations and a reference bearing established relative to rig heading. Between 11:30 and 11:50 on 16 November 2005, horizontal angles and distances were measured from the rig to the *Maersk Supporter* mast. Position data for the rig and the *Maersk Supporter*, as provided by Starfix.Wombat, were logged during this time to permit a comparison to be made between observed and computed positions.

A summary of the results of the position check is shown in the table below.

Position	Mean C-O East (SD)	Mean C-O North (SD)
Maersk Supporter Mast	-1.67 (0.44)	-0.78 (0.33)

A DGPS system comparison was also undertaken prior to moving the rig onto the design location. Position data for all three systems was logged between 22:19 and 22:29 on 17 November and reduced to vessel datum to allow comparisons to be made. The table below summarises the results obtained.

System	Diff East (m)	Diff North (m)	SD East	SD North
Primary	-		-	
Secondary	-0.21	0.03	0.07	0.04
Tertiary	-0.04	0.17	-0.48	-0.48

The above results indicate that all positioning systems were installed and operating correctly. Attached are copies of the Fugro Survey DGPS verification forms compiled during the checks undertaken.

PA Caswell

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Paul Caswell
Fugro Survey Pty Ltd
Maersk Guardian

Fugro Survey Pty Ltd

DGPS CALIBRATION - CALCULATION SUMMARY

Fugro Job Number:		P0339		**Vessel:**	Maersk Guardian
Job Description:		Otway Gas Project		**Instrument**	Leica 1203 Total Station
Client:		Technip Oceania Pty Ltd		**Serial No.**	
Surveyor:		PC/ME		**Date:**	16th November 2005
				Time Zone :	UTC +11
Setup Stn:	Stn 11	**Backsight Stn:**	MRDGPS Antenna	**Target:**	Prism on Maersk Supporter Mast

Geodesy

Spheroid	GRS80	**Projection**	Transverse Mercator (UTM)
Datum	GDA94_Australia_ICSM-ITRF2005.50	**Central Meridian**	141
		Zone	54

Obs	Stn 11 Coordinates		Grid Bearing			Dist(m)	Calculated		Observed		C-O	
Number	Easting	Northing	Deg	Min	Sec		Easting	Northing	Easting	Northing	Diff E(m)	Diff N(m)
1	871514.80	5737350.84	111	51	13	166.968	871669.77	5737288.69	871671.50	5737289.95	-1.73	-1.26
2	871516.69	5737350.51	109	49	57	166.671	871673.47	5737293.97	871674.91	5737294.50	-1.43	-0.54
3	871517.38	5737350.21	108	58	53	166.346	871674.68	5737296.11	871676.13	5737297.22	-1.44	-1.11
4	871517.06	5737350.25	107	56	27	166.942	871675.89	5737298.82	871676.64	5737299.79	-0.75	-0.97
5	871516.67	5737349.64	106	52	50	165.019	871674.58	5737301.72	871676.24	5737301.99	-1.66	-0.27
6	871515.65	5737348.91	105	51	27	164.281	871673.68	5737304.02	871675.47	5737304.31	-1.79	-0.30
7	871514.37	5737348.15	105	27	52	163.682	871672.13	5737304.50	871673.92	5737305.32	-1.79	-0.82
8	871512.96	5737347.42	105	23	17	162.606	871669.74	5737304.27	871671.33	5737305.29	-1.59	-1.02
9	871511.36	5737346.66	105	4	9	160.839	871666.66	5737304.84	871669.02	5737305.50	-2.36	-0.66
10	871506.80	5737344.82	105	7	21	160.807	871662.04	5737302.86	871664.19	5737303.71	-2.16	-0.85
										Mean	**-1.67**	**-0.78**
										SD	**0.44**	**0.33**

Signature

SURVEYOR/PARTY CHIEF

Fugro Survey Pty Ltd
FSHY25-5
DGPS COMPARISON - THREE SYSTEMS

Client :	Technip Oceania Pty Ltd	**Job No.:**	P0339	**Datum :**	GDA94
Project :	Otway Gas Project	**Vessel :**	Maersk Guardian	**Spheroid :**	GRS80
Survey Station :	Offshore comparison	**Obs Date :**	17th November 2005	**Projection :**	UTM
Time Zone :	UTC + 11	**Surveyor :**	PC / ME	**CM :**	141
				Zone :	54

Obs	UTC Time	Fix	Starfix HP		StarfixGSS		Differences 1 - 2		Starfix MRDGPS		Differences 1 - 3	
			Easting	Northing	Easting	Northing	dE (m)	dN (m)	Easting	Northing	dE (m)	dN (m)
1	11:19:18	981	663452.89	5658957.76	663453.16	5658957.71	-0.28	0.05	663453.17	5658956.92	-0.28	0.84
2	11:19:48	982	663446.05	5658982.16	663446.26	5658982.15	-0.21	0.01	663446.44	5658981.79	-0.40	0.38
3	11:20:18	983	663438.12	5659005.54	663438.37	5659005.51	-0.26	0.03	663437.78	5659005.50	0.34	0.04
4	11:20:48	984	663428.16	5659028.41	663428.41	5659028.38	-0.25	0.03	663429.02	5659026.82	-0.86	1.59
5	11:21:18	985	663418.03	5659051.27	663418.14	5659051.22	-0.11	0.05	663416.70	5659052.73	1.33	-1.46
6	11:21:48	986	663409.79	5659074.04	663410.06	5659073.99	-0.27	0.05	663410.86	5659072.94	-1.06	1.10
7	11:22:18	987	663400.21	5659096.79	663400.39	5659096.69	-0.18	0.10	663399.50	5659095.67	0.71	1.12
8	11:22:48	988	663392.31	5659119.89	663392.56	5659119.85	-0.25	0.04	663393.69	5659119.66	-1.38	0.23
9	11:23:18	989	663383.32	5659142.67	663383.47	5659142.63	-0.15	0.04	663383.91	5659142.41	-0.59	0.27
10	11:23:48	990	663372.57	5659163.98	663372.78	5659163.91	-0.22	0.07	663372.92	5659163.93	-0.36	0.05
11	11:24:18	991	663359.81	5659184.91	663360.11	5659184.91	-0.30	0.00	663360.21	5659184.90	-0.41	0.01
12	11:24:48	992	663345.62	5659205.29	663345.80	5659205.31	-0.19	-0.02	663345.47	5659205.07	0.15	0.22
13	11:25:18	993	663329.38	5659222.78	663329.62	5659222.76	-0.24	0.03	663329.75	5659222.88	-0.37	-0.09
14	11:25:48	994	663315.38	5659241.52	663315.41	5659241.41	-0.03	0.11	663313.35	5659240.88	2.03	0.64
15	11:26:18	995	663306.70	5659262.89	663307.00	5659262.94	-0.30	-0.04	663306.20	5659265.26	0.50	-2.36
16	11:26:48	996	663291.43	5659279.69	663291.69	5659279.76	-0.26	-0.07	663298.22	5659288.62	~~-6.79~~	~~-8.93~~
17	11:27:18	997	663275.11	5659293.74	663275.27	5659293.70	-0.16	0.03	663290.23	5659311.99	~~-15.12~~	~~-18.25~~
18	11:27:48	998	663262.37	5659307.59	663262.59	5659307.61	-0.22	-0.02	663282.25	5659335.36	~~-19.88~~	~~-27.77~~
19	11:28:18	999	663248.86	5659322.77	663249.08	5659322.75	-0.22	0.02	663245.18	5659321.47	~~3.69~~	~~1.30~~
20	11:28:48	1000	663231.82	5659336.64	663232.02	5659336.63	-0.21	0.00	663233.22	5659331.37	~~-1.40~~	~~5.27~~
	Means						**-0.21**	**0.03**			**-0.04**	**0.17**
	Standard Deviations						**0.07**	**0.04**			**-0.48**	**-0.48**
					Mean Vector	**0.22 m at**		**276.74**	**Mean Vector**	**0.18 m at**		**346.00**

Signature

SURVEYOR/PARTY CHIEF

Approved by the Operations Manager, 29-3-2005.
Note: To ensure the latest version check the Online BMS.

APPENDIX G
JOB CONFIGURATION

MAERSK GUARDIAN - STARFIX.SEIS JOB CONFIGURATION

```
10/12/2005  00:00:01 UTC
*** FUGRO SURVEY STARFIX.SEIS ***

Header : Project Name                      :   Otway Gas Project
         Project Number                    :   P0339
         Project Description               :   Jacket and Topside Installation
         Project Location                  :   Otway Basin
         Client                            :   Technip Oceania Pty Ltd
         Client Representative             :   AP004057
         Client Reference Number           :   Jonathon Wilson
         Geophysical Contractor            :   Fugro
         Positioning Contractor            :   Fugro
         Positioning Processing Contractor:   Fugro
         Setup By                          :   PC,JR
         On                                :
         Time Source                       :   9 GPS Raw Data Trimble
         Time Offset                       :   11:00 (Using UTC)
         Vessel                            :   Guardian

Files Runline  :   C:\Fugro_Projects\P0339\Seis files\Runline\P0339_20051119.srn
      Centreline    :   (None)
      Database :   C:\Fugro_Projects\P0339\Seis files\Database\P0339_20051116.sdb
      CAD      :   C:\Fugro_Projects\P0339\Seis files\Dgn\cad_p0339_20051129.dgn
      Waypoint :   C:\Fugro_Projects\P0339\Seis files\Waypoint\P0339_20051209.swy

Logging: Directory     :   C:\Fugro_Projects\\P0339\NonSession\SEIS\

Fixing : Mode          :   Distance
         Start Mode    :   Manual
         Stop Mode     :   Auto Run-Out = 0.0m
         Fix Devices   :
           Auto-Fix    :   SEIS
           Manual      :   SEIS
           External    :   (None)
           Offset      :   (None)
           MOB         :   (None)
         Fix Interval  :    25.000m
         Reset at SOL  :   No
         Next Fix No.  :     8299
         Fix Increment :        1
         Start FFID    :     8299
         Start Man. Fix:       20
         Early Start   :       20s
         Logging Start :       10s

Datum 1: Datum         :  GDA94_Australia_ICSM-ITRF2005.50
         Spheroid      :  GRS80
         SemiMajor Axis:  6378137.000
         1/Flattening  :  298.2572221010
         Eccentricity^2:  0.006694380022901

         Projection    :  Transverse Mercator (UTM)
         Grid Name     :
         Lat. Origin   :    0d00'00.0000"N
         Lon. Origin   :  141d00'00.0000"E
         False East    :    500000.000m
         False North   :  10000000.000m
         Scale Factor  :  0.9996
         Convergence   :  Australia/New Zealand

Datum 2: Datum         :  WGS84
         Spheroid      :  WGS84
```

```
         SemiMajor Axis:  6378137.000
         1/Flattening  :  298.2572235630
         Eccentricity^2:  0.006694379990141

Datum2>1:Parameters    :  From WGS84 to GDA94_Australia_ICSM-ITRF2005.50
         DX            :    -0.0156m         RX            :     0.0145"
         DY            :    -0.0349m         RY            :     0.0131"
         DZ            :    -0.0513m         RZ            :     0.0150"
         D Scale       :     0.0050ppm       Rot Convention:  +RZ=-RLongitude

Sundry : Vertical Datum:
         Ell. Sep.     :     0.0000m
         Distances     :   Spheroidal
         Bearings      :   True
         Units         :  metres
         Conversion    :     1.0000000000

Main Vessel  :  Guardian
             :  C:\PROGRAM FILES\FUGRO\7.1\SHARED\DATA\VESSEL_SHAPES\GUARDIAN.SVS

Nav. 1 : System        :  MRDGPS    (In Use)
         Type          :  Lat - Long
         Priority      :     1
         Time-out      :     5.0s
         Offset Name   :  MRDGPS
         X Offset      :     2.86m
         Y Offset      :    55.34m
         Ant. Height   :     0.00m
Nav. 2 : System        :  Trimble
         Type          :  Lat - Long
         Priority      :     2
         Time-out      :     5.0s
         Offset Name   :  MRDGPS
         X Offset      :     2.86m
         Y Offset      :    55.34m
         Ant. Height   :     0.00m
Dead Reckoning: No   Timeout:  30.0s

Heading 1 : System        :  Manual    (In Use)
         Priority      :     1
         Time-out      :     3.0s
         Offset Name   :  CRP
         X Offset      :     0.00m
         Y Offset      :     0.00m
         Z Offset      :     0.00m
         Correction    :     0.00 Degrees

Pitch/Roll 1 : System      : TSS335    (In Use)
           Priority    :    1
           Time-out    :    3.0s
           Offset Name : CRP
           X Offset    :    0.00m
           Y Offset    :    0.00m
           Z Offset    :    0.00m
           Corr'n Pitch:    0.00 Degrees
           Corr'n Roll :    0.00 Degrees

Sounder 1: System      : EchoTrac.High    (In Use)
           Priority    :    1
           Time-out    :    5.0s
           Offset Name : CRP
           X Offset    :    0.00m
           Y Offset    :    0.00m
           Z Offset    :    0.00m
```

```
           Vel. Sound  : 1500.00m/s
Sounder 2: System      : EchoTrac.Low
           Priority    :    2
           Time-out    :    5.0s
           Offset Name : CRP
           X Offset    :    0.00m
           Y Offset    :    0.00m
           Z Offset    :    0.00m
           Vel. Sound  : 1500.00m/s

Fairlead:Name                       X         Y         Z
         SB                       11.10     78.10      0.00
         PB                      -11.10     78.10      0.00
         PS                      -45.00     20.00      0.00
         SS                       45.00     20.00      0.00


Secondary Vessel 1     :  Supporter
            :  C:\PROGRAM FILES\FUGRO\7.1\SHARED\DATA\VESSEL_SHAPES\SUPPORTER.SVS

Nav. 1 : System        :  SUPPORTER    (In Use)
         Type          :  Lat - Long
         Priority      :     1
         Time-out      :    15.0s
         Offset Name   :  CRP
         X Offset      :     0.00m
         Y Offset      :     0.00m
         Ant. Height   :     0.00m
Dead Reckoning: No   Timeout:  30.0s

Heading 1 : System        :  SUPPORTER    (In Use)
         Priority      :     1
         Time-out      :    15.0s
         Offset Name   :  CRP
         X Offset      :     0.00m
         Y Offset      :     0.00m
         Z Offset      :     0.00m
         Correction    :     0.00 Degrees

Offsets: Name                       X         Y         Z
         Stern                      0.00      0.00      0.00
         TrimbleDI                  0.00     71.05      0.00
         Mast                       0.00     60.85      0.00
         MRDGPS                     2.34     70.55      0.00

Secondary Vessel 2     :  LadyGerda
            :  C:\PROGRAM FILES\FUGRO\7.1\SHARED\DATA\VESSEL_SHAPES\LADYGERDA.SVS

Nav. 1 : System        :  LADYGERDA    (In Use)
         Type          :  Lat - Long
         Priority      :     1
         Time-out      :    15.0s
         Offset Name   :  CRP
         X Offset      :     0.00m
         Y Offset      :     0.00m
         Ant. Height   :     0.00m
Dead Reckoning: No   Timeout:  30.0s

Heading 1 : System        :  LADYGERDA    (In Use)
         Priority      :     1
         Time-out      :    15.0s
         Offset Name   :  CRP
         X Offset      :     0.00m
         Y Offset      :     0.00m
```

```
         Z Offset      :     0.00m
         Correction    :     0.00 Degrees

Secondary Vessel 3     :  RayJHope
             :  C:\PROGRAM FILES\FUGRO\7.1\SHARED\DATA\VESSEL_SHAPES\RAYJHOPE.SVS

Nav. 1 : System        :  RAYJHOPE    (In Use)
         Type          :  Lat - Long
         Priority      :     1
         Time-out      :     0.0s
         Offset Name   :  CRP
         X Offset      :     0.00m
         Y Offset      :     0.00m
         Ant. Height   :     0.00m
Dead Reckoning: No   Timeout:  30.0s

Heading 1 : System        :  RAYJHOPE    (In Use)
         Priority      :     1
         Time-out      :     0.0s
         Offset Name   :  CRP
         X Offset      :     0.00m
         Y Offset      :     0.00m
         Z Offset      :     0.00m
         Correction    :     0.00 Degrees

Offsets: Name                      X         Y         Z
         Stern                     0.00      0.00      0.00
         Mast                      0.00     52.75      0.00
         GPS                      -0.42     50.19      0.00

O/Ts   : Steered Point:  O/T 0
         Shot         :  O/T 8

O/T  0    PR CRP              Flt:    Pos Sys: Datum In-Use
O/T  1    PR HP_GGA.GGA Datum Flt:    Pos Sys: HP_GGA.GGA Datum
O/T  2    PR GSS_GGA.GGA Datu Flt:    Pos Sys: GSS_GGA.GGA Datum
O/T  3    PR PtS              Flt:    Frlead : PS
O/T  4    PR MRDGPS Datum     Flt:    Pos Sys: MRDGPS Datum
O/T  5    PR StS              Flt:    Frlead : SS
O/T  6    PR HP_GGA.GGA Anten Flt:    Pos Sys: HP_GGA.GGA Antenna
O/T  7    PR GSS_GGA.GGA Ante Flt:    Pos Sys: GSS_GGA.GGA Antenna
O/T  8    PR Supporter        Flt:    Pos Sys: Datum In-Use
O/T  9    PR MRDGPS           Flt:    Fxd Off: MRDGPS
O/T 10       LadyGerda        Flt:    Pos Sys: Datum In-Use
O/T 11       RayJHope         Flt:    Pos Sys: Datum In-Use

O/T Legend:   PR=Print LG=Log SN=Snap to line

Waypoint : JUR Design
Position :  39d14'14.4410"S 142d54'07.9381"E    0.0m
             664169.650mE  5655160.351mN        0.0m
Printing:
         Fix mark rate   :   1
         Weather Device  :   (None)
         Weather Interval:    60 minutes
         Weather Enabled :   No
         Config Changes  :   No
         System Timeouts :   No
         Concise Header  :   No

Software:Starfix Suite 7.1  (Service Pack 1)
         HF: Starfix Suite 7.1 400NMEAIn HF1
         HF: SuperIn HF2
         Seis       Ver 2.09.0006
```

```
SeisEngine Ver 2.09.0007
Display    Ver 2.15.0005
Anchors    Ver 3.03.0004
Print      Ver 2.04.0001
```

APPENDIX H
MISCELLANEOUS FIELD REPORTS

Field Report 3 **Revised Anchor and Pennant Buoy Positions** **Date: 20 Nov 2005**

During pre-load operations on board the jack-up rig *Maersk Guardian,* the *Maersk Supporter* was required to assist in the repositioning of some of the pre-laid anchor leg moorings. The anchor legs were to be reconfigured to ensure clear access for the jacket barge to the north west of the rig.

The following table summarises the revised deployment locations for the anchors, and for completeness includes anchor positions for those anchors whose position remained unchanged. Positioning was monitored remotely from the *Maersk Guardian* and the final position is an estimate based on pre-tension load and subsequent catenary calculations.

GDA94, CM 141° East			
Anchor (previous)	**Anchor (revised)**	**Easting**	**Northing**
1	1 (Wet Store)	666127	5655145
1A	P4	665291	5655722
2	P3	665136	5654784
3	3	664233	5654068
3A	P1	663611	5654041
4	4	663193	5654688

Updated buoy positions are summarised in the table below and include the anchor legs where the pennant buoy was moved, but not the anchor. Position fixes were taken at the stern of the *Maersk Supporter* as each buoy was released.

GDA94, CM 141° East		
Anchor Buoy	**Easting**	**Northing**
1 (Wet Store)	667043	5655204
P4	664749	5655329
P3	664640	5654625
3	664346	5654491
P1	663892	5654674
4	663721	5654784

The anchoring operations were completed between 14:00 on 19 November 2005 and 19:20 the following day. Anchor P3 remains in a temporary position and will be relocated to its correct position for the topside barge mooring at a later date.

.....

Paul Caswell
Fugro Survey Pty Ltd
Maersk Guardian

Field Report 4 Establishment of JUR Elevation Datum Date: 10 Dec 2005

Once the *Maersk Guardian* had completed pre-load operations and had established an air gap of 17.8m it was required to undertake GPS carrier phase measurements to determine an elevation relative to Lowest Astronomical Tide (LAT) that could subsequently be transferred to the installed jacket. The GPS carrier phase measurements were made on 21 November 2005 to a dual frequency ground plane antenna mounted on the navigation mast above the jacking control room.

The results of the carrier phase processing and the reduction from an ellipsoidal height to an elevation above LAT are summarised in the following table

GPS Antenna Elevation	
Datum	**Elevation (m)**
Ellipsoidal Height	48.99
Correction to Geoid	+3.24
Geoidal Height / MSL	52.23
Correction to LAT	+0.63
LAT	52.86

To maintain this height reference regardless of movements of the jack-up rig hull, it was necessary to transfer the established height datum from the hull to the jack-up legs. Tape measurements were made from the antenna to the deck and then a Wild NK2 Tilting Level was used to transfer the elevation to the top of a plate on a ladder on the bow leg. Measurements were also made to the main deck and a similar plate on the port leg. These measurements were completed on 30 November 2005. The elevations, relative to LAT, of the reference points on the two legs are summarised in the following table.

Reference Point	Elevation above LAT (m)
Bow Leg plate	37.987
Port Leg plate	33.305

As a gross check on the rig air gap a series of measurements were made from the main deck to the waterline. A correction for tide was applied using predicted values supplied by Woodside and this was compared against the value derived from the above elevation observations. The table below summarises the results of this check.

Air Gap From Tape Measurement		Air Gap from GPS Observations	
Main Deck to Water Line	27.56m	Main Deck above LAT (Mean)	27.77m
Depth of Hull	-9.5m	Depth of Hull	-9.5m
Tide Correction	0.2m		-
Computed Air Gap	18.26m	Computed Air Gap	18.27m

The computed air gap tabulated above is from LAT to the bottom of the rig hull. Predicted tides at Thylacine are generally in the range 0.2 to 1.1 m above LAT.

……

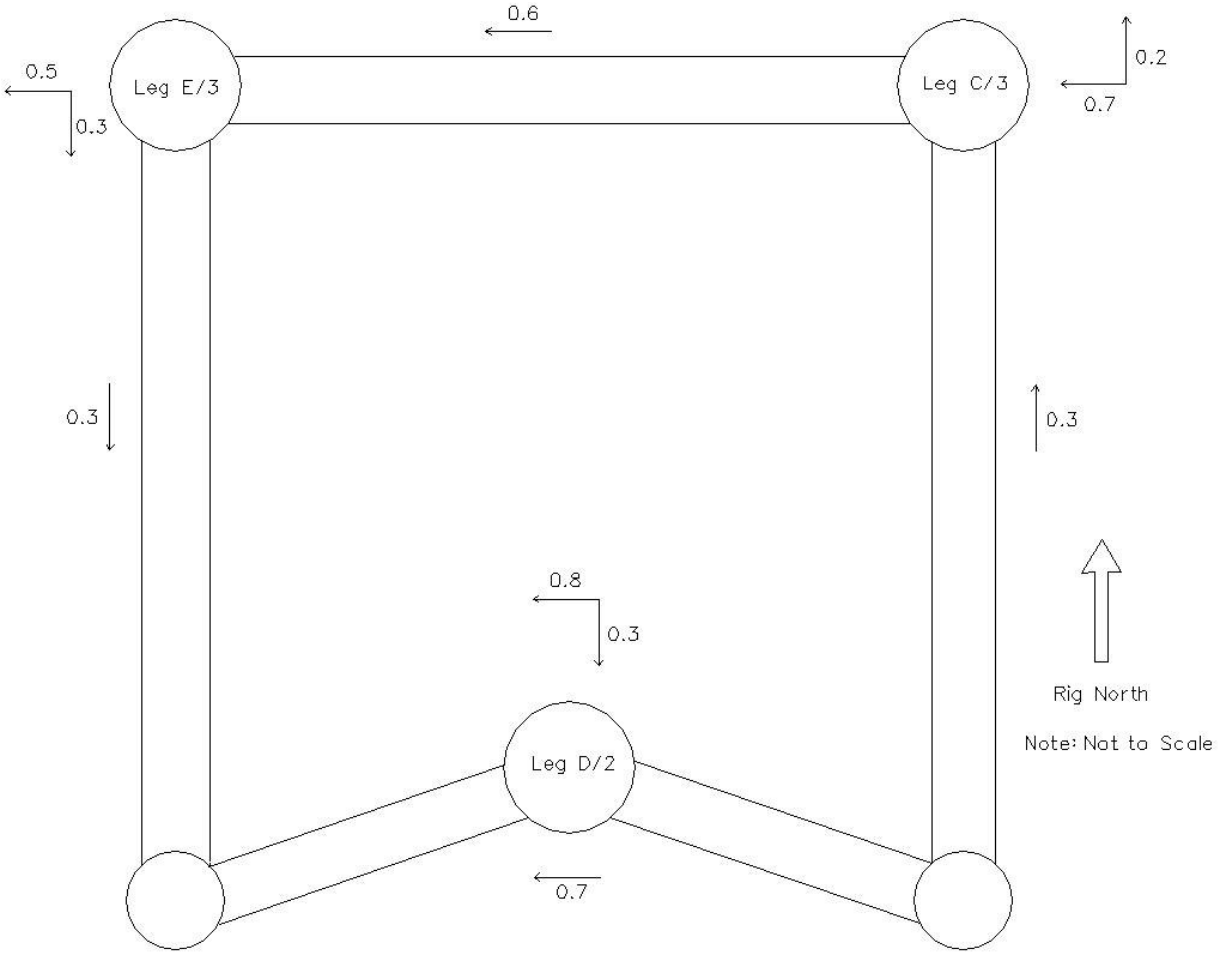
Paul Caswell
Fugro Survey Pty Ltd
Maersk Guardian

Field Report 5 Veritcal and Horizontal check of Jacket Date: 7 Jan 2006

Once the Jacket had been upended, manoeuvred into position and landed a verticality check was required before flooding of the legs and the start of piling could begin.

A digital builders level was used to check the verticality of the three tower legs. It was placed vertically against the legs in a bow-stern and port-starboard direction and a deviation from the vertical was recorded. The builders level was also placed horizontally on the elevation +17.0m bracing frame to determine how level the Jacket was sitting.

The results of the vertical and horizontal checks are summarised in the following figure



Note: Numbers are in decimals of degrees and arrows indicate direction of deviation from the vertical and horizontal.

Measurements were taken at 1415 on 7 January 2006 while the jacket was resting on the seabed before flooding of the legs and there was no weight on the lifting rigging, there was some movement of the jacket during the measurements.

……

Mick Elmslie
Fugro Survey Pty Ltd
Maersk Guardian

Field Report 6 Orientation and Offset check Date: 8 Jan 2006

Prior to the commencement of piling operations an orientation and offset check was conducted on the jacket.

A total station was set up on the starboard stern of the Maersk Guardian and a number of observations were taken to the centres of the tower legs and also to the top of the +18.5m elevation tower horizontal frame. The total station was then moved to the port stern of the rig and the observations were repeated to the same points on the jacket. From these observations orientation and offsets of the jacket datum from the rig centreline and from the transom were calculated.

The results of the orientation and offset checks are summarised in the following tables

Orientation (Grid Bearing)	
Jacket Heading	220.5°
JUR Stern Heading	219.1°
Difference	**1.4°**

Orientation was calculated from the bearing between the observed positions of tower legs E/3 and C/3.

From the observations to the three tower legs a coordinate for the datum of the jacket was able to be calculated.

Jacket Datum Coordinate (GDA94, MGA94, CM 141° E)	
Easting	664 160.56m
Northing	5 655 159.65m

Using this coordinate offsets from the rigs transom and centreline were calculated.

Jacket Datum Offsets	
Offset from Transom	-6.59m
Offset from rig centreline	-0.14m

Elevations relative to LAT were transferred to the stern stations from benchmarks established on the rigs legs via a Wild NK2 tilting level. These elevations were then transferred to the top of the +18.5m elevation tower horizontal frame using the total station. The observed elevations on the tower horizontal frame are summarised in the table below.

Elevations +18.5m elevation Tower Horizontal Frame (LAT)	
Starboard tubular	18.53m
Port tublular	18.57m

Observations were undertaken during a period of large swell and strong winds which may have effected the accuracy of the observations.

……

Mick Elmslie
Fugro Survey Pty Ltd
Maersk Guardian

Field Report 7 Topside Anchor and Pennant Buoy Positions Date: 12 Jan 2006

After the installation of the jacket, the *Maersk Supporter* was required to assist in the repositioning of the local pre-laid anchor leg moorings. The anchor legs were to be reconfigured for the positioning of the topside barge during the topside installation phase of the project.

The following table summarises the redeployment locations of the anchors. Positioning was monitored from the *Maersk Supporter* and the final position is an estimate based on pre-tension load of 80 Te and subsequent catenary calculations using client supplied software.

GDA94, CM 141° East			
Anchor(Previous)	**Anchor(Revised)**	**Easting**	**Northing**
3	P2	664566	5654188
P1	P1	663672	5654190
4	S1	663153	5654708
P4	P4	665184	5655665
1 (Wet Store)	S4	664618	5656172
P3	P3	665104	5654790

Updated buoy positions are summarised in the table below. Position fixes were taken at the stern of the *Maersk Supporter* on deployment of each buoy.

GDA94, CM 141° East		
Anchor Buoy	**Easting**	**Northing**
P2	664394	5654958
P1	663953	5654808
S1	663742	5654903
P4	664635	5655441
S4	664282	5655630
P3	664542	5655194

Anchoring operations were conducted between 09:30 on 10 January and 03:13 on 12 January 2006

……

Mick Elmslie
Fugro Survey Pty Ltd
Maersk Guardian

Field Report 8 Orientation and Offset Check Date 4rd February 2006

Part way through the piling operations a second orientation and offset check was conducted on the jacket.

A total station was set up on the starboard stern of the Maersk Guardian and a number of observations were taken to the centres of the tower legs and also to the top of the +18.5m elevation horizontal frame. The total station was then moved to the port stern of the rig and the observations were repeated to the same points on the jacket. From these observations orientation and offsets of the jacket datum from rig centreline and the transom were calculated.

The results of the orientation and offset checks are summarised in the following tables:

Orientation (Grid Bearing)	
Jacket Heading	219.71°
JUR Stern Heading	219.13°
Difference	0.58°

Orientation was calculated from the bearing between the observed positions of tower legs E/3 and C/3.

From the observations to the three tower legs a coordinate for the datum of the jacket was able to be calculated.

Jacket Datum Coordinate (GDA94, MGA94, CM 141° E)	
Easting	664161.39m
Northing	5655160.05m

Using this coordinate offsets from the rigs transom and centreline were calculated.

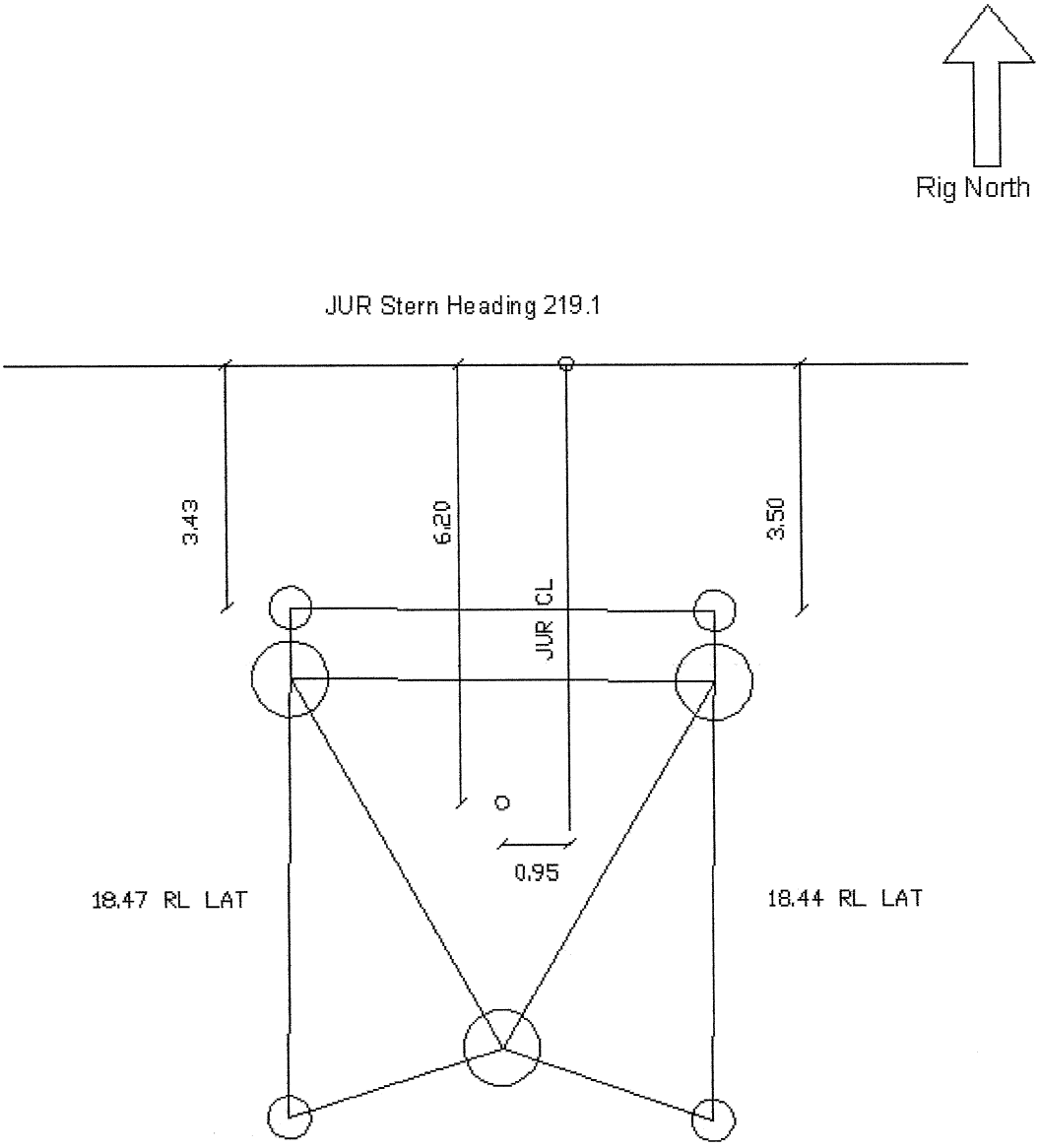
Jacket Datum Offsets	
Offset from Transom	-6.20m
Offset from Rig Centreline	-0.95m

Elevations relative to LAT were transferred to the stern survey stations from benchmarks established on the rigs legs via a Wild NK2 tilting level. These elevations were then transferred to the top of the +18.5m elevation tower horizontal frame using the total station. The observed elevations on the tower horizontal frame are summarised in the table below.

Elevations +18.5m elevation Tower Horizontal Frame (LAT)	
Starboard Tubular	18.44m
Port Tubular	18.47m

Observations were undertaken in reasonable conditions, although there was clearly visible movement of the jacket during the course of the observing period. The jacket was not secured in this instance by the lateral support frame and the JUR air gap had also been increased to 29.2m.

Stephen P Lumb
Registered Surveyor
Fugro BTW Ltd
Maersk Guardian



Platform Heading Grid 219.71

Note: All dimensions in metres
All heading information in terms of grid bearing.

Field Report 9 Mooring Installation S2 and S3 Date 4& 5th February 2006

Anchor handling operations were undertaken to install moorings S2 and S3 in accordance with client requirements. Both anchors were successfully set, although it took 3 attempts to install S3.
The following table details the computed as laid final positions for S2 and S3.
The final positions were calculated using the client supplied catenary calculation sheet and the computed bearing between the stern and the anchor drop position. This methodology was employed on the previous mooring installation in January.

Anchor	mE	mN
S2	663151.39	5655604.70
S3	663722.32	5656184.89

Stephen P Lumb
Registered Surveyor
Fugro BTW Ltd
Maersk Guardian

Field Report 10 As-Laid Anchor and Buoy Positions Date 6th February 2006

The following table identifies the Final as laid Anchor and Buoy positions along with the install period.

Install Period	Anchor	mE	mN	Buoy	mN	mN
4-5/02/06	S2	663151	5655605	S2	663831	5655291
4-5/02/06	S3	663722	5656185	S3	664116	5655644
10-12/01/06	P2	664566	5654188	P2	664394	5654958
10-12/01/06	P1	663672	5654190	P1	663953	5654808
10-12/01/06	S1	663153	5654708	S1	663742	5654903
10-12/01/06	P4	665184	5655665	P4	664635	5655441
10-12/01/06	S4	664618	5656172	S4	664282	5655630
10-12/01/06	P3	665104	5654790	P3	664542	5655194

Stephen P Lumb
Registered Surveyor
Fugro BTW Ltd
Maersk Guardian

Field Report 12 Relocated Buoy Positions S3, S4 and P1 Date 17th February 2006

The buoys were relocated to clear a 300m corridor through the anchor pattern for the Loralay pipelaying vessel. The following table details the relocated positions of the buoys.

Buoy	mE	mN
S3	664025	5655590
S4	664370	5655540
P1	663856	5654772

Stephen P Lumb
Registered Surveyor
Fugro BTW Ltd
Maersk Guardian