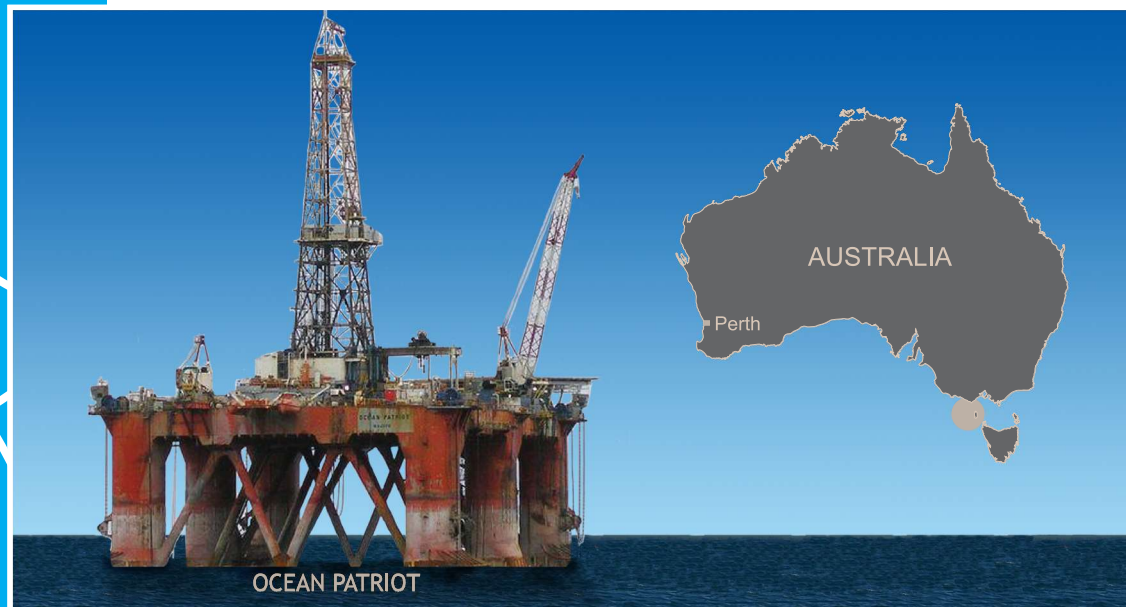




woodside

Somerset-1
Well Completion Report
Basic Data



T/34P
Otway Basin
June 2010



WELL COMPLETION REPORT

Somerset-1

Basic Data (T/34P, Otway Basin)


V. Sturrock, Operations Geology

Date: May 2010

Status: Published

Confidential

Somerset-1 Well Completion Report (Basic Data)

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Somerset-1 Well Completion Report (Basic Data)

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7. Mud Gas Isotopes – *Isotech Laboratories Inc*
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9. Wellsite Lithology Log - *WEL*
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1 INTRODUCTION

The Somerset-1 well is located in Exploration Permit T/34P of the Otway Basin, 17 km south west of the Thylacine development ([Figure 1](#)). The well was drilled by the Ocean Patriot semi-submersible drilling rig. Somerset-1 was designed as a vertical exploration well.

Water depth at the Somerset-1 location was 503 metres at lowest astronomical tide (LAT). The rotary table elevation was 21.5 metres. Depth measurements in this report are with reference to the rotary table relative to LAT and are indicated by mRT.

The Ocean Patriot arrived on location on 18 October 2009 and spudded the Somerset-1 well on the 19 October 2009. The well reached a depth of 2912 mRT on 27 October 2009. Well control issues forced the well to be abandoned at this point.

The well was plugged and abandoned and the rig was released from contract on 15 November 2009.

The total time spent on the Somerset-1 well was 28 days with an estimated final cost of A\$30.6MM.

Somerset-1 Well Completion Report (Basic Data)

Table 1: Well Data Sheet

Well:	Somerset-1
Permit:	T/34P, Otway Basin
Name and Address of Operator:	Woodside Energy Ltd. 240 St Georges Terrace PERTH WA 6000
Name and Address of Joint Venturers:	Woodside Energy Ltd. 240 St Georges Terrace PERTH WA 6000 Origin Energy Resources Ltd., Level 10, 135 Coronation Drive Milton QLD 4064 CalEnergy Gas (Australia) Ltd., Level 1, 89 St Georges Terrace Perth WA 6000 Benaris Exploration (Otway) Pty Ltd., Suite 23, 25 Claremont Street South Yarra VIC 3141
Final Well Co-ordinates:	Latitude: 39° 20' 36.757" S Longitude: 142° 44' 56.144" E Datum: GDA 94 MGA Zone 54 Central Meridian 141° (E) projection Easting: 650 712.4 mE Northing: 5 643 640.4 mN
Seismic Reference:	Aragorn 3D: Inline 1460, Crossline 5864
Drilling Rig:	Ocean Patriot Semi-submersible
Water Depth:	503 mLAT
Rotary Table:	21.5 m
Date Rig Contract Commenced:	00:00 hrs 15 October 2009
Rig on Location:	00:20 hrs 18 October 2009
Spud Date:	11:30 hrs 19 October 2009
Total Depth:	2912 mRT
Date Total Depth Reached:	21:30 hrs 27 October 2009
Date Rig Released:	10:30 hrs 15 November 2009
Well Status:	Plugged and Abandoned
Total Time on Location:	28 days
Estimated Final Cost:	A\$30.6 MM

LAT = MSL- 0.63

2 OPERATIONS SUMMARY

Somerset-1 was drilled using the Ocean Patriot semi-submersible rig which came on contract at 00:00 hours on 15 October 2009. After a two day tow the Ocean Patriot arrived at the Somerset-1 location and commenced anchoring and mooring operations ([Appendix 1](#), Rig Positioning Report).

Somerset-1 was spudded using a 914 mm (36") bit at 11:30 hours on 19 October 2009. The 914 mm hole was drilled from the seabed at 524.5 to 572.5 mRT. The 762 mm (30") casing was run and cemented with the shoe set at 569.4 mRT.

The 444 mm (17.5") hole was drilled from 572.5 to 1284.0 mRT. The spud mud comprised seawater with guar gum and pre-hydrated gel sweeps. The 340 mm (13.375") casing was then run and cemented with the shoe set at 1278.6 mRT.

The Blow Out Preventers (BOPs) were run on marine riser and landed on the wellhead. The 311 mm (12.25") Bottom Hole Assembly (BHA) was made up and run in hole. The casing volume was displaced to 1.3 sg Ultradrill water based mud whilst drilling out the shoe track. A Leak Off Test was conducted to 1.71 sg Equivalent Mud Weight after drilling 5 m of new formation.

The 311 mm hole was then drilled ahead, with Sodium thiocyanate tracer being added to the mud from 2400 mRT ([Appendix 2](#)). At 2912 mRT it was observed that the well was not taking the correct amount of fluid. The well was flow checked and a gain of 0.6 m³ (4 bbl) was observed in the trip tank over a period of 5 minutes. The well was shut in and the kick intensity resulted in the Shut In Casing Pressure equalling the Maximum Allowable Annulus Surface Pressure.

Well control procedures then commenced. The well was circulated to 1.5 sg mud. After this initial circulation the shut in pressures and a series of bleed backs indicated the well was not killed. The mud weight was raised to 1.585 sg and then 1.71 sg. After circulating the well to 1.71 sg mud, the BOPs were flushed and opened, the BHA was recovered to surface and the abandonment program commenced.

Four barite plugs were pumped, with the top plug being tagged at 2311 mRT. A series of cement plugs were then set above the barite plugs, across the shoe and at the surface. The depths of these plugs can be seen on the Somerset-1 well abandonment schematic in [Figure 2](#). The wear bushing and BOPs were then recovered to surface. The 340 mm casing was cut, and the wellhead, Permanent Guide Base and Temporary Guide Base were recovered to surface.

After recovering anchors and mooring lines, the rig was towed to Point Lonsdale and the Ocean Patriot was released from Somerset-1 operations at 10:30 hours on 15 November 2009. The days vs depth chart for the Somerset-1 well can be seen in [Figure 3](#).

The Daily Offshore Reports are contained in [Appendix 3](#), the FIT Report in [Appendix 4](#) and the Mud Properties Summary in [Appendix 5](#). Casing, cementing and plug details can be found in the Daily Offshore Reports. The Bit Record is contained in [Appendix 6](#).

3 FORMATION SAMPLING

3.1 Ditch Cuttings

Somerset-1 ditch cuttings were collected from 1284 mRT to 2878 mRT with intervals as detailed in Table 2. The sample from 2875-2878 mRT was underweight, while the samples from 2878 mRT to 2912mRT are missing due to well control operations.

The washed and air-dried samples were split into four sets of approximately 200g samples and one set of 30g samples, and placed in plastic sample bags. One set of cuttings samples was collected in "Samplex" trays.

Table 2: Sampling Intervals

Depth (mRT)	Sample interval	Sample Type
1284 -1290	6m	normal
1290 - 2810	10m	normal
2810 - 2875	5m	normal
2875 - 2878	3m	normal

All samples were despatched to Core Laboratories Australia Pty. Ltd., 447-779 Belmont Avenue, Kewdale, WA. for distribution ([Appendix 6](#), Mudlogging EOWR). Set 1 was despatched to Geoscience Australia, Symonston, ACT, and Set 2 to Mineral Resources Tasmania Core Library, 93 Mornington Rd, Mornington, Tasmania. The remaining sets were retained by Woodside and are located at Core Laboratories Australia Pty. Ltd., 447-449 Belmont Avenue, Kewdale, WA.

3.2 Sidewall Cores

No sidewall core samples were obtained in the Somerset-1 well.

3.3 Conventional Cores

No cores were cut in Somerset-1.

3.4 Mud Gas Samples

Forty Mud Gas Isotope Logging (MGIL) samples were collected from 1300 to 2910 mRT in Somerset-1. The samples were sent to Isotech Laboratories, Champaign, Illinois for analysis. The results of these analyses can be found in [Appendix 7](#). Note that operational factors appear to have affected the results of some of these analyses.

4 FORMATION EVALUATION

4.1 Mudlogging

Baker Hughes Inteq provided mudlogging services for the drilling of Somerset-1. This included conventional mudlogging, formation evaluation, real time data monitoring, pressure and drilling analyses. The Baker Hughes End of Well report, Drilling Data Plot, Formation Evaluation Log, Pressure Evaluation Plot and Gas Ratio Plot for Somerset-1 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 8](#)). Cuttings were described by the wellsite geologists from 1284 to 2878 mRT in Somerset-1 and were recorded on the Wellsite Lithology Log ([Appendix 9](#)).

4.3 Hydrocarbon Indications

Chromatographic breakdowns of the ditch gas, total gas and trip gas were recorded from 1060 to 2912 mRT in Somerset-1 ([Appendix 6](#), Mudlogging EOWR). Excluding trip and connection gas, maximum recorded ditch gas during drilling (prior to well control) was 2.62% at a depth of 2855 mRT, ranging from C1 to C5.

No hydrocarbon fluorescence was described in ditch cuttings samples.

4.4 Logging While Drilling (LWD)

Logging While Drilling (LWD) services were provided by Schlumberger. Table 3 lists the LWD runs that were carried out.

Table 3: LWD Runs

Hole Section	Run No.	Service	Depth Interval Main Log		Max Temp	Start date	End date
			From (mRT)	To (mRT)	Temp (DegC)		
445mm	1	Telescope (D&I)	572	1284	22.8	20 Oct 09	21 Oct 09
311mm	2	ARC, ADN, SonicVISION, Telescope (D&I)	1275	2912	63.0	25 Oct 09	2 Nov 09

Full details of the LWD operations are contained in Schlumberger's End of Well Report ([Appendix 10](#)).

4.5 Wireline Logging

No wireline log data was acquired in Somerset-1.

4.6 Velocity Survey

No VSP survey was obtained on the Somerset-1 well.

4.7 Biostratigraphy

No micropalaeontological analysis was performed on samples from the Somerset-1 well.

Palynological analysis was performed on cuttings samples from the Somerset-1 well, as detailed in Table 4 below.

Table 4: Palynology Samples

No. of samples	Type	Depth Interval (mRT)
32	Cuttings	1700-2880

The Basic Data Report is contained in [Appendix 11](#).

4.8 Geochemistry

Source rock screening, fluid inclusion studies and vitrinite reflectance studies were carried out on samples from the Somerset-1 well. Water based mud contamination of the cuttings appears to have affected the results of these analyses. The results of the source rock screening and fluid inclusion studies can be found in [Appendix 12](#). The vitrinite reflectance data will be available in the interpretive volume of this report.

4.9 Petrology

No petrological analyses have been performed on samples from the Somerset-1 well.

5 TESTING

5.1 Wireline Pressure Testing and Fluid Sampling

No wireline tools were run in the Somerset-1 well.

5.2 Production Testing

No production testing was performed on the Somerset-1 well.

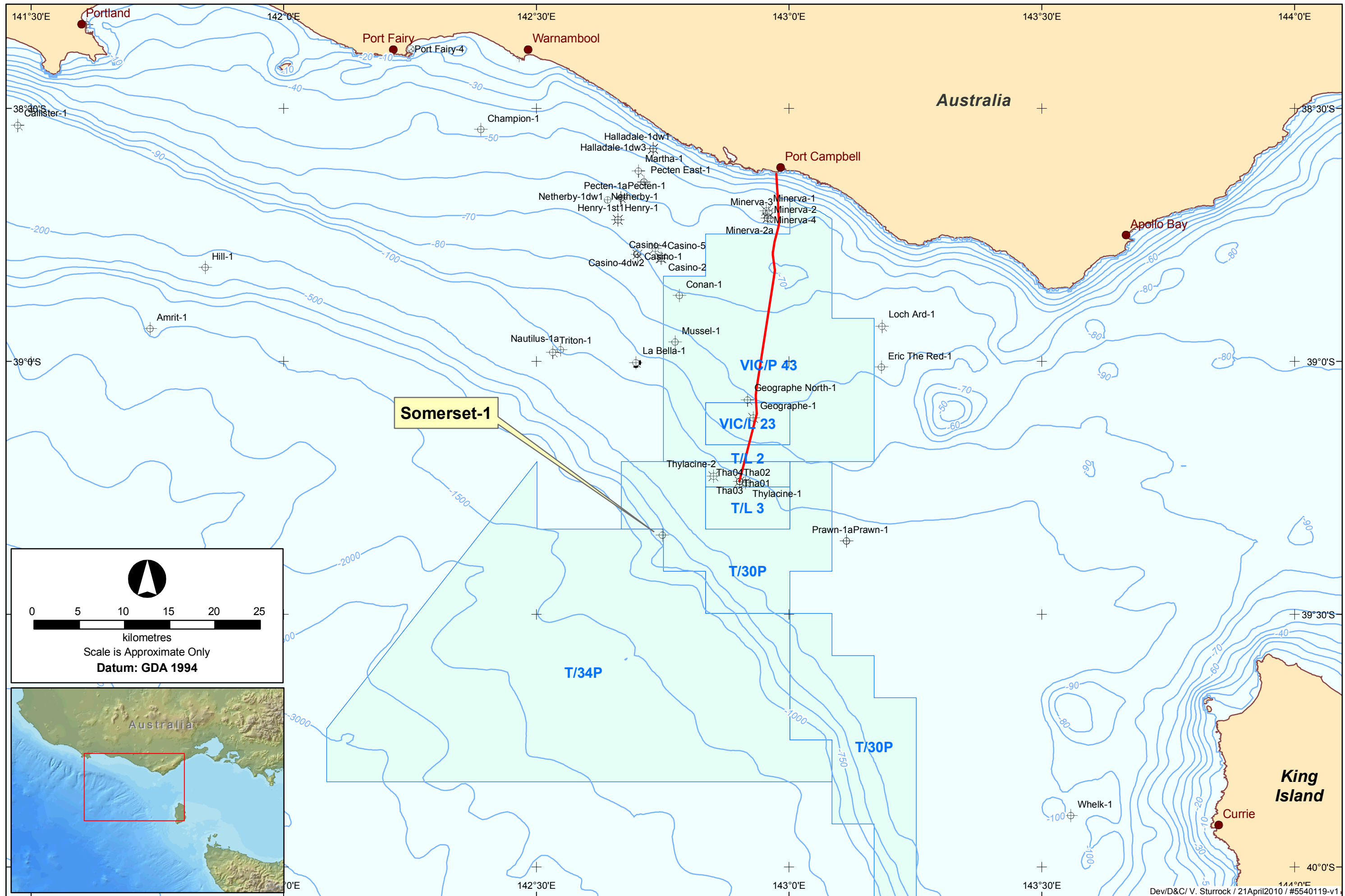


Figure 1: SOMERSET-1 LOCATION MAP (T/34P)

Figure 2

SOMERSET-1 AS BUILT ABANDONMENT SCHEMATIC

Well: Somerset-1
Permit: T/34P

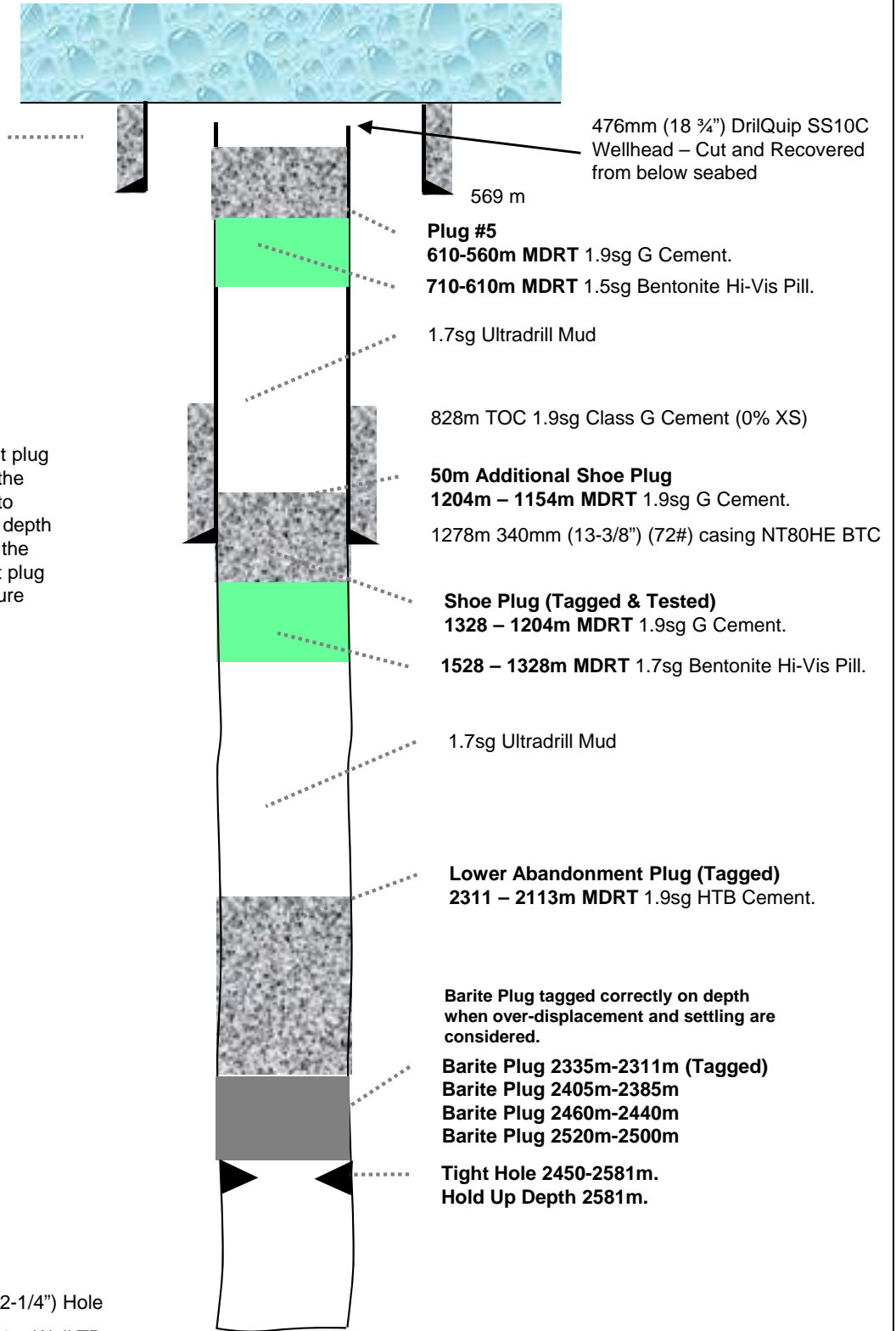
Prepared by: SOR
Date: Nov 2009

All Depths in mTVDRT unless noted

RKB Elev. 0m
Sea Level. 21.5m
Water Depth 503m LAT
Seabed 524.5m

762mm (30") Cement Job:
Class 'G' cement
1.90 S.G
200% excess
TOC (seabed)

Note that the base of the cement plug across the shoe is uncertain as the cement plug was bull-headed into place from above the shoe. The depth shown (1328m) is thought to be the most likely bottom of the cement plug based on the placement procedure



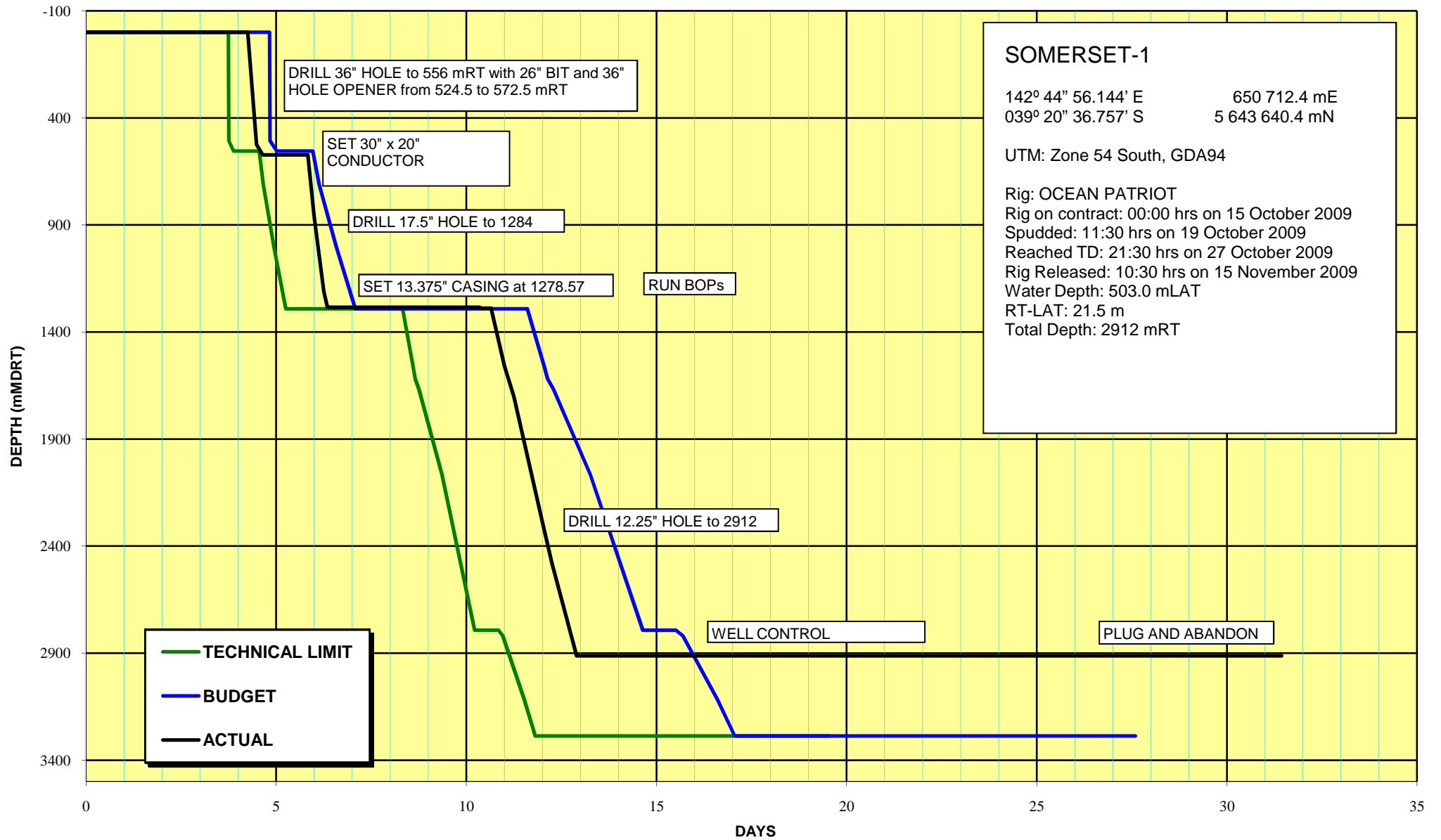
Barite Plug tagged correctly on depth when over-displacement and settling are considered.

Barite Plug 2335m-2311m (Tagged)
Barite Plug 2405m-2385m
Barite Plug 2460m-2440m
Barite Plug 2520m-2500m

Tight Hole 2450-2581m.
Hold Up Depth 2581m.

Figure 3

SOMERSET-1 Days vs Depth Chart



Well Location Memorandum



MEMORANDUM

TO : Stuart Douglas, Shannon O'Rourke, Greg Spillane, Ocean Patriot WSM;
Stephen Townsend, Eli Verges; Lesley Johnson

FROM : Greg Paten

c.c. :

DRIMS Ref : 5218899

DATE : 20th October 2009

SUBJECT : **Somerset - 1 Final Well Location**

With reference to the above subject, I confirm the final surface position of the MODU Ocean Patriot drill string at the Somerset-1 well is as follows:

Latitude : 39° 20' 36.757" S
Longitude : 142° 44' 56.144" E
Easting : 650 712.4 metres
Northing : 5 643 640.4 metres
Water Depth : 503.0 metres LAT
Rig Heading : 279.0° True

This position is 5.0 metres on a bearing of 61.8° (G) from the intended location.

The above coordinates are based on the GDA 94 Datum and Map Grid Australia (MGA) Zone 54, Central Meridian 141° (E)

Notes:

The final position was derived from surface DGPS observations, the seabed location will have an estimated accuracy of +/- 5 metres.

Rotary Table (RT) to Sea Level (SL) = 21.5 m (Air Gap)

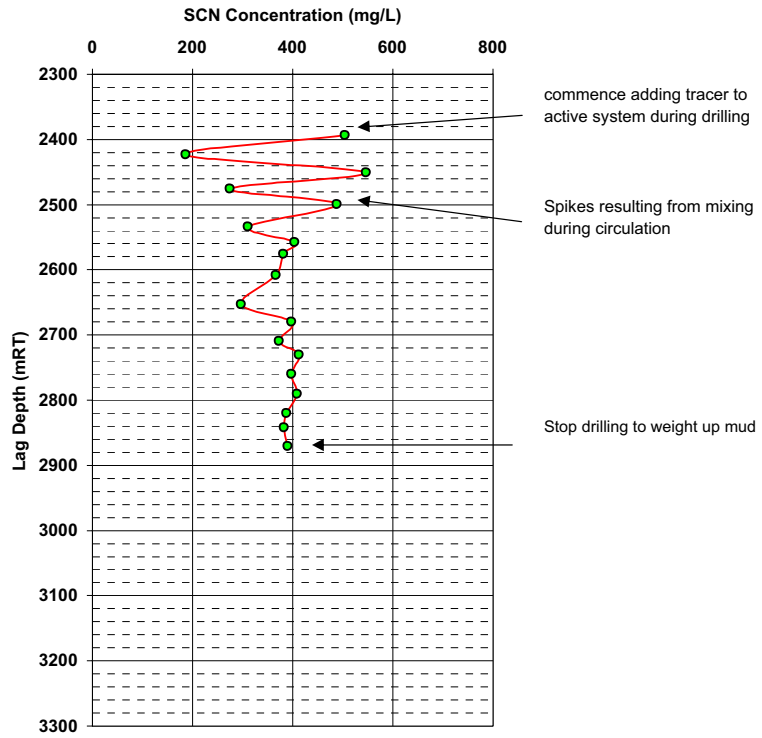
LAT = MSL - Z₀ Z₀ = 0.63 m


Greg Paten
Geomatics Manager

Sodium Thiocyanate Tracer Report

WOODSIDE ENERGY AUSTRALIA, SOMERSET-1

Drill To 3300mMDRT
 12 1/4 " Hole Section, Somerset-1
 Thiocyanate Concentration vs Lag Depth





WOODSIDE ENERGY AUSTRALIA, SOMERSET-1

**12 1/4 " Hole Section, Somerset-1
Thiocyanate Concentration Circulation Data**

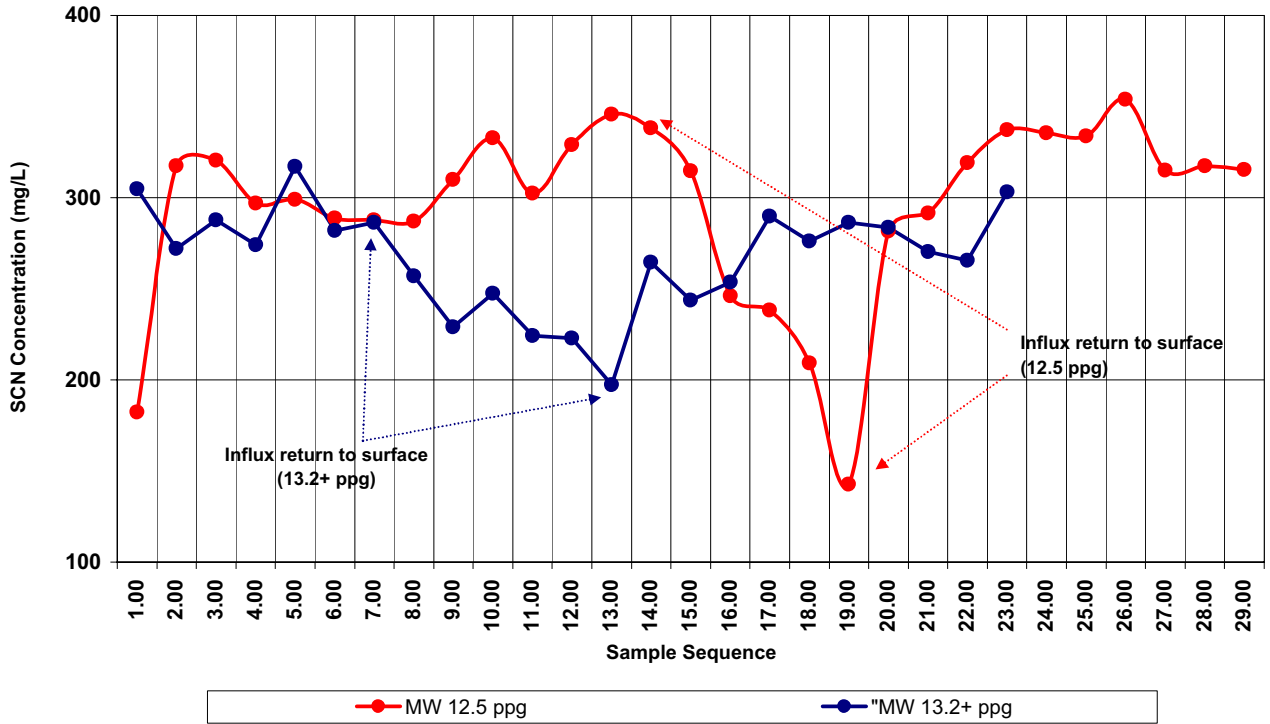
Client	Woodside Energy Australia
Well	Somerset-1
Proj. No.	57581

Date	Time	Bit Depth (mRT)	Sequence	Sample Location	NaSCN (SCN mg/L)	Comments
------	------	-----------------	----------	-----------------	------------------	----------

Returns (Well NaSCN Data)

28.10.09	22:15		1.0	Returns	182.1	Check, loss due to influx of 100 - 150bbls form water
	23:17		2.0	Active pit 3	317.4	Add 12Kg to active pit #3
29.10.09	12:35		3.0	Active pit 3	320.5	Check Concentration
	17:30		4.0	Returns	297.1	Monitor 12.5ppg circulation
	18:00		5.0	Returns	298.8	Monitor 12.5ppg circulation
	18:30		6.0	Returns	288.7	Monitor 12.5ppg circulation
	19:00		7.0	Returns	287.7	Monitor 12.5ppg circulation
	19:30		8.0	Returns	287.0	Monitor 12.5ppg circulation
	20:00		9.0	Returns	309.9	Monitor 12.5ppg circulation
	20:30		10.0	Returns	332.7	Monitor 12.5ppg circulation
	21:00		11.0	Returns	302.6	Monitor 12.5ppg circulation
	21:30		12.0	Returns	328.9	Monitor 12.5ppg circulation
	22:00		13.0	Returns	345.8	Monitor 12.5ppg circulation
	22:30		14.0	Returns	338.1	Monitor 12.5ppg circulation
	23:00		15.0	Returns	314.6	Monitor 12.5ppg circulation
	23:15		16.0	Returns	246.2	Monitor 12.5ppg circulation
	23:30		17.0	Returns	238.1	Monitor 12.5ppg circulation
	23:45		18.0	Returns	209.1	Monitor 12.5ppg circulation
	0:00		19.0	Returns	142.8	Monitor 12.5ppg circulation
	0:15		20.0	Returns	281.7	Monitor 12.5ppg circulation
	0:30		21.0	Returns	291.5	Monitor 12.5ppg circulation
	1:00		22.0	Returns	319.3	Monitor 12.5ppg circulation
	1:30		23.0	Returns	337.0	Monitor 12.5ppg circulation
	2:00		24.0	Returns	335.3	Monitor 12.5ppg circulation
	2:30		25.0	Returns	333.8	Monitor 12.5ppg circulation
	3:00		26.0	Returns	354.1	Monitor 12.5ppg circulation
	3:30		27.0	Returns	315.0	Monitor 12.5ppg circulation
	4:00		28.0	Returns	317.5	Monitor 12.5ppg circulation
	7:00		29.0	Returns	315.4	Monitor 12.5ppg circulation
31.10.09	10:30		1.0	Returns	304.9	Monitor 13.2+ppg circulation
	11:00		2.0	Returns	272.0	Monitor 13.2+ppg circulation
	11:30		3.0	Returns	287.7	Monitor 13.2+ppg circulation
	12:00		4.0	Returns	274.0	Monitor 13.2+ppg circulation
	12:30		5.0	Returns	316.9	Monitor 13.2+ppg circulation
	13:00		6.0	Returns	281.8	Monitor 13.2+ppg circulation
	13:30		7.0	Returns	286.5	Monitor 13.2+ppg circulation
	14:00		8.0	Returns	257.0	Monitor 13.2+ppg circulation
	14:20		9.0	Returns	228.9	Monitor 13.2+ppg circulation
	14:30		10.0	Returns	247.3	Monitor 13.2+ppg circulation
	14:40		11.0	Returns	224.2	Monitor 13.2+ppg circulation
	14:50		12.0	Returns	222.8	Monitor 13.2+ppg circulation
	15:00		13.0	Returns	197.4	Monitor 13.2+ppg circulation
	15:15		14.0	Returns	264.6	Monitor 13.2+ppg circulation
	15:30		15.0	Returns	243.7	Monitor 13.2+ppg circulation
	15:45		16.0	Returns	253.7	Monitor 13.2+ppg circulation
	16:00		17.0	Returns	289.6	Monitor 13.2+ppg circulation
16:15		18.0	Returns	276.0	Monitor 13.2+ppg circulation	
16:30		19.0	Returns	286.5	Monitor 13.2+ppg circulation	
17:00		20.0	Returns	283.7	Monitor 13.2+ppg circulation	
17:30		21.0	Returns	270.3	Monitor 13.2+ppg circulation	
18:00		22.0	Returns	265.6	Monitor 13.2+ppg circulation	
18:30		23.0	Returns	303.2	Monitor 13.2+ppg circulation	

12 1/4 " Hole Section, Somerset-1 Thiocyanate Concentration Circulation Logs



Daily Offshore Reports

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Dennis Gore**

Well Data						
Country	Australia	Total Planned Days	27.60	M. Depth	0.0m	Current Hole Size
Field	Otway Basin	Actual Days	1.00	TVD	0.0m	Casing OD
Rig Contractor	DOGC	Planned Days Completed	1	Progress	0.0m	Shoe TVD
Rig	OCEAN PATRIOT	Days +/- Curve	0			FIT/LOT /
Water Depth(LAT)	485.0m	Spud Date				Last BOP Test
RT-ASL(LAT)	21.5m	Operations @ 0600	On tow with Lewek Swift			
RT-ML	506.5m	Planned Op	Continue tow and preparations for Spud			

Cost Data	Daily Cost: \$2,123,262		
	AFE	Actual Cost to Date	EFC
Mob/Demob	\$ 5,900,000	\$ 1,990,558	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 132,704	\$ 18,400,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 2,123,262	\$ 23,900,000

Summary of Period 0000 to 2400 Hrs
Commenced Woodside contract. Waited on Lewek Swift. Commenced secondary anchor handling (pulled two anchors). WOW - currents too strong for vessel. Recommended anchor handling - last anchor bolstered at 20:45hrs. Lewek Swift commenced Ocean Patriot tow from Westernport Anchorage at 20:45hrs 15th Oct 2009.

Operations For Period 0000 Hrs to 2400 Hrs on 15 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (SBT)	RM	AH	0000	0200	2.00	0.0m	Commenced Woodside contract / operations at 00:00hrs Thursday 15th October 2009. Waited on Lewek Swift.
P	AR	AH	0200	0330	1.50	0.0m	#7 PCC passed to Lewek Swift. Lewek Swift chased out #7 anchor chain. Lewek Swift recovered #7 anchor. #7 anchor on bolster at 03:10. #7 PCC passed back to the rig.
P	RM	AH	0330	0430	1.00	0.0m	#6 PCC passed to Lewek Swift. Lewek Swift chased out #6 anchor chain. Lewek Swift recovered #6 anchor. #6 anchor on bolster at 04:05. #6 PCC passed back to the rig.
NPT (GWOW)	RM	AH	0430	0830	4.00	0.0m	Waited on weather (unable to work anchors / boat due to strong currents).
P	RM	AH	0830	0930	1.00	0.0m	#3 PCC passed to Lewek Swift. Lewek Swift chased out #3 anchor chain. Lewek Swift recovered #3 anchor. #3 anchor on bolster at 09:10. #3 PCC passed back to the rig.
P	RM	AH	0930	1015	0.75	0.0m	#2 PCC passed to Lewek Swift. Lewek Swift chased out #2 anchor chain. Lewek Swift recovered #2 anchor. #2 anchor on bolster at 10:00. #2 PCC passed back to the rig.
P	RM	AH	1015	1100	0.75	0.0m	Surveyors transferred to the Lewek Swift from the Ocean Patriot to install positioning equipment.
NPT (SBT)	RM	AH	1100	1200	1.00	0.0m	Waited on arrival of Lewek Emerald to commence recovery of primary anchors.
P	RM	AH	1200	1445	2.75	0.0m	Offloaded cargo from Lewek Emerald while Lewek Swift connected to Primary Tow Bridle. (Surveyors transferred to Lewek Emerald to install positioning equipment).
P	RM	AH	1445	1530	0.75	0.0m	#8 PCC passed to Lewek Emerald. Lewek Emerald chased out #8 anchor chain. Lewek Emerald recovered #8 anchor. #8 anchor on bolster at 15:15. #8 PCC passed back to the rig.
P	RM	AH	1530	1700	1.50	0.0m	#1 PCC passed to Lewek Emerald. Lewek Emerald chased out #1 anchor chain. Lewek Emerald recovered #1 anchor. #1 anchor required manipulation by vessel and crane to properly align same to bolster. Anchor on bolster at 17:00 and PCC recovered to rig.
P	RM	AH	1700	1845	1.75	0.0m	Survey personnel completed equipment setup on Lewek Emerald and returned to Ocean Patriot.
P	RM	AH	1845	1930	0.75	0.0m	#4 PCC passed to Lewek Emerald. Lewek Emerald chased out #4 anchor chain. Lewek Emerald recovered #4 anchor. #4 anchor on bolster at 19:15. #4 PCC passed back to the rig.
P	RM	AH	1930	2045	1.25	0.0m	#5 PCC passed to Lewek Emerald. Lewek Emerald chased out #5 anchor chain. Lewek Emerald pulled #5 anchor and assisted Lewek Swift in turning Ocean Patriot 180deg. #5 anchor on bolster at 20:45 and PCC passed back to the rig.
P	RM	RMS	2045	2400	3.25	0.0m	Ocean Patriot under tow by Lewek Swift from Westernport Anchorage through channel.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 16 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	RM	RMS	0000	0400	4.00	0.0m	Handover from Apache to Woodside occurred at agreed position of 1nm outside Westernport channel marker (fairway buoy). 0000 hrs position - Lat 38° 32' S. Long 145° 03' E, Course 240°, Total distance travelled - 9.5nm, General Average Speed - 4 knt, Distance to go -121.3 nm, ETA Somerset-1 location - 1000 hrs 17th Oct 09. 0400 hrs position - Lat 38° 37.1' S. Long 144° 49.6' E, Course 246°, Total distance travelled - 23.80nm, General Average Speed - 3.5 nm, Distance to go -107.0 nm, ETA Somerset-1 location - 1000 hrs 17th Oct 09.
P	RM	RMS	0400	0600	2.00	0.0m	(IN PROGRESS) 0800 hrs position - Lat 38° 42.3' S. Long 144° 34.3' E, Course 245°, Total distance travelled - 36.60nm, General Average Speed - 3.2 knt, Distance to go - 94.2 nm, ETA Somerset-1 location - 1000 hrs 17th Oct 09.
Total Duration					6		

Supply Vessel											
Boats		Status	Bulks			Boats		Status	Bulks		
Lewek Swift	On Tow Bridle		Item	Unit	Quantity	Lewek Emerald	Standby	Item	Unit	Quantity	
			Fuel	m3	638.9			Fuel	m3	652.7	
				ltrs.	0				ltrs.	16989	
			Pot Water	m3	478			Pot Water	m3	84	
			Drill Water	m3	95			Drill Water	m3	223	
			CEMENT G	mt	0			CEMENT G	mt	130	
			CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0	
			Barite	mt	200			Barite	mt	96	
			Bentonite	mt	116			Bentonite	mt	38	
			BRINE	bbls	1500			BRINE	bbls	1500	

Personnel On Board				Total : 89
Company		Pax	Company	
Diamond Offshore		48	MI Australia PTY LTD	
ESS		8	Schlumberger DD	
Woodside		8	Schlumberger MWD/LWD	
BHI		2	Scomi (KMC)	
BJ Tubulars		3	Subsea 7	
Dowell Schlumberger		2	OTHER	
Dril-Quip		1		

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	0	0	0	0	0	0	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	0	0	0	0	0	0	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	87	0	1
Well To Date	0	0	0	0	0	0	0	87	0	1
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	0	0	0	0	0	0	0	87	0	1
Year To Date	0	0	0	0	0	0	0	87	0	1
Comments/ Findings	Number Observe Cards 87 - STOP Cards: 87 (55 Safe, 32 Unsafe). Top Stop Card: Sailor block wire was extended and wrapped around handrail and choked upon itself. This has the potential to dangerous and unusable. Env Insp Check 1 - Engaged environmental roustabout and conducted 'E' Hazard Hunt and commenced recommendation of findings.									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
17	70.83	7	29.17					17	70.83	7	29.17					24

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Dennis Gore**

Well Data						
Country	Australia	Total Planned Days	27.60	M. Depth	0.0m	Current Hole Size
Field	Otway Basin	Actual Days	2.00	TVD	0.0m	Casing OD
Rig Contractor	DOGC	Planned Days Completed	1.79	Progress	0.0m	Shoe TVD
Rig	OCEAN PATRIOT	Days +/- Curve	+ 0.21 (Behind)			FIT/LOT /
Water Depth(LAT)	485.0m	Spud Date				Last BOP Test
RT-ASL(LAT)	21.5m	Operations @ 0600	Ocean Patriot on tow to Somerset-1 location. ETA 1100hrs 17th Oct 09.			
RT-ML	506.5m	Planned Op	Continue rig move to Somerset-1 location. Commence deploying anchors.			

Cost Data				Daily Cost: \$711,192
	AFE	Actual Cost to Date	EFC	
Mob/Demob	\$ 5,900,000	\$ 2,701,750	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 132,704	\$ 18,400,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 2,834,454	\$ 23,900,000	

Summary of Period 0000 to 2400 Hrs
 Ocean Patriot on tow by Lewek Swift to Somerset-1 location. Total distance travelled - 87.7nm, General Average Speed - 3.6 knt, Distance to go - 43.1 nm, ETA Somerset-1 location - 1145 hrs 17th Oct 09.

Operations For Period 0000 Hrs to 2400 Hrs on 16 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	RM	RMS	0000	0400	4.00	0.0m	Handover from Apache to Woodside occurred at agreed position of 1nm outside Westernport channel marker (fairway buoy). 0000 hrs position - Lat 38° 32' S. Long 145° 03' E, Course 240°, Total distance travelled - 9.5nm, General Average Speed - 4 knt, Distance to go -121.3 nm, ETA Somerset-1 location - 1000 hrs 17th Oct 09. 0400 hrs position - Lat 38° 37.1' S. Long 144° 49.6' E, Course 246°, Total distance travelled - 23.80nm, General Average Speed - 3.5 nm, Distance to go -107.0 nm, ETA Somerset-1 location - 1000 hrs 17th Oct 09.
P	RM	RMS	0400	0800	4.00	0.0m	0800 hrs position - Lat 38° 42.3' S. Long 144° 34.3' E, Course 245°, Total distance travelled - 36.60nm, General Average Speed - 3.2 knt, Distance to go - 94.2 nm, ETA Somerset-1 location - 1000 hrs 17th Oct 09.
P	RM	RMS	0800	1200	4.00	0.0m	1200 hrs position - Lat 38° 48.7' S. Long 144° 17.2' E, Course 242°, Total distance travelled - 51.6nm, General Average Speed - 4.0 knt, Distance to go - 79.2 nm, ETA Somerset-1 location - 1000 hrs 17th Oct 09.
P	RM	RMS	1200	1600	4.00	0.0m	Concurrent Operations: Held pre-spud meeting. 1600 hrs position - Lat 38° 54.1' S. Long 144° 00.0' E, Course 245°, Total distance travelled - 66.4nm, General Average Speed - 3.7 knt, Distance to go - 64.4 nm, ETA Somerset-1 location - 0930 hrs 17th Oct 09.
P	RM	RMS	1600	2000	4.00	0.0m	Concurrent Operations: Held pre-spud meeting with opposite shift. 2000 hrs position - Lat 38° 58.0' S. Long 143° 49.7' E, Course 245°, Total distance travelled - 75.6nm, General Average Speed - 2.9 knt, Distance to go - 55.2 nm, ETA Somerset-1 location - 1130hrs 17th Oct 09.
P	RM	RMS	2000	2400	4.00	0.0m	2400 hrs position - Lat 39° 02.95' S. Long 143° 34.8' E, Course 245°, Total distance travelled - 87.7nm, General Average Speed - 3.6 knt, Distance to go - 43.1 nm, ETA Somerset-1 location - 1145 hrs 17th Oct 09.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 17 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	RM	RMS	0000	0400	4.00	0.0m	0400 hrs position - Lat 39° 09.4' S. Long 143° 17.05' E, Course 245°, Total distance travelled - 103.80nm, General Average Speed - 3.8 knts, Distance to go - 27.0 nm, ETA

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	RM	RMS	0400	0600	2.00	0.0m	Somerset-1 location - 1100 hrs 17th Oct 09. (IN PROGRESS) 0600 hrs position - Lat 39° 11.7' S. Long 143° 08.7' E, Course 245°, Total distance travelled - 110.80nm, General Average Speed - 3.5 knts, Distance to go - 20.0 nm, ETA Somerset-1 location - 1140 hrs 17th Oct 09. General Sea State: 3m, conditions improving, wind 25knts SSW. 0800 hrs position - Lat 39° 14.5' S. Long 143° 01.6' E, Course 245°, Total distance travelled - 117.00nm, General Average Speed - 3.5 knts, Distance to go - 13.8 nm, ETA Somerset-1 location - 1200 hrs 17th Oct 09.
Total Duration					6		

Bulk Stock

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	Sacks	0	0	0.0	Drill Water	M3	0	30	270.0
Fuel	M3	0	5.1	311.3	Barite	MT	0	0	0.0
Pot Water	M3	29	31	210.0	Bentonite	MT	0	0	0.0
Fresh water	M3	0	0	0.0					

Supply Vessel

Boats		Status	Bulks			Boats		Status	Bulks		
Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity
Lewek Swift	On Tow	Bridle	Fuel	m3	609	Lewek Emerald	Standby	Fuel	m3	643.7	
			Pot Water	m3	474			Pot Water	m3	78	
			Drill Water	m3	95			Drill Water	m3	223	
			CEMENT G	mt	0			CEMENT G	mt	130	
			CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0	
			Barite	mt	200			Barite	mt	96	
			Bentonite	mt	116			Bentonite	mt	38	
			BRINE	bbls	1500			BRINE	bbls	1500	

Personnel On Board
Total : 89

Company	Pax	Company	Pax
Diamond Offshore	48	MI Australia PTY LTD	2
ESS	8	Schlumberger DD	2
Woodside	8	Schlumberger MWD/LWD	2
BHI	2	Scomi (KMC)	2
BJ Tubulars	3	Subsea 7	6
Dowell Schlumberger	2	OTHER	3
Dril-Quip	1		

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	1	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	0	0	0	0
Month To Date	0	0	0	0	0	1	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	0	0	0	0
Comments/ Findings	FAC: IP woke up feeling back pain. IP given non prescription medication and cream for back pain.											

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	1	0	0	0	0	0	0	115	0	0
Well To Date	1	0	0	0	0	0	0	202	0	1
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	1	0	0	0	0	0	0	202	0	1
Year To Date	1	0	0	0	0	0	0	202	0	1
Comments/ Findings	GSR Comp Checks 1 - Working at Heights - Good safe assessment (with correct inspected equipment) for lifting BOP test cap onto BOP. Number Observe Cards 115 - Safe/Unsafe: 72/43 (DODI - 62, ESS - 12, TPC - 32, WEL - 9)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 16 Oct 2009	
Operational Comments	CAR: 40/143 items closed (11 critical) 2 x DODI Supervisor Audits Conducted tutorial with full drill crew on Dril-Quip PGB-HAC system. Tested and confirmed pressure integrity of HAC. OK + PGB OK One S76 helo scheduled for tomorrow (9 on/4 off).

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
24	100							41	85.42	7	14.58					48

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Dennis Gore**

Well Data						
Country	Australia	Total Planned Days	27.60	M. Depth	0.0m	Current Hole Size
Field	Otway Basin	Actual Days	3.00	TVD	0.0m	Casing OD
Rig Contractor	DOGC	Planned Days Completed	3.2	Progress	0.0m	Shoe TVD
Rig	OCEAN PATRIOT	Days +/- Curve	-0.2 (Ahead)			FIT/LOT /
Water Depth(LAT)	485.0m	Spud Date				Last BOP Test
RT-ASL(LAT)	21.5m	Operations @ 0600	Deploying secondary anchors with Lewek Emerald.			
RT-ML	506.5m	Planned Op	Complete deployment of secondary anchors. Pretension anchors. Ballast down. Conduct shallow gas meeting. Make up 17.5" and 36" BHAs, cement stand, 30" RT std. RIH with 36" assembly and TGB to spud in.			

Cost Data				Daily Cost: \$827,229
	AFE	Actual Cost to Date	EFC	
Mob/Demob	\$ 5,900,000	\$ 3,132,599	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 529,084	\$ 18,400,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 3,661,683	\$ 23,900,000	

Summary of Period 0000 to 2400 Hrs
 Completed rig tow from Westernport anchorage to Somerset-1 location. Deployed three anchors with Lewek Emerald.

Operations For Period 0000 Hrs to 2400 Hrs on 17 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	RM	RMS	0000	0400	4.00	0.0m	0400 hrs position - Lat 39° 09.4' S. Long 143° 17.05' E, Course 245°, Total distance travelled - 103.80nm, General Average Speed - 3.8 knts, Distance to go - 27.0 nm, ETA Somerset-1 location - 1100 hrs 17th Oct 09.
P	RM	RMS	0400	0800	4.00	0.0m	0600 hrs position - Lat 39° 11.7' S. Long 143° 08.7' E, Course 245°, Total distance travelled - 110.80nm, General Average Speed - 3.5 knts, Distance to go - 20.0 nm, ETA Somerset-1 location - 1140 hrs 17th Oct 09. General Sea State: 3m, conditions improving, wind 25knts SSW.
							0800 hrs position - Lat 39° 14.5' S. Long 143° 01.6' E, Course 245°, Total distance travelled - 117.00nm, General Average Speed - 3.5 knts, Distance to go - 13.8 nm, ETA Somerset-1 location - 1200 hrs 17th Oct 09.
P	RM	RMS	0800	1230	4.50	0.0m	Continued rig tow to Somerset-1 location. (Align rig and run in as per plan)
P	A	AH	1230	2400	11.50	0.0m	Commenced anchor handling at Somerset-1 location. 12:44 #4 PCC passed to Emerald 15:21 #4 Anchor on bottom 16:29 #4 PCC passed back to rig 16:40 #8 PCC passed to Emerald 18:10 #8 Anchor on bottom 19:18 #8 PCC passed back to rig 19:31 #5 PCC passed to Emerald 21:10 #5 Anchor on bottom 22:28 #5 PCC passed back to rig 22:48 #1 PCC passed to Emerald
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 18 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	A	AH	0000	0230	2.50	0.0m	Continued to deploy primary anchors. 00:20 #1 Anchor on bottom

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	A	AH	0230	0600	3.50	0.0m	00:45 Rig requested Lewek Swift to release from tow bridle 01:58 Lewek Swift passed tow bridle back to rig 02:12 #1 PCC passed back to rig (IN PROGRESS) Commenced deployment of secondary anchors. 02:33 #6 PCC passed to Lewek Emerald 02:58 #2 PCC passed to Lewek Swift 04:22 #6 Anchor on bottom 04:53 #2 Anchor on bottom 05:28: #6 PCC passed back to rig 05:40 #7 PCC passed to Lewek Emerald 05:57 #2 PCC passed back to rig 06:09 #3 PCC passed to Lewek Swift 08:03 #7 Anchor on bottom 08:15 #3 Anchor on bottom 08:55 #7 PCC passed back to rig 09:04 #3 PCC passed back to rig 09:12 #2 PCC passed to Lewek Swift to reset slipping anchor 09:21 Commenced deballasting rig 10:44 #2 Anchor on Lewek Swift deck. Manipulated anchor on roller in an attempt to orientate same.
Total Duration					6		

WBM Data					
Mud Type:	API FL:	Cl:	Solids(%vol):	Viscosity	
Sample-From:	Filter-Cake:	K+C*1000:	H2O:	PV	
Time:	HTHP-FL:	Hard/Ca:	Oil(%):	YP	
Weight:	HTHP-cake:	MBT:	Sand:	Gels 10s	
Temp:	Glycol:	PM:	pH:	Gels 10m	
		PF:	PHPA:	Fann 003	
Comment	Made preparations for spudding well. TGB filled with 10 MT of sacked barite. 2 x MI Mud Engineers arrived on rig 15 October prior to tow from Westernport Bay. Shakers dressed with used screens (API 20 x API 70 / 80 mesh). NPT (Fluid related) : 0 Section Cost : \$ 10,145.32			Fann 006	
				Fann 100	
				Fann 200	
				Fann 300	
				Fann 600	

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	Sacks	0	0	0.0	Drill Water	M3	0	5	265.0
Fuel	M3	0	6	305.3	Barite	MT	0	0	0.0
Pot Water	M3	21	24	207.0	Bentonite	MT	0	0	0.0
Fresh water	M3	0	0	0.0					

Supply Vessel															
Boats		Status			Bulks			Boats		Status			Bulks		
Lewek Swift	On Tow Bridle	Item	Unit	Quantity	Lewek Emerald	Anchor Handling	Item	Unit	Quantity						
		Fuel	m3	580.9			Fuel	m3	625.7						
			ltrs.	0				ltrs.	16989						
		Pot Water	m3	470			Pot Water	m3	72						
		Drill Water	m3	95			Drill Water	m3	223						
		CEMENT G	mt	0			CEMENT G	mt	130						
		CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0						
		Barite	mt	200			Barite	mt	96						
		Bentonite	mt	116			Bentonite	mt	38						
		BRINE	bbls	1500			BRINE	bbls	1500						

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	11.30 / 12.26	9 / 4	S76 Helo

Personnel On Board				Total : 96
Company	Pax	Company	Pax	
Diamond Offshore	51	MI Australia PTY LTD	2	
ESS	8	Schlumberger DD	2	
Woodside	8	Schlumberger MWD/LWD	2	
BHI	6	Scomi (KMC)	2	
BJ Tubulars	3	Subsea 7	6	
Dowell Schlumberger	2	OTHER	3	
Dril-Quip	1			

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	0	0	0	0
Month To Date	0	0	0	0	0	1	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	0	0	0	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	1	1	0	0	0	109	0	0
Well To Date	1	0	1	1	0	0	0	311	0	1
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	1	0	1	1	0	0	0	311	0	1
Year To Date	1	0	1	1	0	0	0	311	0	1
Comments/ Findings	PTW Audit 1 - Permit for high pressure testing between cement unit and drill floor filled out correctly with all the required documentation attached. Area Inspection 1 - Area inspection on laundry found MSDS compliance not 100%, eyewash station unsatisfactory. Unsatisfactory housekeeping. Number Observe Cards 109 - Safe / Unsafe: 77/32. (DODI - 48; ESS - 22; TPC - 27; WEL - 12)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 17 Oct 2009	
Operational Comments	Held tuition session with rig crew - explained operation and loading process for Deep Sea Express cement head. Explained purpose and engineering design of cement wiper plugs. CAR: 40/143 items closed (11 critical) Top Stop Card: Identified sharp piece of metal sticking out of bin, removed it and placed in metal pile. Trends over the past few days appeared to be non use of handrails when using stairways and obstructions. DODI Supervisor audits conducted: 2 Woodside Intervention: 1

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
24	100							65	90.28	7	9.72					72

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Dennis Gore**

Well Data						
Country	Australia	Total Planned Days	27.60	M. Depth	0.0m	Current Hole Size
Field	Otway Basin	Actual Days	4.00	TVD	0.0m	Casing OD
Rig Contractor	DOGC	Planned Days Completed	4.6	Progress	0.0m	Shoe TVD
Rig	OCEAN PATRIOT	Days +/- Curve	-0.6 (Ahead)			FIT/LOT /
Water Depth(LAT)	485.0m	Spud Date				Last BOP Test
RT-ASL(LAT)	21.5m	Operations @ 0600	Running in with TGB on 914mm (36") BHA.			
RT-ML	506.5m	Planned Op	Make up 914mm (36") spud in assembly with TGB. Prepare spud mud. Drill 914mm (36") top hole and displace to mud. POOH to run 762mm (30") casing.			

Cost Data	Daily Cost: \$736,179		
	AFE	Actual Cost to Date	EFC
Mob/Demob	\$ 5,900,000	\$ 3,132,599	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 1,265,263	\$ 18,400,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 4,397,862	\$ 23,900,000

Summary of Period 0000 to 2400 Hrs
 Completed running anchors and cross tensioned same. Made up 445mm (17.5") BHA. Made up and racked back 5 stands HWDP and 17 stands of 127mm (5") DP.

Operations For Period 0000 Hrs to 2400 Hrs on 18 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	A	AH	0000	0230	2.50	0.0m	Continued to deploy primary anchors. 00:20 #1 Anchor on bottom 00:45 Rig requested Lewek Swift to release from tow bridle 01:58 Lewek Swift passed tow bridle back to rig 02:12 #1 PCC passed back to rig
P	A	AH	0230	1100	8.50	0.0m	Commenced deployment of secondary anchors. 02:33 #6 PCC passed to Lewek Emerald 02:58 #2 PCC passed to Lewek Swift 04:22 #6 Anchor on bottom 04:53 #2 Anchor on bottom 05:28: #6 PCC passed back to rig 05:40 #7 PCC passed to Lewek Emerald 05:57 #2 PCC passed back to rig 06:09 #3 PCC passed to Lewek Swift 08:03 #7 Anchor on bottom 08:15 #3 Anchor on bottom 08:55 #7 PCC passed back to rig 09:04 #3 PCC passed back to rig 09:12 #2 PCC passed to Lewek Swift to reset slipping anchor 09:21 Commenced deballasting rig 10:44 #2 Anchor on Lewek Swift deck. Manipulated anchor on roller in an attempt to orientate same.
NPT (SSAN)	A	AH	1100	1600	5.00	0.0m	Stopped deballasting rig. 15:03 #2 Anchor on bottom.
P	A	AH	1600	1630	0.50	0.0m	Concurrent operations: conducted communications check. Rig recommenced ballasting down from 12.3m to drilling draft of 23.5m 16:02 #2 PCC passed back to rig

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	CH	PUB	1630	1730	1.00	0.0m	Cross tensioned anchors to 200t. Picked up 445mm (17.5") assembly motor and and made up to BHA.
P	CH	JBA	1730	1830	1.00	0.0m	Drill floor operations suspended while rig ballasted down through "transition zone".
P	CH	PUB	1830	2000	1.50	0.0m	Adjusted mud motor to 0.78 deg. Picked up Power Pulse and racked stand in derrick. (Rig at operational draft of 23.5m at 19:50)
P	CH	PUB	2000	2300	3.00	0.0m	Held JSA and picked up 39jts of 127mm (5") DP and racked backed in derrick. (All jts drifted to 67mm (2.625")).
P	CH	PUB	2300	2400	1.00	0.0m	Concurrent operations: Lewek Swift connected up hoses for transfer of GEL. Jumped ROV and performed site survey. Seabed flat but inclined, no current, fair visibility. Hard seabed. Laid out mouse hole. Changed elevators and prepared to make up 914mm (36") BHA. Concurrent operations: Sourcing gel blockage between Ocean Patriot and Lewek Swift.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 19 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	CH	PUB	0000	0200	2.00	0.0m	Made up 660mm (26") bit, 914mm (36") hole opener, float sub with solid float and 3 joints of 241mm (9.5") DCs.
P	CH	PUB	0200	0400	2.00	0.0m	Held JSA in moonpool with drill crew. Skidded TGB to moonpool. Aligned bit to support dogs on TGB. Installed guide lines onto TGB.
P	CH	TI	0400	0600	2.00	0.0m	Picked up TGB, skidded moonpool cart clear and ran TGB through splash zone. RIH TGB in to 262m.
Total Duration					6		

WBM Data

Mud Type:	API FL:	Cl:	Solids(%vol):	Viscosity	120sec/L
Sample-From: Pit-2	Filter-Cake:	K+C*1000:	H2O:	PV	
Time: 23:00hrs	HTHP-FL:	Hard/Ca:	Oil(%):	YP	
Weight:	HTHP-cake:	MBT:	Sand:	Gels 10s	
Temp:	Glycol:	PM:	pH:	Gels 10m	
		PF:	PHPA:	Fann 003	
Comment	Commenced filling pits with drillwater for mixing PHG mud. in pits 4 and 5. Built high vis Guar Gum with seawater in pits 2 and 3 while attempting to ship bentonite from the Lewek Swift. (Numerous shipping difficulties while shipping bulk product). NPT(fluid related)=0			Fann 006	
				Fann 100	
				Fann 200	
				Fann 300	
				Fann 600	

Bulk Stock

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	0.0	Drill Water	M3	200	131	334.0
Fuel	M3	0	7	298.3	Barite	MT	0	0	0.0
Pot Water	M3	19	22	204.0	Bentonite	MT	0	0	0.0
Fresh water	M3	0	0	0.0					

Supply Vessel

Boats		Status	Bulks			Boats		Status	Bulks		
Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity
Lewek Swift	On Standby	Fuel	m3	580.9	Lewek Emerald	On Standby	Fuel	m3	607.7		
			ltrs.	0				ltrs.	16989		
		Pot Water	m3	266			Pot Water	m3	66		
		Drill Water	m3	95			Drill Water	m3	223		
		CEMENT G	mt	0			CEMENT G	mt	130		
		CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0		
		Barite	mt	200			Barite	mt	96		
		Bentonite	mt	116			Bentonite	mt	38		
BRINE	bbbls	1500	BRINE	bbbls	1500						

Personnel On Board			Total : 94
Company	Pax	Company	Pax
Diamond Offshore	51	Dril-Quip	1
ESS	8	MI Australia PTY LTD	2
Woodside	8	Schlumberger DD	2
BHI	6	Schlumberger MWD/LWD	2
BJ Tubulars	3	Subsea 7	6
Dowell Schlumberger	2	OTHER	3

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	0	0	0	0
Month To Date	0	0	0	0	0	1	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	0	0	0	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	1	0	1	1	0	0	0	108	1	0
Well To Date	2	0	2	2	0	0	0	419	1	1
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	2	0	2	2	0	0	0	419	1	1
Year To Date	2	0	2	2	0	0	0	419	1	1
Comments/ Findings	GSR Comp Checks 1 - GSR check done on electrical isolation to repair faulty lights in elevator shaft. 100% compliant, electrician very helpful in professional in assisting with the audit. PTW Audit 1 - PTW Audit conducted on permit to repair faulty lighting in elevator shaft. 100% compliant. Area Inspection 1 - Welder's Shop - Require a hazardous area sign outside area, no MSDS records, need to confirm portable eyewash station available, average housekeeping. Number Observe Cards 108 - (DODI - 48; ESS - 20; TPC - 30; WEL - 10) ER Exercises 1 - Communications Check carried out. Change required to Woodside Communication Centre (WCC) sat ph. Number is #0011 870 762 482 785.									

Leading Indicators										
	H&S INC/NM	Env NM								
24hr	0	0								
Well To Date	0	0								
Month To Date	0	0								
Year To Date	0	0								
Comments / Findings										

General Comments	
00:00 to 24:00 Hrs on 18 Oct 2009	
Operational Comments	CAR: 42/143 items closed (11 critical) Top Stop Cards: #1 - Prior to starting job, inspected equipment and found grinding disc cracked. Removed and discarded. Checked all others before continuing job. #2 - Observed some thick chain laying on the pipe deck that could have caused a rolled ankle. Stopped and moved the chain to a safe location. Trends over the past few days; non use of handrails when using stairways, obstructions and housekeeping. DODI Supervisor audits conducted: 2 Woodside Interventions conducted: 1 Vessel Issues: 0000 - 0600hrs 0000 - 0200: Attempted to free (prove) shipping hoses ok with Lewek Emerald. (No success). 0200 - 0300: Attached Lewek Swift to GEL hose. (Blocked up immediately, problems with air drier - changed drier hose). 0300 - 0630: Unblocked hose. 0630 - present: Reattached hose to Lewek Swift and successfully shipped GEL and drillwater to the rig.

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
19	79.17	5	20.83					84	87.5	12	12.5					96

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Dennis Gore**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	572.5m	Current Hole Size	36.000in
Field	Otway Basin	Actual Days	5.00	TVD	572.5m	Casing OD	
Rig Contractor	DOGC	Planned Days Completed	5.42	Progress	48.0m	Shoe TVD	
Rig	OCEAN PATRIOT	Days +/- Curve	-0.42 (Ahead)			FIT/LOT	/
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	
RT-ASL(LAT)	21.5m	Operations @ 0600	Cementing 762mm (30") conductor.				
RT-ML	524.5m	Planned Op	Complete cementing 762mm (30") conductor. Release running tool and POOH. Lay down 914mm (36") BHA and cement head. RIH 445mm (17.5") BHA and drill 445mm (17.5") hole.				

Cost Data				Daily Cost: \$752,884
	AFE	Actual Cost to Date	EFC	
Mob/Demob	\$ 5,900,000	\$ 3,282,226	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 2,182,919	\$ 18,400,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 5,465,145	\$ 23,900,000	

Summary of Period 0000 to 2400 Hrs
 Made up 914mm (36") spud BHA. Connected TGB to bit. Ran TGB to seabed on BHA. Spud Somerset-1 well and drill 914mm (36") hole from 524.5m to 572.5m. Circulated clean and displaced hole to PHG mud. POOH. Riggged up and ran 762mm (30") conductor. Stabbed conductor into PGB below drillfloor in moonpool.

Operations For Period 0000 Hrs to 2400 Hrs on 19 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	CH	PUB	0000	0200	2.00	0.0m	Made up 660mm (26") bit, 914mm (36") hole opener, float sub with solid float and 3 joints of 241mm (9.5") DCs.
P	CH	PUB	0200	0400	2.00	0.0m	Held JSA in moonpool with drill crew. Positioned TGB in moonpool. Aligned bit and engaged support dogs on TGB. Installed guide lines.
P	CH	PUB	0400	0800	4.00	0.0m	Picked up TGB, skidded moonpool cart clear and ran TGB through splash zone. RIH TGB to 518m.
NPT (SBT)	CH	CCM	0800	0900	1.00	0.0m	Continued to build spud mud. Move PGB to moonpool.
P	SC	RCS	0900	0930	0.50	0.0m	Held shallow gas pre spud JSA.
P	CH	ROV	0930	1130	2.00	0.0m	Positioned rig and landed TGB on seabed. ROV released support dogs. (Sea bed 503m LAT, RKB to mudline 524.5m LAT at rig draft of 23.5m)
P	CH	DA	1130	1530	4.00	572.5m	Bullseye before land out 1deg port forward - 230deg heading. Bullseye after land out 5deg+ port forward - 230deg heading (sloping seabed). Drilled 660mm x 914mm (26" x 36") hole from 524.5m to 572.5m. Initial parameters 1890 litre/min (500gpm) at 2800kPa (400psi), 65 RPM, 0-2712N-m (0-2k ft-lbs) WOB. Increased to 3400litre/min (900gpm) at 8300kPa (1200psi), 70 RPM. Pumped 8m3 (50bbl) Guar Gum sweep every single and spotted 16m3 (100bbl) PHG pill around BHA on connections.
P	CH	CHC	1530	1600	0.50	572.5m	Pumped 24m3 (150bbl) PHG sweep followed by 16m3 (100bbl) Guar and circulated well clean.
P	CH	CCM	1600	1630	0.50	572.5m	Displaced well with 48m3 (300bbl) PHG.
P	CH	RBH	1630	1800	1.50	572.5m	POOH. Racked back BHA.
P	SC	RCS	1800	1900	1.00	572.5m	Riggged up to run 762mm (30") casing. Positioned PGB in moonpool under rig floor.
P	SC	RCS	1900	2100	2.00	572.5m	Held JSA. Picked up 508mm x 763mm (20" x 30") shoe jt. Checked circulation through shoe - OK. Picked up and ran 762mm (30") conductor joints. Secured Leopard connections with heavy duty tack welds.
P	SC	RCS	2100	2130	0.50	572.5m	Made up 43m of 127mm (5") DP stinger and ran inside 762mm (30") conductor using "C-plate".
P	SC	RCS	2130	2200	0.50	572.5m	Made up 762mm (30") conductor Running Tool to cement stinger and engaged 762mm (30") conductor housing.

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	SC	RCS	2200	2400	2.00	572.5m	Landed 762mm (30") conductor housing in PGB and locked down same. Connected Dril-Quip HAC hoses from PGB to HAC ports.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 20 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	SC	RCS	0000	0030	0.50	572.5m	Picked up PGB to confirm engagement on conductor. (Combined PGB, conductor plus Running String weight 82mt (180klbs)). Skidded moonpool trolley clear, installed guide lines 1 and 2 into PGB guide posts. Ran PGB to water line and pumped seawater to fill casing. Closed Running Tool vent valves when full and pumped at 2800litre/min (730gpm) to confirm RT seals - OK.
P	SC	RCS	0030	0200	1.50	572.5m	Ran 762mm (30") casing to 520m. (Checked bullseye readings while suspended. Aft bullseye indicated 0.5deg port. Port bullseye indicated 0.5deg starboard.)
P	SC	RCS	0200	0230	0.50	572.5m	Stabbed conductor shoe into well with ROV assistance.
P	SC	RCS	0230	0500	2.50	572.5m	RIH to 550m. Assembly started taking weight. Broke circulation and worked past obstructions at 550m and 557m. Continued working in hole until PGB landed out on TGB. (508mm (20") shoe depth 569.44m).
P	SC	RCS	0500	0530	0.50	572.5m	Slacked off entire conductor/PGB weight onto TGB funnel. Checked bullseyes. (Port bullseye showed 0.9deg - 320 heading. Aft bullseye showed 0.75deg - 280 heading). Circulated well with seawater at 1600litre/min (10bbl/min), with 1400kPa (200psi) and held pre cement job JSA.
P	SC	CMC	0530	0600	0.50	572.5m	Dowell pumped 6.4m3 (40bbl) of seawater. Pressure tested surface lines to 13.800MPa (2000psi) - OK.
Total Duration					6		

Bit # 1				Wear	I	O1	D	L	B	G	O2	R
					1	1						TD
Size:	26.000in	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Manf:	Varel	WOB (avg)	2.00klb	No.	Size	Progress		48.0m	Cum. Progress		48.0m	
Type:	Milltooth	RPM (avg)	70	3	20/32nd"	On Bottom Hrs		4.0h	Cum. On Btm Hrs		4.0h	
Serial No.:		F. Rate	700.00gpm			IADC Drill Hrs		4.0h	Cum IADC Drill Hrs		4.0h	
Depth In	524.5m	SPP	1200psi			Total Revs		20000	Cum Total Revs		20000	
Depth Out	572.5m	HSI	0.36HSI			ROP (avg)		12.00 m/hr	ROP (avg)		12.00 m/hr	
Bit Model		TFA	0.920in ²									

BHA # 1

Weight Below Jar	Parameters					
BHA Weight	Rot Weight	190.00klb	Torque (max)	5000ft.lbs	D.P. Ann Velocity	0mpm
Bit to G.R Sensor Center	Pick-Up Weight	200.00klb	Torque Off Bottom (avg)	2500ft.lbs	D.C. (1) Ann Velocity	0mpm
Bit to Dir. Sensor Center	Slack-Off Weight	190.00klb	Torque On Bottom (avg)	2500ft.lbs	D.C. (2) Ann Velocity	0mpm

BHA Objective

Equipment	Length	Cum. Length	OD	ID	Comment
Bit	0.56m	0.56 m	26.000in		
Hole Opener	2.16m	2.72 m	36.000in	2.875in	
Float Sub	0.90m	3.62 m	9.500in	2.875in	
9 1/2" DC	28.53m	32.15 m	9.500in	3.060in	
X/O	1.09m	33.24 m	9.500in	3.060in	
8in DC	27.98m	61.22 m	8.000in	2.750in	
X/O	1.11m	62.33 m	8.250in	2.750in	
HWDP	113.61m	175.94 m	5.000in	3.060in	

WBM Data						
Mud Type:	PHG / Guar	API FL:	Cl:	Solids(%vol):	Viscosity	130sec/L
Sample-From:		Filter-Cake:	K+C*1000:	H2O:	PV	
Time:	16:00hrs	HTHP-FL:	Hard/Ca:	Oil(%):	YP	
Weight:	1.04sg	HTHP-cake:	MBT:	Sand:	Gels 10s	
Temp:		Glycol:	PM:	pH:	Gels 10m	
			PF:	PHPA:	Fann 003	
Comment	Problems getting bulk gel off supply boats. Only receiving bulk gel fom 07:30 am. Began mixing gel into pits 4 and 5 at 08:30 am. Both pits ready by 11:00 hrs. Pumped 50 bbl Guar Gum sweeps each single. Spotted 100 bbl PHG on connection. Swept hole at TD with 150 bbl PHG then 100 bbl PHG before displacing hole with 300 bbl PHG. 20 sx calcium chloride used for cement mixwater. 1100 bbl PHG mixed. 17T used. NPT(fluid related) - 0.					Fann 006
					Fann 100	
					Fann 200	
					Fann 300	
					Fann 600	

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	69	0	69.0	Drill Water	M3	331	172	493.0
Fuel	M3	0	9.1	289.2	Barite	MT	109	0	109.0
Pot Water	M3	26	23	207.0	Bentonite	MT	108	63	45.0
Fresh water	M3	0	0	0.0					

Supply Vessel															
Boats		Status			Bulks			Boats		Status			Bulks		
Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	
Lewek Swift	In Portland		Lewek Emerald	On Standby		Fuel	m3	580.9	Fuel	m3	597.7				
							ltrs.	0	Pot Water	m3	61				
						Pot Water	m3	196	Drill Water	m3	53				
						Drill Water	m3	0	CEMENT G	mt	65				
						CEMENT G	mt	0	CEMENT HT (SILICA)	mt	0				
						CEMENT HT (SILICA)	mt	0	Barite	mt	96				
						Barite	mt	91	Bentonite	mt	38				
						Bentonite	mt	0	BRINE	bbls	1500				
						BRINE	bbls	1500							

Personnel On Board				Total : 94
Company	Pax	Company	Pax	
Diamond Offshore	51	Dril-Quip	1	
ESS	8	MI Australia PTY LTD	2	
Woodside	8	Schlumberger DD	2	
BHI	6	Schlumberger MWD/LWD	2	
BJ Tubulars	3	Subsea 7	6	
Dowell Schlumberger	2	OTHER	3	

Lagging Indicators												
	HPI	LTJ	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	0	0	0	0
Month To Date	0	0	0	0	0	1	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	0	0	0	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	1	0	0	0	0	1	91	0	0
Well To Date	2	1	2	2	0	0	1	510	1	1
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	2	1	2	2	0	0	1	510	1	1
Year To Date	2	1	2	2	0	0	1	510	1	1
Comments/ Findings	JSA Comp Checks 1 - Good crew participation in JSA held for moving TGB into the Moonpool. Recommended some changes to the Master JSA. Drills 1 - Gas alarm and abandon rig drills held. Number Observe Cards 91 - Safe/Unsafe: 57/34 (DODI - 47; ESS - 7; TPC - 27; WEL - 10)									

Leading Indicators										
	H&S INC/NM	Env NM								
24hr	0	0								
Well To Date	0	0								
Month To Date	0	0								
Year To Date	0	0								
Comments / Findings										

General Comments	
00:00 to 24:00 Hrs on 19 Oct 2009	
Operational Comments	CAR: 42/143 items closed (11 critical) Top Stop Cards: #1 During boat drill noticed that lifejacket light was out of date. Conducted a survey of other life jackets in cabin and found all of them out of date also. Informed SDR. #2 Observed leaking Diesel fuel from the nozzle box under the Port Crane. Small valve had not been closed properly and fitting was loose. Drained diesel from box and cleaned up spill with soaker pads. Tightened the fitting and shut valve properly to prevent reoccurrence. Non-compliance trends: Housekeeping at the end of jobs, and failing to follow safe work procedures. DODI Supervisor audits conducted: 1 DODI Interventions conducted: 5 Woodside Interventions conducted: 3

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
23	95.83	1	4.17					107	89.17	13	10.83					120

Well Site Manager: Dennis Bell / Kevin Monkhouse				OIM: Dennis Gore			
Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	861.0m	Current Hole Size	17.500in
Field	Otway Basin	Actual Days	6.00	TVD	861.0m	Casing OD	30.000in
Rig Contractor	DOGC	Planned Days Completed	6.5	Progress	288.5m	Shoe TVD	569.4m
Rig	OCEAN PATRIOT	Days +/- Curve	-0.5 (Ahead)			FIT/LOT	/
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	
RT-ASL(LAT)	21.5m	Operations @ 0600	Drill ahead in 444mm (17.5") hole.				
RT-ML	524.5m	Planned Op	Circulate well clean. Displace hole to PHG/Drispac. POOH. Rig up, run and cement 340mm (13.375") casing				

Cost Data			Daily Cost: \$918,032		
	AFE	Actual Cost to Date	EFC		
Mob/Demob	\$ 5,900,000	\$ 3,132,599	\$ 5,500,000		
Drilling	\$ 23,100,000	\$ 2,936,179	\$ 18,400,000		
Completion	\$ 0	\$ 0	\$ 0		
Testing	\$ 0	\$ 0	\$ 0		
Intervention	\$ 0	\$ 0	\$ 0		
Well Total	\$ 29,000,000	\$ 6,068,778	\$ 23,900,000		

Summary of Period 0000 to 2400 Hrs
Ran 762mm (30") casing with PGB attached. Stabbed into well, worked down with some difficulty and landed out on TGB. Cemented casing. POOH with RT. Ran 444mm (17.5") BHA assembly and drilled 444mm (17.5") hole to 861m

Operations For Period 0000 Hrs to 2400 Hrs on 20 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	SC	RCS	0000	0030	0.50	572.5m	Picked up PGB to confirm engagement on conductor. (Combined PGB, conductor plus Running String weight 82mt (180klbs)). Skidded moonpool trolley clear, installed guide lines 1 and 2 into PGB guide posts. Ran PGB to water line and pumped seawater to fill casing. Closed Running Tool vent valves when full and pumped at 2800litre/min (730gpm) to confirm RT seals - OK.
P	SC	RCS	0030	0200	1.50	572.5m	Ran 762mm (30") casing to 520m. (Checked bullseye readings while suspended. Aft bullseye indicated 0.5deg port. Port bullseye indicated 0.5deg starboard.)
P	SC	RCS	0200	0230	0.50	572.5m	Stabbed conductor shoe into well with ROV assistance.
P	SC	RCS	0230	0500	2.50	572.5m	RIH to 550m. Assembly started taking weight. Broke circulation and worked past obstructions at 550m and 557m. Continued working in hole until PGB landed out on TGB. (508mm (20") shoe depth 569.44m).
P	SC	RCS	0500	0530	0.50	572.5m	Slacked off entire conductor/PGB weight onto TGB funnel. Checked bullseyes. (Port bullseye showed 0.9deg - 320 heading. Aft bullseye showed 0.75deg - 280 heading). Circulated well with seawater at 1600litre/min (10bbl/min), with 1400kPa (200psi) and held pre cement job JSA.
P	SC	CMC	0530	0730	2.00	572.5m	Dowell pumped 1.5m3 (10bbl) of seawater. Pressure tested surface lines to 13.800MPa (2000psi) - OK. Dowell pumped 60bbl of seawater followed by 3m3 (20bbl) of sea water with fluorescent dye. Dowell mix and pumped 32m3 (200bbl) 1.9SG (15.8ppg) G cement slurry and displaced with 6.2m3(39bbl) of seawater. Checked for back flow at cement unit - no flow. Checked PGB bullseyes - OK. Aft 0.82deg @ 290deg. Port 0.75deg @ 300deg Rigged down cement hose.
P	SC	CMC	0730	0800	0.50	572.5m	Released 762mm (30") RT from well head. Pulled RT clear of well head and flushed through drill string with 8m3 (50bbl) seawater.
P	SC	RBH	0800	0900	1.00	572.5m	POOH with RT. (ROV secured TGB recovery chains to PGB).
P	SC	PUB	0900	1000	1.00	572.5m	Laid down 762mm (30") RT, cement stinger and cement stand.
P	IH1	PUP	1000	1200	2.00	572.5m	Picked up and racked 10 stands of 127mm (5") DP.
P	IH1	PUB	1200	1300	1.00	572.5m	Made up Deep Sea Express cement head to stand and racked in derrick.
P	IH1	PUP	1300	1630	3.50	572.5m	Made up 444mm (17.5") BHA. Secured motor to guide lines and RIH to 288m.
P	IH1	PUP	1630	1800	1.50	572.5m	Held pre job JSA. Picked up singles and RIH to 489m.
P	IH1	RBH	1800	1830	0.50	572.5m	Continued to RIH with pipe from the derrick from 489m. Entered well at 522m and RIH to

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH1	RBH	1830	1900	0.50	572.5m	546m. Held Shallow gas and drill ahead JSA on Drill Floor. Tagged cement at 567.25m
P	IH1	DC	1900	2000	1.00	573.0m	Drilled out cement and shoe. Cleaned out rat hole to 573m. Worked and circulated to clean shoe and rat hole
P	IH1	DA	2000	2400	4.00	861.0m	Drilled 444mm (17.5") hole from 573m to 861m. 2270litre/min (600gpm), 20rpm, 4.5MT (10k) wob, until roller reamer clear of shoe. Parameters increased to 4350litre/min (1150gpm), 100rpm, 6780N-m (5k ft-lbs) torq, 9MT (20k) WOB. Pumped 15m3 (100bbl) PHG each stand, timed to be around BHA on connections. ROP 150 TO 200 MPH
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 21 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH1	DA	0000	0600	6.00	1211.0m	Drilled 444mm (17.5") hole from 861m to 1211m. 4350litre/min (1150gpm), 100rpm, 6780N-m (5k ft-lbs) torq, 9MT (20k) WOB. Pumped 15m3 (100bbl) PHG each stand, timed to be around BHA on connections.
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		

Survey

MD (m)	Incl. Deg. (deg)	Corr. Az. (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
0.00	0.00	0.00						
599.08	0.58	120.59	599.07	-1.54	0.029	-1.54	2.61	
684.35	0.43	120.90	684.34	-1.93	0.053	-1.93	3.26	
713.04	0.53	133.63	713.03	-2.07	0.152	-2.07	3.45	

Bit # 2

				Wear	I	O1	D	L	B	G	O2	R
Size:	17.500in	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Manf:	SMITH	WOB (avg)	8.30klb	No.	Size	Progress	288.5m	Cum. Progress	288.5m			
Type:	Milltooth	RPM (avg)	88	3	12/32nd"	On Bottom Hrs	4.0h	Cum. On Btm Hrs	4.0h			
Serial No.:	PM6863	F. Rate	1162.00gpm	3	15/32nd"	IADC Drill Hrs	4.0h	Cum IADC Drill Hrs	4.0h			
Depth In	572.5m	SPP	3726psi			Total Revs	55800	Cum Total Revs	55800			
Depth Out		HSI	4.22HSI			ROP (avg)	72.13 m/hr	ROP (avg)	72.13 m/hr			
Bit Model	XR+VEJ3	TFA	0.849in ²									

BHA # 2							
Weight Below Jar	50.00klb	Parameters					
BHA Weight	80.00klb	Rot Weight	226.00klb	Torque (max)	7ft.lbs	D.P. Ann Velocity	31mpm
Bit to G.R Sensor Center		Pick-Up Weight	276.00klb	Torque Off Bottom (avg)	2ft.lbs	D.C. (1) Ann Velocity	36mpm
Bit to Dir. Sensor Center	29.5m	Slack-Off Weight	221.00klb	Torque On Bottom (avg)	4ft.lbs	D.C. (2) Ann Velocity	40mpm

BHA Objective					
Equipment	Length	Cum. Length	OD	ID	Comment
Bit	0.44m	0.44 m	17.500in		
Mud Motor	10.79m	11.23 m	17.250in	7.750in	
Stabilizer	2.17m	13.4 m	17.250in	3.000in	
9 1/2" DC	9.48m	22.88 m	9.500in	3.000in	
Roller Reamer	2.47m	25.35 m	17.250in	3.000in	
Saver Sub	0.47m	25.82 m	9.375in	3.500in	
Power Pulse	7.55m	33.37 m	8.250in	5.810in	
Saver Sub	0.55m	33.92 m	8.375in	4.250in	
NMDC	9.07m	42.99 m	8.250in	2.190in	
8in DC	73.35m	116.34 m	8.000in	2.750in	
Jars	9.75m	126.09 m	8.060in	3.000in	
8in DC	18.65m	144.74 m	8.000in	2.750in	
X/O	1.11m	145.85 m	8.250in	2.750in	
HWDP	142.17m	288.02 m	5.000in	3.000in	

WBM Data							
Mud Type:	PHG / Guar	API FL:	Cl:	300mg/l	Solids(%vol):	Viscosity	100sec/L
Sample-From:		Filter-Cake:	K+C*1000:		H2O:	PV	
Time:	20:00hrs	HTHP-FL:	Hard/Ca:	40mg/l	Oil(%):	YP	Gels 10s
Weight:	1.04sg	HTHP-cake:	MBT:		Sand:	Gels 10m	
Temp:		Glycol:	PM:		pH:	9.5	Fann 003
			PF:		PHPA:		Fann 006
Comment	Sampled and tested barite in bulk silo-3 (high bentonite content) indicating missing bulk gel from silo-1 was transferred into silo-3. Will attempt to use this for sweeps in 17-1/2" hole. Built Type-1 Displacement mud in pits 1 and 2. NPT (fluids) : 0					Fann 100	
							Fann 200
							Fann 300
							Fann 600

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	39	30.0	Drill Water	M3	150	288	355.0
Fuel	M3	0	11.9	277.3	Barite	MT	90	0	199.0
Pot Water	M3	36	25	218.0	Bentonite	MT	32	20	57.0
Fresh water	M3	0	0	0.0					

Supply Vessel											
Boats		Status	Bulks			Boats		Status	Bulks		
Lewek Swift	On Standby		Item	Unit	Quantity	Lewek Emerald	In Portland. Note: slight discrepancy between Bentonite transferred to the rig (38T) and the amount received on the rig (32T) due to contamination issues on the rig.	Item	Unit	Quantity	
			Fuel	m3	524.3			Fuel	m3	580.7	
			Pot Water	m3	60			Pot Water	m3	90	
			Drill Water	m3	0			Drill Water	m3	169	
			CEMENT G	mt	0			CEMENT G	mt	65	
			CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0	
			Barite	mt	199			Barite	mt	96	
			Bentonite	mt	8			Bentonite	mt	0	
			BRINE	bbls	1500			BRINE	bbls	1500	

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	12.42 / 12.56	9 / 9	S76

Personnel On Board				Total : 94
Company	Pax	Company	Pax	
Diamond Offshore	50	Dril-Quip	1	
ESS	9	MI Australia PTY LTD	2	
Woodside	8	Schlumberger DD	2	
BHI	6	Schlumberger MWD/LWD	2	
BJ Tubulars	3	Subsea 7	6	
Dowell Schlumberger	2	OTHER	3	

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	0	0	0	0
Month To Date	0	0	0	0	0	1	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	0	0	0	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	98	0	0
Well To Date	2	1	2	2	0	0	1	608	1	1
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	2	1	2	2	0	0	1	608	1	1
Year To Date	2	1	2	2	0	0	1	608	1	1
Comments/ Findings	Number Observe Cards 98 - Safe/Unsafe: 66/32 (DODI - 57; ESS - 6; TPC - 27; WEL - 8)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 20 Oct 2009	
Operational Comments	<p>Final well surface position: Lat - 39deg 20' 36.757" South; Long - 142deg 44' 56.144" East. Map Grid of Australia (MGA) Zone 54 CM 141deg East. 650 712.40m Easting; 5 643 640.36m Northing. Final Rig Heading: 279.0deg True (280.1deg Grid).</p> <p>CAR: 42/143 items closed (11 critical) Top Stop Cards: #1 - Noticed person struggling up stairs with a heavy load. Stopped to offer assistance to prevent any incidents from occurring. #2 - Found a cutting blade left in a hazardous position in the marine locker. Moved the blade to a safer area out of harms way.</p> <p>Non-compliance trends: No hands on handrails. Tools and equipment obstructing safety equipment or not being replaced at end of job. Loose tubulars left unchocked around pipedeck. DODI Supervisor audits conducted: 2 DODI Interventions conducted: 5 Woodside Interventions conducted: 3</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
24	100							131	90.97	13	9.03					144

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Dennis Gore**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	1284.0m	Current Hole Size	17.500in
Field	Otway Basin	Actual Days	7.00	TVD	1284.0m	Casing OD	30.000in
Rig Contractor	DOGC	Planned Days Completed	8.1	Progress	423.0m	Shoe TVD	569.4m
Rig	OCEAN PATRIOT	Days +/- Curve	-1.1 (Ahead)			FIT/LOT	/
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	
RT-ASL(LAT)	21.5m	Operations @ 0600	Pressure test surface lines prior to cementing casing.				
RT-ML	524.5m	Planned Op	Cement 340mm (13 3/8") casing. Release RT. POOH. Rig up and run BOPs.				

Cost Data	Daily Cost: \$1,339,949		
	AFE (D&C)	Actual Cost to Date	EFC
Mob/Demob	\$ 5,900,000	\$ 3,132,599	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 4,276,128	\$ 18,300,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 7,408,727	\$ 23,800,000

Summary of Period 0000 to 2400 Hrs
 Drilled 445mm (17 1/2") hole from 861m to 1284m. Circulated clean and displaced well to PHG mud. POOH and racked back BHA. Rigged up and ran 340mm (13 3/8") casing.

Operations For Period 0000 Hrs to 2400 Hrs on 21 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH1	DA	0000	0215	2.25	1284.0m	Drilled 444mm (17.5") hole from 861m to 1060m (Port Campbell Limestone). 4353 litre/min (1150 gpm), 100 RPM, 4.1-12.2 N-m (3-9 kft-lbs) torque, 9-25 MT (20-55klbs) WOB. Swept 15 m3 (100 bbl) PHG each stand, and spotted 15 m3 (100 bbl) PHG pill around BHA on connections. Actual ROP 87.5m/hr vs TL 43m/hr.
P	IH1	DA	0215	0830	6.25	1284.0m	Drilled 444mm (17.5") hole from 1060m to 1286m (Gellibrand Marl). 4164 litre/min (1100 gpm), 85 RPM, 6.8-16.3 N-m (5-12 kft-lbs) torque, 9-27 MT (20-60 klbs) WOB. Swept 15m3 (100bbl) PHG each stand, and spotted 15m3 (100bbl) PHG pill around BHA on connections. Actual ROP 34.5m/hr vs TL 38m/hr.
P	IH1	CHC	0830	1000	1.50	1284.0m	Pumped 31m3 (200bbl) Guar Gum sweep. Pumped 175m3 (1100bbl) PHG mud and displaced with 8m3 (50bbl) of seawater.
P	IH1	RBH	1000	1230	2.50	1284.0m	POOH from 1284m to 288m. Worked through tight spots at 1200m, 1185m, 1148m, 1115m, 1055m, 710m, 623m. Max overpull (40k). Reamed tight spots prior to POOH.
P	IH1	RBH	1230	1500	2.50	1284.0m	Racked back BHA and broke off drill bit.
P	IH1	RCS	1500	1530	0.50	1284.0m	Made up 340mm (13 3/8") RT and stood back in derrick.
P	IH1	RCS	1530	1600	0.50	1284.0m	Cleared drill floor and held pre casing job JSA with drill crew.
P	IH1	RCS	1600	1700	1.00	1284.0m	Rigged up to run 340mm (13 3/8") casing.
P	IH1	RCS	1700	1800	1.00	1284.0m	Made up shoe track. Tested shoe and float valves in V door - OK. Attached guide ropes to shoe joint.
P	IH1	RCS	1800	2100	3.00	1284.0m	Ran 340mm (13 3/8") casing to 520m. Filled casing as run and confirmed full every 10 joints.
P	IH1	RCS	2100	2130	0.50	1284.0m	Stabbed shoe into well. Shoe stood up 3m inside well. Repositioned rig 6m to port/3m aft to align RT with hole.
P	IH1	RCS	2130	2300	1.50	1284.0m	Continued to run casing to 746m.
P	IH1	RCS	2300	2330	0.50	1284.0m	Rigged down 500t elevators and BJ Fill and Circulate (FAC) tool. Made up 127mm (5") elevators.
P	IH1	RCS	2330	2400	0.50	1284.0m	Picked up and made up 475mm (18 3/4") wellhead.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 22 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IC1	RCS	0000	0030	0.50	1284.0m	Laid out FMS slips and set 475mm (18 3/4") well head in the rotary table.
P	IC1	RCS	0030	0100	0.50	1284.0m	Dowell made up plug basket below 475mm (18 3/4") RT and spaced out to position in 340mm (13 3/8") casing below 508mm (20") cross over.

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IC1	RCS	0100	0130	0.50	1284.0m	Made up 475mm (18 3/4") RT to well head.
P	IC1	RCS	0130	0400	2.50	1284.0m	Ran 340mm (13 3/8") casing in from 746m to 1267m on 127mm (5") DP. Filled pipe every 5 stands.
P	IC1	RCS	0400	0430	0.50	1284.0m	Made up Deep Sea Express cement head stand. Connected cement hose and control lines. Recorded up and down drag.
P	IC1	RCS	0430	0445	0.25	1284.0m	Landed 475mm (18 3/4") wellhead into 762mm (30") housing with 22MT (50 klbs) down weight. Tested latch with 36MT (80 klbs) overpull - OK.
P	IC1	CCS	0445	0545	1.00	1284.0m	Staged pumps up. 475l/min 1240kPa (3bbl/min 180psi), 950l/min 1720kPa (6bbl/min 250psi), 1900l/min 2400kPa (12bbl/min 350psi), 2380l/min 3100kPa (15bbl/min 450psi). Circulated total 110% casing volume. Held cementing JSA while circulating
P	IC1	CMC	0545	0600	0.25	1284.0m	Lined up to Dowell and pumped 0.8m3 (5 bbl) seawater. Closed lo torq valve on cement head and conducted pressure test.
Total Duration					6		

Survey

MD (m)	Incl. Deg. (deg)	Corr. Az. (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
972.34	0.91	95.08	972.31	-3.08	0.069	-3.08	6.36	
1001.37	0.91	84.18	1001.33	-3.08	0.179	-3.08	6.82	
1059.78	0.95	75.47	1059.73	-2.91	0.075	-2.91	7.75	
1090.08	0.78	51.04	1090.03	-2.72	0.398	-2.72	8.16	
1117.31	0.70	46.36	1117.26	-2.49	0.110	-2.49	8.42	
1203.66	0.94	59.46	1203.60	-1.76	0.105	-1.76	9.41	
1251.88	0.96	60.07	1251.81	-1.36	0.014	-1.36	10.10	
1284.00	0.95	60.00	1283.93	-1.09	0.009	-1.09	10.57	

Bit # 2

				Wear	I	O1	D	L	B	G	O2	R
					1	1	WT	A	E	I	PN	TD
Size:	17.500in	IADC#	115	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Manf:	SMITH	WOB (avg)	24.00klb	No.	Size	Progress	423.0m	Cum. Progress		678.8m		
Type:	Milltooth	RPM (avg)	91	3	12/32nd"	On Bottom Hrs	6.2h	Cum. On Btm Hrs		10.2h		
Serial No.:	PM6863	F. Rate	1150.00gpm	3	15/32nd"	IADC Drill Hrs	6.2h	Cum IADC Drill Hrs		10.2h		
Depth In	572.5m	SPP	4100psi			Total Revs	49488	Cum Total Revs		105288		
Depth Out	1284.0m	HSI	4.40HSI			ROP (avg)	68.23 m/hr	ROP (avg)		66.55 m/hr		
Bit Model	XR+VEJ3	TFA	0.849in ²									

BHA # 2							
Weight Below Jar	50.00klb	Parameters					
BHA Weight	80.00klb	Rot Weight	217.00klb	Torque (max)	12000ft.lbs	D.P. Ann Velocity	31mpm
Bit to G.R Sensor Center		Pick-Up Weight	287.00klb	Torque Off Bottom (avg)	6000ft.lbs	D.C. (1) Ann Velocity	35mpm
Bit to Dir. Sensor Center	29.5m	Slack-Off Weight	214.00klb	Torque On Bottom (avg)	7000ft.lbs	D.C. (2) Ann Velocity	40mpm

BHA Objective						
Equipment	Length	Cum. Length	OD	ID	Comment	
Bit	0.44m	0.44 m	17.500in		w/ Solid Float.	
Mud Motor	10.79m	11.23 m	17.250in	7.750in		
Stabilizer	2.17m	13.4 m	17.250in	3.000in		
9 1/2" DC	9.48m	22.88 m	9.500in	3.000in		
Roller Reamer	2.47m	25.35 m	17.250in	3.000in		
Saver Sub	0.47m	25.82 m	9.375in	3.500in		
Power Pulse	7.55m	33.37 m	8.250in	5.810in		
Saver Sub	0.55m	33.92 m	8.375in	4.250in		
NMDC	9.07m	42.99 m	8.250in	2.190in		
8in DC	73.35m	116.34 m	8.000in	2.750in		
Jars	9.75m	126.09 m	8.060in	3.000in		
8in DC	18.65m	144.74 m	8.000in	2.750in		
X/O	1.11m	145.85 m	8.250in	2.750in		
HWDP	142.17m	288.02 m	5.000in	3.000in		

WBM Data							
Mud Type:	PHG / Guar	API FL:	Cl:	350mg/l	Solids(%vol):	Viscosity	100sec/L
Sample-From:		Filter-Cake:	K+C*1000:		H2O:	PV	
Time:	06:00hrs	HTHP-FL:	Hard/Ca:	40mg/l	Oil(%):	YP	
Weight:	1.12sg	HTHP-cake:	MBT:		Sand:	Gels 10s	
Temp:		Glycol:	PM:		pH:	Gels 10m	
			PF:		9.5	Fann 003	
Comment	Built pre-hydrated gel when drilling and after the displacement for additional volume. Used the barite contaminated gel from silo-3 for sweeps only. Bulk values adjusted to correct for contamination of bulk silo-3. 109MT barite received on 19th corrected back to 25MT and this charged off today. Gel usage reduced to include 18MT Gel in silo-3. (Silo-3 previously being recorded as barite). NPT (Fluids) : 0.					Fann 006	
						Fann 100	
						Fann 200	
						Fann 300	
						Fann 600	

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	66	0	96.0	Drill Water	M3	169	349	175.0
Fuel	M3	142	40.5	378.8	Barite	MT	0	25	0.0
Pot Water	M3	42	31	229.0	Bentonite	MT	17	1	73.0
Fresh water	M3	0	0	0.0					

Supply Vessel															
Boats		Status			Bulks			Boats		Status			Bulks		
Lewek Swift	In Portland Note: Barite figures have been amended to reflect actual quantity (25T) of barite transferred to the rig on the 19/10/09. Previous reports have also been updated.				Item	Unit	Quantity	Lewek Emerald	On Standby.			Item	Unit	Quantity	
		Fuel	m3	509.6	Fuel	m3	424.7								
		Pot Water	m3	392.5	Pot Water	m3	82								
		Drill Water	m3	0	Drill Water	m3	0								
		CEMENT G	mt	0	CEMENT G	mt	0								
		CEMENT HT (SILICA)	mt	87.7	CEMENT HT (SILICA)	mt	0								
		Barite	mt	175	Barite	mt	96								
		Bentonite	mt	8	Bentonite	mt	0								
BRINE	bbls	1500	BRINE	bbls	1500										

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	14:29 / 14:50	15 / 16	Super Puma

Personnel On Board				Total : 93
Company	Pax	Company	Pax	
Diamond Offshore	51	Dril-Quip	1	
ESS	8	MI Australia PTY LTD	2	
Woodside	7	Schlumberger DD	2	
BHI	6	Schlumberger MWD/LWD	3	
BJ Tubulars	3	Subsea 7	6	
Dowell Schlumberger	2	Petrotech	2	

Lagging Indicators												
	HPI	LTJ	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	0	0	0	0
Month To Date	0	0	0	0	0	1	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	0	0	0	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	1	0	0	0	0	0	0	89	0	0
Well To Date	3	1	2	2	0	0	2	697	1	1
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	3	1	2	2	0	0	2	697	1	1
Year To Date	3	1	2	2	0	0	2	697	1	1
Comments/ Findings	GSR Comp Checks 1 - Lifting Operations Check: Running 13-3/8" casing from the deck. Fully compliant. Area barriered off well, good crew organisation and co-ordination. Number Observe Cards 89 - Safe / Unsafe: 64/25. (DODI - 41; ESS - 13; TPC - 25; WEL - 10)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 21 Oct 2009	
Operational Comments	CAR: 42/143 items closed (11 critical) Top Stop Cards: #1 - Observed man stop the job. He had noticed the air tugger line had wrapped around the kelly hose. Job was stopped and line was untangled. #2 - Items in cool room, weighing more than 10kg were above shoulder height and a little too heavy for female utility personnel. Relocated them on lower rack. Non-compliance trends: No hands on handrails (personnel instructed this must be eliminated from the workplace). Tools and equipment obstructing safety equipment or not being replaced at the end of the job. Loose tubulars being left around pipedeck without being chocked. Basic equipment rig up (e.g. airline whipchecks and safety "R" clips). DODI Supervisor audits conducted: 0 DODI Interventions conducted: 4 Woodside Interventions conducted: 3

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
24	100							155	92.26	13	7.74					168

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Dennis Gore**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	1284.0m	Current Hole Size	17.500in
Field	Otway Basin	Actual Days	8.00	TVD	1284.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	9.5	Progress	0.0m	Shoe TVD	1278.6m
Rig	OCEAN PATRIOT	Days +/- Curve	-1.5 (Ahead)			FIT/LOT	/
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	
RT-ASL(LAT)	21.5m	Operations @ 0600	Running BOPs on riser.				
RT-ML	524.5m	Planned Op	Land BOPs. Test (18 3/4") WH connector. Make up and run 310mm (12 1/4") BHA. Drill out shoe track and displace the well to 1.30sg Ultradril mud.				

Cost Data	Daily Cost: \$782,007		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 5,061,448	\$ 18,400,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 8,243,734	\$ 23,900,000

Summary of Period 0000 to 2400 Hrs
Made up Deepsea Express subsea plug basket and 476mm (18 3/4") WHRT to 340mm (13 3/8") casing. Ran casing on DP and landed in 762mm (30") conductor. Circulated 110% casing volume and cemented casing. Released WHRT and POOH. Rigged up and ran BOPs on riser.

Operations For Period 0000 Hrs to 2400 Hrs on 22 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IC1	RCS	0000	0030	0.50	1284.0m	Laid out FMS slips and set 475mm (18 3/4") well head in the rotary table.
P	IC1	RCS	0030	0100	0.50	1284.0m	Made up and ran Dowell subsea plug basket into 340mm (13 3/8") casing below 508mm (20") cross over.
P	IC1	RCS	0100	0130	0.50	1284.0m	Made up 475mm (18 3/4") RT to WHH
P	IC1	RCS	0130	0400	2.50	1284.0m	Ran 340mm (13 3/8") casing from 746m to 1267m on 127mm (5") DP. Filled pipe every 5 stands.
P	IC1	RCS	0400	0430	0.50	1284.0m	Held JSA. Made up Deep Sea Express cement head stand. Connected cement hose and control lines. Recorded up and down drag.
P	IC1	RCS	0430	0500	0.50	1284.0m	Worked casing down and landed 475mm (18 3/4") wellhead into 762mm (30") housing with 22MT (50 klbs) down weight. Tested latch with 36MT (80 klbs) overpull - OK. Slacked off weight to landing string weight.
P	IC1	CCS	0500	0600	1.00	1284.0m	Staged pumps up. 475l/min 1240kPa (3bbl/min 180psi), 950l/min 1720kPa (6bbl/min 250psi), 1900l/min 2400kPa (12bbl/min 350psi), 2380l/min 3100kPa (15bbl/min 450psi). Circulated total 110% casing volume. Held cementing JSA while circulating.
P	IC1	PT	0600	0630	0.50	1284.0m	Lined up to Dowell and pumped 0.8m3 (5 bbl) seawater. Closed lo torq valve on cement head and pressure tested surface lines to 4000psi for 5mins - OK.
P	IC1	CMC	0630	0730	1.00	1284.0m	Dowell pumped 0.8m3 (5bbl) seawater spacer. Dowell released lower wiper dart from cement head and pumped down to plug basket with seawater. Lower wiper plug sheared at 12,300kPa (1800psi) Dowell mixed and pumped 31m3 (196bbl) of 1.9SG (15.8ppg) Type 'G' cement slurry. Dowell released upper wiper dart and displaced with 0.5m3 (3bbls) of cement and 4.5m3 (28bbls) of seawater. Upper wiper plug shear pressure of 12,300kPa (1800psi)
P	IC1	CMC	0730	0830	1.00	1284.0m	Changed lines over and displaced cement with rig pumps at 2380 L/min (15bbl/min). Slowed rate for final 318 L/min (2bbls). Bumped plug on anticipated depth, FCP 3680kPa (540psi). Increased to 7500kPa (1100psi) test pressure and held for 5mins - OK.
P	IC1	CMC	0830	0900	0.50	1284.0m	Checked for back flow at cement unit - none observed. Rigged down cement hose on drill floor.
P	IC1	RBH	0900	1000	1.00	1284.0m	Released 476mm (18 3/4") WHRT and POOH with same.
P	IC1	PUB	1000	1200	2.00	1284.0m	Laid out 476mm (18 3/4") WHRT. Laid out Dowell Deepsea Express cement head and removed equipment from drill floor.
P	BOP	RBOP	1200	1330	1.50	1284.0m	Held JSA and rigged up to run BOPs and riser.
P	BOP	RBOP	1330	1500	1.50	1284.0m	Made up 2 x jts of riser to booster line termination spool.
P	BOP	RBOP	1500	1730	2.50	1284.0m	Positioned BOP under rotary table. Connected booster line termination spool to BOP.

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	BOP	RBOP	1730	2330	6.00	1284.0m	Installed guide lines and location beacon.
P	BOP	PT	2330	2400	0.50	1284.0m	Ran BOPs on riser to 240m (15jts of riser). Pressure tested Kill and Choke lines to 1700kPa (250psi) 5mins / 34,400kPa (5000psi) 10mins - OK.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 23 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	BOP	RBOP	0000	0600	6.00	1284.0m	Ran BOPs and Riser from jt #16 (240m) to riser jt #25 (377m).
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51			72.0	NT80HE BTC		

WBM Data

Mud Type:	API FL:	Cl:	Solids(%vol):	Viscosity
Sample-From:	Filter-Cake:	K+C*1000:	H2O:	PV
Time:	HTHP-FL:	Hard/Ca:	Oil(%):	YP
Weight:	HTHP-cake:	MBT:	Sand:	Gels 10s
Temp:	Glycol:	PM:	pH:	Gels 10m
		PF:	PHPA:	Fann 003
Comment	Operationally discharged PHG and Guar Gum from pits. Unable to bring brine for new Ultradril mud on board for logistical/ VDL stability reasons. Only able to begin mixing small amount of polymers in drillwater. NPT (fluid related) - 0.			Fann 006
				Fann 100
				Fann 200
				Fann 300
				Fann 600

Bulk Stock

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	39	57.0	Drill Water	M3	0	60	115.0
Fuel	M3	0	16.8	362.0	Barite	MT	0	0	0.0
Pot Water	M3	45	31	243.0	Bentonite	MT	0	0	73.0
Fresh water	M3	0	0	0.0					

Supply Vessel

Boats		Status	Bulks			Boats		Status	Bulks		
Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity
Lewek Swift	On Standby.		Fuel	m3	493.7	Lewek Emerald	On Standby.		Fuel	m3	413.7
			Pot Water	m3	389				Pot Water	m3	74
			Drill Water	m3	0				Drill Water	m3	0
			CEMENT G	mt	0				CEMENT G	mt	0
			CEMENT HT (SILICA)	mt	88				CEMENT HT (SILICA)	mt	0
			Barite	mt	175				Barite	mt	96
			Bentonite	mt	8				Bentonite	mt	0
			BRINE	bbbls	1500				BRINE	bbbls	1500

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	11:51 / 12.01	8 / 8	S76

Personnel On Board			Total : 93
Company	Pax	Company	Pax
Diamond Offshore	51	Dril-Quip	1
ESS	8	MI Australia PTY LTD	2
Woodside	7	Schlumberger DD	2
BHI	6	Schlumberger MWD/LWD	3
BJ Tubulars	3	Subsea 7	6
Dowell Schlumberger	2	Petrotech	2

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	0	0	0	0
Month To Date	0	0	0	0	0	1	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	0	0	0	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	1	0	0	0	0	0	93	0	0
Well To Date	3	2	2	2	0	0	2	790	1	1
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	3	2	2	2	0	0	2	790	1	1
Year To Date	3	2	2	2	0	0	2	790	1	1
Comments/ Findings	JSA Comp Checks 1 - Cementing Operations JSA - Good JSA held with all crew involved. Telephone communication between drill floor and cement unit identified as very poor (difficult due to high noise). Number Observe Cards 93 - Safe/Unsafe: 66/27 (DODI - 47; ESS - 9; TPC - 29; WEL - 8)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 22 Oct 2009	
Operational Comments	<p>CAR: 44/143 items closed (11 critical) Top Stop Cards: #1 - Observed stair tread on newly fabricated stairs for drill floor had been installed wrong way around. Placed a caution label to notify personnel it would be repaired when possible and prior to use as it could be an extreme slip, trip or fall hazard until then. #2 - Observed (2) galley staff members moving the large gas bottle for the drink machine. It was too heavy and hard to lift, suggested a trolley would be viable to prevent any future injury from this operation.</p> <p>Non-compliance trends: No hands on handrails. Obstructing safety equipment. Unsecured tubulars on pipedeck. Whipchecks and safety "R" clips rig-up. Three reports of personnel running around the decks.</p> <p>DODI Supervisor audits conducted: 0 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Overall good environmental housekeeping. Replaced bunding next to aft fwd anchor and some scupper plugs in scupper drains that were missing.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
24	100							179	93.23	13	6.77					192

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Dennis Gore**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	1284.0m	Current Hole Size	17.500in
Field	Otway Basin	Actual Days	9.00	TVD	1284.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	10.4	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	-1.4 (Ahead)			FIT/LOT	/
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Laying out 444mm (17 1/2") BHA.				
RT-ML	524.5m	Planned Op	Make up 310mm (12 1/4") BHA and RIH picking up 96 joints of DP. Drill out shoe track while displacing well to 1.25SG Ultra-drill mud. Perform LOT. Drill ahead 310mm (12 1/4") hole.				

Cost Data		Daily Cost: \$740,089		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)	
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 5,801,537	\$ 18,400,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 8,983,823	\$ 23,900,000	

Summary of Period 0000 to 2400 Hrs
Ran BOPs and landed out on 476mm (18 3/4") WH. Tested casing and connector against shear rams to 4000psi. Picked up 30jts of DP from deck and RIH.

Operations For Period 0000 Hrs to 2400 Hrs on 23 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	BOP	PT	0000	0030	0.50	0.0m	Rigged down Choke & Kill test tool.
P	BOP	RBOP	0030	1000	9.50	1284.0m	Ran BOPs and Riser from jt #16 (240m) to riser jt #30 (520m). (Made up 2 x riser pup joints to space out).
P	BOP	RBOP	1000	1030	0.50	1284.0m	Made up Slip jt and landing jt to riser.
P	BOP	RBOP	1030	1200	1.50	1284.0m	Connected Kill, Choke and Booster hoses to slip joint.
P	BOP	RBOP	1200	1300	1.00	1284.0m	Latched SDL ring to slip joint. Installed pod line saddles while simultaneously moving rig back over location.
P	BOP	RBOP	1300	1400	1.00	1284.0m	Landed BOPs on 476mm (18 3/4") WH with 22.6MT (50k) down. Latched BOP to connector with yellow pod. Confirmed latch with 22.6MT (50k) overpull on connector. Set 22.6MT (50k) down on connector. Unlatched with yellow pod. Relatched connector with blue pod. Confirmed latch with 22.6MT(50k) overpull.
P	BOP	PT	1400	1500	1.00	0.0m	Pressure tested Kill and Choke lines to 1700kPa (250ps) for 5mins / 34,400kPa (5000psi) for 10min.
P	BOP	RBOP	1500	1600	1.00	1284.0m	Completed installing saddles for the pod lines. Installed pod clamps and RBQ plates. Scoped out inner barrel of slip joint.
P	BOP	PT	1600	1730	1.50	1284.0m	Lined up choke to Dowell. Broke circulation, closed BSR on yellow pod and pressure tested casing to 1700kPa (250psi) 5 mins / 27,500kPa (4000psi) 10mins. OK. Pressured up at 80 L/min (0.25 bbl/min). Opened BSR, switched to blue pod. Closed BSR and pressure tested to 3400kPa (500psi) as per Diamond procedures.
P	BOP	RBOP	1730	1800	0.50	1284.0m	Laid out landing joint.
P	BOP	RBOP	1800	1930	1.50	1284.0m	Installed diverter into housing.
P	BOP	PUB	1930	2130	2.00	1284.0m	Rigged down riser handling equipment and rigged up to handle 127mm (5") DP.
P	IH1	SER	2130	2200	0.50	1284.0m	Rig Serviced Blocks and TDS.
P	IH3	PUP	2200	2400	2.00	1284.0m	Held pre job JSA. Picked up 30 joints of 127mm (5") DP from catwalk and ran in hole to 290m.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 24 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH1	PUP	0000	0430	4.50	1284.0m	Picked up 84 jts of 127mm(5") DP from catwalk from 290m to 1094m. (Total DP picked up

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH1	BPT	0430	0600	1.50	1284.0m	114 jts / 38 stands). Actual 230m/hr vs TL 200m/hr. Performed function test on BOP. Functioned on Blue pod from DF panel. Functions checked on yellow pod from remote panel in TPs office.
Total Duration					6		

Casing									
OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner	
30 "	569.44	569.44			310.0	X56			
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC			

WBM Data									
Mud Type:	Ultradril	API FL:	6.5cc/30min	Cl:	72000mg/l	Solids(%vol):	10.5%	Viscosity	67sec/L
Sample-From:	Pit #5	Filter-Cake:	2/32nd"	K+C*1000:	11%	H2O:	90.0%	PV	6cp
Time:	22:30	HTHP-FL:		Hard/Ca:	480mg/l	Oil(%):	0.0%	YP	43lb/100ft ²
Weight:	1.25sg	HTHP-cake:		MBT:		Sand:		Gels 10s	5
Temp:		Glycol:		PM:		pH:	8.5	Gels 10m	8
				PF:	0	PHPA:		Fann 003	5
								Fann 006	7
Comment	Built new Ultradril WBM. Had to reduce concentration of IDCap to 1.3 pbp in new mud to avoid excessive viscosity (will have to add extra after drilling commences). Received Barite from Lewek Emerald (94 MT), (QC Test : pass). Weighted mud to 1.25 sg after addition of 4% Klastop/EMI 2009. Mud check carried out on freshly built mud. (Rheology will change on circulation). Using seawater to dilute brine in mud makeup. NPT (fluid related) - 0.							Fann 100	22
								Fann 200	30
								Fann 300	49
								Fann 600	55

Bulk Stock										
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance	
'G' Cmt	MT	0	0	57.0	Drill Water	M3	234	7	342.0	
Fuel	M3	0	18.9	343.1	Barite	MT	94	0	94.0	
Pot Water	M3	43	29	257.0	Bentonite	MT	0	0	73.0	
Fresh water	M3	0	0	0.0						

Supply Vessel											
Boats		Status	Bulks			Boats		Status	Bulks		
Lewek Swift	On Standby.		Item	Unit	Quantity	Lewek Emerald	In Portland	Item	Unit	Quantity	
			Fuel	m3	481.6			Fuel	m3	403.7	
			Pot Water	m3	150.5			Pot Water	m3	66	
			Drill Water	m3	0			Drill Water	m3	0	
			CEMENT G	mt	0			CEMENT G	mt	0	
			CEMENT HT (SILICA)	mt	88			CEMENT HT (SILICA)	mt	0	
			Barite	mt	175			Barite	mt	0	
			Bentonite	mt	8			Bentonite	mt	0	
			BRINE	bbbls	1500			BRINE	bbbls	600	

Personnel On Board				Total : 93
Company	Pax	Company	Pax	
Diamond Offshore	51	Dril-Quip	1	
ESS	8	MI Australia PTY LTD	2	
Woodside	7	Schlumberger DD	2	
BHI	6	Schlumberger MWD/LWD	3	
BJ Tubulars	3	Subsea 7	6	
Dowell Schlumberger	2	Petrotech	2	

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	0	0	0	0
Month To Date	0	0	0	0	0	1	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	0	0	0	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	93	0	1
Well To Date	3	2	2	2	0	0	2	883	1	2
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	3	2	2	2	0	0	2	883	1	2
Year To Date	3	2	2	2	0	0	2	883	1	2
Comments/ Findings	Number Observe Cards 93 - Safe/Unsafe: 65/28 (DODI - 48; ESS - 10; TPC - 28; WEL - 7). Env Insp Check 1 - Some drains on inside main deck not bunged. Substantial work required to equipment in two areas of the rig where leaks may occur. Environmental Roustabout employed & tasked to rectify 'E' & HS issue									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 23 Oct 2009	
Operational Comments	<p>CAR: 46/143 items closed (11 critical) Top Stop Cards: #1 - Found a bucket with dirty rigwash that could have been spilled on deck. Emptied bucket into waste oil tote tank and obtained new detergent. #2 - New Dogman on the drill floor running riser, unfamiliar with operation. Roughneck led him through the process, Driller operated at slower speed to facilitate. Roughneck stood beside Dogman to complete training.</p> <p>Non-compliance trends: No hands on handrails continue to be a problem. Obstructing safety equipment. Unsecured tubulars on pipedeck. Whipchecks and safety "R" clips rig-up. Reports of personnel running on deck. Issues raised in pre-tour meetings to avoid recurrence.</p> <p>DODI Supervisor audits conducted: 0 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Overall good environmental housekeeping. Fixed hole in bunding next to stbd fwd anchor. Removed excess grease from anchor winches.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
24	100							203	93.98	13	6.02					216

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Dennis Gore**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	1284.0m	Current Hole Size	17.500in
Field	Otway Basin	Actual Days	10.00	TVD	1284.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	11.3	Progress	0.0m	Shoe TVD	1280.0m
Rig	OCEAN PATRIOT	Days +/- Curve	-1.3 (Ahead)			FIT/LOT	/
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Drilling out 340mm (13 3/8") shoe track.				
RT-ML	524.5m	Planned Op	Drill out shoe track while displacing to Ultradril mud. Drill 5m of new 310mm (12 1/4") hole. Pull into casing and perform LOT. Drill ahead in 310mm (12 1/4") hole.				

Cost Data		Daily Cost: \$1,516,214		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)	
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 7,317,751	\$ 18,400,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 10,500,037	\$ 23,900,000	

Summary of Period 0000 to 2400 Hrs

Picked up 127mm (5") DP from catwalk. Function tested BOP. Racked back DP. Laid out 444mm (17 1/2") BHA. Made up 310mm (12 1/4") BHA. FEWD tools failed shallow test. Replaced failed tools. Loaded sources and shallow tested same. Made up 310mm (12 1/4") BHA to 265m. Picked up DP to 1185m. Broke circulation and washed to 1216m.

Operations For Period 0000 Hrs to 2400 Hrs on 24 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH1	PUP	0000	0430	4.50	1284.0m	Picked up 84 jts of 127mm(5") DP from catwalk from 290m to 1094m. (Total DP picked up 114 jts / 38 stands). Actual 230m/hr vs TL 200m/hr.
P	IH1	BPT	0430	0600	1.50	1284.0m	Performed function test on BOP. Functioned on Blue pod from DF panel. Functions checked on yellow pod from remote panel in TPs office.
P	IH1	PUB	0600	0630	0.50	1284.0m	Broke crossover connection on 476mm (18 3/4") WHRT and laid out.
P	IH1	PUP	0630	0900	2.50	1284.0m	POOH and racked back 38 stands of 127mm (5") DP in derrick.
NPT (SRE)	IH1	TT	0900	0930	0.50	1284.0m	Function tested diverter system - Failed. Replaced hose and damaged inner diverter packer.
P	IH1	TT	0930	0945	0.25	1284.0m	Function tested diverter system again - OK.
P	IH1	SER	0945	1000	0.25	1284.0m	Flushed through port and starboard overboard lines.
P	IH1	PUB	1000	1200	2.00	1284.0m	Laid out Power Pulse, Roller Reamer, 1x 240mm (9 1/2") DC, and mud motor from the 444mm (17 1/2") BHA.
P	IH1	PUB	1200	1500	3.00	1284.0m	Held pre job JSA and picked up 310mm (12 1/4") BHA.
NSC (DBHE)	IH1	TT	1500	1530	0.50	1284.0m	Attempted to shallow test MWD / FEWD tool set. Test failed.
NSC (DBHE)	IH1	TT	1530	1600	0.50	1284.0m	Laid out ADN and Sonic Vision tools due to test failure.
NSC (DBHE)	IH1	PUB	1600	1700	1.00	1284.0m	Picked up and made up replacement ADN and Sonic Vision tools.
P	IH1	PUB	1700	1730	0.50	1284.0m	Shallow tested MWD / FEWD tools 3780ltr/min (1000 gpm), 6,800kPa (1000psi). Good test.
P	IH1	PUB	1730	1800	0.50	1284.0m	Schlumberger installed radioactive source in ADN tool.
P	IH1	PUB	1800	1830	0.50	1284.0m	Made up 310mm (12 1/4") BHA and RIH to 151m.
P	IH1	PUB	1830	1900	0.50	1284.0m	Shallow tested Schlumberger MWD / FEWD tools 3780ltr/min (1000 gpm), 10,300kPa (1500psi)
P	IH1	PUB	1900	1930	0.50	1284.0m	Continued to RIH with 310mm (12 1/4") BHA.
P	IH1	PUP	1930	2330	4.00	1284.0m	Held pre job JSA and RIH to 1185m, picking up 96jts of 127mm (5") DP from catwalk. Pipe drifted to 66mm (2 5/8").
P	IH1	RW	2330	2400	0.50	1284.0m	Broke circulation with sea water. BHI and Schlumberger set parameters. Washed down from 1185m to 1216m at 1060ltr/min (282gpm), 2060kPa (300psi).

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 25 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH1	RW	0000	0030	0.50	1284.0m	Washed down from 1216m and tagged TOC at 1240.2m (tide corrected). 1.3m ³ (340gpm), 2750kPa (400psi). Tagged with 6.8m ³ (15k) weight.
P	IH1	DC	0030	0100	0.50	1284.0m	Drilled cement from 1240.2m to top plug at 1251.3m. 2.3m ³ /min (600gpm), 10,300kPa (1500psi), 2.2mt (5klbs) to 4.4mt (10klbs) WOB, 60rpm.
P	IH1	DC	0100	0600	5.00	1284.0m	Concurrent Operations: Displaced hole to 1.25sg Ultradill mud. (IN PROGRESS) Drilled cement plugs and float collar from 1251.3m to 1253m. 22.3m ³ /min (600gpm), 10,300kPa (1500psi), 2.2mt (5klbs) to 4.4mt (10klbs) WOB, 60rpm. Concurrent Operations: Displaced hole to 1.25sg Ultradill mud. Interface at surface at 01:30.
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

WBM Data

Mud Type:	Ultradill	API FL:	6.5cc/30min	Cl:	70000mg/l	Solids(%vol):	10.5%	Viscosity	72sec/L
Sample-From:	Pit #4	Filter-Cake:	2/32nd"	K+C*1000:	11%	H2O:	90.0%	PV	6cp
Time:	21:00	HTHP-FL:		Hard/Ca:	440mg/l	Oil(%):	0.0%	YP	44lb/100ft ²
Weight:	1.25sg	HTHP-cake:		MBT:		Sand:		Gels 10s	5
Temp:		Glycol:		PM:		pH:	8.5	Gels 10m	8
				PF:	0	PHPA:		Fann 003	5
Comment	Completed weighting 1877 bbls new Ultradill mud to 1.25 sg with 4% Klastop. Backloaded 2 plts Guar Gum in containers 48731, 44720. Barite received from L.Swift (175 MT) QA Test : pass. Mixed and operationally discharged bentonite contaminated barite from Silo # 3. 18MT costed. Prepared for displacement. NPT (fluid related) - 0.							Fann 006	7
								Fann 100	23
								Fann 200	31
								Fann 300	50
								Fann 600	56

Bulk Stock

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	0	12	330.0
Fuel	M3	0	13	330.1	Barite	MT	168	69	193.0
Pot Water	M3	34	29	262.0	Bentonite	MT	0	18	55.0
Fresh water	M3	0	0	0.0					

Supply Vessel

Boats		Status	Bulks			Boats		Status	Bulks		
Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity
Lewek Swift	On Standby.		Fuel	m3	469.3	Lewek Emerald	In Portland		Fuel	m3	394.7
			Pot Water	m3	146				Pot Water	m3	152
			Drill Water	m3	0				Drill Water	m3	275
			CEMENT G	mt	0				CEMENT G	mt	40
			CEMENT HT (SILICA)	mt	88				CEMENT HT (SILICA)	mt	0
			Barite	mt	31				Barite	mt	67
			Bentonite	mt	8				Bentonite	mt	0
			BRINE	bbls	1500				BRINE	bbls	600

Personnel On Board			Total : 93
Company	Pax	Company	Pax
Diamond Offshore	51	Dril-Quip	1
ESS	8	MI Australia PTY LTD	2
Woodside	7	Schlumberger DD	2
BHI	6	Schlumberger MWD/LWD	3
BJ Tubulars	3	Subsea 7	6
Dowell Schlumberger	2	Petrotech	2

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	1	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	0	0
Month To Date	0	0	0	0	0	1	0	0	1	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	0	0
Comments/ Findings	Flare fell into sea when Welder was maintaining handrails. Recovered by support vessel.											

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	2	2	0	1	0	0	0	81	0	0
Well To Date	5	4	2	3	0	0	2	964	1	2
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	5	4	2	3	0	0	2	964	1	2
Year To Date	5	4	2	3	0	0	2	964	1	2
Comments/ Findings	GSR Comp Checks 2 - #1 - Welder: Excellent work ethic. Some signage still missing in Welders Shop. #2 - Electrical operations in SCR & main control room are all well controlled and equipment has full loto facility. JSA Comp Checks 2 - #1 - Backloading Equipment to the Boat: Good JSA. Cross referencing to other applicable documents needed. #2 - Deck Ops & Handling Tubulars: Good discussion had about pros & cons of push sticks. Area Inspection 1 - Main Deck/Engine Rm/Switch Gear Room: Eyewash station in sackroom needs relocation. Deck drainage system needs a closed system connected through oil-water separator. Number Observe Cards 81 - Safe/Unsafe: 58/23 (DODI - 44; ESS - 6; TPC - 24; WEL - 7).									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 24 Oct 2009	
Operational Comments	<p>CAR: 47/143 items closed (11 critical) Top Stop Cards: #1 - Found an uneven grating making a trip hazard. Went and got a pry bar, face-shield & hammer and straightened it out making the walkway safe. #2 - Had to stop a load coming down twice as a 3rd party man ran in to grab something, even after I had told him not to go near it. After load was landed I spoke to the man and explained the danger.</p> <p>Non-compliance trends: No hands on handrails continue to be a problem. Obstructing safety equipment. Unsecured tubulars on pipedeck. Whipchecks and safety "R" clips rig-up. Reports of personnel running around the decks.</p> <p>DODI Supervisor audits conducted: 2 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Cleaned winch machine rooms and excess grease off std aft anchor winch. Reported small gap in kick plate around the port aft anchor winch.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
21.5	89.58	0.5	2.08			2	8.33	224.5	93.54	13.5	5.63			2	0.83	240

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	1558.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	11.00	TVD	1557.9m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	12.1	Progress	274.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	-1.1 (Ahead)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Continue to drill ahead 310mm (12 1/4") hole from 1700m.				
RT-ML	524.5m	Planned Op	Drill ahead in 310mm (12 1/4") hole to section TD.				

Cost Data	Daily Cost: \$1,404,846		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 8,722,597	\$ 18,400,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 11,904,883	\$ 23,900,000

Summary of Period 0000 to 2400 Hrs
 Tagged TOC. Displaced to Ultradrill mud while drilling out shoe track and 444mm (17 1/2") rat hole. Circulated mud and pulled into shoe. Performed LOT - 1.7sg EMW achieved. Rig placed on down time due to brine lost in ship to rig transfer. Drilled 310mm (12 1/4") hole from 1289m to 1558m.

Operations For Period 0000 Hrs to 2400 Hrs on 25 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH1	RW	0000	0030	0.50	1284.0m	Washed down from 1216m and tagged TOC at 1240.2m (tide corrected). 1.3m3 (340gpm), 2750kPa (400psi). Tagged with 6.8m3 (15k) weight.
P	IH1	DC	0030	0100	0.50	1284.0m	Drilled cement from 1240.2m to top plug at 1251.3m. 2.3m3/min (600gpm), 10,300kPa (1500psi), 2.2mt (5klbs) to 4.4mt (10klbs) WOB, 60rpm.
							Concurrent Operations: Displaced hole to 1.25sg Ultradrill mud.
P	IH1	DC	0100	0730	6.50	1284.0m	Drilled cement plugs and float collar from 1251.3m to 1253m. 22.3m3/min (600gpm), 10,300kPa (1500psi), 2.2mt (5klbs) to 4.4mt (10klbs) WOB, 60rpm.
							Concurrent Operations: Displaced hole to 1.25sg Ultradrill mud. Interface at surface at 01:30.
P	IH1	DC	0730	0830	1.00	1284.0m	Drilled out shoe track and 5m new formation. Cleaned out rat hole. 2.6m3/min (700gpm), 12,400kPa (1800psi), 2.2mt (5klbs) to 4.4mt (10klbs) WOB, 60rpm.
P	IH1	DA	0830	0930	1.00	1289.0m	Drilled 310mm (12 1/4") hole from 1284m to 11289m. 2.3m3/min (600gpm), 9600kPa (1400psi), 6700-13400Nm (5-10kft-lbs) torque, 4.4mt (10klbs) WOB, 80rpm.
P	IH1	CCM	0930	1000	0.50	1289.0m	Worked through shoe and rat hole, circulating at 2.6m3/min (700gpm), 11000kPa (1800psi).
P	IH1	LOT	1000	1030	0.50	1289.0m	Pulled back into shoe. Held Pre job JSA and rigged up to perform LOT.
P	IH1	LOT	1030	1130	1.00	1289.0m	Broke circulation with Dowell. Pressure tested surface lines to 20,600kPa (3000psi) for 5mins - OK. Spaced out drill string, closed MPRs and performed LOT. Mud weight 1.25sg, surface pressure 5600kPa (824psi). LOT result 1.7sg EMW .
P	IH1	LOT	1130	1200	0.50	1289.0m	Rigged down surface equipment.
NPT (SRE)	IH1	DA	1200	1530	3.50	1289.0m	Unable to drill ahead due to loss of Brine during ship to rig transfer (insufficient mud to complete section). Rig placed on downtime.
							Held Safety Stand Down meeting with rig personnel. Circulated well, flushed kill and choke lines, serviced Top Drive, Blocks and Drawworks while stood down.
P	IH1	DA	1530	2400	8.50	1558.0m	Drilled 310mm (12 1/4") hole from 1289m to 1558m. WOB 4.5mt-13.6mt (10k-30k), pump rate 2.6m3-4m3 (700-1050gpm), pressure 19,300kPa-28,900kPa (2800psi - 4200psi), rotary speed 100-170rpm. (Commenced mud weight increase as per program).
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 26 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH1	DA	0000	0600	6.00	1700.0m	Drilled ahead 310mm (12 1/4") hole from 1558m to 1700m. Wob 4.5mt-13.6mt (10k-30k), pump rate 2.6m3-4m3 (700-1050gpm), pressure 19,300kPa-28,900kPa (2800psi - 4200psi), rotary speed 100-170rpm
Total Duration					6		

Casing									
OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner	
30 "	569.44	569.44			310.0	X56			
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC			

Survey									
MD (m)	Incl. Deg. (deg)	Corr. Az. (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type	
1395.50	0.44	87.23	1395.42	-0.73	0.130	-0.73	11.70		
1423.48	0.35	95.19	1423.40	-0.74	0.110	-0.74	11.89		
1450.69	0.32	100.66	1450.61	-0.76	0.050	-0.76	12.05		

Bit # 3				Wear	I	O1	D	L	B	G	O2	R
Size:	12.250in	IADC#	M423	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Manf:	SMITH	WOB (avg)	23.00klb	No.	Size	Progress	274.0m	Cum. Progress	274.0m			
Type:	PDC	RPM (avg)	152	10	12/32nd"	On Bottom Hrs	7.3h	Cum. On Btm Hrs	7.3h			
Serial No.:	JD0772	F. Rate	994.00gpm			IADC Drill Hrs	8.5h	Cum IADC Drill Hrs	8.5h			
Depth In	1284.0m	SPP	4200psi			Total Revs	63	Cum Total Revs	63			
Depth Out		HSI	3.86HSI			ROP (avg)	37.53 m/hr	ROP (avg)	37.53 m/hr			
Bit Model	MDSi716	TFA	1.104in ²									

BHA # 3		Parameters					
Weight Below Jar	40.00klb	Rot Weight	265.00klb	Torque (max)	13000ft.lbs	D.P. Ann Velocity	59mpm
BHA Weight	60.00klb	Pick-Up Weight	265.00klb	Torque Off Bottom (avg)	4400ft.lbs	D.C. (1) Ann Velocity	86mpm
Bit to G.R Sensor Center	10.1m	Slack-Off Weight	260.00klb	Torque On Bottom (avg)	7000ft.lbs	D.C. (2) Ann Velocity	59mpm
Bit to Dir. Sensor Center	18.1m						

BHA Objective						
Equipment	Length	Cum. Length	OD	ID	Comment	
Bit	0.33m	0.33 m	12.250in		w/ Ported Float	
Near Bit Stab	2.56m	2.89 m	12.250in	2.875in		
Pony NMDC	2.90m	5.79 m	8.000in	2.188in		
Stabilizer	1.75m	7.54 m	12.250in	2.875in		
Saver Sub	0.38m	7.92 m	8.250in	3.000in		
ARC8	5.44m	13.36 m	9.000in	2.813in		
ILS	0.91m	14.27 m	12.125in	4.250in		
Telescope	7.68m	21.95 m	8.250in	5.938in		
Saver Sub	0.38m	22.33 m	8.250in	3.000in		
Stabilizer	0.98m	23.31 m	12.125in	3.000in		
Sonic 6	6.88m	30.19 m	9.063in	4.000in		
Saver Sub	0.32m	30.51 m	8.313in	4.250in		
ADN 8	6.37m	36.88 m	12.125in	3.250in		
Saver Sub	2.48m	39.36 m	9.125in	3.000in		
8in DC	54.68m	94.04 m	8.000in	2.750in		
Jars	9.75m	103.79 m	8.063in	3.000in		
8in DC	18.65m	122.44 m	8.500in	2.188in		
X/O	1.11m	123.55 m	8.250in	2.750in		
HWDP	142.17m	265.72 m	5.000in	3.000in		

WBM Data									
Mud Type:	Ultradril	API FL:	3.2cc/30min	Cl:	64000mg/l	Solids(%vol):	9.8%	Viscosity	77sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	11%	H2O:	90.0%	PV	20cp
Time:	18:00	HTHP-FL:	10.2cc/30min	Hard/Ca:	760mg/l	Oil(%):	0.0%	YP	29lb/100ft²
Weight:	1.26sg	HTHP-cake:	1/32nd"	MBT:	1	Sand:	0.5	Gels 10s	6
Temp:	30C°	Glycol:		PM:		pH:	10.5	Gels 10m	9
				PF:	3.2	PHPA:		Fann 003	6
Comment	Ditch Magnet recovery 860gms							Fann 006	8
								Fann 100	29
								Fann 200	41
								Fann 300	49
								Fann 600	69

WBM Data									
Mud Type:	Ultradril	API FL:	4.0cc/30min	Cl:	65000mg/l	Solids(%vol):	11.2%	Viscosity	74sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	11%	H2O:	89.0%	PV	20cp
Time:	21:00	HTHP-FL:	10.8cc/30min	Hard/Ca:	440mg/l	Oil(%):	0.0%	YP	28lb/100ft²
Weight:	1.26sg	HTHP-cake:	1/32nd"	MBT:	1	Sand:		Gels 10s	6
Temp:	30C°	Glycol:		PM:		pH:	10.2	Gels 10m	9
				PF:	3	PHPA:		Fann 003	6
Comment	Received 109 bbl brine off Lewek Swift. Remainder of 1500 bbl brine on board lost via burst delivery hose. (Cost of lost brine included on today's report). Took on 367 bbl brine off Emerald. Built premixes for volume. Cuttings integrity - very good, well defined, non-sticky, dry inside. Shakers running 120 x 100 API screens. Most cuttings removed by scalpers (20 mesh). Desander and desilter run. Used 11 x API 120 shaker screens from Swaco stock. NPT (fluid related) - 0.							Fann 006	8
								Fann 100	29
								Fann 200	40
								Fann 300	48
								Fann 600	68

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	0	36	294.0
Fuel	M3	0	10.8	319.3	Barite	MT	0	37	156.0
Pot Water	M3	36	22	276.0	Bentonite	MT	0	0	55.0
Fresh water	M3	0	0	0.0					

Supply Vessel															
Boats		Status			Bulks			Boats		Status			Bulks		
Lewek Swift	In Portland	Item	Unit	Quantity	Lewek Emerald	On Standby	Item	Unit	Quantity	Lewek Emerald	On Standby	Item	Unit	Quantity	
	Accidental discharge of ~1350bbl brine during ship transfer to rig.	Fuel	m3	455			Fuel	m3	376.7			Pot Water	m3	144	
		Pot Water	m3	313			Drill Water	m3	275			CEMENT G	mt	40	
		Drill Water	m3	511			CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0	
		CEMENT G	mt	0			Barite	mt	67			Barite	mt	67	
		CEMENT HT (SILICA)	mt	88			Bentonite	mt	0			Bentonite	mt	0	
		Barite	mt	31			BRINE	bbls	224			BRINE	bbls	224	
		Bentonite	mt	8											
		BRINE	bbls	0											

Personnel On Board				Total : 93
Company	Pax	Company	Pax	
Diamond Offshore	51	Dril-Quip	1	
ESS	8	MI Australia PTY LTD	2	
Woodside	7	Schlumberger DD	2	
BHI	6	Schlumberger MWD/LWD	3	
BJ Tubulars	3	Subsea 7	6	
Dowell Schlumberger	2	Petrotech	2	

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	1	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	1	0	0	1	0	1	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings	Loss of Containment: Approximately 1350bbls of KCl brine lost to ocean during bulk transfer from the Lewek Swift between 01:30hrs and 3:30hrs.											

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	2	0	3	1	0	0	0	86	0	0
Well To Date	7	4	5	4	0	0	2	1050	1	2
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	7	4	5	4	0	0	2	1050	1	2
Year To Date	7	4	5	4	0	0	2	1050	1	2
Comments/ Findings	GSR Comp Checks 2 - #1-Driving Forklift: compliant. #2-Electrical Isolation for rig air compressor: compliant. PTW Audit 3 - #1-Clean, Inspect & Test AC Motor on Anchor Winches. #2-Pressure Test from Cement Unit to Rig Floor. #3-Welding top rail of new walkway. All compliant, but JSAs not attached, located where JSA held. Area Inspection 1 - Cement Unit - Good housekeeping, maintained well by cementers. Number Observe Cards 86 - Safe/Unsafe: 47/39 (DODI - 36; ESS - 13; TPC - 30; WEL - 7).									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 25 Oct 2009	
Operational Comments	<p>Ditch Magnet Reading: 860 grams.</p> <p>CAR: 47/143 items closed (11 critical)</p> <p>Top Stop Cards: #1 - Found someone had placed clothing on top of an electric motor, blocking the vent for motor cooling. Removed the obstruction to ensure electric motor could cool down. #2 - Found forklift parked with forks still raised off the ground. Explained to driver that this is a bad practice and trip hazard even if only for a short time while he was to mount or dismount.</p> <p>Non-compliance trends: No hands on handrails continue to be a problem. Obstructing safety equipment. Unsecured tubulars on pipedeck. Whipchecks and safety "R" clips rig-up. Requested all personnel take time to check all equipment before use, especially hoses. Check of rig hose equipment found "Jubilee Clips" are outlawed on this rig and proper clamps are used.</p> <p>DODI Supervisor audits conducted: 2 DODI Interventions conducted: 5 Woodside Interventions conducted: 4 Daily Environmental Checklist findings: Cleaned anchor winchs. Replaced soaker pads around the rig and continued general rig cleaning.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
20.5	85.42	3.5	14.58					245	92.8	17	6.44			2	0.76	264

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2288.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	12.00	TVD	2288.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	13.9	Progress	730.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	-1.9 (Ahead)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Drill ahead 310mm (12 1/4") hole from 2478m.				
RT-ML	524.5m	Planned Op	Drill ahead 310mm (12 1/4") hole to section TD.				

Cost Data				Daily Cost: \$757,445
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)	
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 9,480,042	\$ 17,500,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 12,662,328	\$ 23,000,000	

Summary of Period 0000 to 2400 Hrs
 Drilled ahead 310mm (12 1/4") hole from 1558m to 2288m.

Operations For Period 0000 Hrs to 2400 Hrs on 26 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH2	DA	0000	2400	24.00	2288.0m	Drilled ahead 310mm (12 1/4") hole from 1558m to 2288m. WOB 13.6mt (30k), pump rate 4m3/min decreasing to 3.4m3/min due to pump pressure limitations (1050gpm decreasing to 912gpm), pressure 28,900kPa (4200psi), rotary speed 150-170rpm, torque 6,750N-m - 13,500N-m (5k-10kft-lbs).
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 27 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH2	DA	0000	0600	6.00	2478.0m	Drilled ahead 310mm (12 1/4") hole from 2288m to 2478m. WOB 13.6mt (30k), pump rate 3.4m3/min decreasing to 3.2m3/min due to pump pressure limitations (912gpm decreasing to 855gpm), pressure 28,900kPa (4200psi), rotary speed 150-170rpm, torque 6,750N-m - 13,500N-m (5k-10kft-lbs). Ran riser boost pump 20 minutes each stand to boost cuttings from riser. Added Sodium Thiocyanate tracer to mud from 2400m.
Total Duration					6		

Casing								
OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

Survey								
MD	Incl. Deg.	Corr. Az.	TVD	'V' Sect	Dogleg	N/S	E/W	Tool Type
(m)	(deg)	(deg)	(m)	(m)	(deg/30m)	(m)	(m)	
1739.63	0.22	152.34	1739.55	-1.40	0.030	-1.40	13.10	
1855.31	0.00	12.14	1855.23	-1.60	0.060	-1.60	13.20	
1885.00	0.43	189.27	1884.92	-1.71	0.430	-1.71	13.18	
1933.81	0.33	335.46	1933.73	-1.76	0.450	-1.76	13.09	
2029.52	0.80	194.45	2029.43	-2.16	0.340	-2.16	12.81	
2086.65	0.81	197.53	2086.56	-2.93	0.020	-2.93	12.59	
2201.88	0.95	192.05	2201.78	-4.64	0.040	-4.64	12.15	

Bit # 3				Wear	I	O1	D	L	B	G	O2	R
Size:	12.250in	IADC#	M423	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Manf:	SMITH	WOB (avg)	30.00klb	No.	Size	Progress	730.0m	Cum. Progress	1004.0m			
Type:	PDC	RPM (avg)	160	10	12/32nd"	On Bottom Hrs	17.8h	Cum. On Btm Hrs	25.1h			
Serial No.:	JD0772	F. Rate	952.00gpm			IADC Drill Hrs	24.0h	Cum IADC Drill Hrs	32.5h			
Depth In	1284.0m	SPP	4100psi			Total Revs	173000	Cum Total Revs	236000			
Depth Out		HSI	3.50HSI			ROP (avg)	41.01 m/hr	ROP (avg)	40.00 m/hr			
Bit Model	MDSi716	TFA	1.104in ²									

BHA # 3							
Weight Below Jar	40.00klb	Parameters					
BHA Weight	65.00klb	Rot Weight	305.00klb	Torque (max)	12700ft.lbs	D.P. Ann Velocity	57mpm
Bit to G.R Sensor Center	10.1m	Pick-Up Weight	315.00klb	Torque Off Bottom (avg)	4400ft.lbs	D.C. (1) Ann Velocity	83mpm
Bit to Dir. Sensor Center	18.1m	Slack-Off Weight	300.00klb	Torque On Bottom (avg)	6600ft.lbs	D.C. (2) Ann Velocity	57mpm

BHA Objective					
Equipment	Length	Cum. Length	OD	ID	Comment
Bit	0.33m	0.33 m	12.250in		w/ Ported Float
Near Bit Stab	2.56m	2.89 m	12.250in	2.875in	
Pony NMDC	2.90m	5.79 m	8.000in	2.188in	
Stabilizer	1.75m	7.54 m	12.250in	2.875in	
Saver Sub	0.38m	7.92 m	8.250in	3.000in	
ARC8	5.44m	13.36 m	9.000in	2.813in	
ILS	0.91m	14.27 m	12.125in	4.250in	
Telescope	7.68m	21.95 m	8.250in	5.938in	
Saver Sub	0.38m	22.33 m	8.250in	3.000in	
Stabilizer	0.98m	23.31 m	12.125in	3.000in	
Sonic 6	6.88m	30.19 m	9.063in	4.000in	
Saver Sub	0.32m	30.51 m	8.313in	4.250in	
ADN 8	6.37m	36.88 m	12.125in	3.250in	
Saver Sub	2.48m	39.36 m	9.125in	3.000in	
8in DC	54.68m	94.04 m	8.000in	2.750in	
Jars	9.75m	103.79 m	8.063in	3.000in	
8in DC	18.65m	122.44 m	8.500in	2.188in	
X/O	1.11m	123.55 m	8.250in	2.750in	
HWDP	142.17m	265.72 m	5.000in	3.000in	

WBM Data									
Mud Type:	Ultradril	API FL:	3.8cc/30min	Cl:	56000mg/l	Solids(%vol):	11.4%	Viscosity	69sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	89.0%	PV	23cp
Time:	10:30	HTHP-FL:	11.0cc/30min	Hard/Ca:	850mg/l	Oil(%):	0.0%	YP	31lb/100ft²
Weight:	1.30sg	HTHP-cake:	2/32nd"	MBT:	3	Sand:	0.5	Gels 10s	6
Temp:	24C°	Glycol:		PM:		pH:	10.5	Gels 10m	8
				PF:	3	PHPA:		Fann 003	7
Comment								Fann 006	9
								Fann 100	30
								Fann 200	44
								Fann 300	54
								Fann 600	77

WBM Data									
Mud Type:	Ultradril	API FL:	3.2cc/30min	Cl:	56000mg/l	Solids(%vol):	11.0%	Viscosity	74sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	89.0%	PV	21cp
Time:	21:00	HTHP-FL:	10.5cc/30min	Hard/Ca:	780mg/l	Oil(%):	0.0%	YP	32lb/100ft²
Weight:	1.30sg	HTHP-cake:	2/32nd"	MBT:	3	Sand:	0.5	Gels 10s	7
Temp:	26C°	Glycol:		PM:		pH:	10	Gels 10m	10
				PF:	2.8	PHPA:		Fann 003	6
Comment								Fann 006	9
								Fann 100	30
								Fann 200	43
								Fann 300	53
								Fann 600	74

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	254	88	460.0
Fuel	M3	0	21.6	297.7	Barite	MT	65	18	203.0
Pot Water	M3	53	28	301.0	Bentonite	MT	0	0	55.0
Fresh water	M3	0	0	0.0					

Supply Vessel													
Boats		Status		Bulks			Boats		Status		Bulks		
Lewek Swift	On Standby	Item	Unit	Quantity	Lewek Emerald	Portland	Item	Unit	Quantity				
		Fuel	m3	444.2			Fuel	m3	359.7				
		Pot Water	m3	480			Pot Water	m3	136				
		Drill Water	m3	0			Drill Water	m3	21				
		CEMENT G	mt	0			CEMENT G	mt	40				
		CEMENT HT (SILICA)	mt	88			CEMENT HT (SILICA)	mt	0				
		Barite	mt	15			Barite	mt	67				
		Bentonite	mt	8			Bentonite	mt	0				
BRINE	bbbs	0	BRINE	bbbs	0								

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	17:17 / 17:32	14 / 7	Time delay waiting on a 2nd Super Puma to replace 1st Super Puma which experienced technical problems.

Personnel On Board		Total : 100	
Company	Pax	Company	Pax
Diamond Offshore	51	MI Australia PTY LTD	2
ESS	7	Schlumberger DD	2
Woodside	11	Schlumberger MWD/LWD	3
BHI	6	Subsea 7	3
BJ Tubulars	3	Petrotech	2
Dowell Schlumberger	2	Schlumberger (Wireline)	7
Dril-Quip	1		

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	1	0	0	1	0	1	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	1	0	0	0	0	0	2	87	0	0
Well To Date	8	4	5	4	0	0	4	1137	1	2
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	8	4	5	4	0	0	4	1137	1	2
Year To Date	8	4	5	4	0	0	4	1137	1	2
Comments/ Findings	GSR Comp Checks 1 - Lifting Operation: Unloading cargo from the boat - compliant. Equipment rigged on the beach usually complaint although one instance noted in the last week of non-compliance on TPC equipment. Drills 2 - Fire & Abandon Drills held today at 10:30hrs. Number Observe Cards 87 - Safe/Unsafe: 64/23. (DODI - 47; ESS - 4; TPC - 26; WEL - 10).									

Leading Indicators										
	H&S INC/NM	Env NM								
24hr	0	0								
Well To Date	0	0								
Month To Date	0	0								
Year To Date	0	0								
Comments / Findings										

General Comments	
00:00 to 24:00 Hrs on 26 Oct 2009	
Operational Comments	Ditch Magnet Reading: 489 grams. (Section Total: 1349 grams). Hours on Jars: 17.8 hrs. (Well Total: 33.3hrs). CAR: 47/143 items closed (11 critical) Top Stop Cards: #1 - Found a cutter knife in uniforms that could cause laceration to hand. Removed it safely then proceeded to wash uniforms. #2 - Observed man running his hands along slings as they were being lifted away from the deck. Explained to him the dangers involved in doing this, which he admitted he had not considered. Non-compliance trends: General housekeeping, tools left on deck, minor PPE infringements. DODI Supervisor audits conducted: 2 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Aft Stbd anchor winch leaks grease into the banded area when used, pumped & disposed oily water out of banded area. Cleaned moonpool of excess hydraulic oil from levers and mopped same. Gaps in bunding have been filled by night welder.

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
24	100							269	93.4	17	5.9			2	0.69	288

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	13.00	TVD	2911.7m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	15.7	Progress	625.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	-2.7 (Ahead)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Well closed in for well control situation.				
RT-ML	524.5m	Planned Op	Continue to circulate well to kill mud.				

Cost Data	Daily Cost: \$750,875		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 10,230,917	\$ 21,500,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 13,413,203	\$ 27,000,000

Summary of Period 0000 to 2400 Hrs
 Drilled 12 1/4" hole from 2288m to 2912m. Flow checked well and closed in on kick. Weighed up kill mud to 12.5ppg. Commenced pumping kill mud to bit.

Operations For Period 0000 Hrs to 2400 Hrs on 27 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH1	DA	0000	2130	21.50	2912.0m	Drilled ahead 310mm (12 1/4") hole from 2288m to 2912m. WOB 13.6mt (30k), pump rate 3.4m3/min decreasing to 3.1m3/min due to pump pressure limitations (912gpm decreasing to 817gpm), pressure 29,300kPa (4250psi), rotary speed 150-170rpm, torque 6,750N-m - 13,500N-m (5k-10kft-lbs). Ran riser boost pump 20 minutes each stand to boost cuttings from riser.
NPT (DHWC)	IH1	DA	2130	2330	2.00	2912.0m	Added Sodium Thiocyanate tracer to mud from 2400m. Mud engineer advised that the well was not using the correct amount of fluid. 21:40 The well was flow checked and a gain of 0.6m3 (4 bbls) was seen in the trip tank over a period of 5 minutes. 21:50 The well was shut in. SIDPP showed 1650kPa (240psi). SICP showed initial pressure 1240kPa (180psi) and increasing. A pressure log was started. The TDS UIBOP was discovered to be closed. It was not functioning with actuator due to pressure differential across it. 22:46 IBOP manually opened. SIDPP 750psi. SICP stabilised at 760psi Prepared Kill mud while assessing situation
NPT (DHWC)	IH1	DA	2330	2400	0.50	2912.0m	23:40 Pumped 1.5sg (12.5ppg) kill mud down drill string. Returns lost shortly after start of pumping. Rig was unable to follow step down chart with choke closed as DP pressure was constantly below calculated expectations. 25.6m3 (161 BBLs) of 12.5ppg kill mud pumped surface to bit. With pumps shut off. SIDPP 275kPa (40psi), SICP 4900kPa (710psi)
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 28 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH2	DA	0000	0100	1.00	2912.0m	Pumped 1.5sg (12.5ppg) kill mud down drill string at 20spm. No mud returns observed while pumping. Rig was unable to follow step down chart with choke closed as DP pressure was constantly below calculated expectations. 25.6m3 (161 BBLs) of 1.5SG (12.5ppg) kill mud pumped surface to bit. (Total pumped 27.3m3 (172bbls) including 1.7m3 (11bbls) 1.44SG (12.0ppg) at start pumping. With pumps shut off. SIDPP 275kPa (40psi), Choke gauge 4800kPa (710psi). KLM Gauge 5100kPa (750psi)
NPT (DHWC)	IH2	DA	0100	0600	5.00	2912.0m	Monitored well pressures while Drilling team assessed situation and reviewed remedial options. 03:10 Bled DP to 0psi to confirm choke not plugged. OK

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

Survey

MD (m)	Incl. Deg. (deg)	Corr. Az. (deg)	TVD (m)	'V' Sect (m)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
2546.16	1.43	187.93	2545.97	-11.94	0.120	-11.94	11.20	
2604.71	1.39	183.80	2604.51	-13.37	0.060	-13.37	11.05	
2661.70	1.42	181.44	2661.48	-14.77	0.030	-14.77	10.99	
2691.87	1.34	179.60	2691.64	-15.49	0.090	-15.49	10.98	
2719.22	1.29	178.53	2718.98	-16.12	0.060	-16.12	10.99	
2748.22	1.23	176.46	2747.98	-16.76	0.080	-16.76	11.02	
2776.91	1.15	171.57	2776.66	-17.35	0.140	-17.35	11.08	
2806.83	1.07	178.32	2806.57	-17.93	0.150	-17.93	11.13	
2834.17	1.07	171.25	2833.91	-18.43	0.140	-18.43	11.18	
2863.33	1.15	160.56	2863.06	-18.98	0.230	-18.98	11.31	

Bit # 3

				Wear	I	O1	D	L	B	G	O2	R
Size:	12.250in	IADC#	M423	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Manf:	SMITH	WOB (avg)	26.00klb	No.	Size	Progress	625.0m	Cum. Progress		1629.0m		
Type:	PDC	RPM (avg)	165	10	12/32nd"	On Bottom Hrs	17.3h	Cum. On Btm Hrs		42.4h		
Serial No.:	JD0772	F. Rate	910.00gpm			IADC Drill Hrs	21.5h	Cum IADC Drill Hrs		54.0h		
Depth In	1284.0m	SPP	4200psi			Total Revs		Cum Total Revs		236000		
Depth Out		HSI	3.07HSI			ROP (avg)	36.13 m/hr	ROP (avg)		38.42 m/hr		
Bit Model	MDSi716	TFA	1.104in ²									

BHA # 3							
Weight Below Jar		Parameters					
BHA Weight	40.00klb	Rot Weight	330.00klb	Torque (max)	14000ft.lbs	D.P. Ann Velocity	54mpm
Bit to G.R Sensor Center	65.00klb	Pick-Up Weight	340.00klb	Torque Off Bottom (avg)	4800ft.lbs	D.C. (1) Ann Velocity	79mpm
Bit to Dir. Sensor Center	10.1m	Slack-Off Weight	330.00klb	Torque On Bottom (avg)	7500ft.lbs	D.C. (2) Ann Velocity	54mpm
	18.1m						

BHA Objective					
Equipment	Length	Cum. Length	OD	ID	Comment
Bit	0.33m	0.33 m	12.250in		w/ Ported Float
Near Bit Stab	2.56m	2.89 m	12.250in	2.875in	
Pony NMDC	2.90m	5.79 m	8.000in	2.188in	
Stabilizer	1.75m	7.54 m	12.250in	2.875in	
Saver Sub	0.38m	7.92 m	8.250in	3.000in	
ARC8	5.44m	13.36 m	9.000in	2.813in	
ILS	0.91m	14.27 m	12.125in	4.250in	
Telescope	7.68m	21.95 m	8.250in	5.938in	
Saver Sub	0.38m	22.33 m	8.250in	3.000in	
Stabilizer	0.98m	23.31 m	12.125in	3.000in	
Sonic 6	6.88m	30.19 m	9.063in	4.000in	
Saver Sub	0.32m	30.51 m	8.313in	4.250in	
ADN 8	6.37m	36.88 m	12.125in	3.250in	
Saver Sub	2.48m	39.36 m	9.125in	3.000in	
8in DC	54.68m	94.04 m	8.000in	2.750in	
Jars	9.75m	103.79 m	8.063in	3.000in	
8in DC	18.65m	122.44 m	8.500in	2.188in	
X/O	1.11m	123.55 m	8.250in	2.750in	
HWDP	142.17m	265.72 m	5.000in	3.000in	

WBM Data									
Mud Type:	Ultradril	API FL:	3.6cc/30min	Cl:	52000mg/l	Solids(%vol):	11.5%	Viscosity	72sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	89.0%	PV	21cp
Time:	10:00	HTHP-FL:	10.5cc/30min	Hard/Ca:	1000mg/l	Oil(%):	0.0%	YP	32lb/100ft²
Weight:	1.30sg	HTHP-cake:	2/32nd"	MBT:	3	Sand:	0.5	Gels 10s	6
Temp:	25C°	Glycol:		PM:		pH:	9.5	Gels 10m	8
				PF:	0.8	PHPA:		Fann 003	7
								Fann 006	9
Comment	Used 1MT bulk bags to mix 18% KCl brine in pit-1. Active mud properties very stable during drilling. Lots of big cuttings on scalper screens. 5 ppb calcium carbonate bridging agent (Circal 60/16 & Circal Y) added to active - all in by 2810 metres. Weighted system as required for well control. NPT (fluid related) - 0.							Fann 100	30
								Fann 200	43
								Fann 300	53
								Fann 600	74

WBM Data									
Mud Type:	Ultradril	API FL:	3.4cc/30min	Cl:	52000mg/l	Solids(%vol):	12.0%	Viscosity	75sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	88.0%	PV	21cp
Time:	20:00	HTHP-FL:	10.5cc/30min	Hard/Ca:	1000mg/l	Oil(%):	0.0%	YP	32lb/100ft²
Weight:	1.31sg	HTHP-cake:	2/32nd"	MBT:	3	Sand:	0.75	Gels 10s	7
Temp:	26C°	Glycol:		PM:		pH:	9	Gels 10m	11
				PF:	0.8	PHPA:		Fann 003	7
								Fann 006	9
Comment								Fann 100	30
								Fann 200	43
								Fann 300	53
								Fann 600	74

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	0	70	390.0
Fuel	M3	30	22.4	305.3	Barite	MT	0	58	145.0

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
Pot Water	M3	45	26	320.0	Bentonite	MT	0	0	55.0
Fresh water	M3	0	0	0.0					

Supply Vessel

Boats		Status	Bulks			Boats		Status	Bulks		
Boat Name	Status	Item	Unit	Quantity	Boat Name	Status	Item	Unit	Quantity		
Lewek Swift	On Standby	Fuel	m3	399	Lewek Emerald	In Portland	Fuel	m3	343.7		
		Pot Water	m3	476			Pot Water	m3	128		
		Drill Water	m3	511			Drill Water	m3	410		
		CEMENT G	mt	0			CEMENT G	mt	40		
		CEMENT HT (SILICA)	mt	88			CEMENT HT (SILICA)	mt	0		
		Barite	mt	15			Barite	mt	90		
		Bentonite	mt	8			Bentonite	mt	0		
		BRINE	bbls	0			BRINE	bbls	0		

Personnel On Board
Total : 100

Company	Pax	Company	Pax
Diamond Offshore	51	MI Australia PTY LTD	2
ESS	7	Schlumberger DD	2
Woodside	11	Schlumberger MWD/LWD	3
BHI	6	Subsea 7	3
BJ Tubulars	3	Petrotech	2
Dowell Schlumberger	2	Schlumberger (Wireline)	7
Dril-Quip	1		

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	1	0	0	1	0	1	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	1	0	0	0	0	92	0	0
Well To Date	8	4	6	4	0	0	4	1229	1	2
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	8	4	6	4	0	0	4	1229	1	2
Year To Date	8	4	6	4	0	0	4	1229	1	2
Comments/ Findings	PTW Audit 1 - Welding trip tank in the moonpool - compliant. Number Observe Cards 92 - Safe/Unsafe: 64/28 (DODI - 38; ESS - 12; TPC - 32; WEL - 10).									

Leading Indicators										
	H&S INC/NM	Env NM								
24hr	0	0								
Well To Date	0	0								
Month To Date	0	0								
Year To Date	0	0								
Comments / Findings										

General Comments	
00:00 to 24:00 Hrs on 27 Oct 2009	
Operational Comments	<p>Ditch Magnet Reading: 489 grams. (Section Total: 1349 grams). Hours on Jars: 17.3 hrs. (Well Total: 50.6hrs).</p> <p>CAR: 47/143 items closed (11 critical) Top Stop Cards: #1 - TPC walked onto pipe deck as containers were being landed. Sent him away. He returned a short time later. Told him to stay away until lifts completed, he complied. #2 - Observed person using incorrect device as a ladder. Stopped the job and obtained correct tool for the job. #3 - Noticed Trolley at Moon Pool had loose air tugger lines. Trolley could roll into slip joint and cause damage. Spoke to Toolpusher who got it sorted straight away.</p> <p>Non-compliance trends: General housekeeping, tools left on deck, minor PPE infringements. DODI Supervisor audits conducted: 2 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Conducted fuel watch while transferring fuel from the Lewek Swift. Cleaned moonpool of excess hydraulic oil from levers and mopped same.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
21.5	89.58	2.5	10.42					290.5	93.11	19.5	6.25			2	0.64	312

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rob Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	14.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	14.7	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	-0.7 (Ahead)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Monitor well pressures with well closed in.				
RT-ML	524.5m	Planned Op	Continue well kill operations. Open BOP and circulate well clean. POOH with drill string.				

Cost Data	Daily Cost: \$782,176		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 11,013,093	\$ 21,500,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 14,195,379	\$ 27,000,000

Summary of Period 0000 to 2400 Hrs

BOPs closed in on well kick. Initially commenced Weight and Wait control method, unsuccessful as well SICP at MAASP. Bullheaded 26.2m3 (165bbl) 1.5sg (12.5ppg) kill mud in increments into the well down the drill string. Established circulation and commenced displacing well to 1.5sg (12.5ppg) kill mud.

Operations For Period 0000 Hrs to 2400 Hrs on 28 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHC)	IH1	DA	0000	0100	1.00	2912.0m	Pumped 1.5sg (12.5ppg) kill mud down drill string at 20spm using Weight and Wait Method. No mud returns observed while pumping. Rig unable to follow step down chart. Drill pipe pressure below calculated expectations, SICP at MAASP. Commenced with 1.7m3 (11bbl) 1.44sg (12.0ppg), the followed with 25.6m3 (161bbl) of 1.5sg (12.5ppg) kill mud pumped from surface to bit. 27.3m3 (172bbl) total pumped. Shut in. SIDPP 275kPa (40psi). SICP 480kPa (710psi). KLM gauge 5100kPa (750psi) with 1.3sg (10.8ppg) mud in line.
NPT (DHC)	IH1	DA	0100	0600	5.00	2912.0m	Monitored well pressures while assessing situation and reviewed remedial options. 03:10 Bled Drill Pipe to 0kPa (0psi) to confirm choke not plugged. OK.
NPT (DHC)	IH1	DA	0600	0630	0.50	2912.0m	Lined up and pumped 2.3m3 (15bbl) of 1.5sg (12.5ppg) kill mud down choke line to lubricate annulus. 0.8m3/min (21gpm), 5900kPa (860psi) pump pressure.
NPT (DHC)	IH1	DA	0630	0730	1.00	2912.0m	Shut in. SICP 4000kPa (580psi), KLM 5030kPa (730psi), SIDPP 0kPa (0psi).
NPT (DHC)	IH1	DA	0730	0800	0.50	2912.0m	Bled back 0.6m3 (4bbl) 1.5sg (12.5ppg) mud from choke line. Shut in. Monitored pressures for 10 minutes. SICP 4300kPa (630psi). KLM 4600kPa (670psi). Bled back further 1.7m3 (11bbl) from choke. Shut in. Monitored pressures. SICP 4600kPa (670psi), KLM 5030kPa (730psi), SIDPP 0kPa (0psi).
NPT (DHC)	IH1	DA	0800	0900	1.00	2912.0m	Monitored pressures. SICP 4000kPa (580psi), KLM 5030kPa (730psi), SIDPP 0kPa (0psi).
NPT (DHC)	IH1	DA	0900	0930	0.50	2912.0m	Bullheaded 2.4m3 (15bbl) of 1.5sg (12.5ppg) kill mud down drill string at 0.2m3/min (54gpm). ICP 1650kPa (240psi), FCP 1100kPa (160psi). Shut in. Monitored static pressures. SICP 4450kPa (680psi), KLM 5030kPa (730psi), SIDPP 0kPa (0psi).
NPT (DHC)	IH1	DA	0930	1100	1.50	2912.0m	Bullheaded 4m3 (25bbl) of 1.5sg (12.5ppg) kill mud down drill string at 0.2m3/min (54gpm). ICP 410kPa (60psi), FCP 1380kPa (200psi). Shut in. Monitored static pressures. SICP 4450kPa (650psi), KLM 5100kPa (740psi), SIDPP 0kPa (0psi).
NPT (DHC)	IH1	DA	1100	1130	0.50	2912.0m	Bullheaded 4m3 (25bbl) of 1.5sg (12.5ppg) kill mud down drill string at 0.2m3/min (54gpm). ICP 890kPa (130psi), FCP 1030kPa (150psi). Shut in. Monitored static pressures. SICP 4300kPa (630psi), KLM 4800kPa (700psi), SIDPP 0kPa (0psi).
NPT (DHC)	IH1	DA	1130	1230	1.00	2912.0m	Bullheaded 4m3 (25bbl) of 1.5sg (12.5ppg) kill mud down drill string at 0.2m3/min (54gpm). ICP 1100kPa (160psi), FCP 1200kPa (180psi). Shut in. Monitored static pressures. SICP 4200kPa (620psi), KLM 4800kPa (700psi), SIDPP 0kPa (0psi).

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	DA	1230	1330	1.00	2912.0m	Bullheaded 4m3 (25bbl) of 1.5sg (12.5ppg) kill mud down drill string at 0.2m3/min (54gpm). ICP 1240kPa (210psi), FCP 2350kPa (240psi). Shut in. Monitored static pressures. SICP 4100kPa (610psi), KLM 5300kPa (660psi), SIDPP 0kPa (0psi).
NPT (DHWC)	IH1	DA	1330	1600	2.50	2912.0m	Bullheaded 4m3 (25bbl) of 1.5sg (12.5ppg) kill mud down drill string at 0.2m3/min (54gpm). ICP 410kPa (300psi), FCP 1030kPa (320psi). Shut in. Monitored static pressures. SICP 4600kPa (600psi), KLM 5300kPa (660psi), SIDPP 0kPa (0psi).
NPT (DHWC)	IH1	DA	1600	1630	0.50	2912.0m	Prepared surface equipment to circulate kill mud. Held pre job JSA on Drill Floor
NPT (DHWC)	IH1	DA	1630	1830	2.00	2912.0m	Commenced pumping 1.5sg (12.5ppg) kill mud down drill string at 2.3m3/min (54gpm) returns via choke and atmospheric degasser.
NPT (DHWC)	IH1	DA	1830	2400	5.50	2912.0m	Commenced pumping while maintaining constant BHP. ICP (350psi). Diverted returns to slug pit to accurately monitor return volumes, then active pit 3 once 100% returns established. Shut in well after 187bbl pumped.
NPT (DHWC)	IH1	DA	1830	2400	5.50	2912.0m	Established circulation with 1.5sg (12.5ppg) kill mud down drill string holding BHP constant. New ICP at 0.2m3/min (54gpm) 3100kPa (450psi). Volume pumped up to midnight 100m3 (631bbl). 9.6m3 (61bbl) of mud/brine contaminated returns diverted to slug pit and operationally discharged.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 29 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	DA	0000	0530	5.50	2912.0m	Continued circulating 1.5sg (12.5ppg) kill weight mud at 556 L/min (1.3 bpm) down the drill string and through the choke. Total displacement of 70m3 (440bbbls) of 1.5sg (12.5ppg) kill weight mud since midnight. SIDPP = 2965 kPa (430psi); SICP = 2205 kPa (320psi); KLM = 3100 kPa (450psi).
NPT (DHWC)	IH1	DA	0530	0600	0.50	2912.0m	(IN PROGRESS) Bled off pressure from well. SIDPP 275 kPa (40psi). SICP = 760kPa (110psi); KLM = 2480 kPa (360psi). Shut in and monitored pressures. Pressure increased; SIDPP 2413 kPa (350psi); SICP to 3450 kPa (500psi); KLM to 4480 kPa (650psi).
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

Bit # 3

				Wear	I	O1	D	L	B	G	O2	R
Size:	12.250in	IADC#	M423	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Manf:	SMITH	WOB (avg)		No.	Size	Progress	0.0m	Cum. Progress	1629.0m			
Type:	PDC	RPM (avg)		10	12/32nd"	On Bottom Hrs	0.0h	Cum. On Btm Hrs	42.4h			
Serial No.:	JD0772	F. Rate	55.00gpm			IADC Drill Hrs	24.0h	Cum IADC Drill Hrs	78.0h			
Depth In	1284.0m	SPP				Total Revs		Cum Total Revs	236000			
Depth Out		HSI	0.00HSI			ROP (avg)	N/A	ROP (avg)	38.42 m/hr			
Bit Model	MDSi716	TFA	1.104in ²									

BHA # 3							
Weight Below Jar		Parameters					
40.00klb	BHA Weight	65.00klb	Rot Weight	265.00klb	Torque (max)	D.P. Ann Velocity	0mpm
10.1m	Bit to G.R Sensor Center	10.1m	Pick-Up Weight	265.00klb	Torque Off Bottom (avg)	D.C. (1) Ann Velocity	0mpm
18.1m	Bit to Dir. Sensor Center	18.1m	Slack-Off Weight	260.00klb	Torque On Bottom (avg)	D.C. (2) Ann Velocity	0mpm

BHA Objective					
Equipment	Length	Cum. Length	OD	ID	Comment
Bit	0.33m	0.33 m	12.250in		w/ Ported Float
Near Bit Stab	2.56m	2.89 m	12.250in	2.875in	
Pony NMDC	2.90m	5.79 m	8.000in	2.188in	
Stabilizer	1.75m	7.54 m	12.250in	2.875in	
Saver Sub	0.38m	7.92 m	8.250in	3.000in	
ARC8	5.44m	13.36 m	9.000in	2.813in	
ILS	0.91m	14.27 m	12.125in	4.250in	
Telescope	7.68m	21.95 m	8.250in	5.938in	
Saver Sub	0.38m	22.33 m	8.250in	3.000in	
Stabilizer	0.98m	23.31 m	12.125in	3.000in	
Sonic 6	6.88m	30.19 m	9.063in	4.000in	
Saver Sub	0.32m	30.51 m	8.313in	4.250in	
ADN 8	6.37m	36.88 m	12.125in	3.250in	
Saver Sub	2.48m	39.36 m	9.125in	3.000in	
8in DC	54.68m	94.04 m	8.000in	2.750in	
Jars	9.75m	103.79 m	8.063in	3.000in	
8in DC	18.65m	122.44 m	8.500in	2.188in	
X/O	1.11m	123.55 m	8.250in	2.750in	
HWDP	142.17m	265.72 m	5.000in	3.000in	

WBM Data									
Mud Type:	Ultradril	API FL:	3.8cc/30min	Cl:	50000mg/l	Solids(%vol):	17.0%	Viscosity	85sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	83.0%	PV	25cp
Time:	07:30	HTHP-FL:		Hard/Ca:	1050mg/l	Oil(%):	0.0%	YP	33lb/100ft ²
Weight:	1.50sg	HTHP-cake:		MBT:	3	Sand:	0.5	Gels 10s	7
Temp:		Glycol:		PM:		pH:	9	Gels 10m	9
				PF:	0.4	PHPA:		Fann 003	7
Comment	Maintained volumes and densities as required for well control operations.							Fann 006	9
								Fann 100	33
								Fann 200	47
								Fann 300	58
								Fann 600	83

WBM Data									
Mud Type:	Ultradril	API FL:	4.0cc/30min	Cl:	52000mg/l	Solids(%vol):	17.0%	Viscosity	83sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	9%	H2O:	83.0%	PV	24cp
Time:	22:00	HTHP-FL:	11.0cc/30min	Hard/Ca:	1000mg/l	Oil(%):	0.0%	YP	34lb/100ft ²
Weight:	1.50sg	HTHP-cake:	2/32nd"	MBT:	3	Sand:	0.5	Gels 10s	7
Temp:	49C°	Glycol:		PM:		pH:	9.2	Gels 10m	9
				PF:	0.45	PHPA:		Fann 003	7
Comment								Fann 006	9
								Fann 100	32
								Fann 200	47
								Fann 300	58
								Fann 600	82

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	0	7	383.0
Fuel	M3	0	18.4	286.9	Barite	MT	0	42	103.0

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
Pot Water	M3	34	26	328.0	Bentonite	MT	0	0	55.0
Fresh water	M3	0	0	0.0					

Supply Vessel

Boats		Status	Bulks			Boats		Status	Bulks		
Boat Name	Status		Item	Unit	Quantity	Boat Name	Status	Item	Unit	Quantity	
Lewek Swift	In Portland		Fuel	m3	381.7	Lewek Emerald	On Standby	Fuel	m3	332.7	
		Pot Water	m3	472	Pot Water			m3	120		
		Drill Water	m3	511	Drill Water			m3	410		
		CEMENT G	mt	0	CEMENT G			mt	40		
		CEMENT HT (SILICA)	mt	88	CEMENT HT (SILICA)			mt	0		
		Barite	mt	15	Barite			mt	90		
		Bentonite	mt	8	Bentonite			mt	0		
		BRINE	bbls	0	BRINE			bbls	0		

Personnel On Board
Total : 97

Company	Pax	Company	Pax
Diamond Offshore	50	MI Australia PTY LTD	2
ESS	8	Schlumberger DD	2
Woodside	8	Schlumberger MWD/LWD	3
BHI	6	Subsea 7	3
BJ Tubulars	3	Petrotech	2
Dowell Schlumberger	2	Schlumberger (Wireline)	7
Dril-Quip	1		

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	1	0	0	1	0	1	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	91	0	1
Well To Date	8	4	6	4	0	1	4	1320	1	3
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	8	4	6	4	0	1	4	1320	1	3
Year To Date	8	4	6	4	0	1	4	1320	1	3
Comments/ Findings	Number Observe Cards 91 - Safe/Unsafe: 67/24 (DODI - 40; ESS - 5; TPC - 39; WEL - 7). Env Insp Check 1 - D&C Environmental Engineer conducted an inspection of the rig and recorded progress against initial visit and inspection conducted while on tow.									

Leading Indicators										
	H&S INC/NM	Env NM								
24hr	0	0								
Well To Date	0	0								
Month To Date	0	0								
Year To Date	0	0								
Comments / Findings										

General Comments	
00:00 to 24:00 Hrs on 28 Oct 2009	
Operational Comments	<p>Ditch Magnet Reading: 0 grams. (Section Total: 1349 grams). Hours on Jars: 0 hrs. (Well Total: 50.6hrs).</p> <p>CAR: 86/143 items closed (13 critical) Top Stop Cards: #1 - Observed the bunding at the stbd. bulk loading area is a potential trip hazard. It needs to be high-lighted in yellow to make people aware. Observed the hose to the rubbish compactor jutting out. Has become a potential trip hazard. Informed the Motorman, and requested he make the area safe. Informed galley staff to take care when around the compactor.</p> <p>Non-compliance trends: Items left in clothing pockets at the Laundry. General housekeeping, tools left on deck, minor PPE infringements. DODI Supervisor audits conducted: 1 DODI Interventions conducted: 3 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Cleaned excess hydraulic oil from anchor machine rooms and levers in moonpool. Conducted oil watch duties around the rig.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
		24	100					290.5	86.46	43.5	12.95			2	0.6	336

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rob Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	15.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	14.7	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 0.3 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Circulating well with 1.5 sg (12.5 ppg) kill weight fluid.				
RT-ML	524.5m	Planned Op	Continue well control operations.				

Cost Data	Daily Cost: \$739,015		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 11,752,108	\$ 21,500,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 14,934,394	\$ 27,000,000

Summary of Period 0000 to 2400 Hrs
Shut in well and monitored pressures. Bled off 6.3m3 (40bbl) in two increments. Shut in and observed pressures return. Commenced circulating well.

Operations For Period 0000 Hrs to 2400 Hrs on 29 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	DA	0000	0530	5.50	2912.0m	Continued circulating 1.5sg (12.5ppg) kill weight mud at 556 L/min (1.3 bpm) down the drill string and through the choke. Total displacement of 70m3 (440bbls) of 1.5sg (12.5ppg) kill weight mud since midnight. SIDPP = 2965 kPa (430psi); SICP = 2205 kPa (320psi); KLM = 3100 kPa (450psi).
NPT (DHWC)	IH1	DA	0530	0700	1.50	2912.0m	Bled off pressure from well. SIDPP 275 kPa (40psi). SICP = 760kPa (110psi); KLM = 2480 kPa (360psi). Shut in and monitored pressures. Pressure increased; SIDPP 2413 kPa (350psi); SICP to 3450 kPa (500psi); KLM to 4480 kPa (650psi).
NPT (DHWC)	IH1	DA	0700	1000	3.00	2912.0m	Bled off pressure from well. Reduced drill pipe pressure by 205 kPa (30psi) via choke. Shut in and monitored pressures. SIDPP increased from 2068 kPa (300psi) to 2895 kPa (420psi); SICP increased from 3240 kPa (470psi) to 3930 kPa (570psi); KLM increased from 4205 kPa (610psi) to 4965 (720psi).
NPT (DHWC)	IH1	DA	1000	1330	3.50	2912.0m	Bled off 3.2m3 (20bbls) through choke. Shut in and monitored pressures. SIDPP increased from 825 kPa (120psi) to 2068 kPa (300psi). SICP increased from 2480 kPa (360psi) to 3450 kPa (500psi). KLM increased from 3380 kPa (490psi) to 4410 kPa (640psi).
NPT (DHWC)	IH1	DA	1330	1530	2.00	2912.0m	Held pre-job meeting. Bled off another 3.2m3 (20 bbls) through choke. Shut in and monitored pressures. SIDPP decreased from 2345 kPa (340psi) to 1100 kPa (160psi). SICP decreased from 3725 kPa (540psi) to 3450 kPa (500psi). KLM pressure decreased from 4690 kPa (680psi) to 4345 kPa (630psi).
NPT (DHWC)	IH1	DA	1530	1630	1.00	2912.0m	Shut in choke and monitored pressure build up.
NPT (DHWC)	IH1	DA	1630	2400	7.50	2912.0m	Circulated 1.5sg (12.5ppg) mud down drill string and through choke. Initial pressures: SIDP = 1930 kPa (280psi); SICP = 3585 kPa (520psi) and KLM = 4690 kPa (680psi). Total pumped 134m3 (835bbls).
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 30 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	DA	0000	0100	1.00	2912.0m	Continued circulating 1.5sg (12.5ppg) kill weight mud down drill string and through choke at 318 L/min (2 bpm). DP = 3975 kPa (1050 psi) and CP = 1862 kPa (270psi). Pumped 10m3 (64bbls) of containment mud/seawater to slug pit & dumped same.
NPT (DHWC)	IH1	DA	0100	0230	1.50	2912.0m	Increased pump rate to 477 L/min (3 bpm) down drill string. DP = 317kPa (1940psi); CP = 1792 kPa (260psi); KLM = 3585 kPa (520psi). Suspected plugged nozzles.
NPT (DHWC)	IH1	DA	0230	0400	1.50	2912.0m	Increased pump rate to 556 L/min (3.5 bpm) down drill string. DP = 17.2MPa (2500psi); CP = 1100kPa (160psi); KLM = 2965kPa (430psi). Total volume pumped 252m3 (1,574 bbls).
NPT	IH1	DA	0400	0600	2.00	2912.0m	(IN PROGRESS) Shut in well and monitored pressures. SIDPP increased from 2068 kPa

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
(DHC)							(300psi) to 2413 kPa (350psi). SICP constant at 2413 kPa (350psi). KLM increased from 2965 kPa (430psi) to 3585 kPa (520psi). (Weighted up active pit to 1.58sg (13.2ppg)).
Total Duration					6		

Casing									
OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner	
30 "	569.44	569.44			310.0	X56			
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC			

Bit # 3				Wear	I	O1	D	L	B	G	O2	R
Size:	12.250in	IADC#	M423	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Manf:	SMITH	WOB (avg)		No.	Size	Progress	0.0m	Cum. Progress		1629.0m		
Type:	PDC	RPM (avg)		10	12/32nd"	On Bottom Hrs	0.0h	Cum. On Btm Hrs		42.4h		
Serial No.:	JD0772	F. Rate	85.00gpm			IADC Drill Hrs	24.0h	Cum IADC Drill Hrs		102.0h		
Depth In	1284.0m	SPP				Total Revs		Cum Total Revs		236000		
Depth Out		HSI	0.00HSI			ROP (avg)	N/A	ROP (avg)		38.42 m/hr		
Bit Model	MDSi716	TFA	1.104in ²									

BHA # 3						
Weight Below Jar		40.00klb	Parameters			
BHA Weight	65.00klb	Rot Weight	330.00klb	Torque (max)	D.P. Ann Velocity	0mpm
Bit to G.R Sensor Center	10.1m	Pick-Up Weight	340.00klb	Torque Off Bottom (avg)	D.C. (1) Ann Velocity	0mpm
Bit to Dir. Sensor Center	18.1m	Slack-Off Weight	330.00klb	Torque On Bottom (avg)	D.C. (2) Ann Velocity	0mpm

BHA Objective					
Equipment	Length	Cum. Length	OD	ID	Comment
Bit	0.33m	0.33 m	12.250in		w/ Ported Float
Near Bit Stab	2.56m	2.89 m	12.250in	2.875in	
Pony NMDC	2.90m	5.79 m	8.000in	2.188in	
Stabilizer	1.75m	7.54 m	12.250in	2.875in	
Saver Sub	0.38m	7.92 m	8.250in	3.000in	
ARC8	5.44m	13.36 m	9.000in	2.813in	
ILS	0.91m	14.27 m	12.125in	4.250in	
Telescope	7.68m	21.95 m	8.250in	5.938in	
Saver Sub	0.38m	22.33 m	8.250in	3.000in	
Stabilizer	0.98m	23.31 m	12.125in	3.000in	
Sonic 6	6.88m	30.19 m	9.063in	4.000in	
Saver Sub	0.32m	30.51 m	8.313in	4.250in	
ADN 8	6.37m	36.88 m	12.125in	3.250in	
Saver Sub	2.48m	39.36 m	9.125in	3.000in	
8in DC	54.68m	94.04 m	8.000in	2.750in	
Jars	9.75m	103.79 m	8.063in	3.000in	
8in DC	18.65m	122.44 m	8.500in	2.188in	
X/O	1.11m	123.55 m	8.250in	2.750in	
HWDP	142.17m	265.72 m	5.000in	3.000in	

WBM Data									
Mud Type:	Ultradril	API FL:	4.0cc/30min	Cl:	42500mg/l	Solids(%vol):	17.0%	Viscosity	72sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	7%	H2O:	83.0%	PV	24cp
Time:	10:00	HTHP-FL:		Hard/Ca:	1200mg/l	Oil(%):	0.0%	YP	39lb/100ft²
Weight:	1.50sg	HTHP-cake:		MBT:	3	Sand:	0.5	Gels 10s	9
Temp:		Glycol:		PM:		pH:	7.5	Gels 10m	11
				PF:	0	PHPA:		Fann 003	9
								Fann 006	11
Comment	Had returns cut to 1.24 sg for 10mins from bottoms up. Corresponded with CO2 gas peak. Took on additional barite from L.Emerald while shut in. On second circulation took filtrate samples every 1/2 hour. Checked chlorides, pH and tracer concentration. Bottoms up again water cut with corresponding CO2 gas peak.							Fann 100	39
								Fann 200	55
								Fann 300	63
								Fann 600	87

WBM Data									
Mud Type:	Ultradril	API FL:	3.6cc/30min	Cl:	47000mg/l	Solids(%vol):	17.0%	Viscosity	65sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	8%	H2O:	83.0%	PV	24cp
Time:	21:00	HTHP-FL:		Hard/Ca:	1200mg/l	Oil(%):	0.0%	YP	36lb/100ft²
Weight:	1.50sg	HTHP-cake:		MBT:	3	Sand:	0.5	Gels 10s	8
Temp:		Glycol:		PM:		pH:	8.2	Gels 10m	10
				PF:	0	PHPA:		Fann 003	8
								Fann 006	10
Comment								Fann 100	37
								Fann 200	53
								Fann 300	60
								Fann 600	84

Bulk Stock										
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance	
'G' Cmt	MT	0	0	57.0	Drill Water	M3	0	17	366.0	
Fuel	M3	0	8.7	278.2	Barite	MT	86	62	127.0	
Pot Water	M3	38	27	339.0	Bentonite	MT	0	0	55.0	
Fresh water	M3	0	0	0.0						

Supply Vessel											
Boats		Status	Bulks			Boats		Status	Bulks		
Lewek Swift	On Standby		Item	Unit	Quantity	Lewek Emerald	On Standby		Item	Unit	Quantity
			Fuel	m3	682.8				Fuel	m3	323.7
			Pot Water	m3	485				Pot Water	m3	112
			Drill Water	m3	511				Drill Water	m3	410
			CEMENT G	mt	0				CEMENT G	mt	40
			CEMENT HT (SILICA)	mt	88				CEMENT HT (SILICA)	mt	0
			Barite	mt	105				Barite	mt	0
			Bentonite	mt	8				Bentonite	mt	0
			BRINE	bbbls	0				BRINE	bbbls	0

Personnel On Board				Total : 97	
Company		Pax	Company		Pax
Diamond Offshore		50	MI Australia PTY LTD		2
ESS		8	Schlumberger DD		2
Woodside		8	Schlumberger MWD/LWD		3
BHI		6	Subsea 7		3
BJ Tubulars		3	Petrotech		2
Dowell Schlumberger		2	Schlumberger (Wireline)		7
Dril-Quip		1			

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	1	0	0	1	0	1	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	1	0	1	0	0	0	0	93	0	0
Well To Date	9	4	7	4	0	1	4	1413	1	3
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	9	4	7	4	0	1	4	1413	1	3
Year To Date	9	4	7	4	0	1	4	1413	1	3
Comments/ Findings	GSR Comp Checks 1 - Electrical isolation: local isolation of AC motor to check cooling fan - compliant. PTW Audit 1 - Routine check of AC motor cooling fan requiring a local isolation in the engine room - compliant. Number Observe Cards 93 - Safe/Unsafe: 71/22 (DODI - 36; ESS - 13; TPC - 37; WEL - 7)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 29 Oct 2009	
Operational Comments	Ditch Magnet Reading: 0 grams. (Section Total: 1349 grams). Hours on Jars: 0 hrs. (Well Total: 74.6hrs). CAR: 86/143 items closed (13 critical) Top Stop Cards: #1 - Observed person using stairwell without using handrail. Stopped and advised person of dangers. He concurred. #2 - Saw a man about to walk downstairs with a load in both hands. Stopped him so he would have one hand free for holding the handrail. Non-compliance trends: Items left in clothing pockets at the Laundry. Hands not on handrails. Laundry door continually tied open, explained to the laundry personnel this is a fire door that needs to be closed. DODI Supervisor audits conducted: 4 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Cleaned excess hydraulic oil from anchor machine rooms and levers in moonpool.

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
		24	100					290.5	80.69	67.5	18.75			2	0.56	360

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	16.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	14.7	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 1.3 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Opened well on choke side. Minimal volume returned. Commenced displacing riser to 1.58sg (13.2ppg) kill weight mud.				
RT-ML	524.5m	Planned Op	Complete riser displacement. Lubricate fluids under annular BOP. Open BOPs and circulate hole clean.				

Cost Data	Daily Cost: \$739,015		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 12,491,123	\$ 21,500,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 15,673,409	\$ 27,000,000

Summary of Period 0000 to 2400 Hrs
 Completed circulating well to 1.5sg (12.5ppg) kill weight mud. Shut in choke and monitored pressures. Circulated well to 1.58sg (13.2ppg) kill weight mud. Shut in choke and monitored pressures.

Operations For Period 0000 Hrs to 2400 Hrs on 30 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	DA	0000	0100	1.00	2912.0m	Continued circulating 1.5sg (12.5ppg) kill weight mud down drill string and through choke at 318 L/min (2 bpm). DP = 3975 kPa (1050 psi) and CP = 1862 kPa (270psi). Pumped 10m3 (64bbls) of containment mud/seawater to slug pit & dumped same.
NPT (DHWC)	IH1	DA	0100	0230	1.50	2912.0m	Increased pump rate to 477 L/min (3 bpm) down drill string. DP = 317kPa (1940psi); CP = 1792 kPa (260psi); KLM = 3585 kPa (520psi). Suspected plugged nozzles.
NPT (DHWC)	IH1	DA	0230	0400	1.50	2912.0m	Increased pump rate to 556 L/min (3.5 bpm) down drill string. DP = 17.2MPa (2500psi); CP = 1100kPa (160psi); KLM = 2965kPa (430psi). Total volume pumped 252m3 (1,574 bbls).
NPT (DHWC)	IH1	DA	0400	0630	2.50	2912.0m	Shut in well and monitored pressures. SIDPP increased from 2068 kPa (300psi) to 2413 kPa (350psi). SICP constant at 2413 kPa (350psi). KLM increased from 2965 kPa (430psi) to 3585 kPa (520psi). (Weighted up active pit to 1.58sg (13.2ppg)).
NPT (DHWC)	IH1	DA	0630	1500	8.50	2912.0m	Commenced circulating 1.58sg (13.2ppg) kill weight mud at 397 L/min (2.5 bpm) down drill string and through choke. ICP = 11.1 MPa (1610psi). FCP = 9.3 MPa (1360psi); CP = 275 kPa (40psi); KLM = 1930 kPa (280psi). Reduced pump rate to 238 L/min (1.5 bpm) to complete circulation. Total volume pumped = 196.6m3 (1229bbls).
NPT (DHWC)	IH1	DA	1500	2400	9.00	2912.0m	Shut well in and monitored pressures. SIDPP = 620 kPa (90psi); SICP = 485 kPa (70psi); KLM = 2068 kPa (300psi). Pressures increased to SIDPP = 2068 kPa (300psi); SICP = 1585kPa (230psi); KLM = 3240kPa (470psi).
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 31 Oct 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	DA	0000	0300	3.00	2912.0m	Attempted to bleed 7.9m3 (50bbls) from choke. Total volume returned 6.4bbls at 2.6bbls/hr. Shut in choke and monitored pressures, SIDPP 550kPa (80psi), SICP 205kPa (30psi), KLM 1790kPa (260psi). Lined up to displace riser to 1.58sg (13.2ppg) mud.
NPT (DHWC)	IH1	DA	0300	0600	3.00	2912.0m	(IN PROGRESS) Displaced riser to 1.58sg (13.2ppg) mud at 1600L/min (10bpm), 1380kPa (200psi). Continued to monitor well pressures, SIDPP 1930kPa (280psi), SICP 1515kPa (220psi), KLM 3240kPa (470psi).
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

Bit # 3

	Wear	I	O1	D	L	B	G	O2	R
--	------	---	----	---	---	---	---	----	---

Size:	12.250in	IADC#	M423	Nozzles	Drilled over last 24 hrs	Calculated over Bit Run		
Manf:	SMITH	WOB (avg)		No. Size	Progress	0.0m	Cum. Progress	1629.0m
Type:	PDC	RPM (avg)		10 12/32nd"	On Bottom Hrs	0.0h	Cum. On Btm Hrs	42.4h
Serial No.:	JD0772	F. Rate	85.00gpm		IADC Drill Hrs	12.0h	Cum IADC Drill Hrs	114.0h
Depth In	1284.0m	SPP			Total Revs		Cum Total Revs	236000
Depth Out		HSI	0.00HSI		ROP (avg)	N/A	ROP (avg)	38.42 m/hr
Bit Model	MDSi716	TFA	1.104in ²					

BHA # 3

Weight Below Jar	40.00klb	Parameters					
BHA Weight	65.00klb	Rot Weight	330.00klb	Torque (max)		D.P. Ann Velocity	0mpm
Bit to G.R Sensor Center	10.1m	Pick-Up Weight	340.00klb	Torque Off Bottom (avg)		D.C. (1) Ann Velocity	0mpm
Bit to Dir. Sensor Center	18.1m	Slack-Off Weight	330.00klb	Torque On Bottom (avg)		D.C. (2) Ann Velocity	0mpm

BHA Objective

Equipment	Length	Cum. Length	OD	ID	Comment
Bit	0.33m	0.33 m	12.250in		w/ Ported Float
Near Bit Stab	2.56m	2.89 m	12.250in	2.875in	
Pony NMDC	2.90m	5.79 m	8.000in	2.188in	
Stabilizer	1.75m	7.54 m	12.250in	2.875in	
Saver Sub	0.38m	7.92 m	8.250in	3.000in	
ARC8	5.44m	13.36 m	9.000in	2.813in	
ILS	0.91m	14.27 m	12.125in	4.250in	
Telescope	7.68m	21.95 m	8.250in	5.938in	
Saver Sub	0.38m	22.33 m	8.250in	3.000in	
Stabilizer	0.98m	23.31 m	12.125in	3.000in	
Sonic 6	6.88m	30.19 m	9.063in	4.000in	
Saver Sub	0.32m	30.51 m	8.313in	4.250in	
ADN 8	6.37m	36.88 m	12.125in	3.250in	
Saver Sub	2.48m	39.36 m	9.125in	3.000in	
8in DC	54.68m	94.04 m	8.000in	2.750in	
Jars	9.75m	103.79 m	8.063in	3.000in	
8in DC	18.65m	122.44 m	8.500in	2.188in	
X/O	1.11m	123.55 m	8.250in	2.750in	
HWDP	142.17m	265.72 m	5.000in	3.000in	

WBM Data									
Mud Type:	Ultradril	API FL:	3.8cc/30min	Cl:	42000mg/l	Solids(%vol):	17.0%	Viscosity	62sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	7%	H2O:	83.0%	PV	23cp
Time:	03:00	HTHP-FL:	12.0cc/30min	Hard/Ca:	900mg/l	Oil(%):	0.0%	YP	34lb/100ft²
Weight:	1.50sg	HTHP-cake:	2/32nd"	MBT:	3	Sand:	0.5	Gels 10s	7
Temp:		Glycol:		PM:		pH:	8.5	Gels 10m	9
				PF:	0.15	PHPA:		Fann 003	8
								Fann 006	10
								Fann 100	32
								Fann 200	47
								Fann 300	57
								Fann 600	80
Comment Returns of 1.50 sg circulation. Monitored for density, chlorides, pH and tracer. Btms up was water cut to 1.11 sg. Operationally discharged 67 bbls. Max return wt of 1.475 sg still indicated minor water cut. On second circulation began getting back uncut 1.50 sg mud from 10:00 am. Weighted up reserve pit to 1.58 sg in anticipation of riser displacement. Received Barite from Lewek Swift (50 MT) QC check : pass. NPT (fluid related) - 0.									

WBM Data									
Mud Type:	Ultradril	API FL:	4.0cc/30min	Cl:	45000mg/l	Solids(%vol):	19.5%	Viscosity	63sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	7%	H2O:	81.0%	PV	24cp
Time:	22:00	HTHP-FL:	13.0cc/30min	Hard/Ca:	880mg/l	Oil(%):	0.0%	YP	38lb/100ft²
Weight:	1.58sg	HTHP-cake:	2/32nd"	MBT:	3	Sand:	0.5	Gels 10s	9
Temp:		Glycol:		PM:		pH:	9	Gels 10m	10
				PF:	0.2	PHPA:		Fann 003	8
								Fann 006	10
								Fann 100	36
								Fann 200	52
								Fann 300	62
								Fann 600	86
Comment									

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	0	12	354.0
Fuel	M3	0	17.3	260.9	Barite	MT	50	60	117.0
Pot Water	M3	38	27	350.0	Bentonite	MT	0	0	55.0
Fresh water	M3	0	0	0.0					

Supply Vessel															
Boats		Status			Bulks			Boats		Status			Bulks		
Lewek Swift	On Standby	Item	Unit	Quantity	Lewek Emerald	In Portland	Item	Unit	Quantity						
		Fuel	m3	668.9			Fuel	m3	311.7						
Pot Water	m3	481	Pot Water	m3	104										
Drill Water	m3	511	Drill Water	m3	410										
CEMENT G	mt	0	CEMENT G	mt	40										
CEMENT HT (SILICA)	mt	88	CEMENT HT (SILICA)	mt	0										
Barite	mt	55	Barite	mt	0										
Bentonite	mt	8	Bentonite	mt	0										
BRINE	bbls	0	BRINE	bbls	0										

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	17:42 / 17:53	6 / 6	

Personnel On Board			Total : 97
Company	Pax	Company	Pax
Diamond Offshore	53	MI Australia PTY LTD	2
ESS	8	Schlumberger DD	2
Woodside	7	Schlumberger MWD/LWD	3
BHI	6	Subsea 7	3
BJ Tubulars	5	Petrotech	2
Dowell Schlumberger	2	Schlumberger (Wireline)	3
Dril-Quip	1		

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	1	0	0	1	0	1	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	1	0	1	0	1	0	0	94	0	0
Well To Date	10	4	8	4	1	1	4	1507	1	3
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	10	4	8	4	1	1	4	1507	1	3
Year To Date	10	4	8	4	1	1	4	1507	1	3
Comments/ Findings	GSR Comp Checks 1 - Permit to Work audit conducted on replacement of hydraulic oil in Port Crane - compliant. PTW Audit 1 - Mixing caustic in pit room - compliant. 3rd Party Company Check 1 - Shlumberger (Wireline) - Documentation, certification, PPE, electrical, emergency response and housekeeping all satisfied to a good standard. Noted that escape door obstructed by rig substructure. Number Observe Cards 94 - Safe/Unsafe: 73/21 (DODI - 46; ESS - 12; TPC - 29; WEL - 7)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 30 Oct 2009	
Operational Comments	Ditch Magnet Reading: 0 grams. (Section Total: 1349 grams). Hours on Jars: 0 hrs. (Well Total: 98.6hrs). CAR: 86/143 items closed (13 critical) Top Stop Cards: #1 - Overalls caught on a sharp, protruding edge of a nail-plate on a pallet corner. Hammered it straight. #2 - Found electrical cable tray hanging down outside Rm 318 window. It appears this cable tray has corroded and broken away from supports. This should be repaired so it does not fall to the sea. Discussed with the Electrician who will repair it. Non-compliance trends: Whip-checks and safety pins still missing from crows foot connections. DODI Supervisor audits conducted: 2 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Cleaned excess hydraulic oil from anchor machine rooms and levers in moonpool. Assisted Subsea personnel cleaning excess grease from top of BOP carrier. Conducted bubble watch.

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
		24	100					290.5	75.65	91.5	23.83			2	0.52	384

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	17.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	14.5	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 1.5 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Circulating hole to 1.7sg (14.2ppg) mud.				
RT-ML	524.5m	Planned Op	Complete circulating hole to 1.7sg (14.2ppg) mud. Flow check well. Pump out of hole to shoe and flow check again.				

Cost Data	Daily Cost: \$739,015		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 13,230,138	\$ 21,900,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 16,412,424	\$ 27,400,000

Summary of Period 0000 to 2400 Hrs
 Displaced riser to 1.58sg (13.2ppg). Bled off choke and kill pressures with minimal returns. Flushed BOPs and displaced choke & kill lines to 1.58sg (13.2ppg). Commenced hole displacement to 1.7sg (14.2ppg) down drill string and up riser.

Operations For Period 0000 Hrs to 2400 Hrs on 31 Oct 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	DA	0000	0300	3.00	2912.0m	Attempted to bleed 7.9m3 (50bbls) from choke. Total volume returned 6.4bbls at 2.6bbls/hr. Shut in choke and monitored pressures, SIDPP 550kPa (80psi), SICP 205kPa (30psi), KLM 1790kPa (260psi). Lined up to displace riser to 1.58sg (13.2ppg) mud.
NPT (DHWC)	IH1	DA	0300	0700	4.00	2912.0m	Displaced riser to 1.58sg (13.2ppg) mud at 1600L/min (10bpm), 1380kPa (200psi). Continued to monitor well pressures, SIDPP 1930kPa (280psi), SICP 1515kPa (220psi), KLM 3240kPa (470psi).
NPT (DHWC)	IH1	DA	0700	0830	1.50	2912.0m	Bled off 0.9m3 (5.4bbl) through choke (100% open) at 9.5 L/min (0.06bpm) rate of returns. Shut in choke.
NPT (DHWC)	IH1	DA	0830	1000	1.50	2912.0m	Closed lower pipe rams and opened middle pipe rams. Lined up to pump down drill string and flushed BOP's, choke line and kill line with 1.58sg (13.2ppg) mud.
NPT (DHWC)	IH1	DA	1000	1930	9.50	2912.0m	Hold pre-job JSA. Opened lower rams and circulated 1.58sg (13.2ppg) mud down drill string and flushed both choke and kill lines at 318L/min (2bpm), DP 6000kPa (870psi), CP 70kPa (10psi), KLM 70kPa (10psi). Total pumped 248m3 (1550bbls) with 3.8m3 (23.5bbls) gained during circulation.
NPT (DHWC)	IH1	DA	1930	2230	3.00	2912.0m	Stopped pumping and monitored choke and kill for returns. Weighted up active system to 1.7sg (14.2ppg) mud weight. Closed lower pipe rams. Lined up and flushed BOP's with seawater down choke and up kill line at 636L/min (4bpm), 3100kPa (450psi). Displaced choke line to 1.58sg (13.2ppg) mud. Opened up annulus, 1.58sg (13.2ppg) mud u-tubed up kill line to displace seawater.
NPT (DHWC)	IH1	DA	2230	2400	1.50	2912.0m	Opened lower pipe rams. Commenced well displacement to 1.7sg (14.2ppg) mud at 636L/min (4bpm), 19.3MPa (2800psi). Slacked off string 9mt (20 klbs) and worked free without difficulty. Rotated and reciprocated pipe 70 rpm, 2 kftlbs torque, 159mt (350klbs) RT weight, 159mt (350klbs) S/O weight, 163mt (360klbs) P/U weight. (Note: pump pressure reduced to 6895kPa (1000psi) when bit cleared while close to bottom).
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 01 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	DA	0000	0600	6.00	2912.0m	(IN PROGRESS) Continued well displacement to 1.7sg (14.2ppg) mud at 636L/min (4bpm). Rotated and reciprocated pipe 80 rpm, 2 kftlbs torque, 159mt (350klbs) RT weight, 159mt (350klbs) S/O weight, 163mt (360klbs) P/U weight. Pump pressure increased steadily as 1.7sg (14.2ppg) mud circulated up annulus. No losses observed.
Total Duration					6		

Casing									
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OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

Bit # 3			Wear	I	O1	D	L	B	G	O2	R
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Size:	12.250in	IADC#	M423	Nozzles		Drilled over last 24 hrs		Calculated over Bit Run	
Manf:	SMITH	WOB (avg)		No.	Size	Progress	0.0m	Cum. Progress	1629.0m
Type:	PDC	RPM (avg)		10	12/32nd"	On Bottom Hrs	0.0h	Cum. On Btm Hrs	42.4h
Serial No.:	JD0772	F. Rate	168.00gpm			IADC Drill Hrs	0.0h	Cum IADC Drill Hrs	114.0h
Depth In	1284.0m	SPP				Total Revs		Cum Total Revs	236000
Depth Out		HSI	0.02HSI			ROP (avg)	N/A	ROP (avg)	38.42 m/hr
Bit Model	MDSi716	TFA	1.104in ²						

BHA # 3					
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Weight Below Jar	40.00klb	Parameters				
BHA Weight	65.00klb	Rot Weight	330.00klb	Torque (max)	D.P. Ann Velocity	0mpm
Bit to G.R Sensor Center	10.1m	Pick-Up Weight	340.00klb	Torque Off Bottom (avg)	D.C. (1) Ann Velocity	0mpm
Bit to Dir. Sensor Center	18.1m	Slack-Off Weight	330.00klb	Torque On Bottom (avg)	D.C. (2) Ann Velocity	0mpm

BHA Objective					
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Equipment	Length	Cum. Length	OD	ID	Comment
Bit	0.33m	0.33 m	12.250in		w/ Ported Float
Near Bit Stab	2.56m	2.89 m	12.250in	2.875in	
Pony NMDC	2.90m	5.79 m	8.000in	2.188in	
Stabilizer	1.75m	7.54 m	12.250in	2.875in	
Saver Sub	0.38m	7.92 m	8.250in	3.000in	
ARC8	5.44m	13.36 m	9.000in	2.813in	
ILS	0.91m	14.27 m	12.125in	4.250in	
Telescope	7.68m	21.95 m	8.250in	5.938in	
Saver Sub	0.38m	22.33 m	8.250in	3.000in	
Stabilizer	0.98m	23.31 m	12.125in	3.000in	
Sonic 6	6.88m	30.19 m	9.063in	4.000in	
Saver Sub	0.32m	30.51 m	8.313in	4.250in	
ADN 8	6.37m	36.88 m	12.125in	3.250in	
Saver Sub	2.48m	39.36 m	9.125in	3.000in	
8in DC	54.68m	94.04 m	8.000in	2.750in	
Jars	9.75m	103.79 m	8.063in	3.000in	
8in DC	18.65m	122.44 m	8.500in	2.188in	
X/O	1.11m	123.55 m	8.250in	2.750in	
HWDP	142.17m	265.72 m	5.000in	3.000in	

WBM Data									
Mud Type:	Ultradril	API FL:	3.4cc/30min	Cl:	40000mg/l	Solids(%vol):	19.5%	Viscosity	65sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	7%	H2O:	81.0%	PV	24cp
Time:	10:00	HTHP-FL:		Hard/Ca:	900mg/l	Oil(%):	0.0%	YP	37lb/100ft²
Weight:	1.59sg	HTHP-cake:		MBT:	3	Sand:	0.5	Gels 10s	8
Temp:		Glycol:		PM:		pH:	8.5	Gels 10m	10
				PF:	0.3	PHPA:		Fann 003	8
								Fann 006	10
								Fann 100	35
								Fann 200	50
								Fann 300	61
								Fann 600	85
Comment								Density maintained with barite. Mud filtrate samples taken and tested every 1/2 hr when circulating, every 10 mins when influx returns seen. Active pit weighted to 1.70sg before circulating / weighting up system when circulating at 4 bpm. Received 58 Mt barite from Lewek Swift(QC Test : Pass). NPT(fluid related) - 0.	

WBM Data									
Mud Type:	Ultradril	API FL:	3.8cc/30min	Cl:	41000mg/l	Solids(%vol):	23.0%	Viscosity	68sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	7%	H2O:	77.0%	PV	26cp
Time:	22:00	HTHP-FL:		Hard/Ca:	840mg/l	Oil(%):	0.0%	YP	44lb/100ft²
Weight:	1.70sg	HTHP-cake:		MBT:	3	Sand:	0.5	Gels 10s	8
Temp:		Glycol:		PM:		pH:	8.5	Gels 10m	9
				PF:	0.3	PHPA:		Fann 003	8
								Fann 006	11
								Fann 100	41
								Fann 200	59
								Fann 300	70
								Fann 600	96
Comment									

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	0	12	342.0
Fuel	M3	0	8.7	252.2	Barite	MT	58	85	90.0
Pot Water	M3	41	27	364.0	Bentonite	MT	0	0	55.0
Fresh water	M3	0	0	0.0					

Supply Vessel															
Boats		Status			Bulks			Boats		Status			Bulks		
Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	
Lewek Swift	On route to Portland		Fuel	m3	657.8	Lewek Emerald	On Standby		Fuel	m3	298.7				
			Pot Water	m3	477				Pot Water	m3	146				
			Drill Water	m3	511				Drill Water	m3	425				
			CEMENT G	mt	0				CEMENT G	mt	40				
			CEMENT HT (SILICA)	mt	88				CEMENT HT (SILICA)	mt	0				
			Barite	mt	0				Barite	mt	90				
			Bentonite	mt	8				Bentonite	mt	0				
			BRINE	bbbls	0				BRINE	bbbls	0				

Personnel On Board				Total : 97
Company	Pax	Company	Pax	
Diamond Offshore	53	MI Australia PTY LTD	2	
ESS	8	Schlumberger DD	2	
Woodside	7	Schlumberger MWD/LWD	3	
BHI	6	Subsea 7	3	
BJ Tubulars	5	Petrotech	2	
Dowell Schlumberger	2	Schlumberger (Wireline)	3	
Dril-Quip	1			

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	1	0	0	1	0	1	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	79	0	0
Well To Date	10	4	8	4	1	1	4	1586	1	3
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	10	4	8	4	1	1	4	1586	1	3
Year To Date	10	4	8	4	1	1	4	1586	1	3
Comments/ Findings	Number Observe Cards 79 - Safe/Unsafe: 65/14 (DODI - 32; ESS - 9; TPC - 30; WEL - 8).									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 31 Oct 2009	
Operational Comments	<p>Ditch Magnet Reading: 0 grams. (Section Total: 1349 grams). Hours on Jars: 24 hrs. (Well Total: 122.6hrs).</p> <p>CAR: 86/143 items closed (13 critical) Top Stop Cards: #1 - A person was struggling with a drum on the crane. Stopped him and helped him put it where he needed it. #2 - Noticed a leak/crack in the high pressure washdown gun. Stopped the job and took equipment out of service. Took gun to mechanics and informed supervisor.</p> <p>Non-compliance trends: Mentioned the need for personnel to keep checking clothing for personal items (lefts in pockets) before sending to laundry. DODI Supervisor audits conducted: 0 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Cleaned excess hydraulic oil from anchor machine rooms and moonpool levers. Assisted with cleaning duties around the rig. Sighted a large seal on the port fwd anchor, it is believed the same seal has been sighted a few times over the past week.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
		24	100					290.5	71.2	115.5	28.31			2	0.49	408

Well Site Manager: Dennis Bell / Kevin Monkhouse				OIM: Rod Dotson			
Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	18.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	16.1	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 1.9 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Monitoring static losses. Bit depth 780m				
RT-ML	524.5m	Planned Op	POOH and rack back 311mm (12.25") BHA. RIH with 5" DP to TD. Set barite plugs across the reservoir. Plug and abandon well.				

Cost Data			Daily Cost: \$739,015		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)		
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000		
Drilling	\$ 23,100,000	\$ 13,969,153	\$ 21,900,000		
Completion	\$ 0	\$ 0	\$ 0		
Testing	\$ 0	\$ 0	\$ 0		
Intervention	\$ 0	\$ 0	\$ 0		
Well Total	\$ 29,000,000	\$ 17,151,439	\$ 27,400,000		

Summary of Period 0000 to 2400 Hrs
Completed hole displacement to 14.2ppg mud. Flow checked well. Pumped out of hole to 1321m. Lost circulation at 1321m. Pumped 201bbls to re-establish circulation. Continued to pump out of hole after flow check above shoe at 1273m.

Operations For Period 0000 Hrs to 2400 Hrs on 01 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	DA	0000	0730	7.50	2912.0m	Continued well displacement to 1.7sg (14.2ppg) mud at 636L/min (4bpm). Rotated and reciprocated pipe 80 rpm, 2 kftlbs torque, 159mt (350klbs) RT weight, 159mt (350klbs) S/O weight, 163mt (360klbs) P/U weight. Pump pressure increased steadily as 1.7sg (14.2ppg) mud circulated up annulus. No losses observed.
NPT (DHWC)	IH1	DA	0730	0830	1.00	2912.0m	Increased pump rate to determine potential dynamic loss rate. 795L/min (5bpm) - no losses; 955L/min (6bpm) - 125L/min (0.8bpm) losses.
NPT (DHWC)	IH1	DA	0830	0900	0.50	2912.0m	Flow checked well - static.
NPT (DHWC)	IH1	DA	0900	1000	1.00	2912.0m	Held pre-job JSA with drill crew on pumping out of the hole. Flushed choke and kill lines with 1.7sg (14.2ppg) mud. Recorded SCRs and CLFLs.
NPT (DHWC)	IH1	DA	1000	2200	12.00	2912.0m	Pumped out of the hole from 2912m to 1321m at 3min/std, 955L/min (6 bpm), 15.2MPa (2200psi). Reamed tight spots at 2612m, 2537m and 1647m.
NPT (DHWC)	IH1	DA	2200	2300	1.00	2912.0m	Lost circulation at 1321m. Pumped total 32m3 (201bbls) mud to re-establish circulation and fill hole.
NPT (DHWC)	IH1	DA	2300	2330	0.50	2912.0m	Continued to pump out of the hole from 1321m to 1273m at 475L/min (3bpm).
NPT (DHWC)	IH1	DA	2330	2345	0.25	2912.0m	Flow checked well at 1273m - static.
NPT (DHWC)	IH1	DA	2345	2400	0.25	2912.0m	Continued to pump out of the hole from 1273m to 1244m.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 02 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	DA	0000	0330	3.50	2912.0m	Pumped out of the hole from 1244m to 800m at 3min/std, 955L/min (6 bpm), 4410kPa (640psi).
NPT (DHWC)	IH1	DA	0330	0345	0.25	2912.0m	Flow checked well at 800m with BHA below BOPs - well static.
NPT (DHWC)	IH1	DA	0345	0400	0.25	2912.0m	Commenced pumping out of hole to 780m. Experienced major losses. Pumped 32m3 (203bbls) 1.58sg (13.2ppg) mud down booster line to regain full mud column.
NPT (DHWC)	IH1	DA	0400	0430	0.50	2912.0m	Flow checked well at 780m - well static. (Commenced building additional 1.58sg (13.2ppg) mud).

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	DA	0430	0600	1.50	2912.0m	While monitoring on trip tank major losses occurred again. Pumped 111m3 (700bbls) 1.5sg (12.5ppg) mud, down riser booster line and simultaneously top-filled riser with seawater from trip tank to fill hole.
Total Duration					6		

Casing									
OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner	
30 "	569.44	569.44			310.0	X56			
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC			

Bit # 3				Wear	I	O1	D	L	B	G	O2	R
Size:	12.250in	IADC#	M423	Nozzles		Drilled over last 24 hrs			Calculated over Bit Run			
Manf:	SMITH	WOB (avg)		No.	Size	Progress	0.0m	Cum. Progress	1629.0m			
Type:	PDC	RPM (avg)		10	12/32nd"	On Bottom Hrs	0.0h	Cum. On Btm Hrs	42.4h			
Serial No.:	JD0772	F. Rate	168.00gpm			IADC Drill Hrs	0.0h	Cum IADC Drill Hrs	114.0h			
Depth In	1284.0m	SPP				Total Revs		Cum Total Revs	236000			
Depth Out		HSI	0.02HSI			ROP (avg)	N/A	ROP (avg)	38.42 m/hr			
Bit Model	MDSi716	TFA	1.104in ²									

BHA # 3		Parameters					
Weight Below Jar	40.00klb	Rot Weight	330.00klb	Torque (max)	2000ft.lbs	D.P. Ann Velocity	0mpm
BHA Weight	65.00klb	Pick-Up Weight	340.00klb	Torque Off Bottom (avg)	2000ft.lbs	D.C. (1) Ann Velocity	0mpm
Bit to G.R Sensor Center	10.1m	Slack-Off Weight	330.00klb	Torque On Bottom (avg)	2000ft.lbs	D.C. (2) Ann Velocity	0mpm
Bit to Dir. Sensor Center	18.1m						

BHA Objective						
Equipment	Length	Cum. Length	OD	ID	Comment	
Bit	0.33m	0.33 m	12.250in		w/ Ported Float	
Near Bit Stab	2.56m	2.89 m	12.250in	2.875in		
Pony NMDC	2.90m	5.79 m	8.000in	2.188in		
Stabilizer	1.75m	7.54 m	12.250in	2.875in		
Saver Sub	0.38m	7.92 m	8.250in	3.000in		
ARC8	5.44m	13.36 m	9.000in	2.813in		
ILS	0.91m	14.27 m	12.125in	4.250in		
Telescope	7.68m	21.95 m	8.250in	5.938in		
Saver Sub	0.38m	22.33 m	8.250in	3.000in		
Stabilizer	0.98m	23.31 m	12.125in	3.000in		
Sonic 6	6.88m	30.19 m	9.063in	4.000in		
Saver Sub	0.32m	30.51 m	8.313in	4.250in		
ADN 8	6.37m	36.88 m	12.125in	3.250in		
Saver Sub	2.48m	39.36 m	9.125in	3.000in		
8in DC	54.68m	94.04 m	8.000in	2.750in		
Jars	9.75m	103.79 m	8.063in	3.000in		
8in DC	18.65m	122.44 m	8.500in	2.188in		
X/O	1.11m	123.55 m	8.250in	2.750in		
HWDP	142.17m	265.72 m	5.000in	3.000in		

WBM Data									
Mud Type:	Ultradril	API FL:	3.6cc/30min	Cl:	46000mg/l	Solids(%vol):	23.0%	Viscosity	76sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	7%	H2O:	77.0%	PV	27cp
Time:	06:00	HTHP-FL:		Hard/Ca:	840mg/l	Oil(%):	0.0%	YP	42lb/100ft²
Weight:	1.70sg	HTHP-cake:		MBT:	3	Sand:	0.5	Gels 10s	8
Temp:		Glycol:		PM:		pH:	8.5	Gels 10m	9
				PF:	0.3	PHPA:		Fann 003	8
								Fann 006	11
								Fann 100	40
								Fann 200	59
								Fann 300	69
								Fann 600	96
Comment								Maintained mud density at 1.70 sg when circulating, dusting in barite as required. Backloaded 424 bbl of dirty KCl brine to L.Emerald for VDL requirements. Weighted up Pit 1 to 1.70 sg to replace active losses. NPT (fluid related) - 0.	

WBM Data									
Mud Type:	Ultradril	API FL:	3.6cc/30min	Cl:	44000mg/l	Solids(%vol):	23.0%	Viscosity	74sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	7%	H2O:	77.0%	PV	29cp
Time:	21:00	HTHP-FL:		Hard/Ca:	880mg/l	Oil(%):	0.0%	YP	39lb/100ft²
Weight:	1.70sg	HTHP-cake:		MBT:	3	Sand:	0.5	Gels 10s	8
Temp:		Glycol:		PM:		pH:	8.5	Gels 10m	9
				PF:	0.25	PHPA:		Fann 003	8
								Fann 006	11
								Fann 100	42
								Fann 200	60
								Fann 300	68
								Fann 600	97
Comment									

Bulk Stock										
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance	
'G' Cmt	MT	0	0	57.0	Drill Water	M3	0	21	321.0	
Fuel	M3	0	8.7	243.5	Barite	MT	89	57	122.0	
Pot Water	M3	44	27	381.0	Bentonite	MT	0	0	55.0	
Fresh water	M3	0	0	0.0						

Supply Vessel													
Boats		Status		Bulks			Boats		Status		Bulks		
Lewek Swift	On Standby	Item	Unit	Quantity	Lewek Emerald	On route to Portland.	Item	Unit	Quantity				
		Fuel	m3	637			Fuel	m3	286.7				
		Pot Water	m3	481			Pot Water	m3	140				
		Drill Water	m3	511			Drill Water	m3	425				
		CEMENT G	mt	0			CEMENT G	mt	40				
		CEMENT HT (SILICA)	mt	88			CEMENT HT (SILICA)	mt	0				
		Barite	mt	0			Barite	mt	0				
		Bentonite	mt	8			Bentonite	mt	0				
		BRINE	bbbls	0			BRINE	bbbls	424				

Personnel On Board				Total : 97
Company	Pax	Company	Pax	
Diamond Offshore	53	MI Australia PTY LTD	2	
ESS	8	Schlumberger DD	2	
Woodside	7	Schlumberger MWD/LWD	3	
BHI	6	Subsea 7	3	
BJ Tubulars	5	Petrotech	2	
Dowell Schlumberger	2	Schlumberger (Wireline)	3	
Dril-Quip	1			

Lagging Indicators												
	HPI	LTJ	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	2	83	0	0
Well To Date	10	4	8	4	1	1	6	1669	1	3
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	0	0	0	0	0	0	2	83	0	0
Year To Date	10	4	8	4	1	1	6	1669	1	3
Comments/ Findings	Drills 2 - Fire and abandon drills held today. Number Observe Cards 83 - Safe/Unsafe: 68/15 (DODI - 37; ESS - 9; TPC - 30; WEL - 7).									

Leading Indicators										
	H&S INC/NM	Env NM								
24hr	0	0								
Well To Date	0	0								
Month To Date	0	0								
Year To Date	0	0								
Comments / Findings										

General Comments	
00:00 to 24:00 Hrs on 01 Nov 2009	
Operational Comments	<p>Ditch Magnet Reading: 0 grams. (Section Total: 1349 grams). Hours on Jars: 24 hrs. (Well Total: 146.6hrs).</p> <p>CAR: 86/143 items closed (13 critical) Top Stop Card: While on way from muster for fire alarm, noticed the fire main leaking outside the radio room / barge control office on stbd side. Unable to investigate because of the drill, but advised one of the roustabouts of its location.</p> <p>Non-compliance trends: Mentioned the need for personnel to keep checking clothing for personal items (lefts in pockets) before sending to laundry. DODI Supervisor audits conducted: 1 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Cleaned excess hydraulic oil from anchor machine rooms and moonpool levers. Assisted with cleaning duties around the rig. Conducted hose watch during brine transfer.</p> <p>Observed whale from bulk loading area on stbd side, approximately 1000m from rig for 1hr.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
		24	100					290.5	67.25	139.5	32.29			2	0.46	432

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	19.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	16.5	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 2.5 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Waiting on weather, unable to receive barite from Lewek Emerald.				
RT-ML	524.5m	Planned Op	Plug and abandon well.				

Cost Data				Daily Cost: \$739,015
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)	
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 14,708,168	\$ 21,700,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 17,890,454	\$ 27,200,000	

Summary of Period 0000 to 2400 Hrs
 Completed pumping out of the hole. Experienced major losses below the shoe. Re-established circulation with 1.58sg (13.2ppg) mud down riser booster line while simultaneously top filling with seawater. Racked 311mm (12.25") BHA. RIH to shoe with 127mm (5") OE DP.

Operations For Period 0000 Hrs to 2400 Hrs on 02 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	IH1	RBH	0000	0330	3.50	2912.0m	Pumped out of the hole from 1244m to 800m at 3min/std, 955L/min (6 bpm), 4410kPa (640psi).
NPT (DHWC)	IH1	FC	0330	0345	0.25	2912.0m	Flow checked well at 800m with BHA below BOPs - well static.
NPT (DHWC)	IH1	RBH	0345	0400	0.25	2912.0m	Commenced pumping out of hole to 780m. Experienced major losses. Pumped 37m3 (235bbbls) 1.58sg (13.2ppg) mud down booster line to regain full mud column.
NPT (DHWC)	IH1	FC	0400	0430	0.50	2912.0m	Flow checked well at 780m - static. (Commenced building additional 1.58sg (13.2ppg) mud).
NPT (DHWC)	IH1	CIR	0430	0730	3.00	2912.0m	While monitoring on trip tank major losses occurred again. Pumped 126m3 (800bbbls) 1.5sg (12.5ppg) mud, down riser booster line and simultaneously top-filled riser with seawater from trip tank to fill hole. Loss rate 636L/min (4bpm) decreasing to 318L/min (2bpm).
NPT (DHWC)	IH1	RBH	0730	0900	1.50	2912.0m	POOH from 803m to 869m while monitoring losses on trip tank. Average 303L/stand (1.9bbbl/stand) - 0.19m3 (1.2bbl) over steel displacement.
NPT (DHWC)	IH1	FC	0900	0930	0.50	2912.0m	Monitored well on trip tank. Gained 0.64m3 (4bbbls).
NPT (DHWC)	IH1	FC	0930	1000	0.50	2912.0m	Pumped 9.2m3 (58bbbls) 1.58sg (13.2ppg) mud down riser booster line. Monitored trip tank and established 111L/min (0.7bpm) loss rate.
NPT (DHWC)	IH1	RBH	1000	1100	1.00	2912.0m	Continued to POOH from 265m to 123m. Monitored losses on trip tank. Pumped 7.9m3 (50bbbl) 1.58sg (13.2ppg) LCM pill down riser booster line and chased with 4.1m3 (26bbbl) 1.52sg (12.7ppg) mud.
NPT (DHWC)	IH1	RBH	1100	1130	0.50	2912.0m	POOH with 311mm (12.25") BHA from 123m to 39m.
NPT (DHWC)	IH1	PUB	1130	1300	1.50	2912.0m	Held pre-job JSA. Schlumberger removed radioactive source from FEWD tool and L/O same. POOH MWD tools and racked back same.
P	PA	RBH	1300	1500	2.00	2912.0m	RIH with mule shoe on (5") DP to 1247m. Monitored gains/losses on trip tank.
P	PA	SER	1500	1530	0.50	2912.0m	Held pre-job JSA. Serviced TDS.
NPT (GWOR)	PA	RBH	1530	1600	0.50	2912.0m	POOH from 1247m to 1103m with 127mm (5") DP and racked back same. (Waiting on barite).
NPT (GWOR)	PA	PUB	1600	2300	7.00	2912.0m	While waiting on barite, RIH with 311mm (12.25") BHA to 1245m. Broke down BHA and L/O same.
NPT (GWOR)	PA	PUB	2300	2400	1.00	2912.0m	RIH with 127mm (5") HWDP to 1189m. Re-installed diverter bag. 0.8m3/hr (5 bbl/hr) seepage losses.

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 03 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	IH1	PUB	0000	0100	1.00	2912.0m	POOH with 127mm (5") HWDP and layed out same.
NPT (GWOR)	PA	RBH	0100	0130	0.50	2912.0m	RIH 127mm (5") DP from 1103m to 1247m.
NPT (GWOR)	PA	WOO	0130	0330	2.00	2912.0m	Wait on barite delivery from Lewek Emerald.
NPT (DHWOC)	PA	CIR	0330	0500	1.50	2912.0m	Pumped 12.7m3 (80bbl) 1.58sg (13.2ppg) LCM pill. Chased with 11.8m3 (75bbl), 1.58sg (13.2ppg) mud. POOH from 1247m to 1103m above LCM pill.
NPT (GWOR)	PA	WOO	0500	0600	1.00	2912.0m	Wait on barite from Lewek Emerald - ETA 07:30hrs. Prepared for cementing operations. (Weather conditions deteriorating).
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

Bit # 3

Wear				I	O1	D	L	B	G	O2	R
				1	2	WT	S	X	I	CT	HP
Size:	12.250in	IADC#	M423	Nozzles		Drilled over last 24 hrs		Calculated over Bit Run			
Manf:	SMITH	WOB (avg)		No.	Size	Progress	0.0m	Cum. Progress		1629.0m	
Type:	PDC	RPM (avg)		10	12/32nd"	On Bottom Hrs	0.0h	Cum. On Btm Hrs		42.4h	
Serial No.:	JD0772	F. Rate	252.00gpm			IADC Drill Hrs	13.0h	Cum IADC Drill Hrs		127.0h	
Depth In	1284.0m	SPP				Total Revs		Cum Total Revs		236000	
Depth Out	2912.0m	HSI	0.08HSI			ROP (avg)	N/A	ROP (avg)		38.42 m/hr	
Bit Model	MDSi716	TFA	1.104in ²								

BHA # 3					
Weight Below Jar		Parameters			
BHA Weight	40.00klb	Rot Weight	330.00klb	Torque (max)	D.P. Ann Velocity
Bit to G.R Sensor Center	65.00klb	Pick-Up Weight	340.00klb	Torque Off Bottom (avg)	D.C. (1) Ann Velocity
Bit to Dir. Sensor Center	10.1m	Slack-Off Weight	330.00klb	Torque On Bottom (avg)	D.C. (2) Ann Velocity
	18.1m				

BHA Objective					
Equipment	Length	Cum. Length	OD	ID	Comment
Bit	0.33m	0.33 m	12.250in		w/ Ported Float
Near Bit Stab	2.56m	2.89 m	12.250in	2.875in	
Pony NMDC	2.90m	5.79 m	8.000in	2.188in	
Stabilizer	1.75m	7.54 m	12.250in	2.875in	
Saver Sub	0.38m	7.92 m	8.250in	3.000in	
ARC8	5.44m	13.36 m	9.000in	2.813in	
ILS	0.91m	14.27 m	12.125in	4.250in	
Telescope	7.68m	21.95 m	8.250in	5.938in	
Saver Sub	0.38m	22.33 m	8.250in	3.000in	
Stabilizer	0.98m	23.31 m	12.125in	3.000in	
Sonic 6	6.88m	30.19 m	9.063in	4.000in	
Saver Sub	0.32m	30.51 m	8.313in	4.250in	
ADN 8	6.37m	36.88 m	12.125in	3.250in	
Saver Sub	2.48m	39.36 m	9.125in	3.000in	
8in DC	54.68m	94.04 m	8.000in	2.750in	
Jars	9.75m	103.79 m	8.063in	3.000in	
8in DC	18.65m	122.44 m	8.500in	2.188in	
X/O	1.11m	123.55 m	8.250in	2.750in	
HWDP	142.17m	265.72 m	5.000in	3.000in	

WBM Data									
Mud Type:	Ultradril	API FL:	5.5cc/30min	Cl:	18000mg/l	Solids(%vol):	19.0%	Viscosity	70sec/L
Sample-From:	Reserve	Filter-Cake:	1/32nd"	K+C*1000:		H2O:	81.0%	PV	28cp
Time:	07:00	HTHP-FL:		Hard/Ca:	1000mg/l	Oil(%):	0.0%	YP	32lb/100ft ²
Weight:	1.58sg	HTHP-cake:		MBT:		Sand:	0.5	Gels 10s	7
Temp:		Glycol:		PM:		pH:	7	Gels 10m	9
				PF:		PHPA:		Fann 003	7
								Fann 006	9
Comment	Lost approximately 800 bbls, 1.58 sg mud attempting to fill riser through riser booster line. Topped up annulus with 235 bbls seawater via trip tank. Mixed 1.58 sg mud for filling riser using only seawater with Flowzan/Drispac and barite. Built 1.70 sg mud with remaining barite on rig. Mixed 80 ppb LCM in Slug Tank. NPT (fluid related) - 0.							Fann 100	33
								Fann 200	49
								Fann 300	60
								Fann 600	88

WBM Data									
Mud Type:	Ultradril	API FL:	5.0cc/30min	Cl:	38000mg/l	Solids(%vol):	23.0%	Viscosity	74sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	2%	H2O:	77.0%	PV	27cp
Time:	20:00	HTHP-FL:		Hard/Ca:	900mg/l	Oil(%):	0.0%	YP	40lb/100ft ²
Weight:	1.70sg	HTHP-cake:		MBT:	3	Sand:	0.5	Gels 10s	8
Temp:		Glycol:		PM:		pH:	7	Gels 10m	9
				PF:	0.15	PHPA:		Fann 003	8
								Fann 006	11
Comment								Fann 100	40
								Fann 200	58
								Fann 300	67
								Fann 600	94

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	0	8	313.0
Fuel	M3	0	14.1	229.4	Barite	MT	0	116	6.0

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
Pot Water	M3	39	27	393.0	Bentonite	MT	0	0	55.0
CEMENT HT (SILICA)	MT	80	0	80.0					

Supply Vessel

Boats		Status	Bulks			Boats		Status	Bulks		
Boat Name	Status		Item	Unit	Quantity	Boat Name	Status	Item	Unit	Quantity	
Lewek Swift	On Standby		Fuel	m3	625.1	Lewek Emerald	On route to Ocean Patriot. ETA 07:30hrs 3/11/09.	Fuel	m3	536.5	
			Pot Water	m3	477			Pot Water	m3	135	
			Drill Water	m3	511			Drill Water	m3	256	
			CEMENT G	mt	0			CEMENT G	mt	40	
			CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0	
			Barite	mt	0			Barite	mt	88	
			Bentonite	mt	8			Bentonite	mt	0	
			BRINE	bbls	0			BRINE	bbls	424	

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	13:08 / 13:28	3 / 16	

Personnel On Board
Total : 84

Company	Pax	Company	Pax
Diamond Offshore	53	Dril-Quip	1
ESS	8	MI Australia PTY LTD	2
Woodside	8	Schlumberger MWD/LWD	3
BHI	4	Subsea 7	3
Dowell Schlumberger	2		

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	3	0	0	0	0	0	0	59	0	0
Well To Date	13	4	8	4	1	1	6	1728	1	3
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	3	0	0	0	0	0	2	142	0	0
Year To Date	13	4	8	4	1	1	6	1728	1	3
Comments/ Findings	GSR Comp Checks 3 - #1 - Lifting Operations using "pull-back" tugger to rack back 311mm (12.25") BHA; #2 - PTW check on Welder; #3 - Pre-job Checklist completed with Painter working at stbd aft of rig. Number Observe Cards 59 - Safe/Unsafe: 48/11 (DODI - 24; ESS - 9; TPC - 17; WEL - 9).									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	0	0							
Month To Date	0	0							
Year To Date	0	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 02 Nov 2009	
Operational Comments	<p>Ditch Magnet Reading: 0 grams. (Section Total: 1349 grams). Hours on Jars: 23 hrs. (Well Total: 169.6hrs).</p> <p>CAR: 87/143 items closed (13 critical) Top Stop Cards: #1 Deck crew need more training on assisting in sack room during busy periods. Too many occasions we need extra help but have problems because the helpers do not understand the job. #2 Observed person exiting the accommodation without looking at his surroundings. Intervened and told him to look up before exiting quarters.</p> <p>Non-compliance trends: Job site housekeeping, PPE and peoples awareness of operations around them. DODI Supervisor audits conducted: 1 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Cleaned excess hydraulic oil from anchor machine rooms and moonpool levers. Assisted with cleaning duties around the rig. Changed soaker pads in kooomey room.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
2.5	10.42	21.5	89.58					293	64.25	161	35.31			2	0.44	456

Well Site Manager: Dennis Bell / Kevin Monkhouse				OIM: Rod Dotson			
Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	20.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	16.5	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 3.5 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Waiting on weather to receive barite.				
RT-ML	524.5m	Planned Op	Offload barite from Lewek Emerald. Conduct a barite mixing test trial. Await additional barite from Portland.				

Cost Data			Daily Cost: \$739,015		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)		
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000		
Drilling	\$ 23,100,000	\$ 15,447,183	\$ 21,700,000		
Completion	\$ 0	\$ 0	\$ 0		
Testing	\$ 0	\$ 0	\$ 0		
Intervention	\$ 0	\$ 0	\$ 0		
Well Total	\$ 29,000,000	\$ 18,629,469	\$ 27,200,000		

Summary of Period 0000 to 2400 Hrs

RIH to shoe after laying out HWDP. Waited on weather to receive barite from Lewek Emerald. Prepared equipment for upcoming plugback/cementing operations. Monitored well on trip tank.

Operations For Period 0000 Hrs to 2400 Hrs on 03 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P (GWOR)	IH1	PUB	0000	0100	1.00	2912.0m	POOH with 127mm (5") HWDP and laid out same.
NPT (GWOR)	PA	RBH	0100	0130	0.50	2912.0m	RIH 127mm (5") DP from 1103m to 1247m.
NPT (GWOW)	PA	WOW	0130	0330	2.00	2912.0m	Waited on weather to receive barite delivery from Lewek Emerald.
NPT (DHCW)	PA	CIR	0330	0400	0.50	2912.0m	Pumped 12.7m3 (80bbl) 1.58sg (13.2ppg) LCM pill. Chased with 11.8m3 (75bbl), 1.58sg (13.2ppg) mud. POOH from 1247m to 1103m above LCM pill.
NPT (GWOW)	PA	RBH	0400	0500	1.00	2912.0m	POOH from 1247m to 1103m above LCM pill.
NPT (GWOW)	PA	WOW	0500	2400	19.00	2912.0m	Waited on weather to offload barite from Lewek Emerald (Weather conditions deteriorating). Monitored well on trip tank. Drill crew conducted PM's and general housekeeping. 07:00hrs Wind - 50knts; Combined Sea state - 5m. 19:00hrs Wind - 30knts; Combined sea state - 30m. 24:00hrs Wind - 20knts; Combined sea state - 5m. Intermittent slight gains observed. Pumped 4.8m3 (30bbbls) 1.58sg (13.2ppg) mud down riser booster line to put well back on losses.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 04 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (GWOW)	PA	WOW	0000	0200	2.00	2912.0m	Waited on weather to offload barite from Lewek Emerald. Monitored well on trip tank.
NPT (GWOW)	PA	WOW	0200	0600	4.00	2912.0m	01:45hrs Pumped 2.4m3 (15bbbls) 1.58sg (13.2ppg) mud down riser booster line and took 1.9m3 (12bbbls) returned back to trip tank (management of loss/gain situation in hand). Waited on weather to offload barite from Lewek Emerald. Monitored well on trip tank. 03:30hrs Pumped 3.2m3 (20bbbls) 1.58sg (13.2ppg) mud down riser booster line and took 2.5m3 (16bbbls) returned back to trip tank (management of loss/gain situation in hand).
Total Duration					6		

Casing								
OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

WBM Data										
Mud Type:	Ultradril	API FL:	5.0cc/30min	Cl:	38000mg/l	Solids(%vol):	23.0%	Viscosity	74sec/L	
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	2%	H2O:	77.0%	PV	37cp	
Time:	16:00	HTHP-FL:		Hard/Ca:	900mg/l	Oil(%):	0.0%	YP	20lb/100ft ²	
Weight:	1.70sg	HTHP-cake:		MBT:	3	Sand:	0.5	Gels 10s	8	
Temp:		Glycol:		PM:		pH:	7	Gels 10m	9	
				PF:	0.15	PHPA:		Fann 003	8	
Comment	Mixed 205 bbl of 80 ppb LCM in Pit-1 at 1.58 sg. Blended 250 bbl of 1.58 sg mud in pit-2. Mud engineer crew-change. Carried out Pilot Testing on Barite Plug recipes with regards to settling times and rheology. NPT (fluid related) - 0.								Fann 006	11
								Fann 100	40	
								Fann 200	58	
								Fann 300	57	
								Fann 600	94	

Bulk Stock										
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance	
'G' Cmt	MT	0	0	57.0	Drill Water	M3	34	4	343.0	
Fuel	M3	0	16.2	213.2	Barite	MT	0	0	6.0	
Pot Water	M3	8	22	379.0	Bentonite	MT	0	0	55.0	
CEMENT HT (SILICA)	MT	0	0	80.0						

Supply Vessel											
Boats		Status	Bulks			Boats		Status	Bulks		
Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity
Lewek Swift	On route to Portland.		Fuel	m3	611	Lewek Emerald	On Standby. Unable to ship barite due to weather conditions.		Fuel	m3	522.5
			Pot Water	m3	473				Pot Water	m3	130
			Drill Water	m3	511				Drill Water	m3	256
			CEMENT G	mt	0				CEMENT G	mt	40
			CEMENT HT (SILICA)	mt	0				CEMENT HT (SILICA)	mt	0
			Barite	mt	0				Barite	mt	88
			Bentonite	mt	8				Bentonite	mt	0
			BRINE	bbls	0				BRINE	bbls	424

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	15:06 / 15:18	14 / 14	

Personnel On Board				Total : 84
Company	Pax	Company	Pax	
Diamond Offshore	54	MI Australia PTY LTD	2	
ESS	8	Schlumberger MWD/LWD	3	
Woodside	6	Subsea 7	3	
BHI	2	Weatherford	1	
Dowell Schlumberger	3	OTHER	1	
Dril-Quip	1			

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	61	0	1
Well To Date	13	4	8	4	1	1	6	1789	1	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	3	0	0	0	0	0	2	203	0	1
Year To Date	13	4	8	4	1	1	6	1789	1	4
Comments/ Findings	Number Observe Cards 61 - Safe/Unsafe: 42/19 (DODI - 29; ESS - 11; TPC - 14; WEL - 7). Env Insp Check 1 - Repairs to prevent spills to ocean that were identified during initial inspection on tow have been completed. However, rig drainage system needs re-build. H&S INC/NM 1 - Flashback and hot soot emanating from engine #4 exhaust. Shut down engine and rectified.									

Leading Indicators										
	H&S INC/NM	Env NM								
24hr	1	0								
Well To Date	1	0								
Month To Date	1	0								
Year To Date	1	0								
Comments / Findings	H&S INC/NM 1 - Flashback and hot soot emanating from engine #4 exhaust. Shut down engine and rectified.									

General Comments	
00:00 to 24:00 Hrs on 03 Nov 2009	
Operational Comments	CAR: 87/143 items closed (13 critical) Top Stop Cards: #1 Observed deck crews respond to engine #4 exhaust backfire during night. Personnel at scene lacked familiarisation with fire hose location and methods of running hose. Drills recommended. #2 Person placed hand on polished mandrel of jar. Communicated risk to person. Non-compliance trends: Requested focus on basic safety requirements - trip hazards, equipment condition, PPE, job site housekeeping, awareness of operations above and around. DODI Supervisor audits conducted: 0 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Cleaned excess hydraulic oil from anchor machine rooms and moonpool levers. Assisted with cleaning duties around the rig. Emptied oily water from buckets left beneath air con units into oily water bin. Pumped oily water from ROV bilge drums into one oily water bin.

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
1	4.17	23	95.83					294	61.25	184	38.33			2	0.42	480

Well Site Manager: Dennis Bell / Kevin Monkhouse				OIM: Rod Dotson			
Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	21.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	16.5	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 4.5 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Preparing mud for well kill operations. Monitoring well on trip tank.				
RT-ML	524.5m	Planned Op	RIH to TD. Set barite and cement plugs.				

Cost Data			Daily Cost: \$736,667		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)		
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,900,000		
Drilling	\$ 23,100,000	\$ 16,183,850	\$ 23,100,000		
Completion	\$ 0	\$ 0	\$ 0		
Testing	\$ 0	\$ 0	\$ 0		
Intervention	\$ 0	\$ 0	\$ 0		
Well Total	\$ 29,000,000	\$ 19,366,136	\$ 29,000,000		

Summary of Period 0000 to 2400 Hrs

Waited on weather to receive barite from both boats. Conducted a barite slurry test run with Dowell cement unit. Continued to mix mud for well kill operations and manage well bore mud column.

Operations For Period 0000 Hrs to 2400 Hrs on 04 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (GWOW)	PA	WOW	0000	0330	3.50	2912.0m	Waited on weather to receive barite from Lewek Emerald. Monitored well on trip tank. 01:45hrs Pumped 2.4m3 (15bbls) 1.58sg (13.2ppg) mud down riser booster line and took 1.9m3 (12bbls) returns back to trip tank (ongoing management of loss/gain - situation in hand).
NPT (GWOW)	PA	WOW	0330	0600	2.50	2912.0m	Pumped 3.2m3 (20bbls) 1.58sg (13.2ppg) mud down riser booster line and took 2.5m3 (16bbls) returns back to trip tank.
NPT (GWOW)	PA	WOW	0600	1330	7.50	2912.0m	Pumped 3.2m3 (20bbls) 1.7sg (14.2ppg) mud down riser booster line and took 2.7m3 (17bbls) returns back to trip tank.
NPT (GWOW)	PA	WOW	1330	1530	2.00	2912.0m	Pumped 5.9m3 (37bbls) 1.59sg (13.3ppg) mud down riser booster line and took 5.7m3 (35bbls) returns back to trip tank.
NPT (DHWG)	PA	WOW	1530	2030	5.00	2912.0m	Shipped barite from Lewek Emerald to rig. Prepared and mixed 1.58sg (13.2ppg) mud. Pumped 3.2m3 (20bbls) 1.68sg (14ppg) mud down riser booster line and took 2.2m3 (14bbls) returns back to trip tank.
NPT (DHWG)	PA	WOW	2030	2145	1.25	2912.0m	While waiting on weather, Dowell mixed 3.2m3 (20bbl) 2.6sg (22ppg) barite slurry and pumped through reverse circulation line to confirm feasibility of pumping at 0.64m3/m (4bpm). Dowell only able to pump 2.4sg (19ppg) slurry at 12.3m3/m (1.3bpm) due to barite delivery limitations. Pumped 4.8m3 (30bbls) 1.68sg (14ppg) mud down riser booster line and took 3.5m3 (22bbls) returns back to trip tank (management of loss/gain - situation in hand).
NPT (GWOW)	PA	WOW	2145	2200	0.25	2912.0m	Encountered 15.4m3/hr (96bbl/hr) losses, although loss rate reduced steadily thereafter. Total 11.8m3 (74bbl) lost down hole. Top filled with seawater to re-establish circulation.
NPT (GWOW)	PA	WOW	2200	2300	1.00	2912.0m	Lewek Swift called alongside to transfer barite. Unable to connect barite. Unable to connect shipping hose due to weather conditions.
NPT (GWOW)	PA	WOW	2300	2400	1.00	2912.0m	Pumped 3.2m3 (20bbls) 1.58sg (13.2ppg) mud down riser booster line and took 2.9m3 (18bbls) returns back to trip tank.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 05 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (GWOW)	PA	WOW	0000	0200	2.00	2912.0m	Waited on weather to receive barite from Lewek Swift. Monitored well on trip tank. Pumped 3.5m3 (22bbls) 1.58sg (13.2ppg) mud down riser booster line and took 3.0m3 (19bbls) returns back to trip tank.
NPT (GWOW)	PA	WOW	0200	0300	1.00	2912.0m	Pumped 3.8m3 (24bbls) 1.58sg (13.2ppg) mud down riser booster line and took 3.8m3 (24bbls) returns back to trip tank.

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (GWOW)	PA	WOW	0300	0400	1.00	2912.0m	Pumped 2.9m3 (18bbls) 1.7sg (14ppg) mud down riser booster line and took 2.9m3 (18bbls) returns back to trip tank.
NPT (GWOW)	PA	WOW	0400	0500	1.00	2912.0m	Pumped 4.1m3 (26bbls) 1.58sg (13.2ppg) mud down riser booster line and took 4.1m3 (26bbls) returns back to trip tank.
NPT (GWOW)	PA	WOW	0500	0600	1.00	2912.0m	Pumped 3.0m3 (19bbls) 1.58sg (13.2ppg) mud down riser booster line and took 3.0m3 (19bbls) returns back to trip tank.
Total Duration					6		

Casing									
OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner	
30 "	569.44	569.44			310.0	X56			
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC			

WBM Data									
Mud Type:	Ultradril	API FL:	5.0cc/30min	Cl:	38000mg/l	Solids(%vol):	23.0%	Viscosity	74sec/L
Sample-From:	Active	Filter-Cake:	1/32nd"	K+C*1000:	2%	H2O:	77.0%	PV	37cp
Time:	00:00	HTHP-FL:		Hard/Ca:	900mg/l	Oil(%):	0.0%	YP	20lb/100ft ²
Weight:	1.70sg	HTHP-cake:		MBT:	3	Sand:	0.5	Gels 10s	8
Temp:		Glycol:		PM:		pH:	7.5	Gels 10m	9
				PF:	0.15	PHPA:		Fann 003	8
Comment	Continued to monitor well, pumped 4m3 (25 bbls) of 1.58sg mud into well at intervals. Mixed 1.59 sg mud in slug pit to maintain volume. Carried out further pilot testing on barite plug slurry formulations. Performed mixing / pumping trials with cement unit. Received barite from Lewek Emerald (QC: Failed). Began weighting up reserve mud. NPT (fluid related) - 0.							Fann 006	11
								Fann 100	40
								Fann 200	58
								Fann 300	57
								Fann 600	94

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	34	22	355.0
Fuel	M3	0	7.3	205.9	Barite	MT	89	16	79.0
Pot Water	M3	0	21	358.0	Bentonite	MT	0	0	55.0
CEMENT HT (SILICA)	MT	0	0	80.0					

Supply Vessel											
Boats		Status	Bulks			Boats		Status	Bulks		
Lewek Swift	On Standby		Item	Unit	Quantity	Lewek Emerald	On Standby		Item	Unit	Quantity
			Fuel	m3	599.8				Fuel	m3	509.5
			Pot Water	m3	469				Pot Water	m3	125
			Drill Water	m3	511				Drill Water	m3	256
			CEMENT G	mt	0				CEMENT G	mt	40
			CEMENT HT (SILICA)	mt	0				CEMENT HT (SILICA)	mt	0
			Barite	mt	88				Barite	mt	0
			Bentonite	mt	8				Bentonite	mt	0
			BRINE	bbls	0				BRINE	bbls	424

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	13:12 / 13:31	11 / 11	

Personnel On Board				Total : 84
Company		Pax	Company	
Diamond Offshore		52	Dril-Quip	1
ESS		8	MI Australia PTY LTD	2
Woodside		6	OTHER	3
BHI		2	Subsea 7	6
Dowell Schlumberger		3	Weatherford	1

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	1	0	0	0	0	70	0	0
Well To Date	13	4	9	4	1	1	6	1859	1	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	3	0	1	0	0	0	2	273	0	1
Year To Date	13	4	9	4	1	1	6	1859	1	4
Comments/ Findings	PTW Audit 1 - Hot Work: Needle gunning handrails - Good use of barrier tape on level below to warn people of the danger above. Number Observe Cards 70 - Safe/Unsafe: 53/17 (DODI - 39; ESS - 10; TPC - 14; WEL - 7)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	1	0							
Month To Date	1	0							
Year To Date	1	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 04 Nov 2009	
Operational Comments	<p>Weather conditions over past 24hrs: Wind 21-26knts (decreasing), combined sea state 5-7.5m (forecast to remain high).</p> <p>CAR: 87/143 items closed (13 critical) Top Stop Cards: #1 Observed a man throw aerosol can away into general waste bin. Stopped him and told him that hazardous materials have separate waste bins. Showed him the correct storage area to dispose of aerosol containers. #2 Observed man working at height without lanyard hooked on. Stopped him and explained the hazards of this and DODI policy when working at height. He agreed and carried on safely.</p> <p>Non-compliance trends: Requested focus on basic safety requirements - request focus on checking tools and equipment before use. PPE checks to ensure correct fitting and use, ensure harness lanyards are properly attached.</p> <p>DODI Supervisor audits conducted: 1 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Changed soaker pads around the rig. Moved empty waste oil barrels from sack room and lower deck to upper deck bunded area.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
		24	100					294	58.33	208	41.27			2	0.4	504

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	22.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	16.5	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 5.5 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Circulating bottoms up in riser through riser booster line at (9.7bpm), 1100kPa (160psi).				
RT-ML	524.5m	Planned Op	Continue to monitor well while waiting on barite.				

Cost Data	Daily Cost: \$736,667		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,900,000
Drilling	\$ 23,100,000	\$ 16,920,517	\$ 23,100,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 20,102,803	\$ 29,000,000

Summary of Period 0000 to 2400 Hrs
 Installed FOSV and gray IBOP valve. RIH from 1103m to 2073m. Observed 40bbl gain while RIH. Shut well in and monitored pressures. Circulated and processed riser fluid column.

Operations For Period 0000 Hrs to 2400 Hrs on 05 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (GWOR)	PA	WCT	0000	0200	2.00	2912.0m	Waited on weather to receive barite from Lewek Swift. Monitored well on trip tank. Pumped 3.5m3 (22bbls) 1.58sg (13.2ppg) mud down riser booster line and took 3.0m3 (19bbls) returns back to trip tank.
NPT (GWOR)	PA	WCT	0200	0300	1.00	2912.0m	Pumped 3.8m3 (24bbls) 1.58sg (13.2ppg) mud down riser booster line and took 3.8m3 (24bbls) returns back to trip tank.
NPT (GWOR)	PA	WCT	0300	0400	1.00	2912.0m	Pumped 2.9m3 (18bbls) 1.7sg (14ppg) mud down riser booster line and took 2.9m3 (18bbls) returns back to trip tank.
NPT (GWOR)	PA	WCT	0400	0500	1.00	2912.0m	Pumped 4.1m3 (26bbls) 1.58sg (13.2ppg) mud down riser booster line and took 4.1m3 (26bbls) returns back to trip tank.
NPT (GWOR)	PA	WCT	0500	0715	2.25	2912.0m	Pumped 3.0m3 (19bbls) 1.58sg (13.2ppg) mud down riser booster line and took 3.0m3 (19bbls) returns back to trip tank.
NPT (GWOR)	PA	WCT	0715	0900	1.75	2912.0m	Pumped 2.4m3 (15bbls) 1.7sg (14.2ppg) mud down drill string and took 1.9m3 (12bbls) returns back to trip tank. Pumped 4.8m3 (30bbls) 1.7sg (14.2ppg) mud down riser booster line with no returns. 08:00hrs - Lewek Swift shipped barite to rig.
NPT (GWOR)	PA	WCT	0900	1100	2.00	2912.0m	Pumped 12.7m3 (80bbls) 1.7sg (14.2ppg) mud down riser booster line with no returns. Top-filled with seawater simultaneously.
NPT (GWOR)	PA	WCT	1100	1130	0.50	2912.0m	Spaced out drill string and installed FOSV and gray IBOP valve. Continued to monitor well on trip tank.
NPT (GWOR)	PA	WCT	1130	1200	0.50	2912.0m	Pumped 4.8m3 (30bbls) 1.58sg (14.2ppg) mud down riser booster line and took 3.5m3 (22bbls) returns back to trip tank.
NPT (GWOR)	PA	WCT	1200	1530	3.50	2912.0m	Held pre-job safety meeting. RIH from 1103m to 2073m. Encountered 4.1m3 (26bbls) gain. Pumped 4.8m3 (30bbls) 1.7sg (14.2ppg) mud down riser booster line to suppress mud column and took 6.4m3 (40bbls) returns back to trip tank (well possibly flowing).
NPT (GWOR)	PA	WCT	1530	1600	0.50	2912.0m	Spaced out and closed lower annular. Pumped 10m3 (63bbls) 1.7sg (14.2ppg) mud down drill string to open float. Monitored SICP - 70kPa (10psi) increased to 140kPa (20psi).
NPT (GWOR)	PA	WCT	1600	1630	0.50	2912.0m	Bled off 140kPa (20psi) from SICP. Opened lower annular and monitored returns. Well continued to flow. Closed lower annular and monitored SICP - 70kPa (10psi).
NPT (GWOR)	PA	WCT	1630	1700	0.50	2912.0m	Closed lower pipe rams. Pumped 3.2m3 (20bbls) seawater down choke and up kill line through open choke. Note: Choke line volume is 15bbl. Choke line fully displaced to seawater 1.03sg EMW (8.6ppg), kill line now filled with 1.33sg (11.05ppg) EMW.
NPT (GWOR)	PA	WCT	1700	2030	3.50	2912.0m	Opened lower pipe rams and monitored pressure. SICP - 1585kPa (230psi). KLM - 70kPa (10psi). Bled down choke to 140kPa (20psi) and monitored well. Immediate pressure

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (GWOR)	PA	WCT	2030	2400	3.50	2912.0m	increase: SICP - 1585kPa (230psi). KLM - 70kPa (10psi). Circulated riser bottoms up through booster line at 795L/min (5bpm), 585kPa (85psi). Riser return mud weights very inconsistent. Increased circulating rate to 1540L/min (9.7bpm), 1100kPa (160psi). Continued to monitor well bore pressures. At 24:00hrs SICP - 1930kPa (280psi), KLM - 550kPa (80psi). Concurrent Operations: Fabricated and hooked up calibrated stripping tank. Monitored weather and rig heave trends. Continued building 14.2ppg mud. Arrange logistics for additional barite supplies.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 06 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (GWOR)	PA	WCT	0000	0600	6.00	2912.0m	Circulated riser bottoms up through booster line at 1540L/min (9.7bpm), 1100kPa (160psi). Continued to monitor well pressures (returns now homogeneous and consistent wt - 12.3ppg). At 03:00hrs SICP - 2070kPa (300psi), KLM - 620kPa (90psi). Concurrent Operations: Prepare and review stripping JSA. Review Diamond and WDL stripping procedures. Verify crew stripping experience level. Planned to conduct trial stripping drill. Identified potential VDL limitations for impending receipt of barite. Backload excess weight and equipment from rig to accommodate same.
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

WBM Data

Mud Type: Polymer Mud	API FL: 4.0cc/30min	Cl: 33000mg/l	Solids(%vol): 23.0%	Viscosity 72sec/L
Sample-From: Active	Filter-Cake: 1/32nd"	K+C*1000: 0%	H2O: 77.0%	PV 34cp
Time: 22:00	HTHP-FL:	Hard/Ca: 850mg/l	Oil(%): 0.0%	YP 41lb/100ft ²
Weight: 1.70sg	HTHP-cake:	MBT: 3	Sand: 0.25	Gels 10s 8
Temp:	Glycol:	PM:	pH: 8.5	Gels 10m 10
		PF: 0.15	PHPA:	Fann 003 8
Comment	Weighting up reserve mud volume at pits. Pumping seawater and heavy mud alternately as losses and gains occurred. Mud returned from bleeding off well over shakers to sandtraps. Duovis added to active when circulating riser. All available barite used to weight up reserve mud to 1.70 sg. Lost 58 bbl circulating riser. Received 88 MT barite from L.Swift. NPT (fluid related) - 0.			Fann 006 11
				Fann 100 39
				Fann 200 57
				Fann 300 75
				Fann 600 109

Bulk Stock

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	42	24	373.0
Fuel	M3	200	17.4	388.5	Barite	MT	88	146	21.0
Pot Water	M3	0	24	334.0	Bentonite	MT	2	0	57.0
CEMENT HT (SILICA)	MT	0	0	80.0					

Supply Vessel															
Boats		Status			Bulks			Boats		Status			Bulks		
Lewek Swift	On Route to Portland	Item	Unit	Quantity	Lewek Emerald	On Standby	Item	Unit	Quantity						
		Fuel	m3	386.6			Fuel	m3	499.5						
		Pot Water	m3	465			Pot Water	m3	120						
		Drill Water	m3	511			Drill Water	m3	256						
		CEMENT G	mt	0			CEMENT G	mt	40						
		CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0						
		Barite	mt	0			Barite	mt	0						
		Bentonite	mt	0			Bentonite	mt	0						
BRINE	bbls	0	BRINE	bbls	424										

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	13:24 / 13:38	11 / 11	

Personnel On Board				Total : 84	
Company		Pax	Company		Pax
Diamond Offshore		51	MI Australia PTY LTD		2
ESS		8	Neptune		2
Woodside		7	Subsea 7		6
BHI		2	Weatherford		1
Dowell Schlumberger		3	Tam International		1
Dril-Quip		1			

Lagging Indicators												
	HPI	LTJ	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	2	0	1	0	0	0	0	68	0	0
Well To Date	15	4	10	4	1	1	6	1927	1	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	5	0	2	0	0	0	2	341	0	1
Year To Date	15	4	10	4	1	1	6	1927	1	4
Comments/ Findings	GSR Comp Checks 2 - #1 - Working at Heights: Work on BOP gantry crane - compliant. Note: work suspended when found crane would not reach required work site. #2 - Lifting Ops: Lifting tubulars on pipe deck - compliant. PTW Audit 1 - Pit Room - Excellent housekeeping considering the amount of activity over the past week. Step changes clearly painted now. Correct PPE worn & extra PPE stored correctly ready for use when required. Number Observe Cards 68 - Safe/Unsafe: 56/12 (DODI - 35; ESS - 8; TPC - 18; WEL - 7)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	1	0							
Month To Date	1	0							
Year To Date	1	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 05 Nov 2009	
Operational Comments	<p>CAR: 87/143 items closed (13 critical)</p> <p>Top Stop Cards: #1 Observed man with a crack in his hard hat. Stopped him and explained that he was wearing unserviceable PPE and that he should see the SDR for a replacement. Man agreed and went to change hard hat right away. #2 Third party man about to descend stairs with both hands carrying a box. Stopped him and assisted him to carry the box. Encouraged him to seek assistance in the future so as to have one hand free for the handrail.</p> <p>Non-compliance trends: Requested focus on checking tools and equipment before use. Loose items around the deck causing slip, trip and fall hazards. PPE checks before use.</p> <p>DODI Supervisor audits conducted: 1 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Rig is clean and free of rubbish and debris. Changed soaker pads at port and aft anchor winch and koomey room.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
		24	100					294	55.68	232	43.94			2	0.38	528

Well Site Manager: Dennis Bell / Kevin Monkhouse				OIM: Rod Dotson			
Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	23.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	16.5	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 6.5 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Continuing to work string from 2552m to 2533m while building sufficient mud volume.				
RT-ML	524.5m	Planned Op	Continue to strip in hole to TD. Wait on barite.				

Cost Data				Daily Cost: \$736,667			
		AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)			
Mob/Demob	\$	5,900,000	\$ 3,182,286	\$ 5,500,000			
Drilling	\$	23,100,000	\$ 17,657,184	\$ 25,100,000			
Completion	\$	0	\$ 0	\$ 0			
Testing	\$	0	\$ 0	\$ 0			
Intervention	\$	0	\$ 0	\$ 0			
Well Total	\$	29,000,000	\$ 20,839,470	\$ 30,600,000			

Summary of Period 0000 to 2400 Hrs
Completed circulating riser to even 1.5sg (12.3ppg) mud weight, while waited on suitable weather window to commence stripping operations. Stripped in hole from 1103m to 2524m (some difficulties encountered).

Operations For Period 0000 Hrs to 2400 Hrs on 06 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (GWOR)	PA	WCT	0000	1200	12.00	2912.0m	Circulated and conditioned riser mud volume through booster line at 1540L/min (9.7bpm), 1100kPa (160psi). Returns circulated to a homogeneous and consistent mud wt - 1.5sg (12.3ppg). Continued to monitor well pressures. At 03:00hrs SICP - 2070kPa (300psi), KLM - 620kPa (90psi). Concurrent Operations: Prepared and reviewed stripping JSA. Reviewed Diamond and WDL stripping procedures. Verified crew stripping experience level. Fabricated and installed stripping tank set up. Conducted trial stripping drill. Identified potential VDL limitations for impending receipt of barite. Backloaded excess weight and equipment from rig to accommodate same.
NPT (GWOR)	PA	WCT	1200	1830	6.50	2912.0m	Continued to monitor well pressure while waiting on barite and suitable weather conditions for stripping in hole. Concurrent Operations: Conducted additional barite plug recipe tests.
NPT (GWOR)	PA	WCT	1830	1900	0.50	2912.0m	Held JSA with rig crew (including deck crew) for stripping in hole to TD.
NPT (GWOR)	PA	WCT	1900	2400	5.00	2912.0m	Stripped in hole from 2073m to 2425m - hole good. Annular pressure 4.1 - 4.8MPa (600-700psi). Took 18.1 - 36.3mt (40 - 80klbs) to go through tool joint. Hole tight at 2450m with 27.2mt (60klbs) down weight. Worked string back, attempted to circulate. String plugged. Cleared blockage with 17.8MPa (2600psi). Pumped 0.8m3/m (5bpm) at 8.9MPa (1300psi). Hole good. Stripped in hole f/ 2430 to 2495m - encountered tight hole. Attempted to circulate - string plugged. Cleared blockage with 13.7MPa (2000psi). At 24:00hrs SICP - 2415kPa (350psi), KLM - 1240kPa (180psi).
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 07 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT	PA	WCT	0000	0400	4.00	2912.0m	Worked stand down with up to 22.7mt (50klbs) weight down f/ 2495m to 2581m. Hole tight.

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
(GWOR)							Attempted to circulate, hole packed off. Cleared blockage with 2820kPa (4100psi). String stuck - no reciprocation or circulation. SICP - 2550kPa (370psi), KLM - 1450kPa (200psi). Bled 0.73m3 (4.6bbbls), 138kPa (20psi), to stripping tank through choke.
NPT (DHWC)	PA	WCT	0400	0600	2.00	2912.0m	Worked string free with 67.9mt (150klbs). Regained circulation, pumped 0.3m3/m (2bpm) with no pressure. Stripped pipe back to 2552m. (IN PROGRESS) Transferred barite from Lewek Swift to rig. Continued to work string f/ 2552m to 2533m while building sufficient mud volume. Pumped 0.8m3 (5bbbls) 1.7sg (14.2ppg) mud at 7.6L/min (2bpm) every half hour to clear any hole debris. Continued to monitor well on choke manifold. At 06:00hrs SICP - 2415kPa (350psi), KLM - 1240kPa (180psi).
Total Duration					6		

Casing									
OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner	
30 "	569.44	569.44			310.0	X56			
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC			

WBM Data									
Mud Type:	Polymer Mud	API FL:	4.0cc/30min	Cl:	33000mg/l	Solids(%vol):	23.0%	Viscosity	72sec/L
Sample-From:		Filter-Cake:	2/32nd"	K+C*1000:	2%	H2O:	77.0%	PV	34cp
Time:	11:00	HTHP-FL:		Hard/Ca:	170mg/l	Oil(%):	0.0%	YP	42lb/100ft ²
Weight:	1.70sg	HTHP-cake:		MBT:		Sand:	Trace	Gels 10s	8
Temp:	49C°	Glycol:		PM:		pH:	8.5	Gels 10m	10
				PF:	0.15	PHPA:		Fann 003	8
Comment	Duovis (XC polymer) added to mud when circulating riser. Continued to mix 1.70 sg reserve mud until barite ran out. QC checks on barite from last two shipments failed QC check on 600 rpm alone (300 + / 270 dial units). No contaminants identified, product possibly of a finer grade. Built seawater polymer premix in preparation for barite. Physical inventory - adjustments made on DMR. NPT (fluid related) - 0.							Fann 006	11
								Fann 100	38
								Fann 200	58
								Fann 300	76
								Fann 600	110

Bulk Stock										
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance	
'G' Cmt	MT	0	0	57.0	Drill Water	M3	40	52	361.0	
Fuel	M3	0	11.8	376.7	Barite	MT	0	14	7.0	
Pot Water	M3	0	19	315.0	Bentonite	MT	0	0	57.0	
CEMENT HT (SILICA)	MT	0	0	80.0						

Supply Vessel											
Boats		Status	Bulks			Boats		Status	Bulks		
Lewek Swift	On Route to Ocean Patriot. ETA - 04:00hrs 7/11/09.		Item	Unit	Quantity	Lewek Emerald	On Standby	Item	Unit	Quantity	
			Fuel	m3	378.4			Fuel	m3	488	
			Pot Water	m3	481			Pot Water	m3	115	
			Drill Water	m3	511			Drill Water	m3	256	
			CEMENT G	mt	66			CEMENT G	mt	40	
			CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0	
			Barite	mt	97			Barite	mt	0	
			Bentonite	mt	0			Bentonite	mt	0	
			BRINE	bbbls	0			BRINE	bbbls	424	

Personnel On Board				Total : 84
Company		Pax	Company	
Diamond Offshore		51	MI Australia PTY LTD	
ESS		8	Neptune	
Woodside		7	Subsea 7	
BHI		2	Weatherford	
Dowell Schlumberger		3	Tam International	
Dril-Quip		1		

Lagging Indicators												
	HPI	LTJ	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	1	0	0	0	70	0	0
Well To Date	15	4	10	5	1	1	6	1997	1	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	5	0	2	1	0	0	2	411	0	1
Year To Date	15	4	10	5	1	1	6	1997	1	4
Comments/ Findings	Area Inspection 1 - Sack Room - Housekeeping could be improved. Level changes not marked. Eye wash station difficult to access. PPE locker low, need to restock. Number Observe Cards 70 - Safe/Unsafe: 49/21 (DODI - 37; ESS - 11; TPC - 15; WEL - 7)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	1	0							
Month To Date	1	0							
Year To Date	1	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 06 Nov 2009	
Operational Comments	CAR: 87/143 items closed (13 critical) Top Stop Cards: #1 While using the bulk barite system, noticed silo was not airing up to normal pressure. Went and checked and saw the lid at top was not done up properly and was leaking air. Bled silo down and tightened the lid correctly. Silo repressured properly and continued safely. #2 While making up a connection using rig tongs, I noticed that the snub line was not sitting on the shackle correctly. I stopped the job, notified the man and the problem was rectified. Non-compliance trends: Basic unsafe acts - not looking for overhead loads, not using hands on stairway hand rails. Positive - personnel are checking tools and equipment and ensuring that they are safe and serviceable for the job. DODI Supervisor audits conducted: 0 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Cleaned excess hydraulic oil from anchor winch machine rooms. Assisted with hose watch for barite transfer from Lewek Emerald. Replaced soaker pads around the rig.

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
		24	100					294	53.26	256	46.38			2	0.36	552

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	24.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	16.5	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 7.5 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Taking on Barite from Lewek Emerald				
RT-ML	524.5m	Planned Op	Pump and displace 16.5ppg barite plugs to settle and seal off water flow.				

Cost Data				Daily Cost: \$736,667
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)	
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 18,393,851	\$ 25,100,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 21,576,137	\$ 30,600,000	

Summary of Period 0000 to 2400 Hrs
 Stripped into hole from 2495m to 2581m (HUD). Experienced tight hole. Awaiting delivery of barite. Worked string back to 2552m. Monitored well and maintained free pipe while building mud volume.

Operations For Period 0000 Hrs to 2400 Hrs on 07 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (GWOR)	PA	WCT	0000	0400	4.00	2912.0m	Worked stand down with up to 22.7mt (50klbs) weight down f/ 2495m to 2581m. Hole tight. Attempted to circulate, hole packed off. Cleared blockage with 2820kPa (4100psi). String stuck - no reciprocation or circulation. SICP - 2550kPa (370psi), KLM - 1450kPa (200psi). Bled 0.73m3 (4.6bbbls), 138kPa (20psi), to stripping tank through choke. Worked string free with 67.9mt (150klbs). Regained circulation, pumped 0.3m3/m (2bpm) with no pressure. Stripped pipe back to 2552m.
NPT (DHWC)	PA	WCT	0400	0730	3.50	2912.0m	Transferred barite from Lewek Swift to rig. Continued to work string f/ 2552m to 2533m while building sufficient mud volume. Pumped 0.8m3 (5bbbls) 1.7sg (14.2ppg) mud at 7.6L/min (2bpm) every half hour to clear any hole debris. Continued to monitor well on choke manifold. At 06:00hrs SICP - 2415kPa (350psi), KLM - 1240kPa (180psi).
NPT (DHWC)	PA	WCT	0730	2230	15.00	2912.0m	Continued to work string f/ 2552m to 2533m while building sufficient mud volume. Pumped 0.4m3 (2.5bbbls) 1.7sg (14.2ppg) mud at 7.6L/min (2bpm) every half hour to clear any hole debris. Continued to monitor well on choke manifold. At 22:00hrs SICP - 2550kPa (370psi), KLM - 1790kPa (260psi).
NPT (DHWC)	PA	WCT	2230	2300	0.50	2912.0m	Stripped back from 2533m to 2524m. Racked back one stand in preparation for commencing the barite plug pumping program.
NPT (DHWC)	PA	WCT	2300	2400	1.00	2912.0m	Picked up to middle single and continued to work string f/ 2512m to 2504m. Pumped 0.4m3 (2.5bbbls) 1.7sg (14.2ppg) mud at 7.6L/min (2bpm) every half hour to clear any hole debris. Continued to monitor well on choke manifold. At 23:00hrs SICP - 2480kPa (360psi), KLM - 1720kPa (250psi).
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 08 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	PA	WCT	0000	0600	6.00	2912.0m	(IN PROGRESS) Continued to work string f/ 2512m to 2504m. Pumped 0.4m3 (2.5bbbls) 1.7sg (14.2ppg) mud at 7.6L/min (2bpm) every half hour to clear any hole debris while waiting on Barite from Lewek Emerald. Continued to monitor well on choke manifold. At 08:00hrs SICP - 2550kPa (370psi), KLM - 1720kPa (250psi). 04:30 Emerald on location. Connected hose and transferred 67mT barite from Emerald to rig.

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
Total Duration					6		

Casing									
OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner	
30 "	569.44	569.44			310.0	X56			
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC			

WBM Data									
Mud Type:	Polymer Mud	API FL:	4.2cc/30min	Cl:	34000mg/l	Solids(%vol):	24.0%	Viscosity	69sec/L
Sample-From:		Filter-Cake:	2/32nd"	K+C*1000:	2%	H2O:	76.0%	PV	33cp
Time:	11:00	HTHP-FL:		Hard/Ca:	180mg/l	Oil(%):	0.0%	YP	41lb/100ft ²
Weight:	1.70sg	HTHP-cake:		MBT:		Sand:	Trace	Gels 10s	8
Temp:	49C°	Glycol:		PM:		pH:	8.5	Gels 10m	10
				PF:	0.16	PHPA:		Fann 003	8
								Fann 006	11
								Fann 100	35
Comment	Received 86.MT Barite from boat. QC check: Fail (600 rpm= 257). Adjusted inventory on Idcap D to physical count. Weighted up Pit volumes to 1.7 sg. Pilot tested Barite plugs. Cleaned out Slug tank for Barite Plug mixwater. NPT (fluid related) - 0.							Fann 200	56
								Fann 300	74
								Fann 600	107

Bulk Stock										
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance	
'G' Cmt	MT	0	0	57.0	Drill Water	M3	1	19	343.0	
Fuel	M3	0	15.2	361.5	Barite	MT	86	80	13.0	
Pot Water	M3	39	25	329.0	Bentonite	MT	0	0	57.0	
CEMENT HT (SILICA)	MT	0	0	80.0						

Supply Vessel											
Boats		Status	Bulks			Boats		Status	Bulks		
Lewek Swift	On Standby		Item	Unit	Quantity	Lewek Emerald	In Portland		Item	Unit	Quantity
			Fuel	m3	364.8				Fuel	m3	477.5
			Pot Water	m3	477				Pot Water	m3	180
			Drill Water	m3	511				Drill Water	m3	256
			CEMENT G	mt	66				CEMENT G	mt	40
			CEMENT HT (SILICA)	mt	0				CEMENT HT (SILICA)	mt	0
			Barite	mt	0				Barite	mt	140
			Bentonite	mt	0				Bentonite	mt	0
			BRINE	bbbls	0				BRINE	bbbls	424

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	09:16 / 09:22	2 / 0	

Personnel On Board				Total : 86
Company	Pax	Company	Pax	
Diamond Offshore	52	MI Australia PTY LTD	2	
ESS	8	Neptune	2	
Woodside	8	Subsea 7	6	
BHI	2	Weatherford	1	
Dowell Schlumberger	3	Tam International	1	
Dril-Quip	1			

Lagging Indicators												
	HPI	LTJ	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	2	0	0	0	0	0	0	77	0	0
Well To Date	17	4	10	5	1	1	6	2074	1	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	7	0	2	1	0	0	2	488	0	1
Year To Date	17	4	10	5	1	1	6	2074	1	4
Comments/ Findings	GSR Comp Checks 2 - #1: Electrical Isolation - compliant. #2: Confined Space Entry to repair dump valve in Pit #1 - compliant. Number Observe Cards 77 - Safe/Unsafe: 53/24 (DODI - 45; ESS - 7; TPC - 18; WEL - 7)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	1	0							
Month To Date	1	0							
Year To Date	1	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 07 Nov 2009	
Operational Comments	<p>CAR: 87/143 items closed (13 critical) Top Stop Cards: #1 Young supply boat crewman was observed carrying excessive survey equipment up the stairs. Advised him to stop and make two trips. He didn't, so I explained that I didn't want to be responsible if he injured himself. Also mentioned this to the first mate who said that he would follow up on it. #2 Saw some people working in an area where it was possible to fall over the edge. Stopped the job and discussed the dangers. People agreed and went to put on harnesses.</p> <p>Non-compliance trends: Equipment and tool deficiencies. Personnel are checking tools and equipment and checking that they are safe and serviceable for the job. DODI Supervisor audits conducted: 3 DODI Interventions conducted: 5 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Rig clean and free of debris. Mopped oily water from inside port crane refueling bunding. Cleaned all excess hydraulic oil from inside the anchor winch machine rooms.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
		24	100					294	51.04	280	48.61			2	0.35	576

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	25.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	16.5	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 6.6 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Monitoring well at 2188m while barite plugs settle out.				
RT-ML	524.5m	Planned Op	Tag barite plug. Continue with well kill and abandonment programme.				

Cost Data		Daily Cost: \$736,667		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)	
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 19,130,518	\$ 25,100,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 22,312,804	\$ 30,600,000	

Summary of Period 0000 to 2400 Hrs
 Waited on material (barite). Spotted 3.2m3 (20bbl) 1.98sg (16.5ppg) barite pills at 2520m, 2462m, 2405m and 2348m. Stripped out to 2188m and monitored well while barite pills settled out.

Operations For Period 0000 Hrs to 2400 Hrs on 08 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	PA	WCT	0000	0800	8.00	2912.0m	Continued to work string f/ 2512m to 2504m. Pumped 0.4m3 (2.5bbls) 1.7sg (14.2ppg) mud at 7.6L/min (2bpm) every half hour to clear any hole debris while waiting on Barite from Lewek Emerald. Continued to monitor well on choke manifold. At 08:00hrs SICP - 2550kPa (370psi), KLM - 1720kPa (250psi). 04:30 Emerald on location. Connected hose and transferred 67mT barite from Emerald to rig.
NPT (DHWC)	PA	WCT	0800	0900	1.00	2912.0m	Lined up drill string to Dowell Unit. Dowell pumped 0.8m3 (5bbls), 1.7SG (14.2ppg) mud. Pressure tested lines to 27,600kPa (4000psi) for 5mins. Good test.
NPT (DHWC)	PA	WCT	0900	0930	0.50	2912.0m	Dowell mixed and pumped 3.2m3 (20bbls) of 1.98SG (16.5ppg) barite slurry (plug #1) and displaced with 1.6m3 (10bbls) of 1.7sg (14.2ppg) mud. Switched to the rig pumps and displaced barite slurry with 23m3 (145bbls) of 1.7sg (14.2ppg) mud. Initial pressures: SICP 2820kPa (410psi), SIDDP 410kPa (60psi), KLM 2000kPa (290psi). Displacement pressures: SICP 3240kPa (470psi), DP 5930kPa (860psi), KLM 2480kPa (360psi).
NPT (DHWC)	PA	WCT	0930	1000	0.50	2912.0m	Stripped out of hole through the lower annular from 2520m to 2462m.
NPT (DHWC)	PA	WCT	1000	1030	0.50	2912.0m	Dowell mixed and pumped 3.2m3 (20bbls) of 1.98sg (16.5ppg) barite slurry (plug #2) and displaced with 1.6m3 (10bbls) of 1.7sg (14.2ppg) mud. Switched to the rig pumps and displaced barite slurry with 22.5m3 (142bbls) of 1.7sg (14.2ppg) mud. Initial pressures: SICP 2760kPa (400psi), SIDDP 280kPa (40psi), KLM 1860kPa (270psi). Displacement pressures: SICP 3720kPa (540psi), DP 6410kPa (930psi), KLM 2890kPa (420psi).
NPT (DHWC)	PA	WCT	1030	1100	0.50	2912.0m	Stripped out of hole through the lower annular from 2462m to 2313m.
NPT (DHWC)	PA	WCT	1100	1330	2.50	2912.0m	Monitored well while waiting on barite pills to settle. Reciprocated pipe every 15 minutes. SICP 2480kPa (360psi), SIDDP 410kPa (60psi), KLM 1440kPa (210psi).
NPT (DHWC)	PA	WCT	1330	1400	0.50	2912.0m	Held JSA. Stripped pipe in hole through Lower Annular from 2313m to 2405m.
NPT (DHWC)	PA	WCT	1400	1500	1.00	2912.0m	Held JSA. Dowell pumped 0.8m3 (5bbls) of 1.7sg (14.2ppg) mud to confirm line up. Dowell mixed and pumped 3.2m3 (20bbls) of 1.98sg (16.5ppg) barite slurry (plug #3) and displaced with 1.6m3 (10bbls) of 1.7sg (14.2ppg) mud. Switched to the rig pumps and displaced barite slurry with 22m3 (138bbls) of 1.7sg

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	PA	WCT	1500	1530	0.50	2912.0m	(14.2ppg) mud at 1.6m3/min (10bpm). Initial pressures: SICP 2760kPa (400psi), SIDDP 280kPa (40psi), KLM 1860kPa (270psi). Displacement pressures: SICP 3240kPa (470psi), DP 5930kPa (860psi), KLM 2480kPa (360psi) Stripped out of hole through the Lower Annular from 2405m to 2246m.
NPT (DHWC)	PA	WCT	1530	1830	3.00	2912.0m	Monitored well while waiting on barite pills to settle. Reciprocated pipe every 15 minutes. SICP 2480kPa (360psi), SIDDP 280kPa (40psi), KLM 1790kPa (260psi).
NPT (DHWC)	PA	WCT	1830	1900	0.50	2912.0m	Held JSA and stripped into hole through Lower Annular from 2246m to 2348m.
NPT (DHWC)	PA	WCT	1900	1930	0.50	2912.0m	Held JSA. Dowell pumped 0.8m3 (5bbls) of 1.7sg (14.2ppg) mud to confirm line up. Dowell mixed and pumped 3.2m3 (20bbls) of 1.98sg (16.5ppg) barite slurry (plug # 4) and displaced with 1.6m3 (10bbls) of 1.7sg (14.2ppg) mud Switched to the rig pumps and displaced barite slurry with 22m3 (138bbls) of 1.7sg (14.2ppg) mud at 1.6m3/min (10bpm). Initial pressures: SICP 2480kPa (360psi), SIDDP 280kPa (40psi), KLM 1720kPa (250psi). Displacement pressures: SICP 2890kPa (420psi), DP 5510kPa (800psi), KLM 2130kPa (310psi)
NPT (DHWC)	PA	WCT	1930	2000	0.50	2912.0m	Stripped out of hole through Lower Annular from 2348m to 2188m
NPT (DHWC)	PA	WCT	2000	2400	4.00	2912.0m	Monitored well while waiting on barite pills to settle. Reciprocated pipe and pumped 0.4m3 (2.5bbl) 1.7sg (14.2ppg) mud at 0.5m3/min (2bbl/min) every 60 minutes to confirm drill string was free and clear. Pressures at 24:00 - SCIP 2480kPa (360psi), SIDPP 380kPa (55psi), KLM 1860kPa (270psi)
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 09 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	PA	WCT	0000	0600	6.00	2912.0m	Monitored well while waiting on barite pills to settle. Reciprocated pipe and pumped 0.4m3 (2.5bbl) 1.7sg (14.2ppg) mud at 0.5m3/min (2bbl/min) every 60 minutes to confirm drill string was free and clear. Pressures at 06:00 - SCIP 2480kPa (360psi), SIDPP 380kPa (55psi), KLM 1860kPa (270psi)
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

WBM Data

Mud Type:	Polymer Mud	API FL:	4.2cc/30min	Cl:	33000mg/l	Solids(%vol):	22.4%	Viscosity	71sec/L
Sample-From:		Filter-Cake:	2/32nd"	K+C*1000:	2%	H2O:	76.0%	PV	33cp
Time:	11:00	HTHP-FL:		Hard/Ca:	170mg/l	Oil(%):	0.0%	YP	39lb/100ft²
Weight:	1.70sg	HTHP-cake:		MBT:		Sand:	Trace	Gels 10s	7
Temp:	49C°	Glycol:		PM:		pH:	9.5	Gels 10m	9
				PF:	0.15	PHPA:		Fann 003	7
								Fann 006	11
								Fann 100	34
Comment	Prepared 65bbl of fresh water SAPP premix for barite pills. Received 67mT barite from Emerald. QC check, 600rpm=273. No contaminant found. Built 1.70sg mud for plug displacement.							Fann 200	54
								Fann 300	72
								Fann 600	105

Bulk Stock

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	0	78	265.0
Fuel	M3	0	8.7	352.8	Barite	MT	150	51	112.0
Pot Water	M3	40	27	342.0	Bentonite	MT	0	0	57.0
CEMENT HT (SILICA)	MT	0	0	80.0					

Supply Vessel															
Boats		Status			Bulks			Boats		Status			Bulks		
Lewek Swift	Under way to Ocean Patriot	Item	Unit	Quantity	Lewek Emerald	On Standby	Item	Unit	Quantity						
		Fuel	m3	354.3			Fuel	m3	462						
		Pot Water	m3	469			Pot Water	m3	175						
		Drill Water	m3	511			Drill Water	m3	256						
		CEMENT G	mt	66			CEMENT G	mt	40						
		CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0						
		Barite	mt	90			Barite	mt	0						
		Bentonite	mt	0			Bentonite	mt	0						
		BRINE	bbls	0			BRINE	bbls	424						

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	09:26 / 09:33	3 / 1	

Personnel On Board				Total : 88	
Company		Pax	Company		Pax
Diamond Offshore		52	MI Australia PTY LTD		2
ESS		8	Neptune		2
Woodside		7	Subsea 7		6
BHI		2	Weatherford		1
Dowell Schlumberger		3	Tam International		1
Dril-Quip		1	Schlumberger (Wireline)		3

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	4	1	2	0	0	0	1	69	1	0
Well To Date	21	5	12	5	1	1	7	2143	2	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	11	1	4	1	0	0	3	557	1	1
Year To Date	21	5	12	5	1	1	7	2143	2	4
Comments/ Findings	<p>GSR Comp Checks 4 - #1 Permit to Work Checklist: Use of high pressure wash gun on rig floor - compliant. #2 Lifting operations checklist: general cargo movement around port and starboard pipe racks - compliant.; #3 Lifting operations on stbd deck - compliant. #4 Pre-job checklist: JSA for barite plug - escape routes known and pump shutdown discussed. JSA Comp Checks 1 - Mixing caustic in mixing drum - compliant, correct PPE used.</p> <p>PTW Audit 2 - #1 Mixing caustic in mixing drum - compliant, correct PPE worn. #2 Cleaning fuel filters in motor room - excellent house keeping throughout the job, compliant.</p> <p>Drills 1 - Abandon rig fire drill. 08/11/09 All personnel mustered in excellent time.</p> <p>Number Observe Cards 69 - Safe/Unsafe: 57/12 (DODI - 37; ESS - 6; TPC - 14; WEL - 12)</p> <p>ER Exercises 1 - Current well control circumstances are considered to be ER level 2 exercise compliant/appropriate.</p>									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	1	0							
Month To Date	1	0							
Year To Date	1	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 08 Nov 2009	
Operational Comments	<p>CAR: 87/143 items closed (13 critical)</p> <p>Top Stop Cards: #1 Observed container about to be lifted with doors that were not cable tied or locked in place. Stopped lift and had container secured and cable tied to prevent doors opening during lift. #2 To all crew. Please take notice if the crane operator sounds horn in the crane, he is not saying hello, he is warning you that there is a load on the hook and that you need to get out of the way. Discussed with Woodside H&S rep.</p> <p>Non-compliance trends: Checking of containers before lifting and looking out for loads above.</p> <p>DODI Supervisor audits conducted: 2</p> <p>DODI Interventions conducted: 4</p> <p>Woodside Interventions conducted: 7</p> <p>Daily Environmental Checklist findings: Rig clean and free of debris.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
		24	100					294	49	304	50.67			2	0.33	600

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	26.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	16.5	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 6.44 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Preparing to pump and bullhead cement slurry at 1178m.				
RT-ML	524.5m	Planned Op	Continue with well kill and abandonment programme				

Cost Data				Daily Cost: \$736,667
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)	
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 19,867,185	\$ 25,100,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 23,049,471	\$ 30,600,000	

Summary of Period 0000 to 2400 Hrs
 Waited on barite plug to settle. Stripped in hole and tagged barite plug at 2311m with 27mT (60klbs). Pulled out of hole to 2307m and pumped 15.3m3 (96bbl) cement slurry down hole. Stripped out of hole to shoe and WOC (L/DN 5" DP offline). Commenced stripping in hole to tag TOC.

Operations For Period 0000 Hrs to 2400 Hrs on 09 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	PA	WCT	0000	0800	8.00	2912.0m	Monitored well while waiting on barite plug to settle. Reciprocated pipe and pumped 0.4m3 (2.5bbl) 1.7sg (14.2ppg) mud at 0.5m3/min (2bbl/min) every hour to confirm drill string was free and clear. Pressures at 08:00 - SCIP 2480kPa (360psi), SIDPP 340kPa (50psi), KLM 1790kPa (260psi)
NPT (DHWC)	PA	WCT	0800	0830	0.50	2912.0m	Stripped in hole through lower annular from 2188m to tag the top of Barite plug at 2311m with 27mT (60k) down weight.
NPT (DHWC)	PA	WCT	0830	0930	1.00	2912.0m	Stripped out of hole from 2311m to 2294m. Made up cement head single to drill string and ran in to 2307m.
NPT (DHWC)	PA	WCT	0930	1000	0.50	2912.0m	Held pre job JSA meeting on cementing.
NPT (DHWC)	PA	WCT	1000	1030	0.50	2912.0m	Dowell pumped 1.6m3 (10bbls) of drill water and pressure tested surface lines to 27,500kPa (4000psi) / 5 minutes. Good test.
NPT (DHWC)	PA	WCT	1030	1100	0.50	2912.0m	Dowell pumped 0.8m3 (5bbls) drill water spacer. Dowell mixed and pumped 15.3m3 (96bbls) 1.9sg (15.8ppg) cement slurry and displaced with 0.3m3 (2bbls) drillwater spacer and 1.6m3 (10bbls) 1.7sg (14.2ppg) mud. Switched to rig pumps and displaced cement with 17.5m3 (110bbls) 1.7sg (14.2ppg) mud at 1.9m3/min (12bbl/min). Static pressures: SICP 2820kPa (410psi), KLM 2060kPa (300psi), SIDPP 340kPa (50psi). Displacement pressures. SICP 3240kPa (470psi), KLM 2480kPa (360psi), DP 11370kPa (1650psi)
NPT (DHWC)	PA	WCT	1100	1230	1.50	2912.0m	Laid out cement head single and stripped out of hole from 2307m to 2034m. Pumped 23.8m3 (150bbls) 1.7sg (14.2ppg) mud down string at 0.2m3/min (1.5bbl/min). SICP 2820kPa (410psi), KLM 2060kPa (300psi), SIDPP 340kPa (50psi).
NPT (DHWC)	PA	WCT	1230	1500	2.50	2912.0m	Stripped out of hole from 2034m to 1247m. Pumped 2.3m3 (15bbls) 1.7sg (14.2ppg) mud down string at 0.3m3/min (2bbl/min). SICP 2410kPa (350psi), SIDPP 410kPa (60psi), KLM 1510kPa (220psi).
NPT (DHWC)	PA	WCT	1500	2100	6.00	2912.0m	Monitored well while waited on cement. (Held JSA and laid out 69jts of 127mm (5") DP from derrick off line). SICP 2410kPa (350psi), SIDPP 410kPa (60psi), KLM 1510kPa (220psi).
NPT (DHWC)	PA	WCT	2100	2400	3.00	2912.0m	Held JSA and stripped into hole from 1247m to 1736m. SICP 2480kPa (360psi), SIDPP 340kPa (50psi), KLM 1790kPa (260psi).
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 10 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
NPT (DHWC)	PA	WCT	0000	0200	2.00	2912.0m	Stripped in hole from 1736m to tag TOC at 2113m 18mT (40klbs) with pumps. SICP 2410kPa (350psi), SIDPP 410kPa (60psi), KLM 1510kPa (220psi).
NPT (DHWC)	PA	WCT	0200	0400	2.00	2912.0m	Stripped out of hole from 2113m to 1528m.
NPT (DHWC)	PA	WCT	0400	0430	0.50	2912.0m	Pumped to bullhead 15.2m3 (96bbls) 1.7sg (14.2ppg) Hi Vis pill and displaced with 13m3 (82bbls) of 1.7sg (14.2ppg) mud at 1.3m3/min (8bpm).
NPT (DHWC)	PA	WCT	0430	0530	1.00	2912.0m	Stripped out of hole from 1528m to 1190m.
NPT (DHWC)	PA	WCT	0530	0600	0.50	2912.0m	Laid out 2 singles and picked up cement head single to space out on cementing depth at 1178m.
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

WBM Data

Mud Type: Polymer Mud	API FL: 4.3cc/30min	Cl: 33000mg/l	Solids(%vol): 22.6%	Viscosity 69sec/L
Sample-From:	Filter-Cake: 1/32nd"	K+C*1000:	H2O: 76.0%	PV 32cp
Time: 11:00	HTHP-FL:	Hard/Ca: 180mg/l	Oil(%): 0.0%	YP 39lb/100ft ²
Weight: 1.70sg	HTHP-cake:	MBT:	Sand: Trace	Gels 10s 10
Temp: 49C°	Glycol:	PM:	pH: 9.5	Gels 10m 8
		PF: 0.15	PHPA:	Fann 003 6
Comment	Built up additional 87.4m3 (550bbls) 1.7SG mud in pits using a Duovis and Drispac SL premix. Empty pits cleaned. Prepared pit for Hi Vis Gel mixing.			Fann 006 10
				Fann 100 33
				Fann 200 52
				Fann 300 71
				Fann 600 103

Bulk Stock

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	57.0	Drill Water	M3	0	38	227.0
Fuel	M3	0	8.7	344.1	Barite	MT	0	101	11.0
Pot Water	M3	40	24	358.0	Bentonite	MT	0	0	57.0
CEMENT HT (SILICA)	MT	0	20	60.0					

Supply Vessel

Boats		Status	Bulks			Boats		Status	Bulks		
Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity
Lewek Swift	On Standby		Lewek Emerald	Under way to Ocean Patriot		Fuel	m3	452.5	Fuel	m3	452.5
						Pot Water	m3	170	Pot Water	m3	170
						Drill Water	m3	256	Drill Water	m3	256
						CEMENT G	mt	40	CEMENT G	mt	40
						CEMENT HT (SILICA)	mt	0	CEMENT HT (SILICA)	mt	0
						Barite	mt	90	Barite	mt	90
						Bentonite	mt	0	Bentonite	mt	0
						BRINE	bbls	424	BRINE	bbls	424

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
2	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	13:18 / 13:32	4 / 11	
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	09:59 / 10:06	2 / 0	Diamond Management visit

Personnel On Board			Total : 83
Company	Pax	Company	Pax
Diamond Offshore	52	Dril-Quip	1
ESS	8	MI Australia PTY LTD	2
Woodside	6	Neptune	2
BHI	2	Subsea 7	6
Dowell Schlumberger	3	Weatherford	1

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	1	0	0	0	0	0	80	0	0
Well To Date	21	6	12	5	1	1	7	2223	2	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	11	2	4	1	0	0	3	637	1	1
Year To Date	21	6	12	5	1	1	7	2223	2	4
Comments/ Findings	JSA Comp Checks 1 - Laying out drillpipe to pipe deck. Good awareness of pinch points and body positions - compliant. Number Observe Cards 80 - Safe/Unsafe: 57/23 (DODI - 37; ESS - 7; TPC - 22; WEL - 14)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	1	0							
Month To Date	1	0							
Year To Date	1	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 09 Nov 2009	
Operational Comments	CAR: 87/143 items closed (13 critical) Top Stop Cards: #1 Noticed eye wash station in rusty locker had tools hanging above it and caps on nozzles missing. Removed tools and steel bar that they hung on, to prevent from happening again. Reported missing cap. #2 While doing HLO duties found a piece of tin wedged into the helipad drain. Could have dislodged and caused damage to the helicopter. Pulled tin out and placed in the scrap metal bin. Non-compliance trends: Tools and equipment causing trip hazards. Incorrect PPE for the job. DODI Supervisor audits conducted: 1 DODI Interventions conducted: 4 Woodside Interventions conducted: 4 Daily Environmental Checklist findings: Rig clean and free of debris.

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
		24	100					294	47.12	328	52.56			2	0.32	624

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	27.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	21.65	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 5.35 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Jetting well head prior to recovering wear bushing.				
RT-ML	524.5m	Planned Op	Recover wear bushing. Pull BOP's.				

Cost Data		Daily Cost: \$736,667		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)	
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 20,603,852	\$ 25,100,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 23,786,138	\$ 30,600,000	

Summary of Period 0000 to 2400 Hrs
 Stripped in hole and tagged cement at 2113m. Stripped back and bullheaded cement across shoe. WOC and tag TOC at 1204m. Pressure tested cement plug in casing to 6210kPa (900psi) - OK. Opened well under controlled conditions and flow checked. Well static. Spotted cement plugs at 1197m and 610m. Circulated at 530m and displaced riser to seawater.

Operations For Period 0000 Hrs to 2400 Hrs on 10 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	PA	PNA	0000	0200	2.00	2912.0m	Stripped in hole from 1736m to tag TOC at 2113m (18mT (40kbs) with pumps). SICP 2410kPa (350psi), SIDPP 410kPa (60psi), KLM 1510kPa (220psi).
P	PA	PNA	0200	0400	2.00	2912.0m	Stripped out of hole from 2113m to 1528m.
P	PA	PNA	0400	0430	0.50	2912.0m	Pumped to bullhead 15.2m3 (96bbbls) 1.7sg (14.2ppg) Hi Vis pill and displaced with 13m3 (82bbbls) of 1.7sg (14.2ppg) mud at 1.3m3/min (8bpm).
P	PA	PNA	0430	0530	1.00	2912.0m	Stripped out of hole from 1528m to 1190m.
P	PA	PNA	0530	0600	0.50	2912.0m	Laid out 2 singles and picked up cement head single to space out on cementing depth at 1178m.
P	PA	PNA	0600	0630	0.50	2912.0m	Held pre job JSA on cementing.
P	PA	PNA	0630	0700	0.50	2912.0m	Dowell pumped 1.6bbbls (10bbbls) of drill water. Pressure tested surface lines to 27,600kPa (4000psi) - 5mins. Good test.
P	PA	PNA	0700	0800	1.00	2912.0m	Dowell pumped 0.8m3 (5bbbls) DW. Dowell mixed and pumped 15.2m3 (96bbbls) 1.94sg (16.2ppg) cement slurry (352sx G cement used). Dowell displaced with 0.3m3 (2bbl) drill water followed with 11.7m3 (74bbbls) 1.7sg (14.2 ppg) mud at 1.2m3/min (8 bbl/min). During pumping: SICP 2960kPa (430psi), SIDDP 5510kPa (800psi), KLM 22,70kPa (330psi).
P	PA	PNA	0800	0830	0.50	2912.0m	Laid out cement head single. Stripped out of hole from 1178m to 1103m.
P	PA	PNA	0830	1200	3.50	2912.0m	Waited on cement. Closed LPR and flushed kill and choke lines to seawater. Opened LPR and monitored well pressure (While WOC, laid out 39jts of 127mm (5") DP from derrick).
P	PA	PNA	1200	1330	1.50	2912.0m	Held JSA. Stripped into well from 1103m to tag TOC at 1204m (74m above the 340mm (13 3/8") shoe).
P	PA	PNA	1330	1430	1.00	2912.0m	Pressure tested cement plug to 6210kPa (900psi) (4140kPa (600psi) above SICP). Test good. Bled off well through choke.
P	PA	PNA	1430	1530	1.00	2912.0m	Closed LPR. Displaced kill and choke lines to seawater. Closed diverter bag, opened lower annular to U-Tube fluid under annular to kill and choke lines, keeping riser filled with trip tank. Observed zero pressure on well. Opened LPR and diverter. Monitored well on trip tank. Well static.
P	PA	PNA	1530	1730	2.00	2912.0m	Circulated and conditioned mud at 3m3/min (19 bbl/min) until gas levels reduced.
P	PA	PNA	1730	1830	1.00	2912.0m	Held JSA. Rigged up cementing single to 1197m.
P	PA	PNA	1830	1900	0.50	2912.0m	Dowell pumped 1.6m3 (10bbbls) drillwater. Pressure tested surface lines to 27,500kPa (4000psi) 5mins. OK. Dowell pumped 0.8m3 (5bbbls) drillwater, mixed and pumped 3.8m3

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
							(24.3bbls) 1.94sg (16.2ppg) class G cement slurry. Dowell displaced with 0.3m3 (2bbls) drillwater followed by 9.6m3 (60bbls) 1.7sg (14.2ppg) mud. Checked no back flow and rigged down surface lines.
P	PA	PNA	1900	2100	2.00	2912.0m	POOH from 1197m to 710m.
P	PA	PNA	2100	2130	0.50	2912.0m	Spotted 7.6m3 (48bbl) 1.5sg (12.5ppg) Hi Vis pill at 710m.
P	PA	PNA	2130	2200	0.50	2912.0m	POOH from 710m and make up cementing head single to space out to 610m.
P	PA	PNA	2200	2230	0.50	2912.0m	Dowell pumped 1.6m3 (10bbls) drillwater. Pressure tested surface lines to 13,700kPa (2000psi) 5mins. OK. Dowell pumped 0.8m3 (5bbls) drillwater, mixed and pumped 3.8m3 (24.3bbls) (15.8ppg) 1.9sg class G cement slurry. Dowell displaced with 0.3m3 (2bbls) drillwater followed by 4m3 (25bbls) 1.7sg (14.2ppg) mud. Checked no back flow and rigged down surface lines.
P	PA	PNA	2230	2300	0.50	2912.0m	Laid out cement head single and POOH from 610m to 530m.
P	PA	CCM	2300	2400	1.00	2912.0m	Flushed drill string. Displaced riser and booster line to seawater at 3.1m3/min (20bbl/min). Dumped returns at shakers.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 11 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	PA	CCM	0000	0030	0.50	2912.0m	Displaced riser to seawater.
P	PA	PUP	0030	0400	3.50	2912.0m	Broke down cement head single. POOH laying out 57jts of 127mm (5") DP.
P	PA	PUB	0400	0430	0.50	2912.0m	Made WBRT with jetting assembly below.
P	PA	RBH	0430	0600	1.50	2912.0m	RIH with WBRT and jetting assembly to 501m.
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

WBM Data

Mud Type:	Polymer Mud	API FL:	4.2cc/30min	Cl:	33000mg/l	Solids(%vol):	22.7%	Viscosity	70sec/L
Sample-From:		Filter-Cake:	1/32nd"	K+C*1000:		H2O:	76.0%	PV	32cp
Time:	11:00	HTHP-FL:		Hard/Ca:	180mg/l	Oil(%):	0.0%	YP	38lb/100ft ²
Weight:	1.70sg	HTHP-cake:		MBT:		Sand:	Trace	Gels 10s	70
Temp:	49C°	Glycol:		PM:		pH:	9.5	Gels 10m	9
				PF:	0.14	PHPA:		Fann 003	6
								Fann 006	10
								Fann 100	31
								Fann 200	50
								Fann 300	70
								Fann 600	102
Comment	Mixed 215bbls 1.7sg Bentonite Hi-Vis for abandonment programme. Cut weight back to 1.5sg after first pill pumped. All bulk barite and bentonite charged off as products planned to be mixed and discharged. Final mud report. Mud Engineers downmanned on the 11th November.								

Bulk Stock

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	41	16.0	Drill Water	M3	0	97	129.0
Fuel	M3	0	10.8	333.3	Barite	MT	82	26	66.0
Pot Water	M3	41	26	373.0	Bentonite	MT	0	1	56.0
CEMENT HT (SILICA)	MT	0	0	60.0					

Supply Vessel															
Boats		Status			Bulks			Boats		Status			Bulks		
Lewek Swift	On Standby at Ocean Patriot	Item	Unit	Quantity	Lewek Emerald	At Portland	Item	Unit	Quantity						
		Fuel	m3	326.3			Fuel	m3	435.5						
		Pot Water	m3	461			Pot Water	m3	165						
		Drill Water	m3	511			Drill Water	m3	256						
		CEMENT G	mt	66			CEMENT G	mt	40						
		CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0						
		Barite	mt	0			Barite	mt	132						
		Bentonite	mt	0			Bentonite	mt	0						
		BRINE	bbls	0			BRINE	bbls	424						

Personnel On Board				Total : 83	
Company		Pax	Company		Pax
Diamond Offshore		52	Dril-Quip		1
ESS		8	MI Australia PTY LTD		2
Woodside		6	Neptune		2
BHI		2	Subsea 7		6
Dowell Schlumberger		3	Weatherford		1

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	86	0	0
Well To Date	21	6	12	5	1	1	7	2309	2	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	11	2	4	1	0	0	3	723	1	1
Year To Date	21	6	12	5	1	1	7	2309	2	4
Comments/ Findings	Number Observe Cards 86 - Safe/Unsafe: 72/14 (DODI - 51; ESS - 8; TPC - 15; WEL - 12)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	1	0							
Month To Date	1	0							
Year To Date	1	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 10 Nov 2009	
Operational Comments	<p>CAR: 101/143 items closed (13 critical) Top Stop Cards: #1 Saw man hitting a hammer union without using PPE. I stopped the job and told the person to put on correct PPE. #2 Dust extractors on the mixing hoppers at the sack room cannot remove the dust during mixing of barite and gel. Men are wearing dust masks but there is always a chance to inhale the dust. The extractors need repair and a dust bag would greatly reduced the quantity of dust.</p> <p>Non-compliance trends: Tools and equipment causing trip hazards. Tools found in need of repair or replacement before starting job. DODI Supervisor audits conducted: 2 DODI Interventions conducted: 4 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Rig clean and free of debris.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
24	100							318	49.07	328	50.62			2	0.31	648

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	28.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	16.5	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 5.7 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Laying out Riser.				
RT-ML	524.5m	Planned Op	Recover BOPs to setback. RIH with casing cutter to cut and recover PGB/TGB and wellhead. Lay down drill string. Ballast rig to transit draft. Commence anchor handling				

Cost Data	Daily Cost: \$736,667		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)
Mob/Demob	\$ 5,900,000	\$ 3,182,286	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 21,340,519	\$ 25,100,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 24,522,805	\$ 30,600,000

Summary of Period 0000 to 2400 Hrs
Laid out DP. M/U WBRT and recovered wear bushing to surface. R/U commenced pulling BOP. Currently laying out riser to the Lewek Emerald.

Operations For Period 0000 Hrs to 2400 Hrs on 11 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	PA	PUP	0000	0030	0.50	2912.0m	Broke down cement head single. Held JSA and rigged up to lay out DP.
P	PA	PUP	0030	0400	3.50	2912.0m	POOH from 530m laying out 57 jts of 127mm (5") DP.
P	PA	PUB	0400	0430	0.50	2912.0m	Made up Wear Bushing Retrieval Tool (WBRT) with jetting assembly below.
P	PA	RBH	0430	0700	2.50	2912.0m	RIH with WBRT and jetting assembly to top of BOP at 508m. Jetted BOPs and wellhead, 2.2m3/min (600gpm), 2750kPa (400psi). Landed WBRT in wellhead with 9mt (20k) down weight. Sheared wearbushing pins with 29.5mt (65k) overpull and recovered WB. Jetted wellhead while picking up through BOP.
P	PA	RBH	0700	0830	1.50	2912.0m	POOH with WB on WBRT. Flushed diverter overboard lines with seawater.
P	PA	RBH	0830	0900	0.50	2912.0m	Laid out WB and WBRT jetting assembly. Laid out 4 jts of 127mm (5") DP.
P	PA	RBOP	0900	1100	2.00	2912.0m	Held JSA and rigged up riser handling equipment.
P	PA	RBOP	1100	1200	1.00	2912.0m	Laid out diverter assembly.
P	PA	RBOP	1200	1230	0.50	2912.0m	Held JSA. Made up landing joint to slip joint.
P	PA	RBOP	1230	1300	0.50	2912.0m	Performed PM on slip jt as per Diamond PM procedure.
NPT (SRE)	PA	RBOP	1300	1330	0.50	2912.0m	Repaired broken spring on slip joint locking dog.
P	PA	RBOP	1330	1400	0.50	2912.0m	Removed slip jt hoses and wireline compensating line.
NPT (SRE)	PA	RBOP	1400	1500	1.00	2912.0m	Collapsed and locked slip joint. Unlatched BOP and picked BOPs up clear of PGB.
P	PA	RBOP	1500	1700	2.00	2912.0m	Skidded rig 22.8m (75 ft) to starboard. Removed storm saddles, locked SDL ring to rotary housing. Removed booster and goosenecks from slip joint.
P	PA	RBOP	1700	1830	1.50	2912.0m	Laid out landing jt and slip joint.
NPT (SRE)	PA	RBOP	1830	1930	1.00	2912.0m	Repaired starboard crane. Adjusted Pressure Relief Valve on luffing system.
P	PA	RBOP	1930	2400	4.50	2912.0m	Laid out 2 riser pup joints. Laid out 9ea joints of flotation riser, transferring to the Emerald directly from the Drill Floor.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 12 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	PA	RBOP	0000	0400	4.00	2912.0m	Laid out 10 jts of flotation riser directly to Emerald. (Total of 19 jts riser loaded on Lewek

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	PA	RBOP	0400	0500	1.00	2912.0m	Emerald) Laid out 1 jt of riser to pipe deck while waiting on Swift to come alongside. 03:07 - Swift called in to receive riser from the rig. (Rig enveloped in fog) 04:02 - Emerald departed rig for Portland 05:07 - Swift accepted first jt of riser from the rig
P	PA	RBOP	0500	0600	1.00	2912.0m	Laid out 3jts of flotation riser directly onto the Swift
Total Duration					6		

Casing									
OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner	
30 "	569.44	569.44			310.0	X56			
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC			

Bulk Stock									
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	40	42	15.0	Drill Water	M3	16	5	140.0
Fuel	M3	0	16.2	317.1	Barite	MT	132	102	96.0
Pot Water	M3	28	24	378.0	Bentonite	MT	0	0	56.0
CEMENT HT (SILICA)	MT	0	0	60.0					

Supply Vessel									
Boats	Status	Bulks			Boats	Status	Bulks		
Lewek Swift	On Standby at Ocean Patriot	Item	Unit	Quantity	Lewek Emerald	Taking backload at Ocean Patriot	Item	Unit	Quantity
		Fuel	m3	312.1			Fuel	m3	422
Pot Water	m3	457	Pot Water	m3	160				
Drill Water	m3	511	Drill Water	m3	256				
CEMENT G	mt	66	CEMENT G	mt	0				
CEMENT HT (SILICA)	mt	0	CEMENT HT (SILICA)	mt	0				
Barite	mt	0	Barite	mt	0				
Bentonite	mt	0	Bentonite	mt	0				
BRINE	bbls	0	BRINE	bbls	0				

Helicopter Movement				
Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	13:16 / 13:32	5 / 12	

Personnel On Board				Total : 76
Company	Pax	Company	Pax	
Diamond Offshore	50	Dril-Quip	1	
ESS	8	Neptune	2	
Woodside	5	Subsea 7	6	
GO Offshore	1	Weatherford	1	
Dowell Schlumberger	2			

Lagging Indicators												
	HPI	LTl	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	59	0	0
Well To Date	21	6	12	5	1	1	7	2368	2	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	11	2	4	1	0	0	3	782	1	1
Year To Date	21	6	12	5	1	1	7	2368	2	4
Comments/ Findings	Number Observe Cards 59 - Safe/Unsafe: 49/10 (DODI - 34; ESS - 7; TPC - 14; WEL - 4)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	1	0							
Month To Date	1	0							
Year To Date	1	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 11 Nov 2009	
Operational Comments	<p>CAR: 101/143 items closed (13 critical)</p> <p>Top Stop Cards: #1 When working the derrick individual noticed the man rider line was behind the TDS. The Driller was informed and he stopped the job removing the line before continuing operations. #2 Observed a man using a grinder without the side handle fitted. Stopped the job and talked about DODI policy. Agreed to use the proper tool and job then proceeded safely.</p> <p>Non-compliance trends: Tools and equipment causing trip hazards. Tools found in need of repair or replacement before starting job.</p> <p>DODI Supervisor audits conducted: 0</p> <p>DODI Interventions conducted: 8</p> <p>Woodside Interventions conducted: 3</p> <p>Daily Environmental Checklist findings: Cleaned anchor winches of grease. Wiped down winch hydraulic systems. Secured plastic wrap and pallet banding in rubbish bins.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
21.5	89.58	2.5	10.42					361.5	53.79	20.5	3.05			290	43.15	672

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	29.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	20.1	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 6.5 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Laying out 127mm (5") DP from derrick.				
RT-ML	524.5m	Planned Op	Complete lay out of tubulars from mast. Ballast rig from survival to transit draft. Lay down remaining tubulars from derrick. Recover secondary anchors. Connect Lewek Swift to tow bridle and commence recovery of primary anchors				

Cost Data		Daily Cost: \$736,667		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)	
Mob/Demob	\$ 5,900,000	\$ 3,182,289	\$ 5,500,000	
Drilling	\$ 23,100,000	\$ 22,077,183	\$ 25,100,000	
Completion	\$ 0	\$ 0	\$ 0	
Testing	\$ 0	\$ 0	\$ 0	
Intervention	\$ 0	\$ 0	\$ 0	
Well Total	\$ 29,000,000	\$ 25,259,472	\$ 30,600,000	

Summary of Period 0000 to 2400 Hrs

Pulled BOP and secured at starboard setback. Made up Weatherford casing cutting assembly. RIH and cut 340mm (13 3/8") casing at 537.5m. Recovered 475mm (18 3/4") wellhead/TGB/PGB to rig. Laid out casing cutting assembly. Commenced laying out DC's from derrick.

Operations For Period 0000 Hrs to 2400 Hrs on 12 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	PA	RBOP	0000	0400	4.00	2912.0m	Laid out 10 jts of flotation riser directly to Emerald. (Total of 19 jts riser loaded on Lewek Emerald).
P	PA	RBOP	0400	0500	1.00	2912.0m	Laid out 1 jt of riser to pipe deck while waiting on Swift to come alongside. 03:07 - Swift called in to receive riser from the rig. (Rig enveloped in fog). 04:02 - Emerald departed rig for Portland. 05:07 - Swift accepted first jt of riser from the rig.
P	PA	RBOP	0500	0800	3.00	2912.0m	Continued pulling BOP. Laid out 9 more jts of flotation riser directly onto the Swift.
P	PA	RBOP	0800	1030	2.50	2912.0m	Pulled BOP through splash zone. Removed beacon and landed BOP on carrier. Disengaged termination spool, and removed guide lines from posts.
P	PA	RBOP	1030	1200	1.50	2912.0m	Moved BOP to starboard setback. Laid out riser double to Lewek Swift. Laid out termination spool to rig deck.
P	PA	RBOP	1200	1300	1.00	2912.0m	Rigged down riser handling equipment and rigged up 127mm (5") handling equipment.
P	PA	RWH	1300	1530	2.50	2912.0m	Concurrent operations:- (ROV energised HAC release on the 762mm (30") conductor below the seabed) Held JSA. Made up Weatherford 340mm (13 3/8") casing cutting BHA. Surface tested cutters with 0.4m3/min (2.5bbl/min) pump rate. OK. Attached guide ropes to assembly in moonpool. (Winched rig over well location off critical path).
P	PA	RWH	1530	1630	1.00	2912.0m	RIH with casing cutter assembly and landed out in 475mm (18 3/4") wellhead with 4.5mt (10k) down.
P	PA	RWH	1630	1800	1.50	2912.0m	Cut 340mm (13 3/8") casing at 537.51m. 2.1m3/min (13.2bbl/min), 5510kPa (800psi), 100rpm, 8100-9500N-m (6-7k ft-lbs) torque. "Unjayed" left to engage "MOST" onto wellhead. Pulled 140mt (310k) to free PGB/TGB/ 475mm (18 3/4") wellhead and casing stub from seabed.
P	PA	RWH	1800	1900	1.00	2912.0m	Pulled PGB/TGB/475mm (18 3/4") wellhead and casing stub into moonpool.
P	PA	RWH	1900	2200	3.00	2912.0m	Cleaned excess mud from TGB with fire hoses. Removed guide lines and guide posts from PGB. Landed PGB/TGB/475mm (18 3/4") wellhead and casing stub on moonpool cart and secured with chains. Disengaged Weatherford "MOST" from 475mm (18 3/4") wellhead.
P	PA	RWH	2200	2330	1.50	2912.0m	Racked back 200mm (8") DCs. Pulled cutting assembly clear of moonpool. Simultaneously moved PGB/TGB/475mm (18 3/4") wellhead and stub to starboard moonpool area while laid

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	PA	PUB	2330	2400	0.50	2912.0m	out Weatherford casing cutting BHA from rig floor. (21:45 Commenced ballasting from drilling draft of 23.5m) (23:20 Rig at survival draft of 20m) (ROV completed a thorough seabed survey with 50m visual / 80m sonar sweeps from well. Seabed clear of debris and no anomalies except cuttings mound). Picked up 240mm (9 1/2") DC stand and laid out 660mm (26") bit.
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 13 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	PA	PUB	0000	0200	2.00	2912.0m	Laid out 915mm (36") hole opener, 3 x 240mm (9 1/2") DC's 3 x 200mm (8") DC's from the derrick.
P	PA	PUP	0200	0600	4.00	2912.0m	Made up 2 stands 125mm (5") HWDP and 16 stands of 127mm (5") DP. RIH to laid out same. (0600 depth - 250m)
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

Bulk Stock

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	15	0.0	Drill Water	M3	40	28	152.0
Fuel	M3	0	10.8	306.3	Barite	MT	0	96	0.0
Pot Water	M3	0	20	358.0	Bentonite	MT	0	0	56.0
CEMENT HT (SILICA)	MT	0	60	0.0					

Supply Vessel

Boats		Status	Bulks			Boats		Status	Bulks		
Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity	Item	Unit	Quantity
Lewek Swift	Steaming to Portland		Lewek Emerald	On Standby at Ocean Patriot		Fuel	m3	297.5	Fuel	m3	408.5
						Pot Water	m3	453	Pot Water	m3	210
						Drill Water	m3	511	Drill Water	m3	271
						CEMENT G	mt	0	CEMENT G	mt	0
						CEMENT HT (SILICA)	mt	0	CEMENT HT (SILICA)	mt	0
						Barite	mt	0	Barite	mt	0
						Bentonite	mt	0	Bentonite	mt	0
						BRINE	bbls	0	BRINE	bbls	0

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	13:49 / 14:02	8 / 4	

Personnel On Board

Total : 80

Company	Pax	Company	Pax
Diamond Offshore	56	Dril-Quip	1
ESS	8	Neptune	2
Woodside	5	Subsea 7	6
GO Offshore	1	Weatherford	1

Lagging Indicators												
	HPI	LTi	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	62	0	0
Well To Date	21	6	12	5	1	1	7	2430	2	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	11	2	4	1	0	0	3	844	1	1
Year To Date	21	6	12	5	1	1	7	2430	2	4
Comments/ Findings	Number Observe Cards 62 - Safe/Unsafe: 49/13 (DODI - 38; ESS - 8; TPC - 11; WEL - 5)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	1	0							
Month To Date	1	0							
Year To Date	1	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 12 Nov 2009	
Operational Comments	<p>CAR: 110/143 items closed (13 critical)</p> <p>Top Stop Cards: #1 While preparing to run the slip jt I noticed that a load bearing dog was damaged. Notified the Subsea engineer who repaired the dog. #2 Noticed that the "over the side" PDF working harness had only a strobe light on the back of it. Once in the water and jacket inflated the light would not be seen. Advised person to move light to the front of the jacket.</p> <p>Non-compliance trends: Tools and equipment causing trip hazards. Tools found in need of repair or replacement before starting job.</p> <p>DODI Supervisor audits conducted: 2</p> <p>DODI Interventions conducted: 8</p> <p>Woodside Interventions conducted: 3</p> <p>Daily Environmental Checklist findings: Checked all scupper plugs in place in sack room drains.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
24	100							385.5	55.39	20.5	2.95			290	41.67	695.99

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	30.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	26.1	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 3.9 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Recovering primary anchors				
RT-ML	524.5m	Planned Op	Complete anchor handling. Commence rig move to Point Lonsdale and pilot boarding station.				

Cost Data	Daily Cost: \$736,667		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)
Mob/Demob	\$ 5,900,000	\$ 3,182,289	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 22,813,850	\$ 25,100,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 25,996,139	\$ 30,600,000

Summary of Period 0000 to 2400 Hrs
 Laid out DP from derrick. Removed 475mm (18 3/4") well head and casing stub from TGB in starboard moonpool area. Ballasted rig to transit draft. Commenced recovery of secondary anchors.

Operations For Period 0000 Hrs to 2400 Hrs on 13 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	PA	PUB	0000	0200	2.00	2912.0m	Laid out 915mm (36") hole opener, 3 x 240mm (9 1/2") DC's 3 x 200mm (8") DC's from the derrick.
P	PA	PUP	0200	0500	3.00	2912.0m	Made up 2 stands 125mm (5") HWDP and 16 stands of 127mm (5") DP. RIH and laid out same.
P	PA	PUP	0500	0800	3.00	2912.0m	RIH 17 stds of DP and laid out same.
P	PA	RWH	0800	1100	3.00	2912.0m	Removed 475mm (18 3/4") wellhead and casing stub from PGB in moonpool. (Experienced difficulty disengaging the lock rings)
P	PA	PUP	1100	1200	1.00	2912.0m	10:50 Commenced deballasting rig to transit draft. RIH with 17 stands of DP.
P	PA	JBA	1200	1530	3.50	2912.0m	Completed deballasting of rig to transit draft of 10.5m (34.5 ft).
P	PA	AH	1530	2400	8.50	2912.0m	Commenced Anchor handling. (Laid out 51 jts of DP off critical path)
							15:44 :- #7 PCC passed to Lewek Emerald 16:32 :- #7 Anchor off bottom
							17:10 :- Rig at transit draft of 10.5m
							17:48 :- #3 PCC passed to Lewek Swift 18:28 :- #7 Anchor bolstered 18:37 :- #7 PCC passed back to rig
							18:42 :- #3 Anchor off bottom 19:00 :- #6 PCC passed to Lewek Emerald 19:55 :- #6 Anchor off bottom 20:26 :- #3 Anchor bolstered 20:48 :- #3 PCC passed back to rig
							21:07 :- #2 PCC passed to Lewek Swift 22:01 :- #2 Anchor off bottom 22:14 :- #6 Anchor bolstered 22:25 :- #6 PCC passed back to rig
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 14 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	RM	AH	0000	0030	0.50	0.0m	Recovered secondary anchors: 00:20 :- #2 Anchor at bolster. (Anchor facing wrong way) 00:26 :- #2 PCC passed back to rig by Lewek Swift.
P	RM	AH	0030	0115	0.75	0.0m	Swift moved away from the rig's starboard forward quarter and prepared the deck to receive the primary tow bridle.
P	RM	AH	0115	0600	4.75	0.0m	(IN PROGRESS) Recovered primary anchors 01:26 :- Tow bridle passed to Lewek Swift 01:27 :- #1 PCC passed to Lewek Emerald (starboard/forward quarter) 02:15 :- Tow wire at 200m. Lewek Swift applied holding strain on line. 02:26 :- #1 Anchor off bottom. 04:44 :- #1 Anchor bolstered. 04:51 :- #1 PCC passed back to rig from Lewek Emerald. 05:10 :- #5 PCC passed to Lewek Emerald. 06:00 :- #5 Anchor off bottom 07:50 :- #5 Anchor bolstered 07:57 :- #5 PCC passed back to rig 08:25 :- #8 PCC passed to Lewek Emerald 09:20 :- #8 Anchor off bottom 11:04 :- #8 Anchor bolstered 11:11 :- #8 PCC passed back to rig 11:27 :- #4 PCC passed to Lewek Emerald 12:06 :- #4 Anchor off bottom 14:50 :- #4 Anchor bolstered 14:58 :- #4 PCC passed back to rig
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

Bulk Stock

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	0.0	Drill Water	M3	30	51	130.0
Fuel	M3	0	14.1	292.2	Barite	MT	0	0	0.0
Pot Water	M3	7	21	344.0	Bentonite	MT	0	56	0.0
CEMENT HT (SILICA)	MT	0	0	0.0					

Supply Vessel

Boats		Status	Bulks			Boats		Status	Bulks		
			Item	Unit	Quantity			Item	Unit	Quantity	
Lewek Swift	Anchor Handling at Ocean Patriot		Fuel	m3	280	Lewek Emerald	Anchor handling at Ocean Patriot	Fuel	m3	396	
			Pot Water	m3	449			Pot Water	m3	210	
			Drill Water	m3	511			Drill Water	m3	271	
			CEMENT G	mt	0			CEMENT G	mt	0	
			CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0	
			Barite	mt	0			Barite	mt	0	
			Bentonite	mt	0			Bentonite	mt	0	
			BRINE	bbbls	0			BRINE	bbbls	0	

Helicopter Movement

Flight #	Company	Arr/Dep. Time	Pax In/Out	Comment
1	BRISTOW HELICOPTERS AUSTRALIA PTY LTD	13:14 / 134:26	0 / 9	

Personnel On Board			Total : 71
Company	Pax	Company	Pax
Diamond Offshore	55	GO Offshore	1
ESS	8	Neptune	2
Woodside	5		

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	69	0	0
Well To Date	21	6	12	5	1	1	7	2499	2	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	11	2	4	1	0	0	3	913	1	1
Year To Date	21	6	12	5	1	1	7	2499	2	4
Comments/ Findings	Number Observe Cards 69 - Safe/Unsafe: 56/13 (DODI - 50; ESS - 9; TPC - 4; WEL - 6)									

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	1	0							
Month To Date	1	0							
Year To Date	1	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 13 Nov 2009	
Operational Comments	<p>CAR: 117/143 items closed (13 critical)</p> <p>Top Stop Cards: #1 Man placed his hand on top of the 30' casing while installing lifting tool. Advised the man to remove his hand as it was in a very dangerous pinch point. He removed hand immediately. . #2 While working on wellhead in the moonpool noticed man with a tangled harness and his safety line was connected in an unsafe manner. Pulled man aside and reminded him of the JSA requirements for PPE.</p> <p>Non-compliance trends: Incorrect use of PPE. Safety lanyards and safety lines being caught up on obstacles.</p> <p>DODI Supervisor audits conducted: 3</p> <p>DODI Interventions conducted: 6</p> <p>Woodside Interventions conducted: 3</p> <p>Daily Environmental Checklist findings: Checked and cleaned out banded diesel areas.</p>

Performance Summary																	
Daily									Cumulative Well								
P		NPT		SCC		NSC		Total	P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%		Hrs	%	Hrs	%	Hrs	%	Hrs	%	
24	100								409.5	56.87	20.5	2.85			290	40.28	719.99

Well Site Manager: Dennis Bell / Kevin Monkhouse				OIM: Rod Dotson			
Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	31.00	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	27	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 4 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600	Under tow to Port Phillip Bay.				
RT-ML	524.5m	Planned Op	Complete tow to Handover location. Continue under pilotage to safe anchorage within Port Phillip Bay to remove 7 rig anchors.				

Cost Data			Daily Cost: \$736,667		
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)		
Mob/Demob	\$ 5,900,000	\$ 3,918,956	\$ 5,500,000		
Drilling	\$ 23,100,000	\$ 22,813,850	\$ 25,100,000		
Completion	\$ 0	\$ 0	\$ 0		
Testing	\$ 0	\$ 0	\$ 0		
Intervention	\$ 0	\$ 0	\$ 0		
Well Total	\$ 29,000,000	\$ 26,732,806	\$ 30,600,000		

Summary of Period 0000 to 2400 Hrs
Recovered anchors. Commenced tight tow at 1500 hrs with Lewek Swift towards Point Lonsdale, entry Port Phillip Bay. (ETA 1030 hrs at Handover location)

Operations For Period 0000 Hrs to 2400 Hrs on 14 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	RM	AH	0000	0030	0.50	0.0m	Recovered secondary anchors: 00:20 :- #2 Anchor at bolster. (Anchor facing wrong way) 00:26 :- #2 PCC passed back to rig by Lewek Swift.
P	RM	AH	0030	0115	0.75	0.0m	Swift moved away from the rig's starboard forward quarter and prepared the deck to receive the primary tow bridle.
P	RM	AH	0115	1500	13.75	0.0m	Recovered primary anchors 01:26 :- Tow bridle passed to Lewek Swift 01:27 :- #1 PCC passed to Lewek Emerald (starboard/forward quarter) 02:15 :- Tow wire at 200m. Lewek Swift applied holding strain on line. 02:26 :- #1 Anchor off bottom. 04:44 :- #1 Anchor bolstered. 04:51 :- #1 PCC passed back to rig from Lewek Emerald. 05:10 :- #5 PCC passed to Lewek Emerald. 06:00 :- #5 Anchor off bottom 07:50 :- #5 Anchor bolstered 07:57 :- #5 PCC passed back to rig 08:25 :- #8 PCC passed to Lewek Emerald 09:20 :- #8 Anchor off bottom 11:04 :- #8 Anchor bolstered 11:11 :- #8 PCC passed back to rig 11:27 :- #4 PCC passed to Lewek Emerald 12:06 :- #4 Anchor off bottom 14:50 :- #4 Anchor bolstered 14:58 :- #4 PCC passed back to rig
P	RM	RMS	1500	2400	9.00	0.0m	Rig on tight tow from Somerset-1 location towards Point Lonsdale. 15:00 :- Position 39deg 20' 37"S, 144deg 44' 56"E

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
							16:00 :- Position 39deg 20.01'S, 142deg 49.75'E, Av Speed 4.7knts, Dist travelled 4.70Nm, DTG 106.5Nm, ETA 10:30 15th 20:00 :- Position 39deg 14.8'S, 143deg 15'E, Av Speed 5.0knts, Dist travelled 24.80Nm, DTG 86.4Nm, ETA 10:30 15th 24:00 :- Position 39deg 00'S, 143deg 36.5'E, Av Speed 5.8knts, Dist travelled 48.1Nm, DTG 58.7Nm, ETA 10:30 15th
Total Duration					24		

Operations For Period 0000 Hrs to 0600 Hrs on 15 Nov 2009

CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	RM	RMS	0000	0600	6.00	0.0m	(IN PROGRESS) Rig on tight tow from Somerset-1 location to Point Lonsdale. 04:00 :- Position 38deg 46.4'S, 143deg 56.6'E, Av Speed 5.2knts, Dist travelled 68.9Nm, DTG 37.9Nm, ETA 11:15 15th 08:00 :- Position 38deg 31.3'S, 144deg 18.5'E, Av Speed 5.7knts, Dist travelled 91.6Nm, DTG 15.1 Nm, ETA 10:30 15th. 10:30 :- Ocean Patriot was officially handed over from Woodside to Apache. Latitude-38deg 21.90', Longitude-144deg 31.60'. (This is a geographical point 6nm seaward of Point Lonsdale lighthouse) (Statements of Fact for end of project received).
Total Duration					6		

Casing

OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner
30 "	569.44	569.44			310.0	X56		
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC		

Bulk Stock

Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance
'G' Cmt	MT	0	0	0.0	Drill Water	M3	40	32	138.0
Fuel	M3	0	5.4	286.8	Barite	MT	0	0	0.0
Pot Water	M3	0	20	324.0	Bentonite	MT	0	0	0.0
CEMENT HT (SILICA)	MT	0	0	0.0					

Supply Vessel

Boats		Status			Bulks			Boats		Status			Bulks		
Lewek Swift	On tow bridle	Item	Unit	Quantity	Lewek Emerald	Close standby on rig move	Item	Unit	Quantity						
		Fuel	m3	259			Fuel	m3	381						
		Pot Water	m3	445			Pot Water	m3	200						
		Drill Water	m3	511			Drill Water	m3	271						
		CEMENT G	mt	0			CEMENT G	mt	0						
		CEMENT HT (SILICA)	mt	0			CEMENT HT (SILICA)	mt	0						
		Barite	mt	0			Barite	mt	0						
		Bentonite	mt	0			Bentonite	mt	0						
		BRINE	bbls	0			BRINE	bbls	0						

Personnel On Board

Company		Pax	Company		Pax
Diamond Offshore		55	GO Offshore		1
ESS		8	Neptune		2
Woodside		5			
					Total : 71

Lagging Indicators												
	HPI	LTI	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	65	0	0
Well To Date	21	6	12	5	1	1	7	2564	2	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	11	2	4	1	0	0	3	978	1	1
Year To Date	21	6	12	5	1	1	7	2564	2	4
Comments/ Findings	Number Observe Cards 65 - Safe/Unsafe: 53/12 (DODI - 49; ESS - 8; TPC - 1; WEL - 7)									

Leading Indicators										
	H&S INC/NM	Env NM								
24hr	0	0								
Well To Date	1	0								
Month To Date	1	0								
Year To Date	1	0								
Comments / Findings										

General Comments	
00:00 to 24:00 Hrs on 14 Nov 2009	
Operational Comments	<p>CAR: 126/143 items closed (1 critical remaining) Top Stop Cards: #1 Noticed a man about to carry an awkward load using one hand on the handrail which would have made it dangerous. Stopped him and offered my assistance and we both carried the load to the bottom of the stairs safely. #2 Employee was using a "Q-Beam" light that was very large and bulky and was not secured. Stopped employee and explained to him to secure it while using the light over the hand rail or it could become a dropped object..</p> <p>Non-compliance trends: Correct hand placement on handrails still not being observed. Tools need to be checked before and after use. DODI Supervisor audits conducted: 2 DODI Interventions conducted: 6 Woodside Interventions conducted: 3 Daily Environmental Checklist findings: Diesel fill hoses and nozzles checked and drip free. Held End Of Well party on helideck. A good time was had by all.</p>

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
24	100							433.5	58.27	20.5	2.76			290	38.98	743.99

Well Site Manager: Dennis Bell / Kevin Monkhouse **OIM: Rod Dotson**

Well Data							
Country	Australia	Total Planned Days	27.60	M. Depth	2912.0m	Current Hole Size	12.250in
Field	Otway Basin	Actual Days	31.44	TVD	2912.0m	Casing OD	13.375in
Rig Contractor	DOGC	Planned Days Completed	27.6	Progress	0.0m	Shoe TVD	1278.5m
Rig	OCEAN PATRIOT	Days +/- Curve	+ 3.84 (Behind)			FIT/LOT	/ 1.70sg
Water Depth(LAT)	503.0m	Spud Date	19 Oct 2009			Last BOP Test	23 Oct 2009
RT-ASL(LAT)	21.5m	Operations @ 0600					
RT-ML	524.5m	Planned Op					

Cost Data		Daily Cost: \$736,667	
	AFE (D&C)	Actual Cost to Date (D&C)	EFC (D&C)
Mob/Demob	\$ 5,900,000	\$ 4,655,623	\$ 5,500,000
Drilling	\$ 23,100,000	\$ 22,813,850	\$ 25,100,000
Completion	\$ 0	\$ 0	\$ 0
Testing	\$ 0	\$ 0	\$ 0
Intervention	\$ 0	\$ 0	\$ 0
Well Total	\$ 29,000,000	\$ 27,469,473	\$ 30,600,000

Summary of Period 0000 to 2400 Hrs
Rig under tow by Lewek Swift to Point Lonsdale.
Rig off contract to Woodside at 10:30hrs at agreed position 6Nm seaward of Point Lonsdale lighthouse.

Operations For Period 0000 Hrs to 2400 Hrs on 15 Nov 2009							
CLS	PHSE	OP	From	To	Hrs	Depth	Activity Description
P	RM	RMS	0000	1030	10.50	0.0m	Rig on tight tow from Somerset-1 location to Point Lonsdale. 04:00 :- Position 38deg 46.4'S, 143deg 56.6'E, Av Speed 5.2knts, Dist travelled 68.9Nm, DTG 37.9Nm, ETA 11:15 15th 08:00 :- Position 38deg 31.3'S, 144deg 18.5'E, Av Speed 5.7knts, Dist travelled 91.6Nm, DTG 15.1 Nm, ETA 10:30 15th. 10:30 :- Ocean Patriot was officially handed over from Woodside to Apache. Latitude-38deg 21.90', Longitude-144deg 31.60'. (This is a geographical point 6nm seaward of Point Lonsdale lighthouse) (Statements of Fact for end of project received).
Total Duration					10.5		

Casing									
OD(in)	Csg Shoe MD (m)	Csg Shoe TVD (m)	LOT (ppg)	FIT (ppg)	Weight (lbs/ft)	Grade	KPI Score	Top of Liner	
30 "	569.44	569.44			310.0	X56			
13 3/8"	1278.57	1278.51	14.20		72.0	N80 BTC			

Bulk Stock										
Name	Unit	In	Used	Balance	Name	Unit	In	Used	Balance	
Fuel	M3	0	3.8	283.0	Drill Water	M3	0	0	168.0	
Pot Water	M3	0	44	280.0						

Supply Vessel											
Boats		Status	Bulks			Boats		Status	Bulks		
Lewek Swift	Off contract to Woodside at 10:30hrs Bulk figures reflect S.O.F.	Item	Unit	Quantity	Lewek Emerald	Off contract to Woodside at 10:30hrs Bulk figures reflect S.O.F.	Item	Unit	Quantity		
		Fuel	m3	247			Fuel	m3	373		
		Pot Water	m3	443			Pot Water	m3	192		
		Drill Water	m3	511			Drill Water	m3	271		

Personnel On Board			Total : 71
Company	Pax	Company	Pax
Diamond Offshore	55	GO Offshore	1
ESS	8	Neptune	2
Woodside	5		

Lagging Indicators												
	HPI	LTJ	RWC	MTC	TROI	FAC	Env Cat C	Env Non Comp	Dropped Objects	HPH	Env Cat D	Env Cat E
24hr	0	0	0	0	0	0	0	0	0	0	0	0
Well To Date	0	0	0	0	0	1	0	0	1	0	1	0
Month To Date	0	0	0	0	0	0	0	0	0	0	0	0
Year To Date	0	0	0	0	0	1	0	0	1	0	1	0
Comments/ Findings												

Leading Indicators										
	GSR Comp Checks	JSA Comp Checks	PTW Audit	Area Inspection	3rd Party Company Check	Mgt Visits	Drills	Number Observe Cards	ER Exercises	Env Insp Check
24hr	0	0	0	0	0	0	0	0	0	0
Well To Date	21	6	12	5	1	1	7	2564	2	4
Planned Targets per month	10/m	4/m	8/m	4/m	1/qtr	1/qtr	8	N/A	1 first month start up, 6 month after	1/m
Month Actual	11	2	4	1	0	0	3	978	1	1
Year To Date	21	6	12	5	1	1	7	2564	2	4
Comments/ Findings										

Leading Indicators									
	H&S INC/NM	Env NM							
24hr	0	0							
Well To Date	1	0							
Month To Date	1	0							
Year To Date	1	0							
Comments / Findings									

General Comments	
00:00 to 24:00 Hrs on 15 Nov 2009	
Operational Comments	CAR: 133/143 items closed (1 critical remaining- ROV fibre optics problem not yet resolved)

Performance Summary																
Daily								Cumulative Well								
P		NPT		SCC		NSC		P		NPT		SCC		NSC		Total
Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hrs	%	Hours
10.5	100							444	58.85	20.5	2.72			290	38.44	754.49

LOT/FIT Data

Formation Integrity Test Report

Well: **Somerset-1** Date: **24-Oct-09**

Casing Size:	13.375"	
Shoe Depth:	1278.6 m TVD	4195 ft TVD
Hole Depth:	1284.0 m TVD	4213 ft TVD
Mud Weight:	1.250 sg	10.43 ppg
Pump Rate:	0.25 bpm	WBM
Vol pumped:	3.75 bbls	
Vol bled back:	3 bbls	

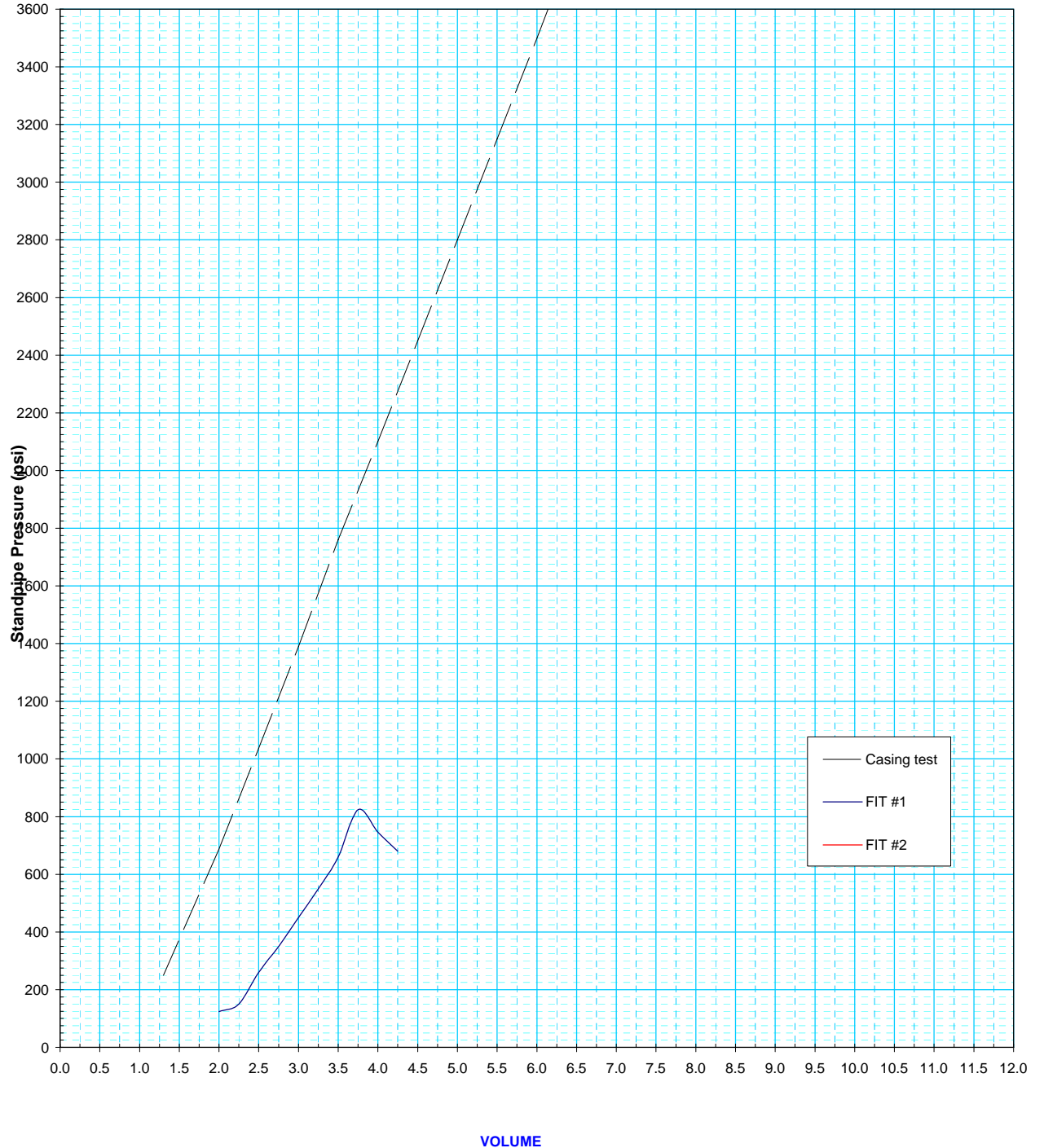
Target FIT EMW	1.76 SG	14.69 ppg
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Target Surf Press	927 psi
Cement Static Press	psi
Actual Max Press	841 psi

Actual EMW	1.713 SG	14.29 ppg
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Test Data

Volume bbls	Pressure psi	Volume bbls	Pressure psi	Volume bbls	Pressure psi
First FIT		Casing P - test		Second FIT	
0.25		1.30	250		
0.50		2.00	687		
0.75		2.50	1037		
1.00		3.00	1390		
1.25		3.50	1760		
1.50		4.00	2100		
1.75		4.50	2450		
2.00	124	5.00	2800		
2.25	150	5.50	3150		
2.50	260	6.00	3500		
2.75	350	6.50	3860		
3.00	450	7.00	4000		
3.25	550				
3.50	660				
3.75	824				
4.00	746				
4.25	680				



VOLUME

Mud Properties Report

**DRILLING FLUIDS RECAP
Woodside Energy Ltd
SOMERSET -1**



Project Engineer:
Don Pritchard

Drilling Fluid Engineers:
Manfred Olejniczka
Mike Griffin
Victor Osias

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EXECUTIVE SUMMARY

The Ocean Patriot rig was towed from Western Port to the Somerset -1 location on 15th September 2009, 83 km south, south west of Port Campbell, in the Otway Basin.

The well was spudded on 19th October 2009 at 11:30 hrs, with the seabed tagged at 525.50 m RT.

A 26" bit with 36" hole opener was used to drill to 572.5 m using seawater and Hi-Vis PHG / Guar Gum sweeps. The 30" Conductor was then set at 569 m.

The 17-1/2" section was drilled to 861m, again using seawater with Hi-Vis PHG sweeps. The 13-3/8" casing was then set at 569 m.

The 12 1/4" hole was drilled vertically to 2,193 m with the Ultradril WBM system, however at this depth a saltwater influx was encountered. The subsequent well control operations took 13 days at the end of which the well was plugged and abandoned.

VOLUME SUMMARY:

36in INTERVAL		
Mud Type	PHG / Sweeps	
Volume Water Added	1737	bbls
Total Volume Built	1737	bbls
Fluid Carried over to next Interval	940	bbls
Total Volume Used	797	bbls
Metres Drilled	65.4	m
BBLs per Metre	12.19	bbls/m
17.5in INTERVAL		
Mud Type	PHG / Sweeps	
Fluid Rcvd from previous interval	940	bbls
Volume Chemical Added	58	bbls
Volume Water Added	3774	bbls
Total Volume Built	4772	bbls
Fluid Carried over to next Interval	N/A	
Total Volume Used	4772	bbls
Metres Drilled	711.5	m
BBLs per Metre	6.71	bbls/m
12.25in INTERVAL (Drilling)		
Mud Type	Ultradril	
Fluid Rcvd from previous interval		
Brine Rcvd	1,609	bbls
Volume Chemical Added	267	bbls
Volume of Barite Added	263	bbls
Volume Water Added	2,602	bbls
Total Volume Built	4,741	bbls
Fluid Lost on SCE	1,057	bbls
Fluid Carried over to next Interval	3,684	bbls
Total Volume Used	1,057	bbls
Metres Drilled	1,629	m
BBLs per Metre	0.65	bbl/m

12.25in INTERVAL (Well Control Incident)		
Mud Type	Ultradril	
Fluid Rcvd from previous interval	3,684	bbls
Brine Rcvd	-	
Volume Chemical Added	74	bbls
Volume of Barite Added	1,123	bbls
Volume Water Added	3,957	bbls
Total Volume Built	8,838	bbls
Fluid Carried over to next Interval	N/A	
Total Volume Used	8,838	bbls

DISCUSSION BY INTERVAL

Interval I	525.5 – 572.5 metres	36" Hole Interval	36" Conductor Set at 569.4 m
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MUD TYPE : SEAWATER / High Viscosity Sweeps – Pre-Hydrated Bentonite / Guar Gum

HOLE PROBLEMS : None

MUD PROPERTIES :

NOTE: The properties below relate only to the Hi-Vis pre-hydrated Bentonite pumped.

<u>Properties</u>	<u>Programmed</u>	<u>Actual</u>
Mud Density	1.04 sg	1.04 sg
Funnel Viscosity	100+ secs / qt	100+ secs / qt

OPERATIONS

After tagging the seabed at 525.5 m, 36" hole was drilled riserless (returns to the seafloor) to 572.5m with seawater, pumped from the slug pit.

50 bbl Hi-Vis Guar Gum sweeps pumped mid stand. With 100 bbls of PHG spotted on the connection. At TD , two PHG sweeps were pumped (150 bbls then 100 bbls) Finally 300 bbls of Hi-Vis PHG was spotted in the hole before pulling out.

The 30" conductor was then run and cemented to 569.4 m, without any problems.

MUD

A total of 1737 bbls of Hi-Vis mud was mixed for this section. (1059 bbls of Hi-Vis PHG 30 ppb PHG and 720 bbls of Hi-Vis Guar Gum.)

Of this 940 bbls remained, (320 bbls of PHG and 620 bbls of Guar Gum) and was carried over to the 17-1/2" interval.

The Hi-Vis Guar Gum was not programmed for this interval, but there was only a short time period between ballasting down and the start of drilling. With no bulks on board prior to the tow, bulk bentonite had to be taken off the supply boats at the same time that we needed to start mixing mud. There were problems/delays unloading with blocked hoses, so the Hi-Vis Guar Gum was mixed while waiting as a contingency.

The displacement mud used at TD was simply un-weighted Hi-Vis PHG, not the Type 1 displacement fluid programmed. (Hi-Vis PHG with 1 ppb Drispac) This was because there was no Drispac in the field, and no supply boat run had been made at this stage.

OBSERVATIONS AND RECOMMENDATIONS

There were no hole or drilling problems, so the Hi-Vis PHG used proved adequate. Additional Hi-Vis Guar Gum was built as a contingency before spud instead of PHG due to problems with bulk bentonite delivery from supply boats.

It would have been preferable for 20-30MT bulk bentonite to have already been on board prior to the tow. (Sufficient to spud) The rush to get bulks on board with simultaneous mixing, in the small time period available was a potential problem, and a barite/bentonite contamination problem occurred in one of the silos.

Interval II	572.5 – 1284 metres	17.5" Hole Interval	13-3/8" Casing Set at 1278.6 m
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MUD TYPE 1 : SEAWATER / Hi-Vis Sweeps Pre-Hydrated Bentonite/Guar Gum

MUD TYPE 2 : TYPE-1 Displacement Fluid (Pre-Hydrated Bentonite/Drispac)

HOLE PROBLEMS : None

MUD PROPERTIES :

<u>Properties</u>	<u>Programmed</u>	<u>Actual</u>
Mud Density	As low as possible	1.04 SG
Funnel Viscosity	> 100 secs / qt	> 100 secs / qt

OPERATIONS

Ran in and drilled the 17-1/2" vertical hole with seawater and Hi-Viscosity sweeps.

The program specified 75 bbl sweeps mid stand and 100 bbl sweeps on connections at drilling rates over 100 m/hr. However with the drilling rate in excess of 150 m/hr and with limited mixing capacity only the 100 bbl sweeps prior to connections were pumped at first.

From 1060 m the drilling rate slowed dramatically to less than 50 m/hr so the 75 bbl mid stand sweeps were pumped. This slower drilling rate continued to the 1284 m TD. It was due to a formation change to the Gellibrand Marl with the bit not being optimal for this formation type.

At TD a 200 bbl Guar Gum sweep was pumped chased immediately with 1100 bbl of Type-1 displacement mud. (Hi-Vis PHG with 1 ppb Drispac)

The drill string was the pulled out without any problems, so no wiper trip was run.

The 13-3/8" casing was then run in and cemented to 1278.6 m without any problems.

MUD

During drilling pits 4 and 5 were constantly used to mix PHG to try to keep up with sweep requirements. Pit 3 was still full of Hi-Vis Guar Gum but this was not used for the 100 bbl sweeps on connections during the faster drilling. It was used for a couple of 75 bbl mid stand sweeps and the 200 bbl TD sweep.

Before the start of the section 526 bbl of PHG treated with 2 ppb Drispac was prepared in pits 1 and 2. This was used as the base for the 1100 bbl Displacement Mud at TD by mixing it in equal volumes with PHG in pits 4 and 5 while pumping.

While pulling out at TD an additional 400 bbl of PHG was mixed as a contingency in case any Hi-Vis fluid was required while POH or running casing.

A total of 4772 bbls of Hi-Vis fluid was used for the interval, of which 970 bbl was left to be dumped.

PHG was mostly used as most of the sweeps pumped were on connections. Also we had realised that at least 40MT of bulk bentonite had been accidentally mixed with about 25 MT bulk barite in one of the bulk silos. So a deliberate attempt was made to use as much of this contaminated bentonite for the sweeps as possible. (As it would have to be dumped later anyway)

SOLIDS CONTROL

All returns were again to seabed, so no SCE was in use.

OBSERVATIONS AND RECOMMENDATIONS

- The rig pit capacity and mixing system is unable to keep up to the programmed sweep regime as per the Woodside DOG. A significantly reduced sweep volume

was pumped and the system was just able to keep up. Drill water on board also nearly ran out by the end of the section.

- The rig needs upgraded water supply and bulk mixing capabilities. (Not necessarily that difficult to do.) Pit capacity is severely limited, but this is much more difficult to upgrade.
- Approximately 300 bbl of Type-3 (weighted KCl/Polymer) displacement fluid was programmed to be spotted in the bottom of the hole at TD. Instead Type-1 (unweighted PHG with 1 ppb Drispac) was used for the whole displacement. This proved adequate, with the casing running in without any problems.

Interval III	1284 – 2193 m	12.25" Hole Interval	Open hole P & A
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MUD TYPE : **Ultradril**

HOLE PROBLEMS : Saltwater influx and lost circulation.

FLUID PROBLEMS : None

MUD PROPERTIES

<u>Properties</u>	<u>Programmed</u>	<u>Actual</u>
Mud Density	1.25-1.34 sg	1.25 – 1.70 sg
6 RPM Reading	8 - 12	8 - 9
YP lb/100 sq ft	18 - 30	28 – 32
API Filtrate ml	4 - 5	3.2 – 4.0
KCl % wt soln	7 - 8	9 – 11
LGS %	< 7	1 – 2.9
MBT ppb	< 6	1 - 3
KlaStop % vol	3	4

OPERATIONS

After running the BOP and riser, a 12-1/4" rotary assembly was run in washing down to the top of the cement with seawater. The new 1.25 sg Ultradril mud was then displaced into the hole before drilling the float collar at 1240 metres. After drilling the cement in the shoe track and 5 m of new hole, a Leak-Off Test was run giving 1.70 sg EMW.

Drilling of the vertical hole continued without any hole or mud problems down to 2913 m in just under 3 days. The Ultradril system performed exceptionally well with large well formed PDC cuttings being returned at the shakers. The mud density was

raised to 1.30 sg prior to the top of the Dilwyn formation as a precaution for hole instability.

At 2913 m the well was flow checked as it did not appear to be taking sufficient new mud volume for the amount of hole being drilled.

The well was found to be flowing, so was shut in and the pressures were monitored. A well kill operation began, pumping 1.50 sg mud down the drill string with the well on the choke. The drill string volume of 160 bbls was pumped with no returns at surface. This was assumed to be due to downhole lost circulation. However, as there were surface pressures it is more likely the choke was plugged and the fluid forced into the formation.

An additional 150 bbl of 1.50 sg mud was bull-headed down the annulus in stages with pressure monitored. The well was then circulated to 1.50 sg mud through the choke and pressures monitored again. Bottoms up returns indicated a high pressure water flow with mud water cut and distinctive Carbon Dioxide gas readings.

There was still residual pressure, and to determine if it still was due to the water flow or mud backflow from the formation, 40 bbls mud volume was bled off. The well was circulated through the choke with 1.50 sg mud with water being returned at bottoms up. This definitely indicated the pressures being monitored were due to the water influx.

The kill mud weight was then increased to 1.58 sg with the well circulated to 1.58 sg all round through the choke and the riser and sand-traps also circulated to 1.58 sg mud. Even after this there was still residual pressure, indicating this was not enough. The mud at surface was weighted to the new required kill mud weight of 1.70 sg. However as this was at the previous 1.70 sg formation leak off pressure, a normal

well kill through the choke was not attempted. Instead, the rams were opened with 1.58 sg mud and the hole was slowly circulated with 1.70 sg mud at 4 bbl/min to minimise back-pressure. The pipe was easily worked free and was then slowly pumped out of the hole, trying not to swab in the water influx or break down the casing shoe.

Pumping out continued successfully with 1.70 sg mud circulated all around, until returns were lost at 1320 m just below the casing shoe. After losing 270 bbls downhole and pumping 170 bbls of lighter 1.58 sg mud into the riser circulation was regained and pumping out resumed with 1.70 sg mud.

Returns were lost again at 780 m, with the string inside the casing shoe. This time the losses were more severe and could not be regained by pumping lighter 1.58 sg mud into the riser. The well had to be topped up with seawater via the trip tank as well to maintain a full hole. An 80 bbl LCM pill (40 ppb mixed materials) was pumped down the string from 1247 metres in an attempt to cure losses. The pipe was pulled the rest of the way out without pumping and the BHA laid out.

Due to the high, unexpected losses the rig was on standby waiting for barite deliveries, however the weather deteriorated which delayed operations further.

During this period the well was flowing slowing at 10 bbls gained in six hours, 1.58 sg mud was pumped through the riser booster line to balance the pressures, during this time the well was circulating on the Trip Tank with seawater.

While waiting on weather and barite, open-ended drillpipe was run in the hole to 1247 m, in preparation for abandonment plugs. The loss / gain situation continued

with 1.58 sg mud being pumped intermittently into the well and seawater returns monitored through the Trip Tank.

With the arrival of barite, the process of mixing kill-weight mud began, all available pits were filled with 1.70 sg mud. Extensive Pilot testing of Barite Plug formulations were carried out and a trial run using the cement unit was performed in preparation.

With sufficient mud reserves the trip into hole continued to 2073 m whereupon a 40 bbl gain was observed, the well was shut in and pressures observed. During this shut-in period, the riser volume was circulated via the booster line to record and even out the density of the fluid within. After 15.5 hours of circulation, the mud density was found to be 1.49 sg in and out.

The pipe was stripped into hole to a depth of a final depth of 2591m, after experiencing tight hole. The hole was thought to be bridged off below this and preparations were made to pump barite plugs.

A total of four barite plugs were pumped with the cement unit, they were mixed 'on the fly' and spotted with 1.70 sg mud. The plugs were pumped at a density of 1.98 sg in a mixwater consisting of drillwater , 1.0 ppb SAPP and 0.5 ppb caustic Soda. The use of SAPP was to expedite the barite settling rate, the caustic soda was used to increase the pH to 9.5 – 10.0. The mixwater was mixed on the Slug tank and transferred across as required. Each time a plug was pumped, two stands of pipe were pulled out of hole to avoid settling out around the drill string.

The top plug was tagged at 2311 m, which was higher than anticipated, however each plug was over-displaced by 5 bbls, this may have led to the higher levels.

Two 200 metre cement plugs were then pumped into the hole and the well abandoned.

DRILLING FLUID

The highly inhibitive Ultradril fluid system was selected for this section due to the large amount of potentially reactive claystone expected. The fluid was built on the rig with concentrated Potassium Chloride brine (22%) being made up in town and shipped to the rig.

The initial make-up concentrations of the Ultradril fluid were as follows :

- 10 – 11% KCl brine
- 1.25 % Flowzan or Duovis
- 2.5 % Drispac SL
- 0.25 % Drispac R
- 1.5 % Idcap D
- 4.0 % Klastop / EMI 2009

Density

This was weighted up to 1.25 sg initially for the displacement and drilling ahead. From 1530 metres, the mud density was increased to 1.30 sg before drilling into the Dilwyn sandstone formation at 1640 metres.

Inhibition

The maintenance of a potassium chloride concentration of 10 – 11 % was a key component in this system, however this was enhanced greatly by the addition of Klastop and EMI 2009 (Polyamines) run at 3 – 4 % v/v. Finally the short-chained PHPA product Idcap was used at 1.5 – 1.75 ppb concentration to give excellent encapsulation of cuttings.

Together these three products provided cuttings at the shakers of a quality usually only seen with SBM muds. MBT values remained very low throughout (below 3.0 CEC) indicating that only minimal dispersion was seen.

Fluid Loss

A combination of Dispac SL (2.0 ppb) and Drispac R (0.3 ppb) was run in this section, API fluid loss was very low (3 – 4 mls), this was enhanced by the addition of 5 ppb calcium carbonate bridging agents (Circal Y and Circal 60 /16) by 2810 m.

Rheology

As with all other properties, the rheology of this system was very stable with no problems with hole cleaning or pressure restrictions due to high viscosity. The 6 rpm readings remained between 8 -9 dial units and the corresponding Yield Point values of 28 – 32 lbs/100 ft². The primary viscosifier was either Flowzan or Duovis (XC polymer) run at a concentration of 1.25 – 1.5 ppb.

From the commencement of well kill operations the Ultradril system was not run and a basic seawater / polymer fluid built, to provide suspension properties for barite and a degree of fluid loss control.

The fluid was built with 1.25 ppb Duovis and 2,0 ppb Drispac SL, and was found to be acceptable to allow fast weighting up of fluid to 1.70 sg. Safecide (biocide) was used to avoid any bacterial degradation of the polymers.

SOLIDS CONTROL

The Ocean Patriot has four Swaco BEM 650 shakers plus an old desander and desilter. It had been planned to have two Derrick centrifuges installed at the start of this well, however all the parts were not available and it didn't happen.

The shakers were dressed with 20 mesh scalper screens and coarse API 70 and API 40 mesh lower screens for the mud displacement. This avoided any losses with the new mud. The lower screens were then quickly changed to API 100 and API 120 mesh. As drilling progressed attempts were made to go to finer API 170 mesh lower screens, but this did not prove sustainable, and eventually API 120 was run on all lower screens. Although this was not as fine as had been hoped for, there was no significant increase in solids or mud weight build-up in the system. It appeared that the bulk of the drilled cuttings were actually being removed by the scalper screens.

The desander was run for most of the interval, but was shut down by 2800 m as it was discarding more mud than solids.

The desilter was only run for the early and latter parts of the interval as it was shut down for almost a day waiting on maintenance.

Despite all the limitations of the solids control equipment, the mud weight and solids content remained very stable. This has to be attributed to the highly effective inhibition of the Ultradril mud system on this well.

The telling factor is that if we had the centrifuges on board, they would not have been used.

OBSERVATIONS AND RECOMMENDATIONS

- *Ultradril system*

Run at the concentrations of products used, this allowed a trouble-free, near gauge hole to be drilled through some historically difficult claystone formations. The minimal dilution was an indication as to the effectiveness of this system and proved itself to be an great alternative to SBM.

- *Barite plugs*

Pilot testing of a range of plug densities (15 ppg to 23 ppg) revealed a great variation in settling characteristics. The lower density fluids of 15 – 19 ppg showed rapid settling, whereas the higher density fluids 20 – 23 ppg settled at a more gradual rate. This feature is due to the self-supporting nature of the barite particles in high solids fluids. (see attached presentation).

A total of four Barite Plugs were spotted in the well through open ended 5” drillpipe, mixed by the cement unit ‘on the fly’ at the maximum rate that the bulk barite supply would allow. The SAPP / Caustic mix-water was mixed in a Slug Tank and transferred to the cement unit as required. Each plug was a total volume of 20 bbls and displaced with 14.2 ppg seawater / polymer mud. The pipe was pulled back by five stands after each plug to avoid settling around the drill string and waited on settlement.

The fluid may have been better mixed, to an even density if batch mixed in the cement unit displacement tanks and the pill volume designed around this. The bulk barite supply is not the fastest at +/- 1000 lbs per minute, giving a pump rate of 2.5 maximum.

The final plug was tagged higher than anticipated, in fact at the theoretical top of the top plug without any settlement. This may have been due to the over-displacement by 5 bbls of mud after each plug (20 bbls in total), this mud would have put a viscous 'cushion' between plugs of 10 metres length. Another factor may be the slowly deteriorating hole conditions, the hole having originally being drilled with Ultradril mud, had been exposed to seawater / polymer fluid initially and then freshwater fluid.

The final result was a success, a 200 m cement plug was spotted above the barite plugs and the abandonment programme continued.

BARITE RECONCILIATION

Reconciliation of Barite deliveries to Woodside for Ocean Patriot

Date	DT / GRR /WTT		Received		Delivered		Balance	Comments
			Geelong	Portland	Geelong	Portland		
							327.0	
		Geelong Start Stock						
9/10/2009	DT	304690	Lewek Emerald		96		231.0	Initial Load Out in Geelong
13/10/2009	DT	30472	Lewek Swift		200		31.0	2nd Load Out in Geelong
19/10/2009	GRR		Geelong Warehouse	246			277.0	Barite ex Singapore
19/10/2009	DT	030 475	Lewek Swift			24	253.0	Bulk Tanker
24/10/2009	DT	030 476	Lewek Emerald			67	186.0	Bulk Tanker
27/10/2009	DT	030 478	Lewek Emerald			90	96.0	Bulk Tanker
29/10/2009	GRR	3431	Geelong Warehouse	96			192.0	Unimin BBs into Geelong
29/10/2009	DT	030 479	Lewek Swift			90	102.0	Bulk Tanker
30/10/2009	GRR	3432	Geelong Warehouse	96			198.0	Unimin BBs into Geelong
31/10/2009	DT	030 480	Lewek Emerald			90	108.0	Bulk Tanker
2/11/2009	DT	030 481	Lewek Emerald			90	18.0	Bulk Tanker
4/11/2009	GRR	3435	Portland		48		66.0	Unimin Bulk via Golding Tanker
4/11/2009	GRR	3439	Geelong Warehouse	34			100.0	Unimin BBs into Geelong
4/11/2009	GRR	3440	Geelong Warehouse	8			108.0	Unimin BBs into Geelong
4/11/2009	DT	030 473	Lewek Swift			48	60.0	Bulk Tanker
4/11/2009	DT	030 474	Lewek Swift			40	20.0	Bulk Tanker
6/11/2009	GRR	3437	Geelong Warehouse	24			44.0	Unimin BBs into Geelong
6/11/2009	GRR	3438	Geelong Warehouse	42			86.0	Unimin BBs into Geelong
8/11/2009	DT	030 482	Lewek Swift		42	42	86.0	Unimin Bulk via Golding Tanker
8/11/2009	DT	030 483	Lewek Swift		55.5	55.5	86.0	Unimin Bulk via Golding Tanker
8/11/2009	DT	030 484	Lewek Emerald		70	70	86.0	Unimin Bulk via Golding Tanker
8/11/2009	WTT		Geelong Warehouse	134			220.0	Hot Shot ex M-I Darwin
8/11/2009	WTT	30716	Geelong Warehouse	144			364.0	Hot Shot ex Rheochem Perth
8/11/2009	DT	030 485	Lewek Emerald			79.5	284.5	Bulk Tanker
8/11/2009	DT	030 486	Lewek Swift			90	194.5	Bulk Tanker
8/11/2009	GRR	30428	Geelong Warehouse	90			284.5	Barite ex Singapore
9/11/2009	DT	030 487	Lewek Emerald			90	194.5	Bulk Tanker
9/11/2009	GRR		Golding Warehouse	42			236.5	Unimin BB received into Golding Warehouse
10/11/2009	DT	030 488	Lewek Emerald		42	42	236.5	Unimin Bulk via Golding Tanker
12/11/2009	DT	030 491	Far Fosna			40	196.5	Loaded out to ADA in South Melbourne
				956	257.5	296	1048	
				1213.5		1344	196.5	

SHAKER SCREEN SOF

MI SWACO		Statement of Fact - Screens													
		Operator: Woodside			Well: Somerst-1			Date: 10-Nov-09							
Product Brand Name	Product Code	Screen Size	Start 15/10/2009	Receive	B'load	End 03/11/09	Used	Query	Load outs				Back Loads		
									20-Oct				8-Nov	11-Nov	
	WBM6MG010C	10	8	0	0	8	0								
	WBM6MG020C	18	16	0	0	16	0								
	WBM6MG030C	30	6	0	0	6	0								
	WBM6MG040C	40		0	0		0								
	WBM6MG060C	60		0	0		0								
	WBM6XL038C	35		0	0		0								
	WBM6XL050C	50		0	0		0								
	WBM6XL070C	60		0	0		0								
	WBM6HC084C	60		0	0		0								
	WBM6HC105C	60		0	0		0								
	WBM6HC120C	70		0	0		0								
	WBM6HC165C	80		0	0		0								
	WBM6HC200C	100	10	0	0	5	5								
	WBM6HC230C	120		0	0		0								
	WBM6HC270C	170		0	0		0								
	WBM6HC325C	200		0	0		0								
	WBM6XL084C	60		0	0		0								
	WBM6XL105C	80	12	0	12		0							12	
	WBM6XL120C	100	9	0	8		1							8	
	WBM6XL165C	140	11	0	0		11								
	WBM6XL200C	140		0	0		0								
	WBM6XL230C	200		48	48		0	48					48		
	WBM6XL270C	230	16	48	48		16	48					48	16	
	WBM6XL325C	230		0	0		0								
	WBM6XR084C	60		0	0		0								
	WBM6XR105C	70		0	0		0								
	WBM6XR120C	70		0	0		0								
	WBM6XR165C	100		0	0		0								
	WBM6XR200C	120		0	0		0								
	WBM6XR230C	140		0	0		0								
	WBM6XR270C	170		0	0		0								
	WBM6XR325C	230		0	0		0								
	WBM6XR400C	230		0	0		0								
	WBM6XR500C	325		0	0		0								
	WBM6YYZZZ			0	0		0								
<p>Is the start inventory the same as the ending inventory of the previous SOF? If no please explain discrepancies . The screens ROB at the end of the contract will be included into the DOGC stock for their next contract. All XL mesh screens backloaded to Portland as instructed by MI Swaco.All other screens used on contract were DOGC owned stock and backcharged directly to Woodside.</p> <p>Any other comments or unresolved discrepancies? .</p>									<p>M-I SWACO Rep Mike Griffin</p>			<p>Wellsite Manager Dennis Bell</p>			
									<p>Signature</p>			<p>Signature</p>			

FLUIDS PROPERTY SUMMARY AND TREND GRAPHS

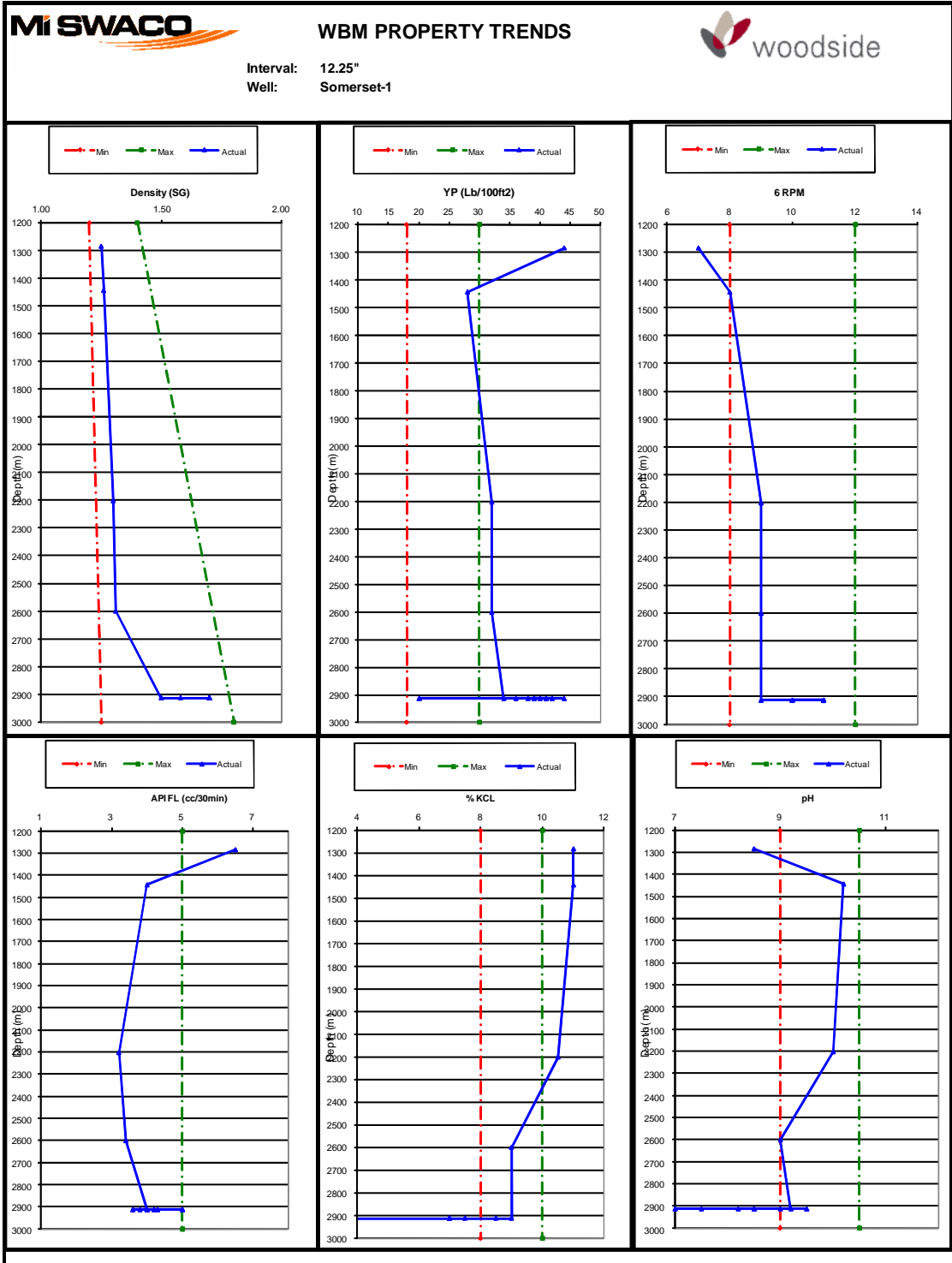
Mud Properties, daily record

Somerset-1

Operator: **Woodside Energy Ltd**

Ocean Patriot

DMR no.	Date	Depth	MW	T	FV	VG-meter readings @ 50C								AV	PV	YP	Gel 10 sec	Gel 0 min	API	pH	Pf	Mf	Cl- x1000	TH	Ca++	KCl	Solids corr	MBT	HGS	LGS	Sand		
						600	300	200	100	60	30	6	3																				
Spud Mud																																	
3	17-Oct-09					(Note: Rport starts at No. 3 to align w with DDR)																											
4	18-Oct-09		1.04		120																												
5	19-Oct-09	572.5	1.04		130																												
6	20-Oct-09	830	1.04	100+														9.5			300												
Spud Mud																																	
7	21-Oct-09		1.12		100																												
8	22-Oct-09																																
ULTRADRIL																																	
9	23-Oct-09	1284	1.25	25	67	55	49	30	22	11	4	7	5	27.5	6	43	5	8	6.5	8.5	0.3	72000			11	10.5			-				
10	24-Oct-09	1284	1.25	20	72	56	50	31	23	11	4	7	5	28	6	44	5	8	6.5	8.5	0.3	70000			11	10.5			-				
11	25-Oct-09	1443	1.26	25	74	68	48	40	29	11	4	8	6	34	20	28	6	9	4	10.2	3	3.4	65000			11.2	11.2	1		2.8	0.5		
12	26-Oct-09	2202	1.3	25	74	74	53	43	30	9	4	9	6	37	21	32	7	10	3.2	10	2.8	3.6	56000			9	11	3		2.8	0.5		
13	27-Oct-09	2880	1.31	26	75	74	53	43	30	9	4	9	7	37	21	32	7	11	3.4	9	0.8	2.8	52000			9	12	3		2.8	0.75		
14	28-Oct-09	2913	1.5	49	83	82	58	47	32	8.5	4	9	7	41	24	34	7	9	4	9.2	0.45	2.2	52000			8.5	17	3		2.8	0.5		
15	29-Oct-09	2913	1.5	49	65	84	60	53	37	7.5	4	10	8	42	24	36	8	10	3.6	8.2		2.8	47000			7.5	17	3		2.8	0.5		
16	30-Oct-09	2913	1.58	49	63	86	62	52	36	7	4	10	8	43	24	38	9	10	4	9	0.2	4.2	45000			7	19.5	3		2.8	0.5		
17	31-Oct-09	2913	1.7	49	68	96	70	59	41	7	4	11	8	48	26	44	8	9	3.8	8.5	0.3	4.2	41000			7	23	3		2.8	0.5		
18	1-Nov-09	2913	1.7	49	74	97	68	60	42	7	4	11	8	48.5	29	39	8	9	3.6	8.5	0.25	4	44000			7	23	3		2.8	0.5		
19	2-Nov-09	2913	1.7	49	74	94	67	58	40	2	4	11	8	47	27	40	8	9	5	7	0.15	0.35	38000			2	23	3		2.8	0.5		
20	3-Nov-09	2913	1.7	49	74	94	57	58	40	2	4	11	8	47	37	20	8	9	5	7	0.15	0.35	38000			2	23	3		2.8	0.5		
21	4-Nov-09	2913	1.7	49	74	94	57	58	40	2	4	11	8	47	37	20	8	9	5	7.5	0.15	0.35	38000			2	23	3		2.8	0.5		
22	5-Nov-09	2913	1.7	49	72	109	75	57	39			11	8	54.5	34	41	8	10	4	8.5	0.15	0.3	33000			2	23	3		2.8	0.25		
23	6-Nov-09	2913	1.7	49	72	110	76	58	38	2		11	8	55	34	42	8	10	4	8.5	0.15	0.35	33000			2	23			-			
24	7-Nov-09	2913	1.7	49	69	107	74	56	35	2		11	8	53.5	33	41	8	10	4.2	8.5	0.16	0.32	34000			24				-	trace		
25	8-Nov-09	2913	1.7	49	71	105	72	54	34	2		11	7	52.5	33	39	7	9	4.2	9.5	0.15	0.32	33000			24				-	trace		
26																																	
27	10-Nov-09	2913	1.7	49	70	102	70	50	31			10	6	51	32	38	7	9	4.2	9.5	0.14	0.28	33000			24				-	trace		



ENVIRONMENTAL DISCHARGE REPORT

woodside				DRILLING ENVIRONMENTAL END OF WELL DISCHARGE REPORT			
Complete within one month of end of well. Separate report for each well - READ 'NOTES' WORKSHEET							Rig information source
WELL NAME:	Somerset-1	SPUD DATE:	19-October-2009		WSM or Appointee		
PERMIT NUMBER:		COMPLETION DATE:	11-November-2009				
RIG NAME:	Ocean Patriot	REPORT DATE:	11-November-2009				
WATER DEPTH:	524m						
Rig information:		Unit (if applicable) / Comments				DIM or Appointee	
Average Number of People On Board (Note 1)		POB	83				
Storage Capacity of Diesel Tanks (Note 1)		Tonnes	1850				
Gauge Hole Diameter / Completion Tubing Diameter (Inches)		17.5	12.25				
Fluid Type (WBF or NWBF) (Note 2)		WBF	Ultradri				
Fluid Name (eg. Gel, Aquadrill, Syn-Seq, etc)		Gel	Gel				
Base Oil Type (if NWBF - eg. NX-3500, Iso-Seq, etc)		0	0				
Fluid Mud Weight (SG)		1.20	1.70				
Base Fluid / Water Ratio (if SBF)		0	0				
Average % Base Oil (if NWBF) (Note 3)		0	0				
Length Drilled (m)		1284	1620				
Total Volume of Losses (Surface & Subsurface) (Note 4) (m3)		763.71	987.30				
DISCHARGE QUANTITIES							
WBF Discharges		Cubic Metres		Metric Tonnes			
1.1 Volume of Cuttings (Note 5)		323.2		840.0			
1.2 WBF Subsurface Losses - below the mud line (Note 6)		1,044.2		1,377.5			
1.3 WBF Surface Losses - above the mud line (Note 7)		167.3		200.7			
1.4 WBF Accidental Losses		0.0		0.0			
1.5 WBF Other Losses (Note 8)		0.0		0.0			
1.6 Total WBF Discharged to Surface (=1.3+1.4+1.5)		167.3		200.7			
1.7 Volume of WBF recycled		216.9		256.9			
1.8 WBF Operationally Discharged (Note 9)		342.82		209.89			
Non-Water Based Fluid Discharges (whole fluid)		Cubic Metres		Metric Tonnes			
2.1 Volume of Cuttings (Note 5)		0.0		0.0			
2.2 NWBF Subsurface Losses - below the mud line (Note 6)		0.0		0.0			
2.3 NWBF Losses with Cuttings (Note 8)		0.0		0.0			
2.4 NWBF Accidental Losses		0.0		0.0			
2.5 NWBF Other Losses (Note 8)		0.0		0.0			
2.6 Total NWBF Discharged to Surface (=2.3+2.4+2.5)		0.0		0.0			
2.7 Total NWBF Back loaded		0.0		0.0			
NWBF OOC Discharge Dry Basis, by Interval (Note 10)		0	0	Well Average OOC			
2.8 NWBF Section OOC (Volume Weighted)		0	0	0			
NWBF Discharge Rate (Weight) (Note 11)		(MT oil / km drilled)					
2.9 Total Well Discharge Rate		0.00					
Other Discharges		Cubic Metres		Metric Tonnes			
3.1 Workover or Completion Brine Discharged		167.0		237.2			
3.2 Clean up Chemicals Discharged		0.0		0			
3.3 Accidental Hydrocarbon Discharges (eg. Diesel or Oil Spill)		0.0		0			
3.4 Accidental Chemical Discharges		0.0		0			
3.5 Accidental Gas Discharge (e.g. Ozone Depleting Substance)		0.0		0			
3.6 Excess Cement Discharged (Note 12)		0.0		0			
3.7 Exploration and Appraisal Hydrocarbon Flared (Note 13)		0.0		0			
Hydrocarbon Type: API:		Duration of Flaring Hours:		0.0			
MATERIAL DISPOSED/CONSUMED (MODU only)		Cubic Metres		Metric Tonnes			
4.1 Non-Hazardous Waste Disposed (Note 14)				10.0			
4.2 Non-Hazardous Waste Recycled				1.0			
4.3 Hazardous Waste Disposed				1.0			
4.4 Hazardous Waste Recycled				1.0			
4.5 Glycol (MEG) - Brought onto rig				0			
4.6 Glycol (MEG) - Sent off rig				0			
4.7 Diesel Consumed				270.0			
4.8 Diesel Throughput (includes diesel not used) (Note 15)				0.0			
4.9 Freshwater Consumed				1,605.0			
CHEMICALS (Note 16)		Cubic Metres		Metric Tonnes			
5.1 Cortron quantity discharged				1.2			
5.2 Glutaraldehyde - Total Used				0.3			
5.3 Glutaraldehyde - Mass left / lost down hole				0.0			
5.4 Glutaraldehyde - Mass discharged				338.5			
5.5 Milbar / Barite - Mass left / lost down hole				93.0			
5.6 Milbar / Barite - Mass discharged				0			
5.7 Noxygen - Mass left / lost down hole				0			
5.8 Noxygen - Mass discharged				0			
5.9 Zinc Oxide - Mass left / lost down hole				0			
5.10 Zinc Oxide - Mass discharged				0			
5.11 Glycol (MEG) Used				0			
5.12 Glycol (MEG) - Mass left / lost down hole				0			
5.13 Glycol (MEG) - Mass discharged				0			
Do not complete (D & C Environmental Advisor), within one month of end of well							
Comments:							
Most of the down hole losses were on the 12.25" hole section. Heavy mud and barite pill plug were used in well control.							
Completed By:		Approved By:		Date: 11-Nov-09			
Signature: V. Osias / M. Griffin		Signature: Dennis Bell		Date: 11-Nov-09			
Position Indicator: Mud Engrs.		Position Indicator:		Date: 11-Nov-09			

WELLSITE KPI SHEET

WOODSIDE ENERGY LTD						
Drilling Fluid and Services KPI Form - MDRU Well Construction						
Contractor & Service:		Contract #: 4810002040				
Well/Wellbore:		Date: 13/11/09				
Instructions: Only enter data in yellow cells						
HSE	ENVIRONMENTAL	QUALITY	SAFETY	ABILITY	THP/T	SCORES
This data will be estimated but no score will be assigned						
1.1	Number of Lost Time Incidents (LTI's)	WSM	100	100	100	100
1.2	Number of Major Treatment Cuts (MTC's)	WSM	100	100	100	100
1.3	Number of environmental incidents, ie. drilling fluid spills	WSM	100	100	100	100
1.4	MOS's available and checked to ensure all mud products in use are included					
	- Seals been					
	- Supply bowls					
	- Muds					
	- WSM					
1.5	Mudlab Parameters available and checked to ensure all mud products originating included:	WSM	100	100	100	100
	- Seals been (entering mud products)					
	- Mud Lab (see original mud testing chemicals)					
1.6	Number of Safety Meetings Attended (Weekly and Pre-Trip)	WSM	4 per week/person	2	4	32
1.7	Number of Safety Cuts submitted (Start, Stop, Observe-when etc)	WSM	1 per day/person	2	27	54
1.8	End of Well/Block Environmental Discharge Report completed	WSM	100	100	100	100
TECHNICAL						
2.1	Fluid System performance	WSM	150	150	150%	150
2.2	Engineering performance	WSM	150	150	150%	150
2.3	New Productive Barrels (NPT) attributable to fluids	WSM	100	100	100%	100
2.4	Offshore reporting standard	WSM	100	100	100%	75
2.5	WHS WHS recycling discussion Trac utilized	WSM	75	75	75%	75
2.6	Onshore reporting and programming standard	Company Contract Sup	100	100	100%	100
COMMERCIAL						
3.1	Required Materials, as detailed in the Program, available	WSM	100	100	100	100
3.2	Number res conference issues	WSM	100	100	0	100
3.3	Final Well Cost compared to initial well cost estimate/budget	M-E Coordinator	100	100	100	100
3.4	Final Well Contractors compared to real well contractors estimate/budget if listed system	M-E Coordinator	100	100	100	100
3.5	Final mud contractor compared to real cost/initial estimate/budget if listed system	M-E Coordinator	100	100	100	100
<p>Notes: If there is any planned operational change from the initial programme then you must increase budgeted costs (the extra costs should be estimated and added to the budgeted costs)</p>						
<p>Commercial Performance (to be excluded by WSM)</p>						
<p>1.1 2 things that went well:</p>						
<p>1.2 2 things that didn't go so well:</p>						
<p>WHS Control incident - could not keep up with filling supply.</p>						
<p>COMMENTS (If target is not achieved quantify impact to Woodside (if subject to change, to be included by WSM)</p>						
<p>Total cost and cost per m were under budget immediately prior to the Well Control Incident. Cost of the use of encountering bitbar was \$687,834.10. 12 days spent ensuring well was safe for abandonment.</p>						
<p>Welling Manager: </p>						
<p>Checked Out by Company Representative: </p>						
<p>Date: 30 Nov 2009</p>						
<p>Date: 30 Nov 2009</p>						

Mudlogging End of Well Report



END OF WELL REPORT

Woodside Energy Ltd.

Somerset-1

19 October – 11 November 2009

by

BAKER HUGHES INTEQ

The information, interpretations, recommendations, or opinions contained herein are advisory only and may be rejected. Consultant does not warrant their accuracy or correctness. Nothing contained herein shall be deemed to be inconsistent with, nor expand, modify or alter Consultant's obligation of performance as provided for in a written agreement between the parties, or, if none, in Consultant's most recent price list.



Woodside Energy Ltd

Somerset-1

End of Well Report

Section 1	Well Summary	
	1.1	Well and Rig Information
	1.2	Introduction
Section 2	Drilling and Engineering	
	2.1	Bit Run Summaries
	2.2	Casing and Cement Summaries
Section 3	Geological Logging	
	3.1	ROP, Gas and Shows
	3.2	Sample Summary
Section 4	Pressure Evaluation	
	4.1	Pore Pressure Evaluation
	4.2	Fracture Pressure Evaluation
Appendices	1	Bit Run Summary
	2	Bit Hydraulics Summary
	3	Time vs. Depth Curve
	4	Sample Manifest
Enclosures		
	1	Formation Evaluation Log 1:500
	2	Drilling Data Plot 1:1000
	3	Pressure Evaluation Plot 1:2500
	4	Gas Ratio Plot 1:1000

SECTION 1

WELL SUMMARY

1.1 Well and Rig Information

Well Name:	Somerset-1	
Well Type:	Vertical Exploration	
Operator:	Woodside Energy Ltd.	
Location:	Otway Basin	
Block:	T/34P	
Final Coordinates:	Latitude	039 deg 20' 36.757"S
	Longitude	142 deg 44' 56.144"E
	Datum	GDA94 Zone 54
UTM Coordinates:	Easting	650712.40m
	Northing	5643640.36m
Rig:	Ocean Patriot	
Type:	Semi-submersible	
Rig Floor - Seabed:	524.5m	
Rig Floor - Sea level	21.5m	
Spud Date:	19 October 2009	
Total Depth:	2912.0 mMDRT	
Drilling Completion Date:	27 October 2009	
Status:	Plug and abandon	
Baker Hughes INTEQ:	Data Engineers: Shaharizad Shahadan, Gokula Krishnan Ramanathan.	
	Logging Geologists: Raman Dhanda, James Bladen, Prashant Kadam, Sara Turnbull.	

1.2 Introduction

Baker Hughes INTEQ Surface Logging Services Unit 573 monitored drilling parameters from the spud of the well and provided formation evaluation, drill monitoring and pressure evaluation services for Somerset-1, whilst drilling the 914mm (36"), 444mm (17-1/2") and 311mm (12-1/4") hole sections to the well's TD at 2912.0 mMDRT (2911.73mTVDRT). All depths given in this report are metres Measured Depth below the Rotary Table (mMDRT), referenced to the Lowest Astronomical Tide (LAT), unless otherwise specified. Data obtained was processed and stored using the ADVANTAGE V.2.10U3 software.

The Somerset-1 well was designed as a vertical exploration well.

Ocean Patriot reached the well location on 18 October 2009.

The well was spudded on 19 October 2009 using a 660mm (26") bit combined with a 914mm (36") hole opener. The spud depth was 524.5 mMDRT and drilling continued to TD of the section at 572.5mMDRT, using seawater and Pre-hydrated gel (PHG) / Guar Gum Hi vis. The 762mm (30") conductor and Permanent Guide Base (PGB) was jetted from 524.5 mMDRT to a shoe depth of 569.4 mMDRT – which was then cemented.

The 444mm (17-1/2") hole was drilled from 572.5 mMDRT to the section TD depth of 1284.0 mMDRT. This section was drilled riser-less using seawater. Pre-hydrated gel (PHG) was pumped intermittently to clean the hole. The 340mm (13-3/8") casing was run and the shoe was set at 1278.6 mMDRT.

The BOPs were run on marine risers, landed and were pressure tested as per the requirements. A 311mm (12-1/4") bit and BHA were made up and ran in the hole. After drilling out the cement and shoe track, the well was then displaced to 1.25 sg Ultra Drill WBM. Drilling the shoe track, shoe and 5.0m of new formation was then carried out to 1289.0 mMDRT. A Leak off test (LOT) was performed with 1.25sg mud giving an EMW of 1.70sg. The well was then drilled from 1289.0 to 2912.0mMDRT. The well had been observed to be not taking the correct amount of mud; the active pit was showing a gain in volume. The well was flow checked – this was conducted using the trip tank to measure any discrepancy. The trip tank was shown to be gaining 9bbls in 15 minutes, so the well had kicked. The well was shut in; followed by well control procedures. Eventually, the well was killed with a 1.7sg EMW. The string was then pumped out of the hole. Major losses occurred at the interval of 1329.0 to 1300.0 mMDRT. The pumping out of the string was then continued after the losses had been controlled. The BHA and bit were then laid down and the bit graded.

The well then was then plugged and abandoned.

SECTION 2

DRILLING & ENGINEERING

2.1 Bit Run Summaries

Somerset-1 660mm (26") x 914mm (36") Hole Section 19 October 2009

Bit Run No. 1 Summary

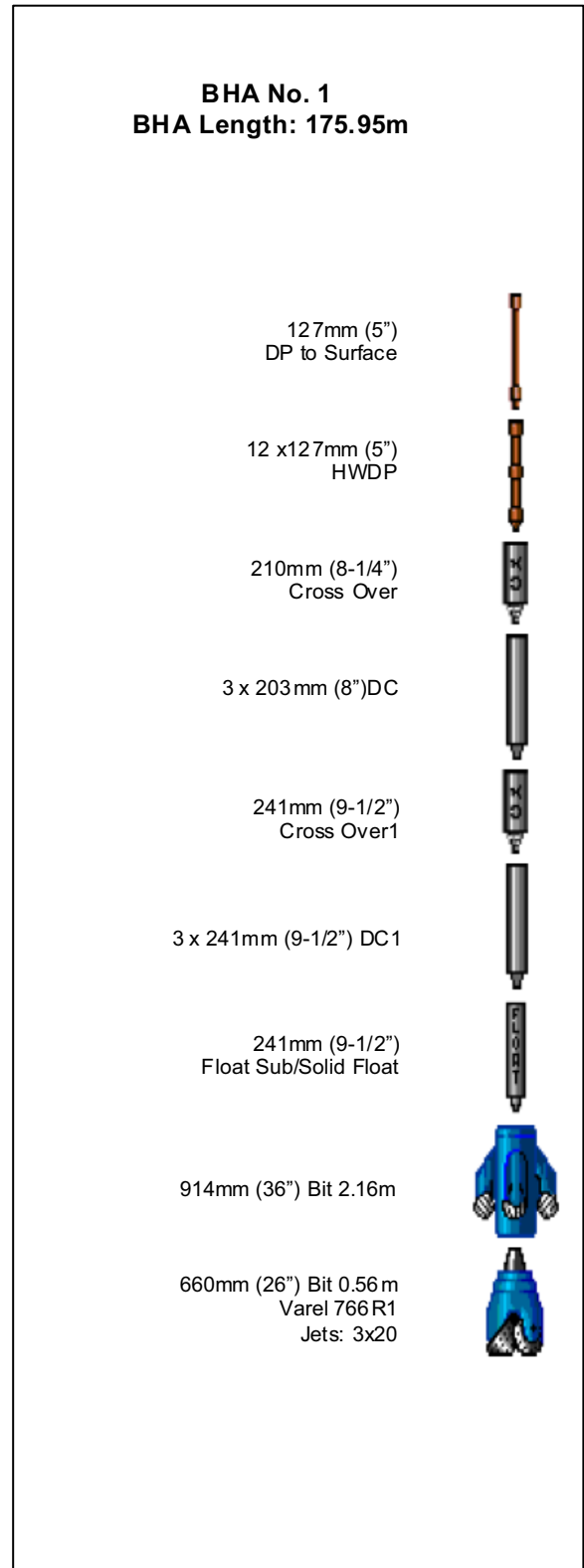
Bit Number	NB1
Bit Size	660mm (26") x 914mm (36")
Bit Type	Varel Mill Tooth
S/N	766R1
Jets 1/32 nd inch / TFA	3x20 / 0.9204
Depth In, mMDRT	524.5
Depth Out, mMDRT	572.5
Meters Drilled, m	48.0
Drilling Hours	3.0
TBR, krevs	103.71
Circulating Hours	5.2
Average ROP, m/hr	16.0
API Condition	1-1-0-0-0-0-TD

Drilling Parameters

WOB, klf	1.4 – 17.9
RPM, surf/bit	24 -70 / 24 – 70
Torque, kft.lb	0 – 7.9
Pump Pressure, psi	45 – 1294
Flow In, gpm	537 – 946

Mud System

Seawater / Hi-Vis PHG / Guar Gum Sweeps	1.04sg
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Somerset-1
444mm (17-1/2") Hole Section
20 - 21 October 2009

Bit Run No. 2 Summary

Bit Number	NB2
Bit Size	444mm (17-1/2")
Bit Type	Smith Mill Tooth
S/N	PM6863
Jets 1/32 nd inch / TFA	3 x 16, 3 x 12 / 0.9204
Depth In, mMDRT	572.5
Depth Out, mMDRT	1284.0
Meters Drilled, m	711.5
Drilling Hours	8.2
TBR, krevs	104.52
Circulating Hours	12.5
Average ROP, m/hr	86.8
API Condition	1-1-WT-A-E-I-PN-TD

Drilling Parameters

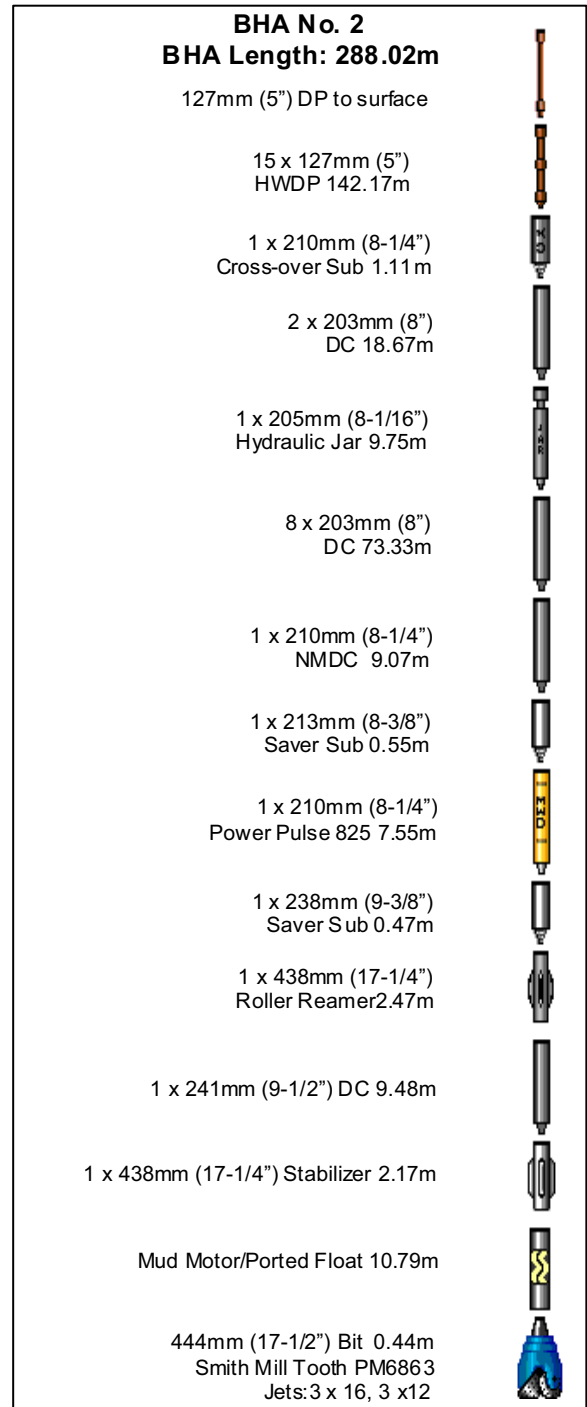
WOB, klf	2.01 – 61.87
RPM, surf/bit	24-89/ 123-214
Torque, kft.lb	1.06 – 11.93
Pump Pressure, psi	1373 – 4428
Flow In, gpm	766 – 1270

Mud System

Seawater / Hi-Vis PHG	1.04sg
/ Guar Gum Sweeps	

Lithology

Returns to seabed



Somerset-1
311mm (12-1/4") Hole Section
24 October - 02 November 2009

Bit Run No. 3 Summary

Bit Number	NB3
Bit Size	311mm (12-1/4")
Bit Type	Smith MDi716LHBPX
S/N	JD0772
Jets 1/32 nd inch / TFA	10x12 / 1.1045
Depth In, mMDRT	1284.0
Depth Out, mMDRT	2912.0
Meters Drilled, m	1628.0
Drilling Hours	42.4
TBR, krevs	414.31
Circulating Hours	126.6
Average ROP, m/hr	38.4
API Condition	1-2-WT-S-X-I-CT-HP

Drilling Parameters

WOB, klf	4 – 40
RPM, surf/bit	15-165 / 15-165
Torque, kft.lb	1– 14
Pump Pressure, psi	1827 – 4618
Flow In, gpm	690 – 1126

Mud System

ULTRA DRILL WBM	1.25 - 1.31sg(Drilling mud)
	1.50 – 1.70sg (Kill mud)

Lithology

Argillaceous Calcisiltite, Argillaceous Calcilutite, Calcilutite, Claystone, Silty Claystone.

BHA No. 3	
BHA Length: 265.72m	
127mm (5") DP to surface	
15 x 127mm (5") HWDP 142.17m	
1 x 210mm (8-1/4") Cross Over 1.11m	
2 x 203mm (8") DC 18.65m	
1 x 205mm (8-1/16") Jar 9.75m	
6 x 203mm (8") DC 54.68m	
1 x 232mm (9-1/8") Saver Sub Cross-over 3.92m	
1 x 308mm (12-1/8") AND 6.37m	
1 x 211mm (8-5/16") Saver Sub 0.32m	
1 x 230mm (9-1/16") Sonic Vision 6.88m	
1 x 308mm (12-1/8") Stabilizer 0.98m	
1 x 213mm (8-3/8") Saver Sub 0.38m	
1 x 210mm (8-1/4") Telescope 825 7.68m	
1 x 308mm (12-1/8") In Line STR 0.91m	
1 x 229mm (9") ARC-8 5.44m	
1 x 210mm (8-1/4") Saver Sub 0.38m	
1 x 311mm (12-1/4") Stabilizer 1.75m	
1 x 203mm (8") Pony NMDC 2.90m	
1 x 311mm (12-1/4") NB Stabilizer/Ported Float 2.56m	
311mm (12-1/4") Bit 0.33 Smith MDSi716LHBPX Jets: 10x12	

2.2 Casing & Cementing Summary

Somerset-1 762mm (30") Conductor 20 October 2009

762mm (30") Conductor

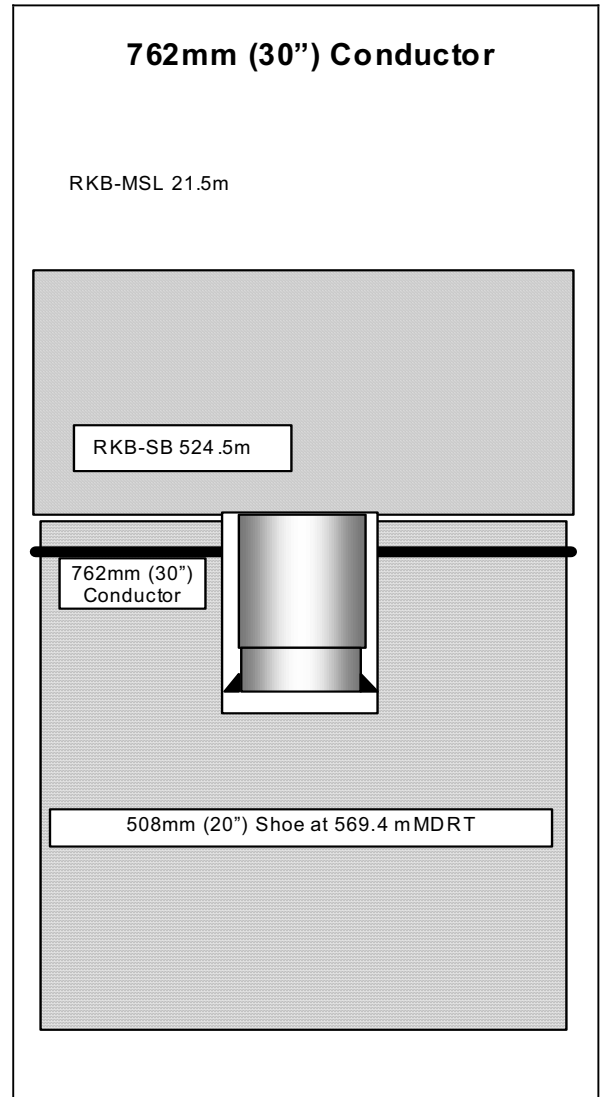
Hole Size 914mm (36")
Depth 572.5 mMDRT

Casing 1 x 762mm (30") x 508mm (20")
Float Shoe Joint
1 x 762mm (30") Intermediate
Joint
1 x 762mm (30") Cross-over Joint
1 x 762mm (30") Lower Wellhead
Housing Joint
1 x 762mm (30") Upper Wellhead
Housing Joint

Weight 236 lb/ft
Grade X-52
Shoe Depth 570.6 mMDRT

Cement Details:

Cement (40.0MT)
Type Class "G" with 1%CaCl
Mixwater 5.194gal/sx
Drillwater 0.00gal/sx
Additives 0.01gal/sx D047
0.12gal/sx D0185
Weight 1.90sg (15.86ppg)
Yield 1.19ft³/sx
Volume 200.0bbl



**Somerset-1
340mm (13-3/8") Casing
21 October 2009**

340mm (13-3/8")

Hole Size 444mm (17-1/2")
Depth 1284.0 mMDRT

Casing 1 x Shoe Joint A
1 x Intermediate Joint A
1 x Float Joint A
56 x 340mm (13-3/8") Casing

ID 314mm (12.347") nominal
Weight 72 lb/ft
Grade NT80HE BTC
Shoe Depth 1278.6 mMDRT

Cement Details:

Lead Slurry

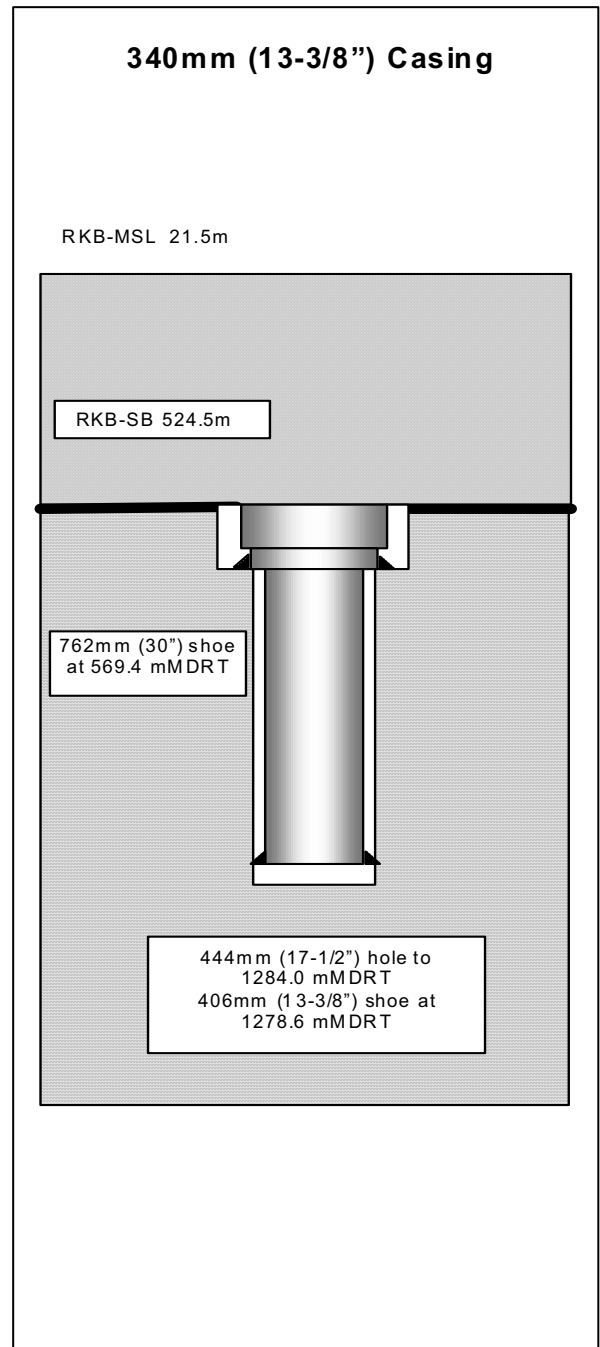
Cement -
Type -
Mixwater -
Drillwater -
Additives -

Weight -
Yield -
Volume -

Tail Slurry

Cement 40.0 MT
Type Class "G" with 1%CaCl
Mixwater 5.094 gal/sx
Drillwater 0 gal/sx
Additives 0.01 gal/sx D047
0.20 gal/sx D193
0.05 gal/sx D145A

Weight 1.90 sg (15.8 ppg)
Yield 1.19 ft³/sx
Volume 196.0bbl



**Somerset-1
Barite & Cement Plug
08 – 10 November 2009**

Hole Size: 311mm (12-1/4")
Depth: 2912.0 mMDRT

Barite details

Barite plug 1to4 ;
Weight: 1.98sg (16.5ppg)
Slurry Vol: 3.18 m³ (20bbl)

Cement Details

CEMENT PLUG # 1:

Type: Class "G"
Weight: 1.89sg (15.8ppg)
Slurry Vol: 15.26m³ (96bbl)

CEMENT PLUG # 2:

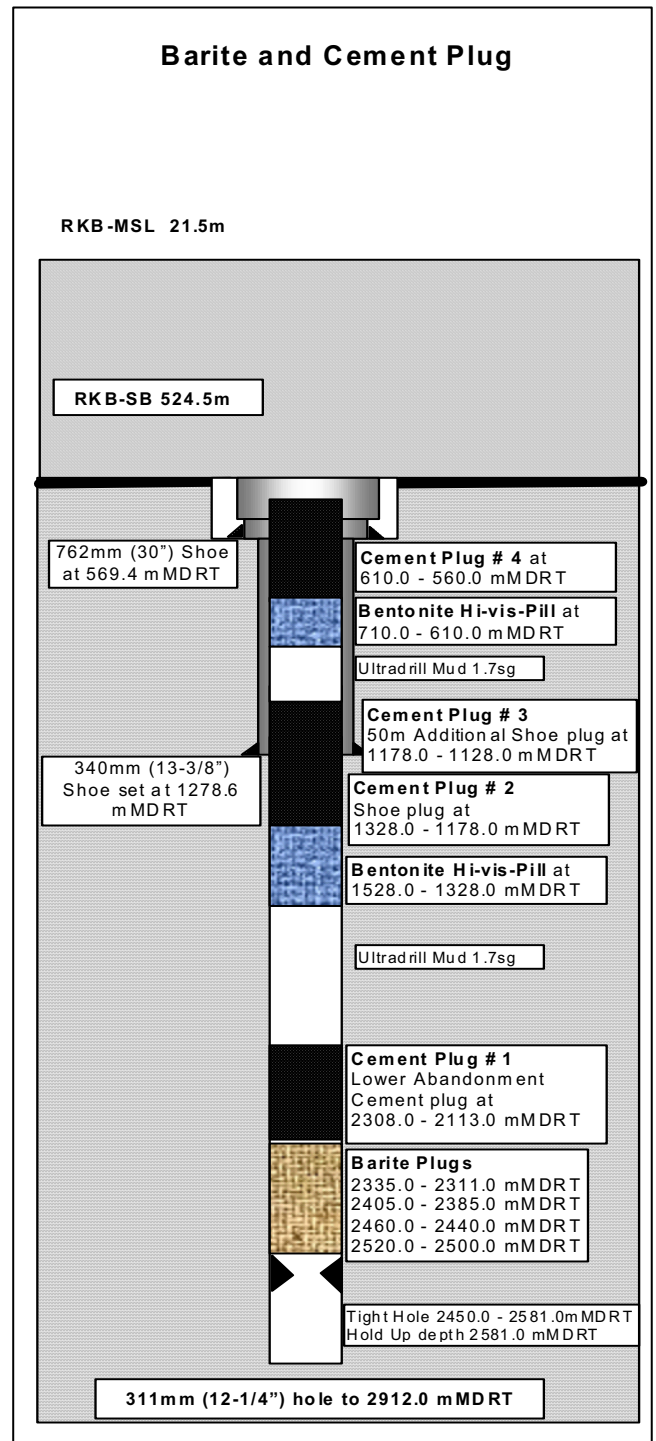
Type: Class "G"
Weight: 1.94sg (16.2ppg)
Slurry Vol: 15.26m³ (96bbl)

CEMENT PLUG # 3:

Type: Class "G"
Weight: 1.94sg (16.2ppg)
Slurry Vol: 3.86m³ (24.3bbl)

CEMENT PLUG # 4:

Type: Class "G"
Weight: 1.89sg (15.8ppg)
Slurry Vol: 15.26m³ (96bbl)



SECTION 3

GEOLOGY & SHOWS

Somerset-1

3.1 ROP, Gas and Shows

Geological logging for Somerset-1 commenced at 1284.0 mMDRT, below the 340mm (13-3/8") casing shoe at 1278.6 mMDRT, to a total depth of 2912.0 mMDRT. (All depths given in this section are measured from the Rotary Table, unless otherwise specified).

During the course of the well, all gas equipment were checked and calibrated regularly, and spot samples were taken during drilling breaks and other changes in drilling parameters to better assess lithological change. Drilled gas, trip gas, connection gas, re-circulated gas and swab gas levels were monitored.

The Lithology of Somerset-1 is described in detail in the Formation Evaluation Log, Enclosure 1, of this report.

A summary of ROP, Total Gas and Gas Chromatograph readings is tabulated below;

Gas and ROP Readings for 311mm (12-1/4") Hole Section

Interval (mMDRT)	Total Gas range min-max (%)	Total Gas Average (%)	ROP Range (m/h)	ROP Average (m/h)
1060.0 – 1330.0	0.00 – 0.01	0.01	5 – 175	60
1330.0 – 1602.0	0.01 – 0.05	0.03	10 – 100	48
1602.0 – 1680.0	0.02 – 0.12	0.05	13 – 80	45
1680.0 – 1732.0	0.03 – 0.12	0.08	11 – 79	49
1732.0 – 2140.0	0.01 – 0.13	0.06	12 – 90	47
2140.0 – 2817.0	0.00 – 0.19	0.11	11 – 82	42
2817.0 – 2912.0	0.04 – 2.62	0.94	8 – 68	31

Depth Interval (mMDRT)	Total Gas (%)	Depth Max Gas (mMDRT)	C1 Range (%)	C2 Range (%)	C3 Range (%)	iC4 Range (%)	nC4 Range (%)	iC5 Range (%)	nC5 Range (%)
311mm (12-1/4") Hole Section									
1060.0 – 1330.0	0.0043 – 0.010	1330.0	0.0003 – 0.003	Nil	Nil	Nil	Nil	Nil	Nil
1330.0 – 1602.0	0.0098 – 0.0463	1545.5	0.0021 – 0.0273	0.0 – 0.0002	0.0 – 0.0002	Nil	Nil	Nil	Nil
1602.0 – 1680.0	0.0196 – 0.122	1671.5	0.0024 – 0.075	0.0 – 0.0002	0.0 – 0.0002	Nil	Nil	Nil	Nil
1680.0 – 1732.0	0.0341 – 0.1245	1692.0	0.0006 – 0.0861	0.0 – 0.0003	0.0 – 0.0001	Nil	Nil	Nil	Nil
1732.0 – 2140.0	0.0104 – 0.1303	1747.0	0.0026 – 0.0879	0.0 – 0.0038	0.0 – 0.0002	0.0 – 0.0001	Nil	Nil	Nil
2140.0 – 2817.0	0.0001 – 0.1909	2526.5	0.0015 – 0.1323	0.0 – 0.0043	0.0 – 0.0024	0.0 – 0.0004	0.0 – 0.0003	0.0 – 0.0001	0.0 – 0.0001
2817.0 – 2912.0	0.0376 – 2.6176	2855.0	0.0215 – 2.5637	0.0004 – 0.058	0.0 – 0.0216	0.0 – 0.0019	0.0 – 0.0024	0.0 – 0.0007	0.0 – 0.0005

3.2 Sampling Summary

Somerset-1

Ditch Cuttings Samples were collected at the following intervals:

DITCH CUTTING SAMPLING INTERVAL

311mm (12-1/4") hole section

Depth (mMDRT)	Sample interval (m)	Sample Type
1284.0 – 1290.0	6	normal
1290.0 – 2810.0	10	normal
2810.0 – 2875.0	5	normal
2875.0 – 2878.0	3	normal

LIST OF ALL MISSED/UNDERWEIGHT SAMPLES AND EXPLANATION

2875.0 to 2878.0 mMDRT - Underweight (less returns at shakers)

2878.0 to 2912.0 mMDRT - No cutting returns at shakers due to well control operation

Samples to be split at Baker Hughes Integ workshop, Bibra Lake

Sample Type	Large Box No.	Interval (mMDRT)	
Washed and dried Cutting Samples	BOX 1	1284.0 – 1390.0	
	BOX 2	1390.0 – 1490.0	
	BOX 3	1490.0 – 1590.0	
	BOX 4	1590.0 – 1690.0	
	BOX 5	1690.0 – 1800.0	
	BOX 6	1800.0 – 1920.0 (1860.0 sample bag is in Box 7)	
	To be split into 4 x 200g samples (Set A,B,C,D)	BOX 7	1920.0 – 2010.0
		BOX 8	2010.0 – 2110.0
		BOX 9	2110.0 – 2210.0
		BOX 10	2210.0 – 2310.0
		BOX 11	2310.0 – 2410.0
		BOX 12	2410.0 – 2510.0
		BOX 13	2510.0 – 2610.0
		BOX 14	2610.0 – 2710.0
		BOX 15	2710.0 – 2810.0
		BOX 16	2810.0 – 2845.0
	BOX 17	2845.0 – 2878.0	
	Box 18	ZIP LOCK BAGS (4 SETS) – 1284.0 to 2912.0 SMALL ZIP LOCK BAGS- (1 SET E) – 1284.0 to 2912.0 METAL TAGS (5 SETS) – 1284.0 to 2912.0	
Samplex Tray Samples Set F	Box 19 (Wooden Box)	1284.0 – 2912.0	

Mudgas Samples were collected in **Isotubes** at the following depths:

SET-G (ISOTUBE SAMPLES)

Box 1

Isotube no.	Depth (mMDRT)	Sample type	Total Gas (%)	C1 (%)	C2 (%)	C3 (%)	Time/Date
1	1300.0	Regular sample	0.0065	0.0012	-	-	17:08 hrs/ 25-Oct-09
2	1400.0	Regular sample	0.0162	0.0048	0.0001	-	20:31 hrs/ 25-Oct-09
3	1500.0	Regular sample	0.0285	0.0132	0.0001	-	23:18 hrs/ 25-Oct-09
4	1600.0	Regular sample	0.0410	0.02	0.0001	-	02:38 hrs/ 26-Oct-09
5	1700.0	Regular sample	0.1008	0.0554	0.0001	-	06:16 hrs/ 26-Oct-09
6	1800.0	Regular sample	0.0310	0.0585	0.0002	-	09:55 hrs/ 26-Oct-09
7	1900.0	Regular sample	0.0359	0.0038	-	-	13:02 hrs/ 26-Oct-09
8	1980.0	Regular sample	0.0400	0.0195	0.0002	0.0001	15:33 hrs/ 26-Oct-09
9	2000.0	Regular sample	0.0382	0.028	0.0003	0.0001	16:08 hrs/ 26-Oct-09
10	2050.0	Regular sample	0.0505	0.0157	0.0002	-	17:28 hrs/ 26-Oct-09
11	2100.0	Regular sample	0.0522	0.0352	0.0004	0.0002	18:41 hrs/ 26-Oct-09
12	2150.0	Regular sample	0.0514	0.0361	0.0004	0.0002	20:14 hrs/ 26-Oct-09
13	2200.0	Regular sample	0.04	0.0307	0.0004	0.0002	22:08 hrs/ 26-Oct-09
14	2250.0	Regular sample	0.042	0.0244	0.0004	0.0002	22:43 hrs/ 26-Oct-09
15	2300.0	Regular sample	0.12	0.031	0.0005	0.0002	01:27 hrs/ 27-Oct-09
16	2350.0	Regular sample	0.16	0.0763	0.0013	0.0005	03:17 hrs/ 27-Oct-09
17	2400.0	Regular sample	0.17	0.1065	0.0019	0.0008	04:53 hrs/ 27-Oct-09
18	2450.0	Regular sample	0.13	0.098	0.0023	0.0009	05:21 hrs/ 27-Oct-09
19	2500.0	Regular sample	0.13	0.066	0.0016	0.0007	07:52 hrs/ 27-Oct-09
20	2550.0	Regular sample	0.18	0.0967	0.0025	0.0011	09:29 hrs/ 27-Oct-09
21	2600.0	Regular sample	0.13	0.0615	0.0017	0.009	11:09 hrs/ 27-Oct-09
22	2650.0	Regular sample	0.1285	0.0944	0.0028	0.0014	12:40 hrs/ 27-Oct-09
23	2700.0	Regular sample	0.1190	0.0746	0.0025	0.0013	14:44 hrs/ 27-Oct-09
24	2750.0	Regular sample	0.110	0.0911	0.0032	0.0017	16:06 hrs/ 27-Oct-09
25	2800.0	Regular sample	0.09	0.0755	0.0032	0.0019	18:13 hrs/ 27-Oct-09

Box 2

Isotub e no.	Depth (mMDRT)	Sample type	Total Gas (%)	C1 (%)	C2 (%)	C3 (%)	Time/Date
2	2815.0	Regular sample	0.1130	0.0845	0.0038	0.0038	18:57 hrs/ 27-Oct-09
1	2820.0	Regular sample	0.1443	0.0982	0.0038	0.0022	19:10 hrs/ 27-Oct-09
3	2830.0	Regular sample	0.4673	0.2138	0.0055	0.0025	19:46 hrs/ 18-Jul-09
4	2840.0	Regular sample	0.2166	0.2204	0.0021	0.0011	20:04 hrs/ 27-Oct-09
5	2850.0	Regular sample	0.3151	0.8893	0.0202	0.0075	20:35 hrs/ 18-Jul-09
6	2855.0	Regular sample	2.8	1.7572	0.0402	0.015	20:48 hrs/ 27-Oct-09
7	2860.0	Regular sample	1.37	0.9481	0.0221	0.0084	21:02 hrs/ 27-Oct-09
8	2870.0	Regular sample	1.49	1.6033	0.0372	0.0141	21:20 hrs/ 27-Oct-09
9	2880.0	Regular sample	0.044	0.0332	0.001	0.0006	00:35 hrs/ 28-Oct-09
10	2881.6	Bleed off choke and kill lane	0.2027	0.0247	0.0007	0.0004	08:10 hrs/ 28-Oct-09
11	2881.6	Bleed off choke and kill lane	1.16	0.0247	0.0007	0.0004	08:24 hrs/ 28-Oct-09
12	2885.38	Circulate with kill mud	1.94	0.0272	0.0009	0.0004	16:48 hrs/ 28-Oct-09
13	2890.0	Circulate with kill mud	1.04	0.4966	0.0149	0.0066	19:10 hrs/ 28-Oct-09
14	2900.0	Regular sample	0.04	0.3785	0.0111	0.0052	04:15 hrs/ 29-Oct-09
15	2910.0	Regular sample	0.5392	0.5107	0.0146	0.0065	22:40 hrs/ 29-Oct-09

Mud Samples and Mud Filtrate samples were collected and stored in glass bottles at the following depths:

SET H (Mud Sample and Mud Filtrate)

Somerset-1

Sample Type	Depth (mMDRT)	Time/Date	Volume
Drilling Fluid (WBM)	1290.0	09:40hrs, 25-Oct-09	500 mL
Drilling Fluid (WBM)	2427.0	05:40hrs, 27-Oct-09	500 mL
Drilling Fluid (WBM)	2820.0	19:00hrs, 27-Oct-09	500 mL
Drilling Fluid (WBM)	2900.0	02:15hrs, 29-Oct-09	500 mL
Drilling Fluid (WBM)	2912.0	18:00hrs, 01-Nov-09	500 mL

Mud Filtrate (WBM)	1290.0	09:40hrs, 25-Oct-09	25 mL
Mud Filtrate (WBM)	2427.0	05:40hrs, 27-Oct-09	25 mL
Mud Filtrate (WBM)	2820.0	19:00hrs, 27-Oct-09	25 mL
Mud Filtrate (WBM)	2900.5	02:15hrs, 29-Oct-09	25 mL
Mud Filtrate (WBM)	2912.0	18:00hrs, 01-Nov-09	25 mL

SECTION 4

PRESSURE EVALUATION

4.1 Pore Pressure Evaluation

Baker Hughes INTEQ formation pressure evaluation services commenced from first returns at the top of the 311m (12-1/4") hole section at 1284.0 mMDRT. Formation evaluation was carried out using surface sensor data collected while drilling, and real-time LWD, as well as offset data provided by the client for correlation purposes. All depths in this discussion refer to "metres Measured Depth below Rotary Table" (mMDRT) unless otherwise stated.

The corrected drilling exponent Dxc was plotted continually while drilling proceeded in an attempt to identify a normal compaction trend and any subsequent deviations from this trend, which might have indicated changes in formation pore pressure. Background gas, including both liberated while drilling and while circulating off-bottom, the nature of cuttings and cavings, general borehole condition together with lagged mud temperatures, were the main tools used in estimating the degree of mud overbalance during drilling.

At Somerset-1 a formation fluid density of 1.03sg was assumed for all pressure gradient calculations. Pore Pressure was observed to be normal in the 445mm (17-1/2") hole section. In the 311mm (12-1/4") hole section, the pore pressure was seen to increase from 1.03sg of to about 1.28sg EMW. As drilling progressed, the pore pressure was seen to become normally pressured to a depth of 2757.0 mMDRT. From 2757.0 to 2817.0 mMDRT, the pore pressure increased from 1.28 to 1.34sg EMW.

A kick occurred in when the active pit volume showed an increase gradually. The predicted pore pressure increased from 1.34 to 1.67sg EMW. The well was killed by using 1.7sg EMW.

The pore pressure prediction was made based on MWD Resistivity and Dxc data.

Dxc Calculation

The following brief description of the Dxc is an extraction from Baker Hughes INTEQ manual; **Formation Pressure Evaluation Pore Pressure Evaluation Techniques**. Please refer to it for further clarification.

Bingham (1965) proposed a relationship between penetration rate, weight on bit, rotary speed, and bit diameter, Jorden and Shirley (1966) solved the equation and allowed a constant, "a", to be unity, but made the d-exponent lithology specific. In a constant lithology, the d-exponent should increase as the depth, compaction and differential pressure across the bottom increase. Upon penetration of a geopressured zone, compaction and differential pressure will decrease and will be reflected by a decrease in the d-exponent. Since differential pressure is dependent upon the mud density as well as formation pore pressure, Rehm and McClendon (1971) proposed a correction for this, hence the Dxc.

$$Dxc = [\log (R/60N) / \log (12W/10^3B)] \times [N.FBG/ECD]$$

Where

- Dxc = corrected d-exponent (dimensionless)
- R = rate of penetration (ft/hr)
- N = rotary speed (rpm)
- B = hole diameter (inches)
- N.FBG = normal formation balance gradient (ppg)
- ECD = effective circulating density (ppg)
- W = weight on bit (1000 lbs)

Factors not considered by the Dxc in its basic form are drilling hydraulics, tooth efficiency (tooth wear and change in bit type) and lithology variation (matrix strength). If differential pressure becomes too large, the simple ratio correction will not completely compensate for its effect on the drill rate. In addition, the relationships among force applied (W/B), rotary speed (N), differential pressure (N.FBG/ECD), and rate of penetration (R) are more complex than the Dxc formulation would imply. While working within "normal" working ranges, radical changes in any of these parameters (for example, change in hole size after setting casing) may result in a change in the Dxc.

Whilst sliding with a downhole motor, bit RPM values are calculated from the flowrates used, as specified by the manufacturer. And in high angle deviated holes, the translation of the weight onto the bit may not be very exact, thus affecting the Dxc. Use of a PDC bit too, was seen affecting the Dxc.

4.2 Fracture Pressure Evaluation

Fracture pressure estimation for Somerset-1 was made using the Daines minimum tensile strength method. For a full explanation of this method, refer to INTEQ Manual MS-156 "The Theory and Evaluation of Formation Pressures".

Using Daines minimum tensile strength method the local effective stress ratio was determined and subsequent fracture pressures were calculated as the well progressed making use of the predicted pore pressure, calculated overburden gradient and the appropriate Poisson ratio for the lithology. The calculated fracture pressure is presented on the Pressure Evaluation Plot (Enclosure 3).

Fracture pressure evaluation commenced at the start of the 311mm (12-1/4") section.

Hole Section 311mm (12-1/4")

A LeakOff Test (LOT) was conducted at the 1289.0 mMDRT.

LOT / FIT	Hole Size	Hole Depth	Casing Size	Shoe Depth	Applied Pressure	Test Mud Weight	Fracture Gradient
LOT	311mm (12-1/4")	1289.0 mMDRT 1288.9 mTVDRT	340 mm (13-3/8")	1278.6 mMDRT 1278.5 mTVDRT	824psi	1.25 sg	1.70 sg EMW

Daines minimum tensile strength methodology

Daines' technique calculates the fracture pressures employing the following equation:

$$P_f = \{(S - P_p) * \{u/1 - u\}\} + \{(S - P_p) * B\} + P_p$$

Where

P_f = Fracture pressure (psi)

P_p = Pore pressure (psi)

S = Overburden pressure (psi)

u = Poisson's ratio (dimensionless)


B = Effective stress ratio (dimensionless)



During drilling, bulk densities were calculated from cuttings lithology together with data from offset wells.

The Poisson's ratio was derived by comparing the formation type drilled with a list of established values. The effective stress ratio "Beta" was calculated from the results of leak off tests where the fracture gradient is actually measured. Once the ratio had been derived the result was used over the following hole section to calculate the fracture pressure using overburden pressure, estimated pore pressure and Poisson's ratio for each lithology.

It must however be stressed that this method of fracture pressure calculation relies heavily upon the formation being pressured up to the point of fracture. The use in the equation of data from formation integrity tests (in which the formation is pressured to a predetermined point and no further) rather than a full leak off test will underestimate subsequent fracture pressures.

APPENDICES

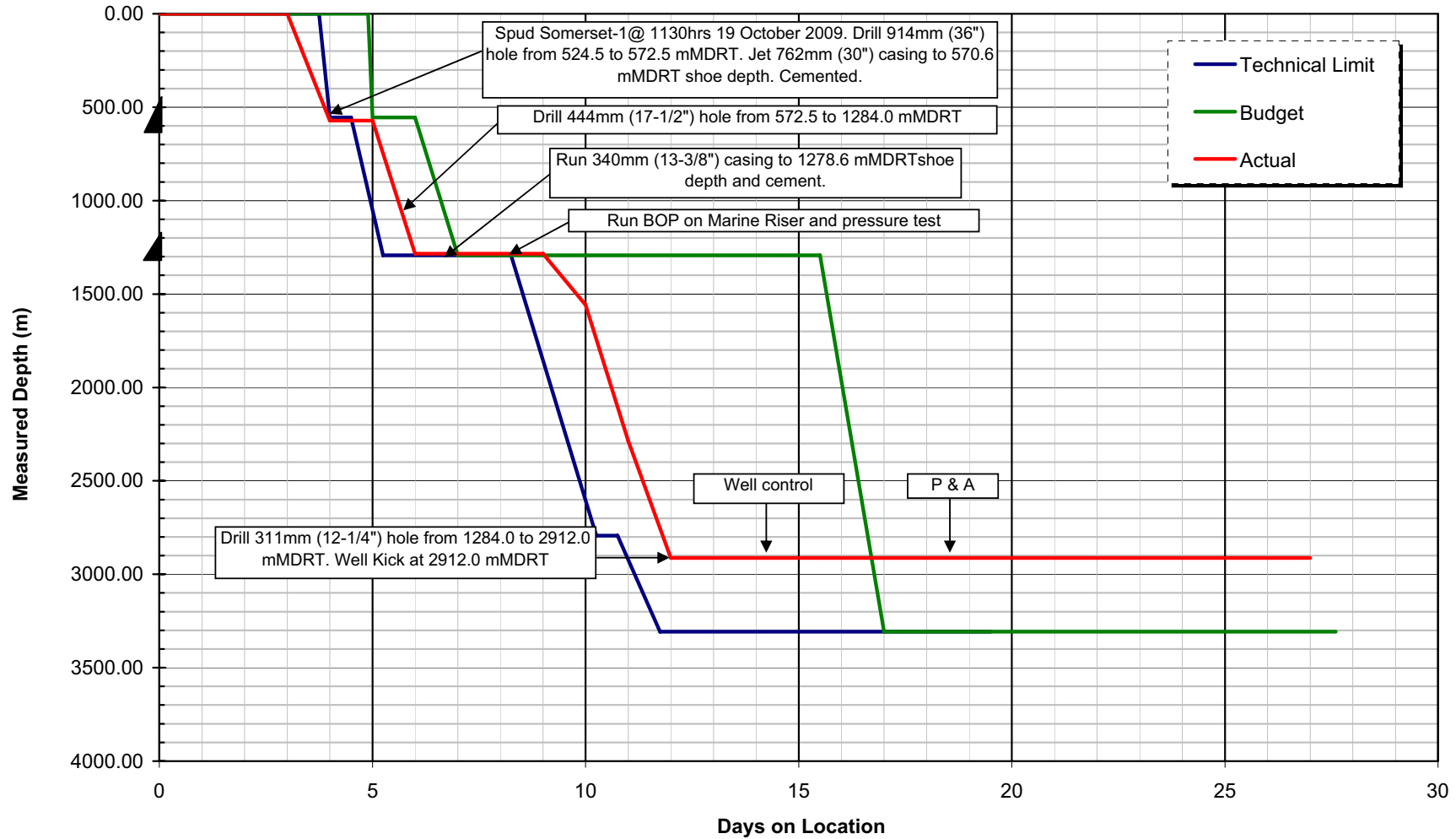
BIT RUN SUMMARY																													
OPERATOR Woodside Energy Ltd						WELL NAME Somerset-1						LOCATION T/34P				CONTRACTOR Diamond Offshore				RIG Ocean Patriot									
						Mud Pump Data 914mm (36"), 508mm (20"), 343mm (13.5") & 241mm (9.5") section 6" Liner - 0.1017 bbl/stk						BIT DULL CHARACTERISTICS BC - Broken Cone CI - Cone Interference JD - Junk Damage PB - Pinched Bit SS - Self-Sharpening BT - Broken Teeth CR - Cored LC - Lost Cone PN - Plugged Nozzle TR - Tracking BU - Balled Up CT - Chipped Teeth LN - Lost Nozzle RG - Rounded Gauge WO - Washed-Out Bit CC - Cracked Cone FC - Flat Crested Wear LT - Lost Teeth RD - Ring Out WT - Worn Teeth CD - Cone Dragged HC - Heat Checking OC - Off-Center Wear SD - Shirltail Damage NO - No Dull Characs.										REASONS PULLED BHA - Bottomhole Assembly LOG - Run Logs FM - Formation Change TD - Total / Csg depth DMF - Downhole Motor failure RIG - Rig repair HP - Hole Problems TG - Torque DSF - Drill String failure CM - Condition Mud HR - Hours TW - Twist-Off DST - Drill Stem Test CP - Core Point PP - Pump Pressure WC - Weather Conditions DTF - Downhole Tool Failure DP - Drill Plug PR - Penetration rate WO - Washout - Drill String							
												BHA #	BIT No.	MAKE	TYPE	TFA sq.in.	JETS	SERIAL No.	DEPTH IN m	METRES ON BIT	HRS ON BOTTOM	AV ROP m/hr	IADC HRS	WOB klb	RPM S/M	TBR krev	SPP psi	FLOW IN gpm	TQ kft-lb
914mm (36") Hole Section 524.5 - 572.5 mMDRT																													
1	NB1	Varel	MILL TOOTH	0.9204	3x20	766R1	524.5	48.0	3.0	16.0	4.00	1.4-17.9	24 - 70 / 24 - 70	103.7	45-1294	537-946	0-7.9	1	1	0	0	0	0	0	0	0	TD	1.04	TD 914mm (36") Section
444mm (17-1/2") Hole Section 572.5 - 1482.0 mMDRT																													
2	NB2	Smith	MILL TOOTH	0.9204	3x16, 3x12	PM6863	572.5	711.5	8.2	86.8	9.00	2.0-61.9	24-89 / 123-214	104.5	1373-4428	766-1270	1.1-11.9	1	1	WT	A	E	I	PN	TD	1.04	TD 444mm (17-1/2") Section		
311mm (12-1/4") Hole Section 1284.0 - 2912.0 mMDRT																													
3	NB3	Smith	MDSI716LHBPX	1.1045	10 x 12	JD0772	1284.0	1628.0	42.4	38.4	43.00	4-40	15-165 / 15-165	414.3	1827-4618	690-1126	1-14	1	2	WT	S	X	I	CT	HP	1.25-1.31	TD 311mm (12-1/4") Section		

 <h2 style="text-align: center;">Bit Hydraulics Summary</h2> 																						
Operator Woodside Energy Ltd						Well Name Somerset-1				Location T/34P			Drilling Contractor Diamond Offshore						Rig Ocean Patriot			
Drillstring Abbreviations N Normal P Positive Displacement Motor C Core M MWD A Adjustable Gauge Stabilizer										Hydraulics Models Robertson-Stiff model used for drilling with mud Bingham Model used for coring and drilling with sea water												
Bit No.	Depth (m)	Hole Size (in)	Jets (x 1/32")	TFA (in^2)	Drill String Type	Mud Type	Mud Density (sg)	PV (cP)	YP (lbs/100 ft sq)	Flow Rate (gpm)	Pump Pressure (psi)	Jet Vel (m/sec)	Impact Force (lb/sq in)	Surface Hydraulic Power (hp)	Power/Area (hp/sq in)	Bit Loss (psi)	Bit Loss (%)	Pipe Loss (psi)	Total Loss (psi)	ECD (sg)	Annular Velocities (m/min)	
																					DP OH	DC OH
311mm (12-1/4") Hole Section																						
NB2	1557	12-1/4	10 x 32	1.1045	M	WBM	1.26	20	28	990	4149	87.8	13.19	2381.5	3.38	676	16.47	601	2828	1.3240	59.14	73.35
NB2	2290	12-1/4	10 x 32	1.1045	M	WBM	1.30	21	32	980	4150	87.7	12.89	2332.8	3.25	661	16.19	886	2535	1.4262	59.73	86.80
NB2	2620	12-1/4	10 x 32	1.1045	M	WBM	1.30	21	32	845	4217	74.8	9.890	2108.7	2.15	507	11.85	1011	2763	1.4477	50.48	73.35



INTEQ

Woodside Energy Ltd
Somerset-1
Time vs. Depth



SAMPLES FINAL DESTINATION (SAMPLE DISTRIBUTION SUMMARY)

DRILL TYPE	DESTINATION	REMARKS
<p>DRILL CUTTINGS 200G Washed/air dried (200g zip lock bags)</p> <p><u>FOUR sets (A,B,C,D)</u> All sets to be sent to:</p> <p>Core Laboratories 447-449 Belmont Ave Kewdale WA 6105 Attn: James Brown</p>	<p><u>Set A. Geosciences Australia</u></p> <p><u>Set B. MRT (Tasmania)</u> Geological Survey Stores and Transportation Depot 37 Harris Street Carlisle WA 6101</p> <p><u>Sets C & D. WEL</u></p>	<p>Core Lab to forward to Geoscience Australia Cnr Jerrabomberra Avenue & Hindmarsh Drive Symonston ACT, 2609 GPO Box-378, Canberra ACT,2601</p> <p>Core Lab to store</p>
FIS SAMPLES (30g) (SET E) (in small plastic bags)	Core Laboratories, Perth address as above.	Core Lab to on-send to WEL
SAMPLEX TRAYS (SET F)	Core Laboratories, Perth address as above.	1 Set in wooden boxes.
MUDGAS SAMPLES (SET G)	Core Laboratories, Perth address as above.	<p>Core Lab to forward to 41-45 Furnace Road Welshpool WA 6106</p> <p>Contact: Cindy Barber Tel: 9458 8877 Email: cindy@geotechnical- services.com.au</p>
MUD SAMPLES AND (SET H) MUD MILTRATE	Core Laboratories, Perth address as above.	Core Lab to on-send to Geotech fridge.

Mudlogging Samples Compliancy Checklist

It is critically important for all cuttings samples to be compliant with both Government and Woodside requirements. Please help us to ensure compliance by following the sampling program for the well, and completing this checklist. Woodside appreciates your help with this.

Well: Somerset-1
 Mudlogging Contractor: Baker Hughes Inteq
 Crew Chief Name at TD: _____
 Sample Catchers Names: _____

CREW CHIEF TO COMPLETE, SIGN AND THEN SEND TO OPS GEOLOGIST

YES	
✓	Correct weight (200 g +) - or reason why underweight marked on bag.
✓	Samples dry (& free of oily residue for SBM).
✓	Correct sampling intervals.
✓	Correct number of splits.
✓	Correct marking of split boxes.
✓	Correct bag types (plastic for WBM / foil for SBM).
✓	Correct labelling (indelible pen for plastic bags with WBM / metals tags for SBM).
✓	Legible labelling.
✓	Empty and labelled bags for missed intervals, with reason why missed (eg high ROP, cored interval, washed off shakers, lost circulation).
✓	Comprehensive sample manifest taped to outside of split boxes.
✓	This declaration has been sent to the ops geologist within 7 days of TD of the well.

Signed By Crew Chief: (Sgd)

Date: November 2009

ENCLOSURES



INTEQ

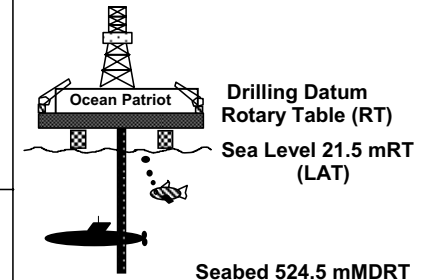
INTEQ LOG SUITE

Drilling Data Plot

Formation Evaluation

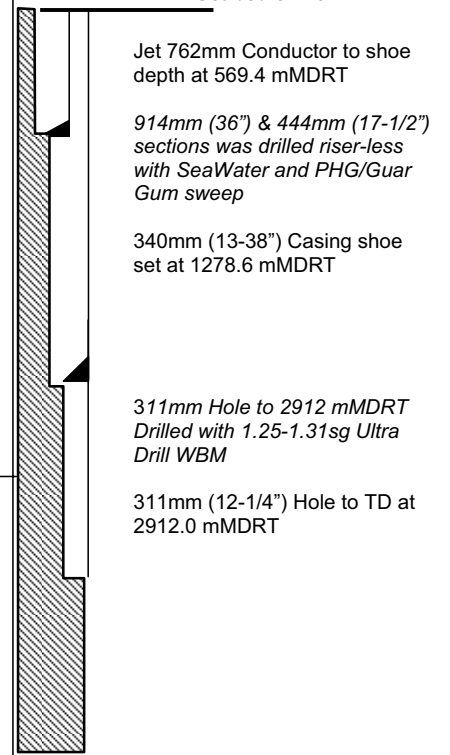
Pressure Data Plot

Gas Ratio Plot



ABBREVIATIONS

NB	New Bit	SG	Swab Gas
RB	Rerun Bit	SVG	Survey Gas
CB	Core Bit	C	Carbide Test
WOB	Weight on Bit	MW	Mud Density sg
RPM	Revs per Minute	V	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
FLCG	Flow Check Gas	FC	Filter Cake
PR	Poor Returns	PV	Plastic Viscosity
NR	No Returns	YP	Yield Point
LAT	Logged after trip	SOL	Solids %
BG	Background Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
STG	Short trip Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivity
SWG	Swab Gas	TVD	Total Vertical Depth



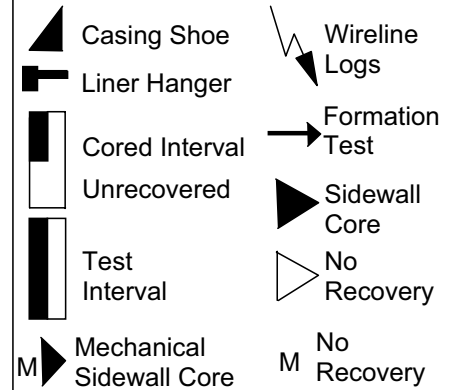
Company	Woodside Energy Limited
Well	Somerset-1
Permit	T/34P
Region	Otway Basin
Designation	Vertical Exploration
Coordinates	039° 20' 36.757" S 142° 44' 56.144" E
Datum	GDA94 Zone 54
Spud Date	19 October 2009
Spud Depth	524.5 mMDRT
RT – Sea Level	21.5 m above LAT
Total Depth	2912.0 mMDRT
Contractor	Diamond Offshore
Rig	Ocean Patriot
Type	Semi-Submersible

LITHOLOGY SYMBOLS

Calcarenite	Calcsiltite	Argillaceous Calcsiltite	Calclutite
Dolomitic Calcarenite	Dolomitic Calclutite	Argillaceous Calclutite	Volcanic
Siltstone	Calcareous Siltstone	Argillaceous Siltstone	Sandstone
Claystone	Calcareous Claystone	Silty Claystone	Calcareous Sandstone

LOG INTERVAL

Depth	524.5 – 2912.0 mMDRT
Date	19 – 27 October 2009
Scale	1:500
Data Engineers	S.Shahadan, Gokula.K.Ramanathan
Loggers	R. Dhanda, P. Kadam, J. Bladen, S. Turnbull



FORMATION EVALUATION LOG
1:500



Company : Woodside Energy Limited

Well : Somerset-1

Interval : 494.00 - 2938.78 meters

Created : 13/Jan/2010 8:53:02 AM



INTEQ

FORMATION EVALUATION LOG

WOB		MD meters 1:500	CORE	LITHOLOGY %	INTERPRETED LITHOLOGY	TOTAL GAS & RESISTIVITY	CHROMATOGRAPH	CALC	REMARKS
ROP						Total Gas	Methane	Calcite	
 ROP Backup 						0.01 0.1 1 10 %	% Ethane Propane iso-Butane n-Butane iso-Pentane n-Pentane 0.01 0.1 1 10 %	20 40 60 80 100 Dolomite 10000 60 40 20 PFG	
		500							<p>All depth measurements in meters referenced from Rotary Table (RT) RT = 21.5m Water depth (LAT) = 503.0m RT-Seabed = 524.5m MDRT</p> <p>Somerset-1 spudded @ 11:30 hrs on 19 October 2009</p> <p>Type: Hi Vis PHG & GG MW: 8.7ppg FV:200 PV:N/A Gel:N/A YP:N/A pH:N/A</p> <p>Drill with seawater and Hi-vis PHG & Guar Gum sweeps Returns to Seabed</p> <p>Set 762mm (30") x 508mm (20") casing shoe at 569.4 mMDRT</p> <p>445mm (17-1/2") Section</p>
		510							
		520							
NB1 Varel 766R1 660mm (26") (36") H/Opener Jets: 3x20 Depth In: 524.5m Depth Out: 572.5m Drilled: 47.5m in 3.0hrs Grade: 1-1-0-0-0-0-TD		530							
		540							
		550							
WOB: 1 - 18klbf RPM: 24 - 70 GPM: 538 - 946 SPP: 45 - 1294psi		560							
		570							
19 Oct 2009 20 Oct 2009		580							

No return to gas system

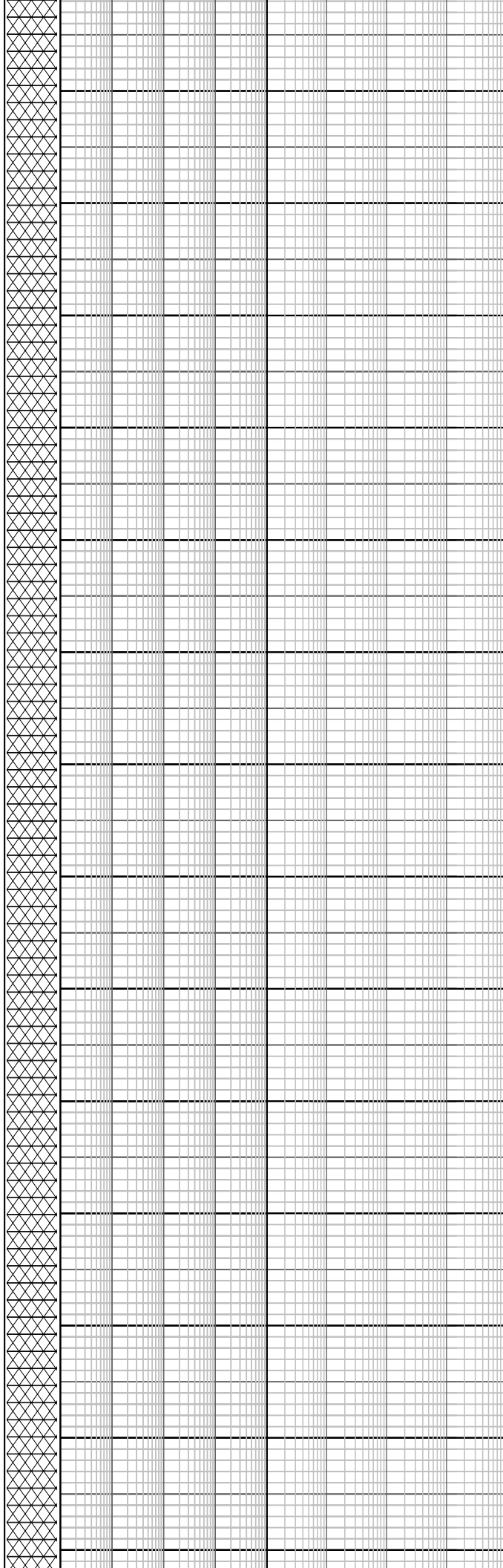
MWD (incl and azimuth only)

Smith Mill Tooth
44mm (17-1/2")
Jets: 3x16 - 3x12
Depth In: 572.5m
Depth Out: 1284.0m
Drilled: 711.5m 8.2hrs
Grade: 4 - WT-A-E-I-PN-TD

WOB: 1 - 11klbf
RPM: 124 - 158
GPM: 895 - 931
SPP: 2120 - 2308psi

WOB: 4 - 16klbf
RPM: 201 - 231
GPM: 957 - 1246
SPP: 2570 - 4237psi

590
600
610
620
630
640
650
660
670
680
690
700
710
720



commenced @ 20:25 hrs on 20
October 2009

Survey @ 599.08m Inc: 0.60, Azi:
121.19, TVD: 599.07m

Drill with seawater and Hi-vis
PHG & Guar Gum sweeps
Returns to Seabed

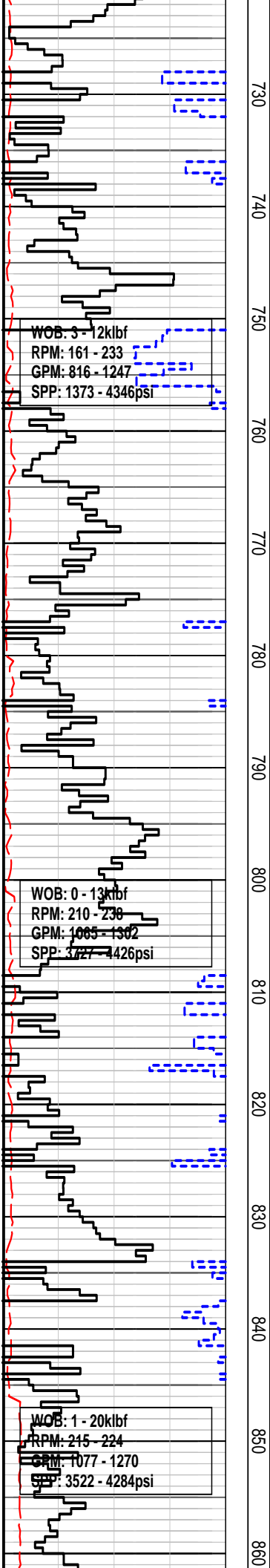
Survey @ 627.77m Inc: 0.58, Azi:
134.31, TVD: 627.76m

Drill with seawater and Hi-vis
PHG & Guar Gum sweeps
Returns to Seabed

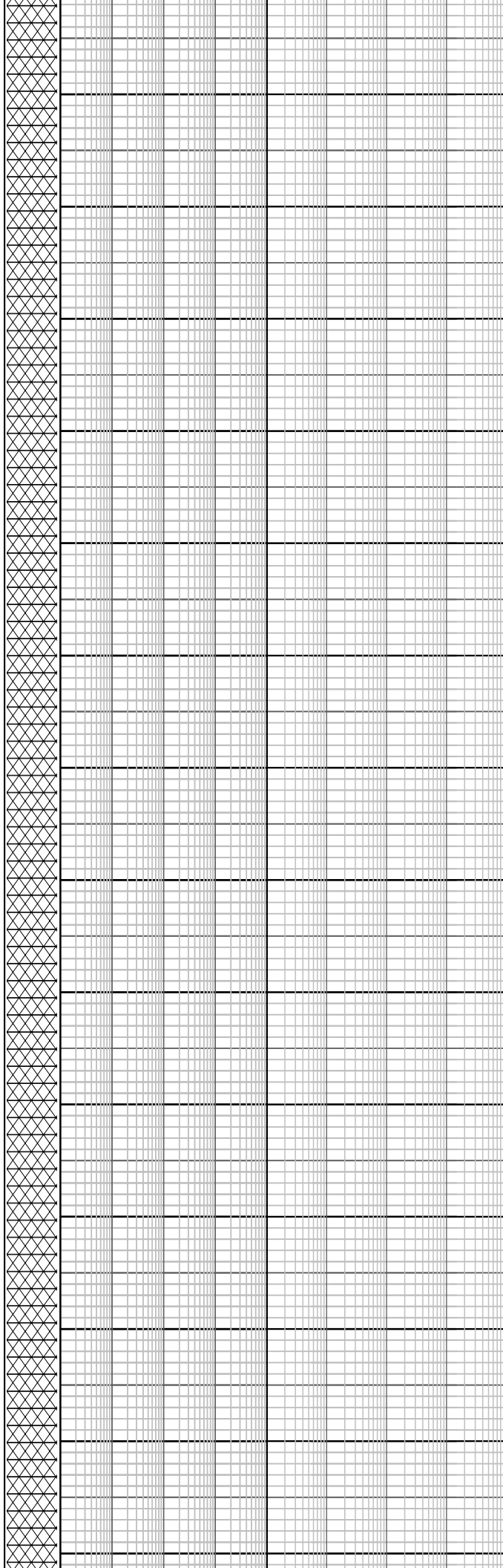
Survey @ 684.35m Inc: 0.43, Azi:
117.87, TVD: 684.34m

Drill with seawater and Hi-vis
PHG & Guar Gum sweeps
Returns to Seabed

Survey @ 713.04m Inc: 0.54, Azi:
135.97, TVD: 713.02m



730
740
750
760
770
780
790
800
810
820
830
840
850
860



Drill with seawater and Hi-vis
PHG & Guar Gum sweeps
Returns to Seabed

Survey @ 799.04m Inc: 0.53, Azi:
124.88, TVD: 799.02m

Type: Hi Vis PHG & GG
MW: 8.7ppg FV:200
PV:N/A Gel:N/A
YP:N/A pH:9.5

Drill with seawater and Hi-vis
PHG & Guar Gum sweeps
Returns to Seabed

20 Oct 2009
21 Oct 2009

870
880
890
900
910
920
930
940
950
960
970
980
990
1000

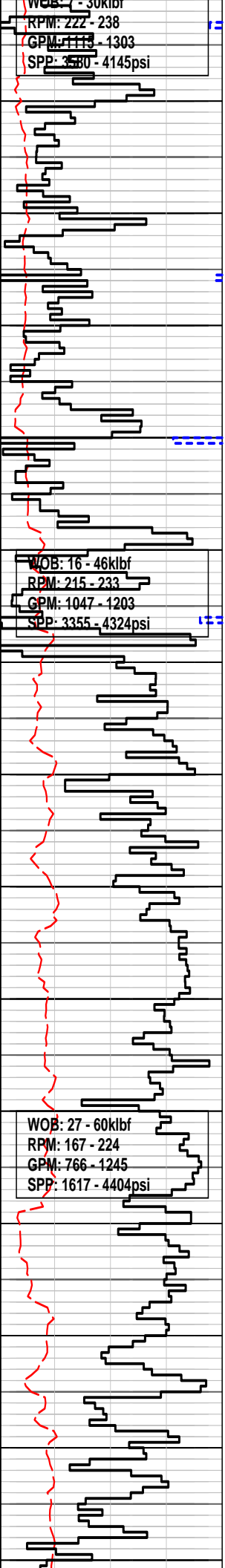
WOB: 11 - 20klbf
RPM: 204 - 222
GPM: 971 - 1145
SPP: 3705 - 4045psi

WOB: 12 - 23klbf
RPM: 216 - 244
GPM: 1083 - 1244
SPP: 3415 - 4167psi

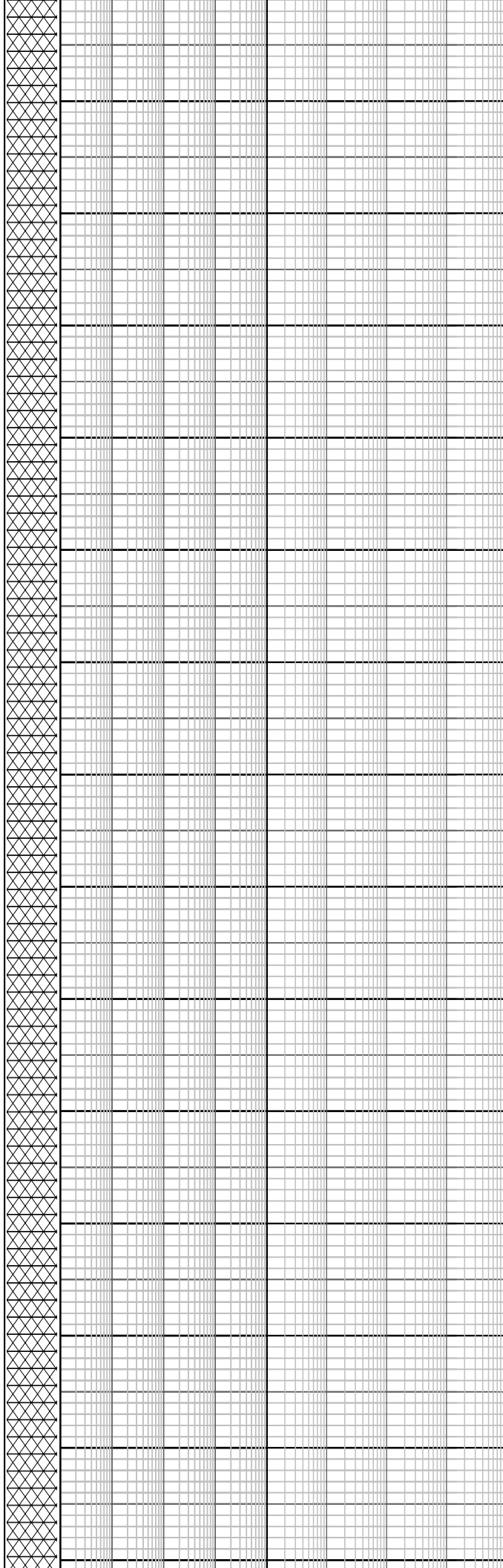
Drill with seawater and Hi-vis
PHG & Guar Gum sweeps
Returns to Seabed

Survey @ 972.34m Inc: 0.93, Azi:
96.0, TVD: 972.30m

Drill with seawater and Hi-vis
PHG & Guar Gum sweeps
Returns to Seabed



1010
1020
1030
1040
1050
1060
1070
1080
1090
1100
1110
1120
1130
114



Survey @ 1001.37m Inc: 0.92,
Azi: 82.73, TVD: 1001.33m

Drill with seawater and Hi-vis
PHG & Guar Gum sweeps
Returns to Seabed

Survey @ 1059.78m Inc: 0.97,
Azi: 75.34, TVD: 1059.73m

Survey @ 1090.08m Inc: 0.77,
Azi: 49.47, TVD: 1090.03m

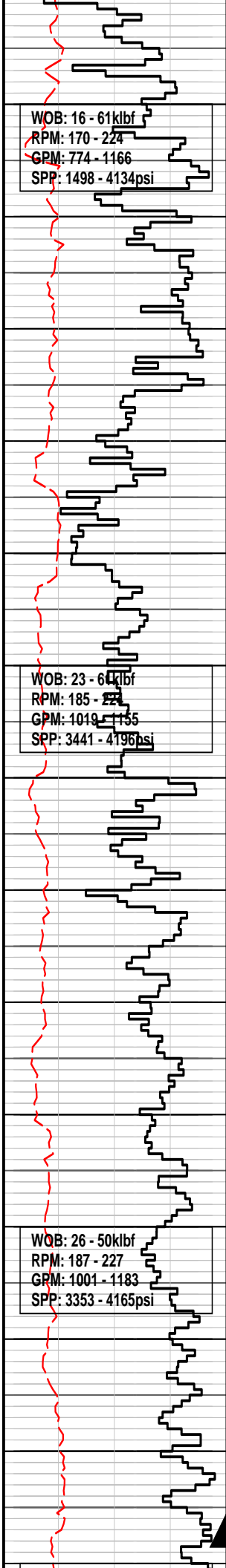
Drill with seawater and Hi-vis
PHG & Guar Gum sweeps
Returns to Seabed

Survey @ 1117.31m Inc: 0.68,
Azi: 45.03, TVD: 1117.26m

WOB: 30klbf
RPM: 222 - 238
GPM: 1113 - 1303
SPP: 380 - 4145psi

WOB: 16 - 46klbf
RPM: 215 - 233
GPM: 1047 - 1203
SPP: 3355 - 4324psi

WOB: 27 - 60klbf
RPM: 167 - 224
GPM: 766 - 1245
SPP: 1617 - 4404psi



0
1150
1160
1170
1180
1190
1200
1210
1220
1230
1240
1250
1260
1270
1280



No return to gas system

MWD (incl and azimuth only)

Drill with seawater and Hi-vis
 PHG & Guar Gum sweeps
 Returns to Seabed

Survey @ 1203.66m Inc: 0.95,
 Azi: 60.78, TVD: 1203.60m

Drill with seawater and Hi-vis
 PHG & Guar Gum sweeps
 Returns to Seabed

Survey @ 1254.36m Inc: 0.22,
 Azi: 29.97, TVD: 1254.29m

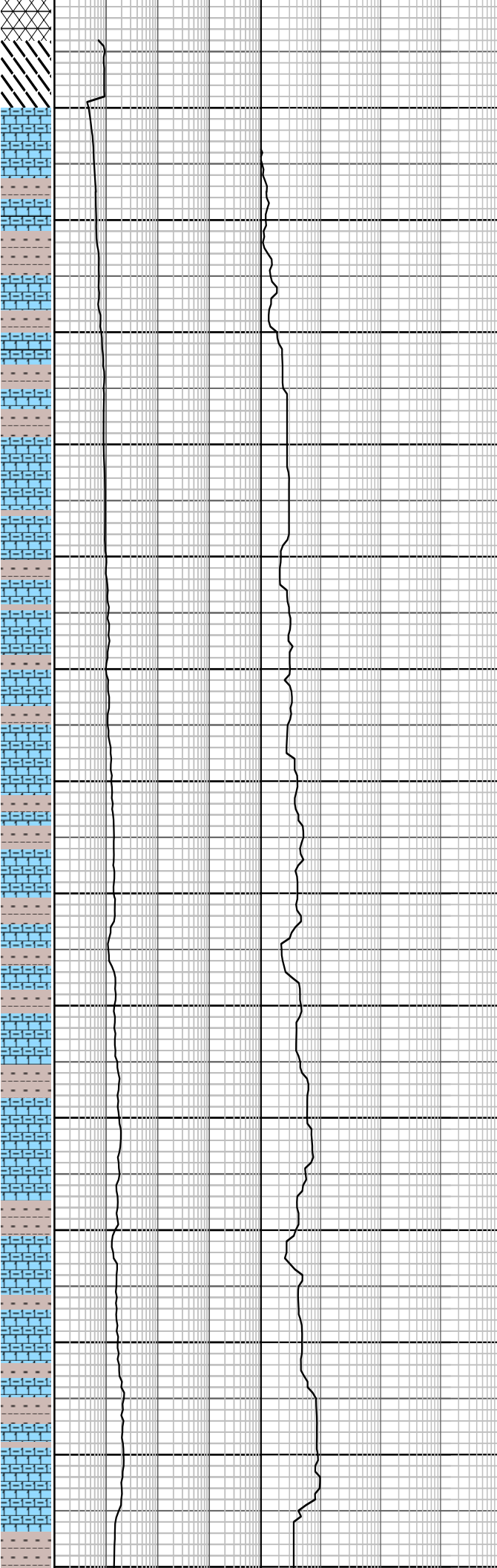
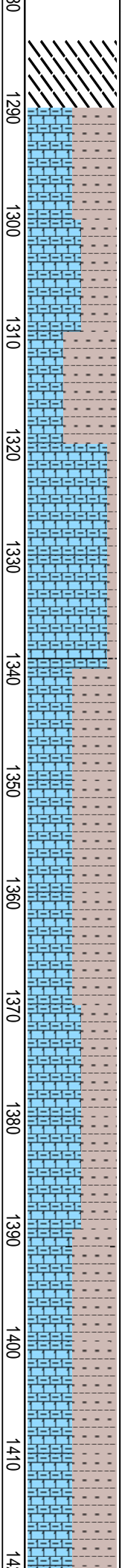
Set 340mm (13-3/8") casing shoe
 at 1278.6 mMDRT

Smith PDC Bit
341mm (12-1/4")
Jets: 10x12
Depth In: 1284.0m
Depth Out: 2912.0m
Drilled: 1628.0m in 42.4hrs
Grade: 1-2-WT-S-X-I-CT-IP

WOB: 8 - 62klbf
RPM: 58 - 223
GPM: 690 - 1158
SPP: 1827 - 4188psi

WOB: 15 - 54klbf
RPM: 109 - 177
GPM: 716 - 1060
SPP: 2151 - 4186psi

WOB: 16 - 34klbf
RPM: 161 - 174
GPM: 1008 - 1063
SPP: 3916 - 4244psi



Reached TD of 445mm (17-1/2")
Section to 1284.0 mMDRT @
08:30 hrs on 21 October 2009

ARGILLACEOUS CALCISILTITE:
v lt olv gy, frm, sbblky-blky,
20-30% arg, 5-10% dk slit & dk
flicks

CALCAREOUS CLAYSTONE: lt
olv gy-olv gy, frm, sbblky-blky,
20-25% calc, tr-5% dk slit (Note:
10% cmt contam)

ARGILLACEOUS CALCISILTITE:
v lt olv gy, frm, sbblky-blky,
30-40% arg, tr dk slit & flicks, tr
calc xln

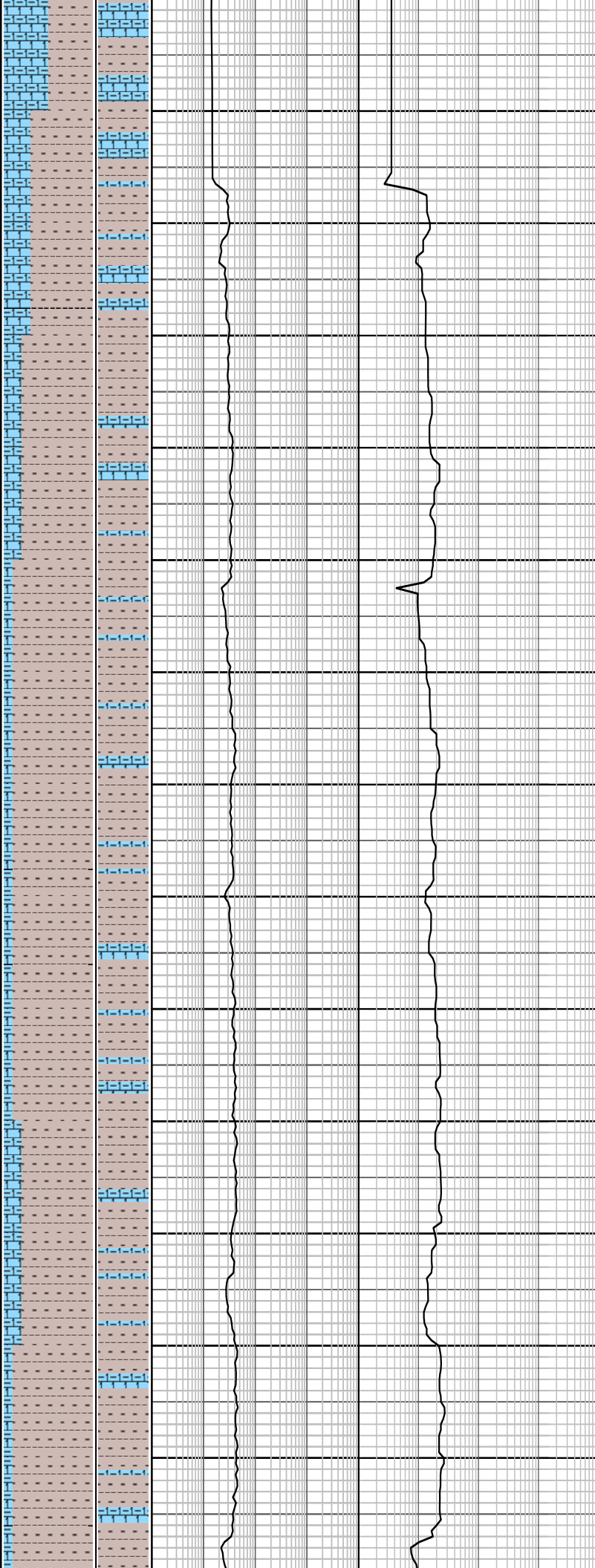
CALCAREOUS CLAYSTONE: lt
olv gy-gnsh gy, frm, sbblky-blky,
20-30% calc, tr calc slit, tr dk slit

Survey @ 1395.50m Inc: 0.44,
Azi: 87.23, TVD: 1395.43m

ARGILLACEOUS CALCISILTITE:
pch wh-v lt olv gy, frm,
sbblky-blky, 20-30% arg, tr dk slit
& flicks, tr-1% qtz slit & sd, tr-1%
v f blk glau gr, tr calc xln, gr
i/p-Calc Clst



1423.48
1430
1440
1450
1460
1470
1480
1490
1500
1510
1520
1530
1540
1550



Survey @ 1423.48m Inc: 0.35,
Azi: 95.19, TVD: 1423.41m

CALCAREOUS CLAYSTONE: lt olv gy-gnsh gy, frm, sbbilky-blky, 30-40% calc, tr-1% calc slt, tr v f qtz sd, tr yel calc gr, tr rdsh brn lith, tr glau, tr dk slt, tr skel frag

Survey @ 1450.69m Inc: 0.32,
Azi: 100.66, TVD: 1450.62m

ARGILLACEOUS CALCISILTITE: pch wh-v lt olv gy, frm, sbbilky-blky, 20-30% arg, tr dk slt & flcks, tr-1% qtz slt & sd, tr-1% v f gn blk glauc gr, tr calc xln, grd i/p-Calc Clst

Type: Ultradril
MW: 10.5ppg FV:74
PV:20 Gel:6/9/10
YP:28 pH:10.2

CALCAREOUS CLAYSTONE: lt olv gy-gnsh gy, sft-frm, sbbilky-blky, 30-40% calc, tr-1% Calc Slit, tr glau slt, i/p tr blky pyr

ARGILLACEOUS CALCISILTITE: pch wh-v lt olv gy, frm, sbbilky-blky, 20-30% arg, tr dk slt & flcks, tr-1% qtz slt & sd, tr-1% v f gn blk glauc gr, tr calc xln, grd i/p-Calc Clst

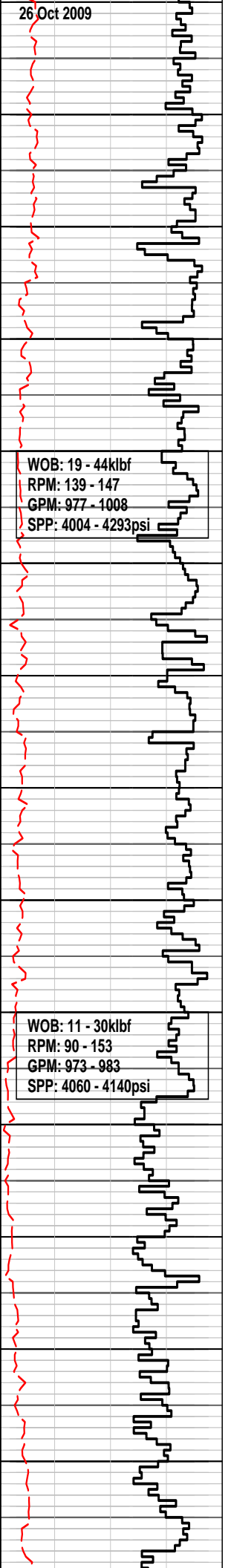
CALCAREOUS CLAYSTONE: lt olv gy-olv gy, gnsh gy-dk gy, sft-frm, sbbilky-blky, 30-40% calc, tr-1% calc slt, tr glau slt, i/p tr pyr

ARGILLACEOUS CALCISILTITE: lt olv gy-lt gy, frm, sbbilky-blky, 25% arg, tr calc xln, grd-Calc Clst i/p

ARGILLACEOUS CALCISILTITE: lt olv gy-lt gy, tr wh pch, frm, sbbilky-blky, 25% arg, tr calc xln, tr v f lith, grd-Calc Clst i/p

26 Oct 2009

1570
1580
1590
1600
1610
1620
1630
1640
1650
1660
1670
1680
1690
1



CALCAREOUS CLAYSTONE: lt olv gy-olv gy, grnh gy-dk gnsh gy, sft-frm, sbblky-blky, 30-40% calc cl, tr-1% calc sit, tr carb spks, tr glau slt, tr pyr

CALCILUTITE: wh-lt gy, lt olv gy, frm, sbblky-blky, 5% calc sit, 15% cl, tr crpxln calc, tr v f blk-gnsh blk lith, tr glau spks, grd-arg calc

CALCAREOUS CLAYSTONE: m gy-olv gy, sft-frm, sbblky-blky, 30- 40% calc cl, 30-40% calc cl, tr-1% calc slt, tr carb spks, tr glau slt, tr pyr, tr lith

CALCILUTITE: wh-lt gy, lt olv gy, sft-frm, sbblky-blky, 5% calc slt, 15% cl, tr crpxln calc, tr glau, tr carb spks

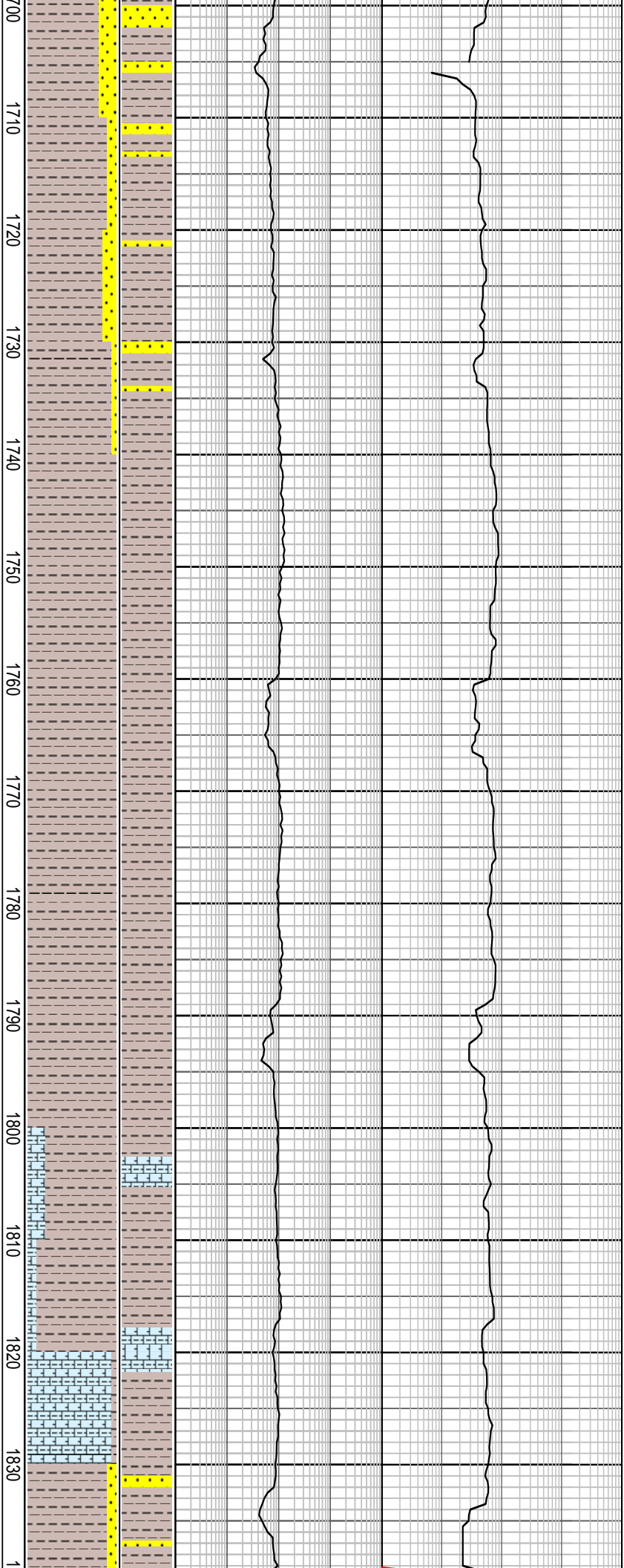
SANDSTONE: wh-lt olv gy, lse trnsl-trnsp qtz gr, v f-5% f g, v wl srt, ang-sbang, sbelong, tr lith, tr carb spks, pr-fr inf por, hydc fluor

CLAYSTONE: 50% dk gy-gnsh blk, 50% olv gy-brnsh gy, sft-frm, sbblky-blky, 30-40% calc cl, tr-1% calc sit, tr carb spks, tr glau slt, tr pyr

WOB: 5 - 33klbf
RPM: 131 - 144
GPM: 937 - 977
SPP: 3848 - 4186psi

WOB: 11 - 32klbf
RPM: 126 - 156
GPM: 954 - 985
SPP: 4074 - 4218psi

WOB: 13 - 34klbf
RPM: 140 - 155
GPM: 855 - 983
SPP: 3458 - 4399psi



15-19% calc cl, 10-15% silt, tr-5% carb spks, tr glau, tr pyr, tr lith, grd i/p-Slt Clst

SANDSTONE: wh-lt olv gy, gnsh gy i/p, pred lse, trns-trnsp qtz gr, v f -10% f gr, v wl-wl srt, ang-sb ang, sbelong, 5-10% arg mtrx i/p wshg ot & dis, tr-5% pyr, hd cmt agg, tr calc cmt, tr lith, tr carb spks, tr-5% glau, fr inf por, n hydc flour

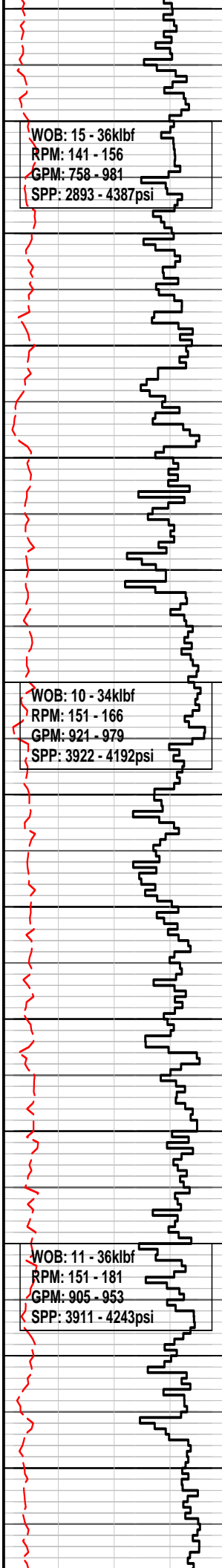
Survey @ 1739.63m Inc: 0.22, Azi: 152.34, TVD: 1739.55m

CLAYSTONE: dk gy-olv blk, sft-frm, sbblky-blky, amor i/p, 10-15% calc cl, 10-15% silt, tr carb spks, tr-5% glau, tr pyr, tr lith, grd i/p-Slt Clst

CLAYSTONE: dk gy-olv blk, sft-frm, sbblky-blky, amor i/p, 10-15% calc cl, 10-19% silt, tr carb spks, tr-5% glau, tr pyr, tr-5% lt olv gy-dsky yelsh brn strng calc frag that are ang i/p, tr lith, grad i/p-Slt Clst

ARGILLACEOUS CALCILUTITE: lt olv gy-olv gy, pred sft-frm, tr hd & ang, pred sbblky-blky 30-35% cl, 5-10% calc silt, crpxln calc, tr glau, tr pyr, grd-Calc Clst i/p

SANDSTONE: lt gy, trnsp-trnsl qtz gr, lse, v f-tr f gr, sbang-rnnd, v wl-wl srt, arg mtrx i/p, tr silt, tr lith, tr glau, tr pyr, fr-p inf por, n hydc flour



1840
1850
1860
1870
1880
1890
1900
1910
1920
1930
1940
1950
1960
1970
1



CLAYSTONE: dk gy-grnsh blk, sft-frm, sbblky-blky, amor i/p 10-15% calc cl, 10-19% slt, tr carb spks, tr-5% glauc, tr pyr, tr lith, grad i/p Slst Clst

SILTY CLAYSTONE: dk gy-dark olv gy, sft-mod fm, amor-sbblky, tr calc, 20-25% slt, tr-1% v f qtz gr, pred lse gn, tr-2% hd peld & gran glauc, tr blkpy pyr, tr lith

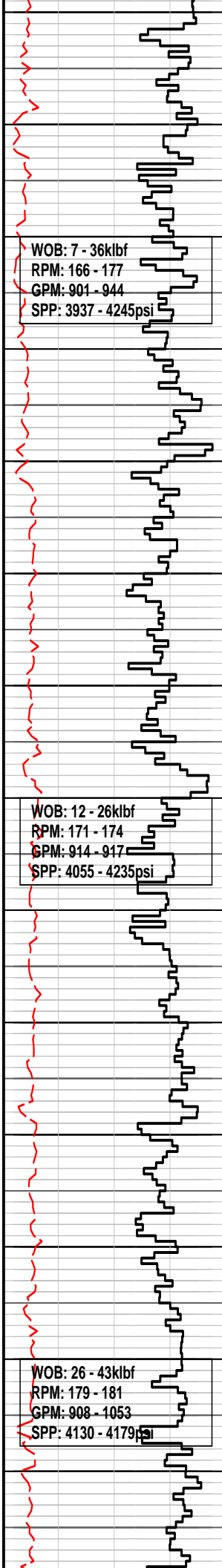
Survey @ 1885.00m Inc: 0.43, Azi: 189.27, TVD: 1884.92m

CALCAREOUS CLAYSTONE: lt brn gy-brn gy, sli mott, fm-mod hd, in pt brit, sb-blky-blky, 20-25% calc, tr-3% calc slt, tr calc sd & frag, 2-5% dol cmt & frag, tr qtz sd, tr foss frag

SILTY CLAYSTONE: dk gy-dk olv gy, sft-mod frm, amor-sbblky, tr calc, 20-25% slt, 2% v f qtz gr, pred lse gn, tr-2% hd peld & gran glau, occ rndd clmp, tr blkpy pyr, tr lith

Survey @ 1933.81m Inc: 0.33, Azi: 335.46, TVD: 1933.72m

CALCAREOUS CLAYSTONE (tr): sli mott ap, lt brnsh gy-brnsh gy, frm-mod hd, i/p brit, sbblky-blky, 20-25% calc, tr-3% calc slt, tr calc frag, i/p 2-5% dol cmt



WOB: 7 - 36klbf
 RPM: 166 - 177
 GPM: 901 - 944
 SPP: 3937 - 4245psi

WOB: 12 - 26klbf
 RPM: 171 - 174
 GPM: 914 - 917
 SPP: 4055 - 4235psi

WOB: 26 - 43klbf
 RPM: 179 - 181
 GPM: 908 - 1053
 SPP: 4130 - 4179psi

1980
1990
2000
2010
2020
2030
2040
2050
2060
2070
2080
2090
2100
2110



SILTY CLAYSTONE: dk gy-dk olv gy, sli brnsh gy, sft-i/p frm, amor-sbblky, tr-i/p 3% calc, 20-25% slt, tr-2% v f qtz gr, tr-2% lse qtz sd, v wl srt prob disagg gprndd-rndd, sbspher, tr hd peld & gran glau, tr disagg blkly pyr, tr lith

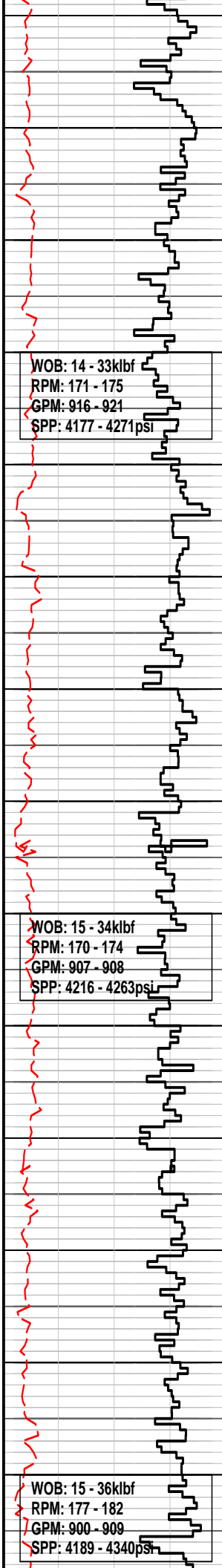
Survey @ 2029.52m Inc: 0.80, Azi: 194.45, TVD: 2029.44m

CALCAREOUS CLAYSTONE: sli mott ap, lt brnsh gy-brnsh gy, frm-mod hd, i/p brit, sbblky-blky, 20-25% calc, tr-3% calc slt, tr calc frag, tr-5% dol cmt

SILTY CLAYSTONE: brnsh gy-dk olv gy, sft, amor-sbblky, tr calc, 20-25% slt, tr v f qtz gr, tr v f glau, tr disagg blkly pyr, tr lith

Survey @ 2086.65m Inc: 0.81, Azi: 197.53, TVD: 2086.56m

SILTY CLAYSTONE: brnsh gy-dk olv gy, sft, amor-sbblky, tr calc, 20-25% slt, tr v f qtz gr, tr v f glau, tr disagg blkly pyr, tr lith



2120
2130
2140
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2160
2170
2180
2190
2200
2210
2220
2230
2240
2250



CALCAREOUS CLAYSTONE:
mott-pch ap, lt brnsh gy-brnsh gy, i/p wh, frm-mod hd, i/p brit, sbblky-blky, 20-25% calc, tr-3% calc slt, tr calc frag, tr-5% dol cmt

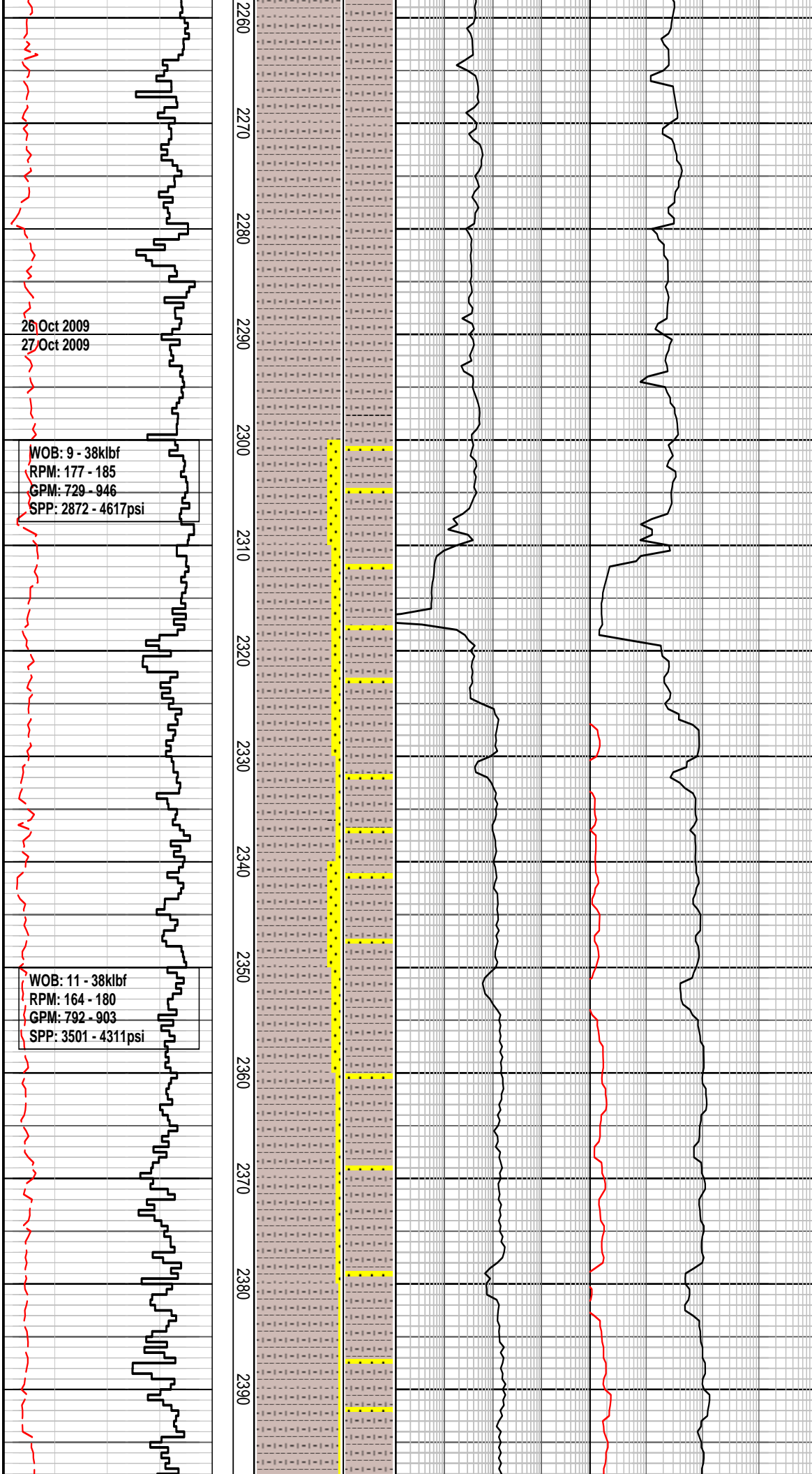
SILTY CLAYSTONE: brnsh gy-dk olv gy, sft-firm, amor-sbblky, 20-25% slt, tr v f qtz gr, tr slt-v f glau, tr slt lith

Survey @ 2201.88m Inc: 0.95,
Azi: 192.05, TVD: 2201.78m

CALCAREOUS CLAYSTONE:
mott-pch ap, lt brnsh gy-brnsh gy, i/p wh, frm-mod hd, i/p brit, sbblky-blky, 20-25% calc, tr-3% Calc Slit, tr calc frag, i/p hd dol cmt

Type: Ultradril
MW: 10.8ppg FV:74
PV:21 Gel:7/10/11
YP:32 pH:10.0

SILTY CLAYSTONE: dk gy, mnr brnsh gy-dk olv gy, sft-firm, amor-sbblky, 20-25% slt, tr v f qtz gr, tr v f glau spks, tr slt lith



SILTY CLAYSTONE: dk gy, sft-frm, amor-sbblky, 20-25% slit, tr v f qtz gr, tr v f glau spks, tr slit lith, tr brk wh calc foss frag

Survey @ 2288.48m Inc: 0.99, Azi: 182.79, TVD: 2288.37m

SANDSTONE: lt gy, trnsp-trnsl qtz gr, lse, v f-f gr, sbang-rndd, sbelong-sbspher, v wl-wl srt, arg mtrx i/p, tr-5% slit, tr lith, tr glau, tr pyr, fr-p inf por, n hydc fluor

Changed shaker screens and adjusted gastrap

Survey @ 2316.76m Inc: 1.04, Azi: 183.07, TVD: 2316.63m

SILTY CLAYSTONE: dk gy-olv blk, brnsh gy i/p, sft-frm, amor-sbblky, 20-25% slit, tr-5% v f qtz gr, tr v f glau spks, tr slit lith, tr brk wh calc foss frag

Survey @ 2345.02m Inc: 1.11, Azi: 183.02, TVD: 2344.89m

SANDSTONE: lt gy, trnsp-trnsl qtz gr, lse, v f-f gr, sbang-rndd, sbelong-sbspher, v wl-wl srt, arg mtrx i/p disp & wshg ot, tr-5% slit, 5% blk lit spks, tr glauc, tr pyr, fr-p inf por, n hydc fluor

Survey @ 2374.64m Inc: 1.29, Azi: 186.60, TVD: 2374.50m

SILTY CLAYSTONE: dk gy-olv blk, olv gy-brnsh gy, sft-frm, amor-sbblky, 20-25% slit, tr v f qtz gr, tr v f glau spks, tr slit lith, tr mott lt olv gy frag, tr brk wh calc foss frag

WOB: 17 - 39klbf
RPM: 165 - 174
GPM: 861 - 879
SPP: 4192 - 4317psi

WOB: 20 - 35klbf
RPM: 161 - 166
GPM: 847 - 884
SPP: 4161 - 4228psi

WOB: 24 - 34klbf
RPM: 163 - 173
GPM: 839 - 865
SPP: 4139 - 4331psi

2400
2410
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2500
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2530

Survey @ 2403.54m Inc: 1.34,
Azi: 188.03, TVD: 2403.40m

SANDSTONE: lt gy, trnsp-trnsl
qtz gr, lse, v f-f gr, sbang-rnnd,
sbelong-sbspher, v wl-wl srt, arg
mtrx i/p disp & wshg ot, tr-5%
slt, 5% blk lith spks, tr glau, tr
pyr fr inf por, n hydc fluor

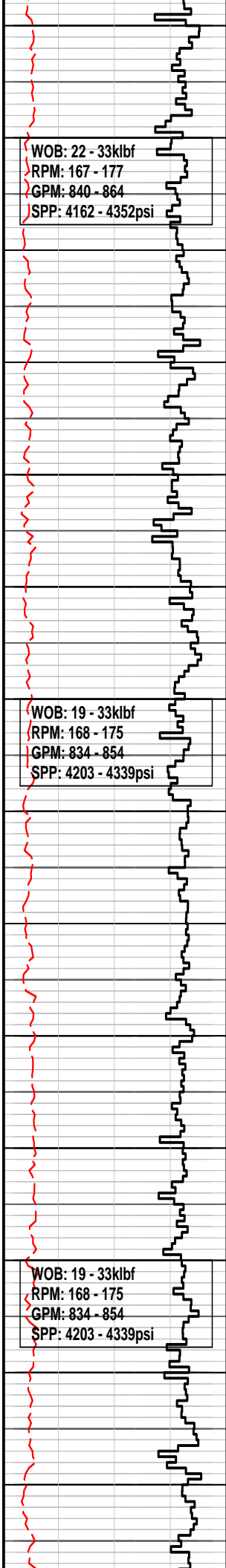
SILTY CLAYSTONE: dk gy-olv
blk, olv gy-brnsh gy, sft-frm,
amor-sbblky, 20-25% slt, tr v f
qtz gr, tr v f glau spks, tr slt lith,
tr mott lt olv gy frag, tr brk wh
calc foss frag

SANDSTONE: lt gy, trnsp-trnsl
qtz gr, lse, v f-f gr, sbang-rnnd,
sbelong-sbspher, v wl-wl srt, arg
mtrx i/p disp & wshg ot, tr-5%
slt, 5% blk lith spks, tr glau, tr
pyr, p-i/p inf por, n
hydc fluor

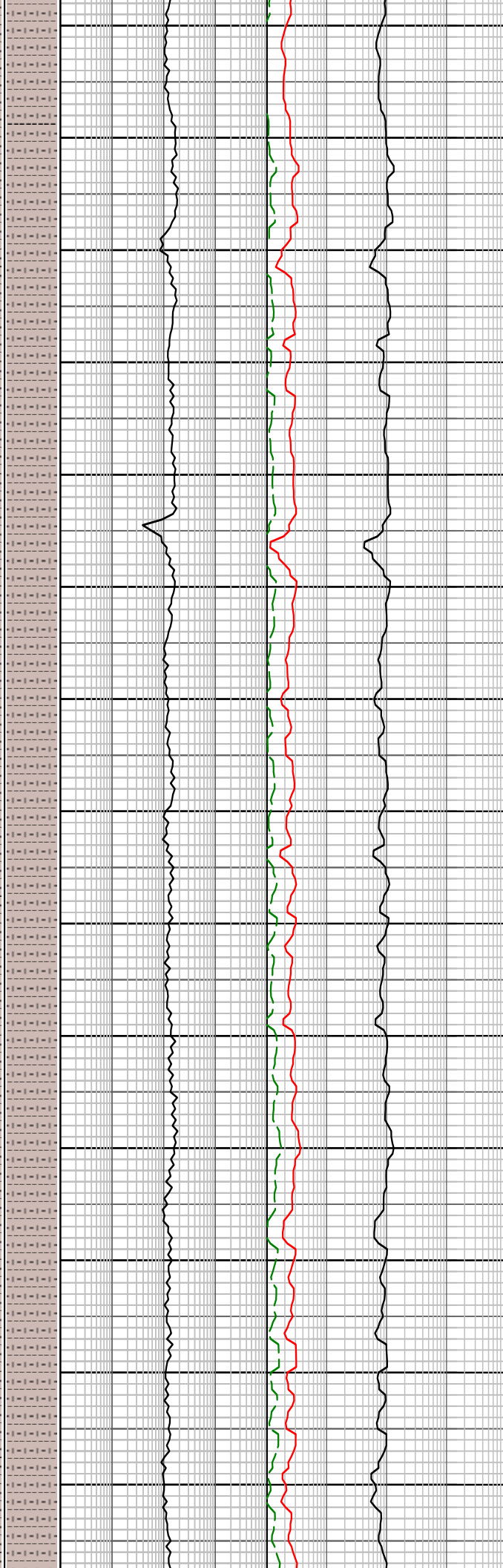
SILTY CLAYSTONE: dk gy-olv
blk, olv gy-brnsh gy, sft-frm,
amor-sbblky, 20-25% slt, tr v f
qtz gr, tr v f glau spks, tr slt lith,
tr mott lt olv gy mod-strng calc
frag, tr brk wh foss frag

Survey @ 2518.96m Inc: 1.53,
Azi: 189.94, TVD: 2518.78m

SILTY CLAYSTONE: dk gy-olv
blk, olv gy-brnsh gy, sft-frm,
amor-sbblky, 20-25% slt, tr v f
qtz gr, tr v f glau spks, tr lith, tr



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2670



mott lt olv gy mod-strng calc frag, wh foss frag

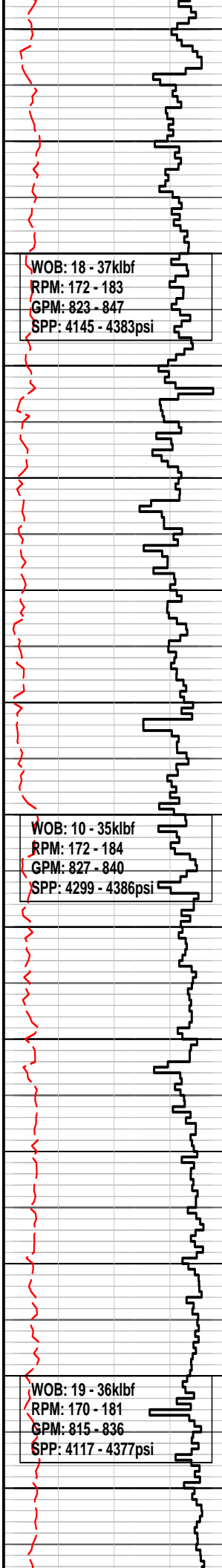
Survey @ 2546.16m Inc: 1.43, Azi: 187.93, TVD: 2545.97m

SILTY CLAYSTONE: dk gy-gysh blk, olv gy-brnsh gy, sft frm, amor-sbblky, 20-25% slit, tr v f qtz gr, tr v f glau spks, tr lith, tr mott lt olv gy mod-strng calc frag, wh foss frag

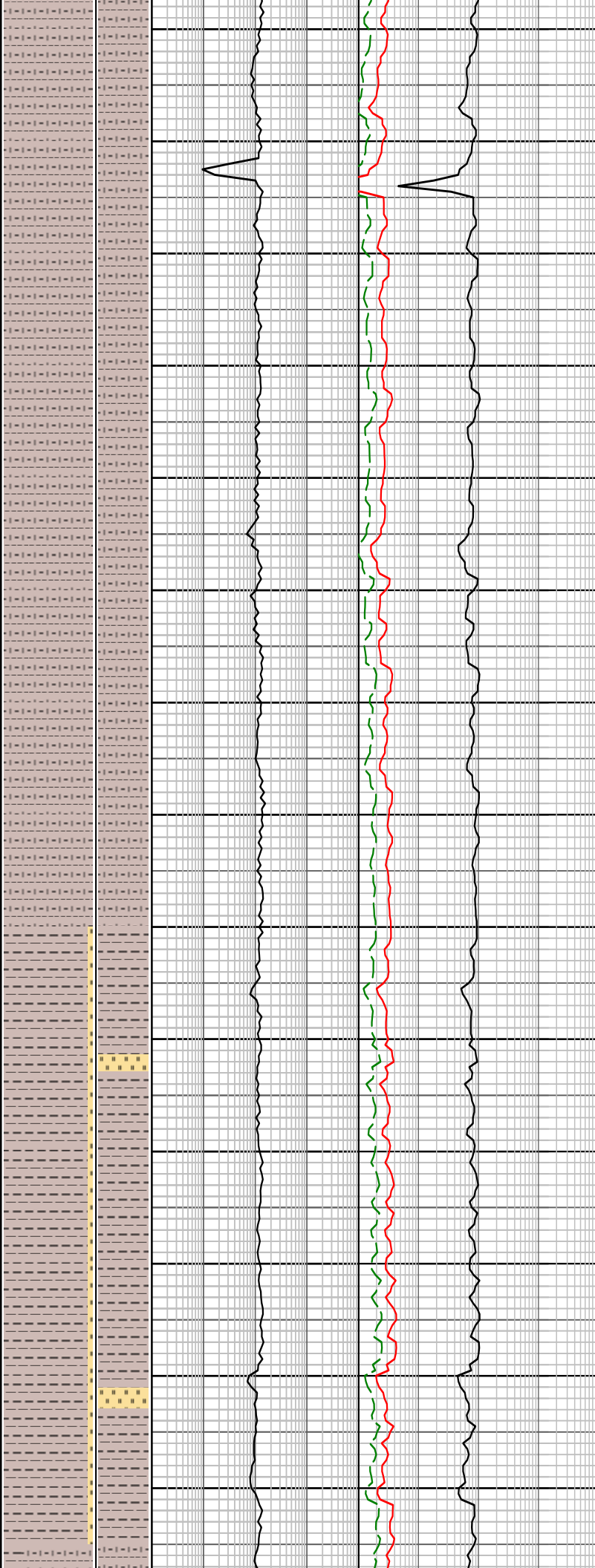
Survey @ 2604.71m Inc: 1.39, Azi: 183.90, TVD: 2604.51m

SILTY CLAYSTONE: olv gy-brnsh gy, sft, amor-sbblky, 20% slit, tr-2% mott lt olv gy mod-strng Calc Clst, tr v f qtz gr, tr slit-v f glau gr, tr dk spks

Survey @ 2661.70m Inc: 1.42, Azi: 181.44, TVD: 2661.48m



2680
2690
2700
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2720
2730
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2760
2770
2780
2790
2800
2810



SILTY CLAYSTONE: olv gy-brnsh gy, sft, amor-sbblky, 20% silt, tr-2% mott lt olv gy mod-strng Calc Clst, tr v f qtz gr, tr silt-v f glau gr, tr dk spks

Flush gas line and cleaned gas trap and header box on shaker

Commenced adding calcium carbonate to mud system

Survey @ 2719.22m Inc: 1.29, Azi: 178.53, TVD: 2718.98m

Survey @ 2748.22m Inc: 1.23, Azi: 176.46, TVD: 2747.98m

SILTY CLAYSTONE: olv gy-brnsh gy, sft-fm, amor-sbblky, 20% silt, tr-2% mott lt olv gy & mod-strng Calc Clst, tr silt-v f glau gn, tr dk spks

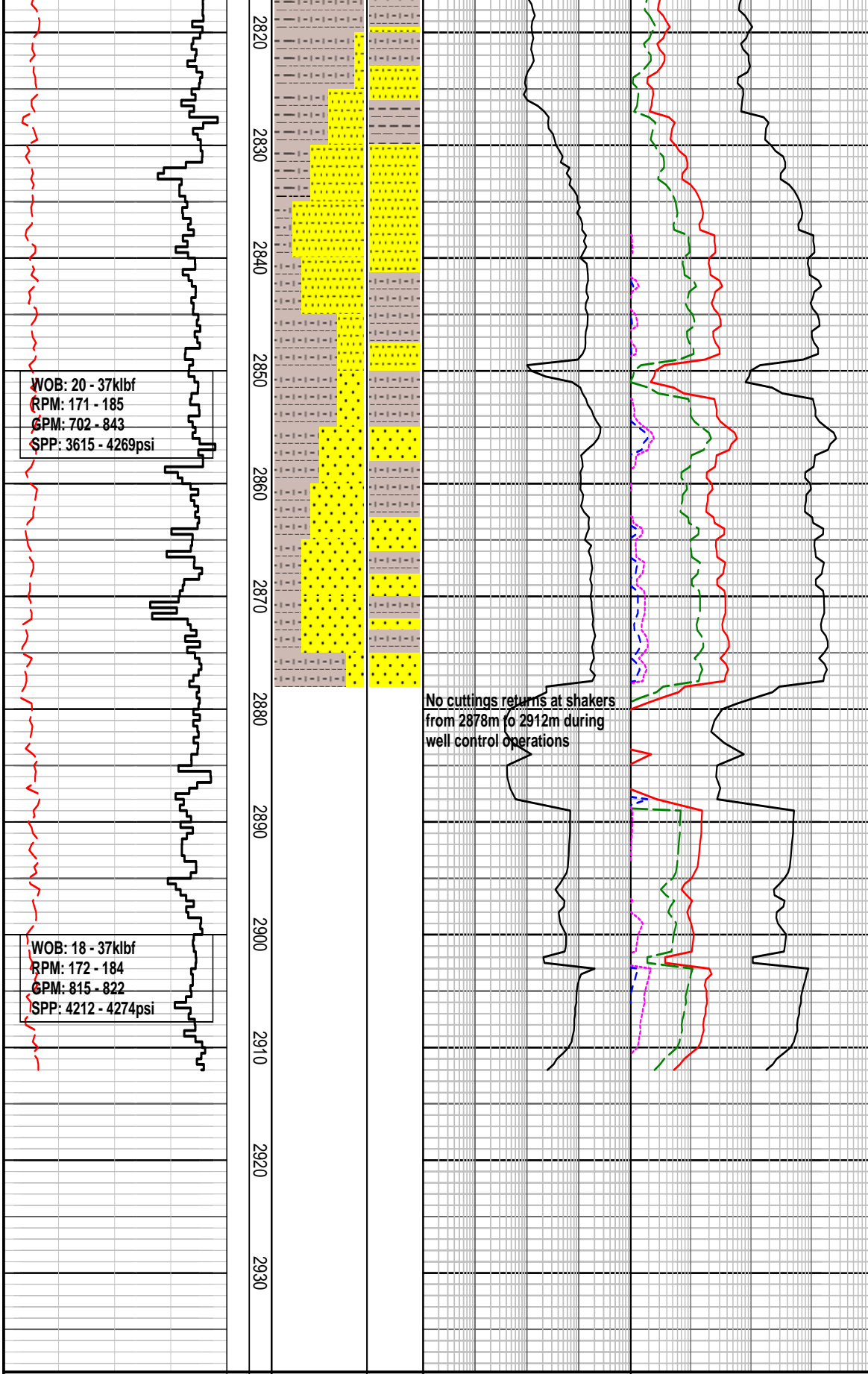
CLAYSTONE: mott lt brnsh gy-olv gy, fm-hd i/p, i/p brit, sbblky-sbfis, 2-5% calc, 2-5% dol cmt, tr wh calc frag, tr strk or lam

Survey @ 2776.91m Inc: 1.15, Azi: 171.57, TVD: 2776.77m

Commenced adding calcium carbonate to mud system

Survey @ 2806.83m Inc: 1.07, Azi: 178.32, TVD: 2806.57m

Adjusted gas trap position and



cleared header box

SILTY CLAYSTONE: olv gy-brnsh gy, sft-fm, amor-sbbiky, 20% silt, tr slit-v f claystone, mott bl brnsh gy-olv gy, fm-hd in pt, i/p brit, sbbiky-sbfis, tr-5% calc, 2-5% dol cmt, tr-1% wh calc frag, tr strk or lam

ARGILLACEOUS SANDSTONE: wh, tr clr-op, sft-wk fri, wt cl-l v f gn, w srt, ang-sbrnd, sbspher, 50-70% wt cl mtrx, wk calc, tr bk silt, p vis por, p inf, n hydc fluor

Survey @ 2834.17m Inc: 1.07, Azi: 171.25, TVD: 2833.91m

SANDSTONE: clr-trnsl, wh & gy, tr wh agg, pred lse disagg sd, v f-med, 2-5% frac crs, pred f, mod wl srt, sbang-sbrndd, sbspher, 10% wh/gy cl/slt mtrx, tr blk silt, p vis por, f inf por, n hydc fluor

Survey @ 2863.33m Inc: 1.15, Azi: 160.56, TVD: 2863.06m

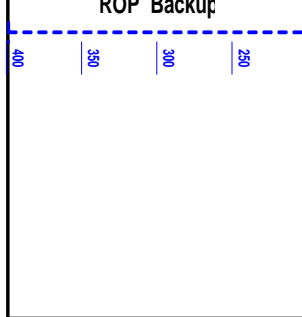
SANDSTONE: clr-trnsl, wh & gy, tr wh fri agg, pred lse disagg sd, v f-v cse, pred f, p- mod wl srt, ang-sbrndd, sbspher, 10% wh/gy cl/slt mtrx, tr-v f blk silt & rdsh brn lith, pr vis por, f-gd inf por, n hydc fluor

Flush gas line and cleaned gas trap and header box on shaker

Somerset-1 reached TD of 2912.0 mMDRT @ 21:45hrs on 27 October 2009

FORMATION EVALUATION LOG

WOB	MD meters 1:500	INTERPRETED	TOTAL GAS & RESISTIVITY	CHROMATOGRAPH	CALC	REMARKS
25 50 75 100 klbf	CO	LITH	Total Gas	Methane	Calcite	
ROP			0.01 0.1 1 10 %	%	Dolomite	
200 150 100 50 m/hr			Propane	10000 60 40 20		

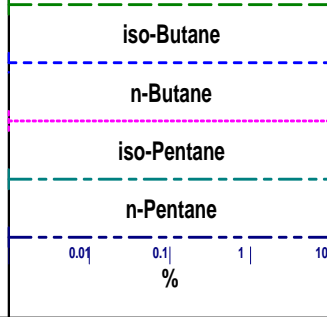


RE

LOGY %

LITHOLOGY

SCIENCE



PF G

SCIENCE

DRILLING DATA PLOT

1:1000



Company : Woodside Energy Limited

Well : Somerset-1

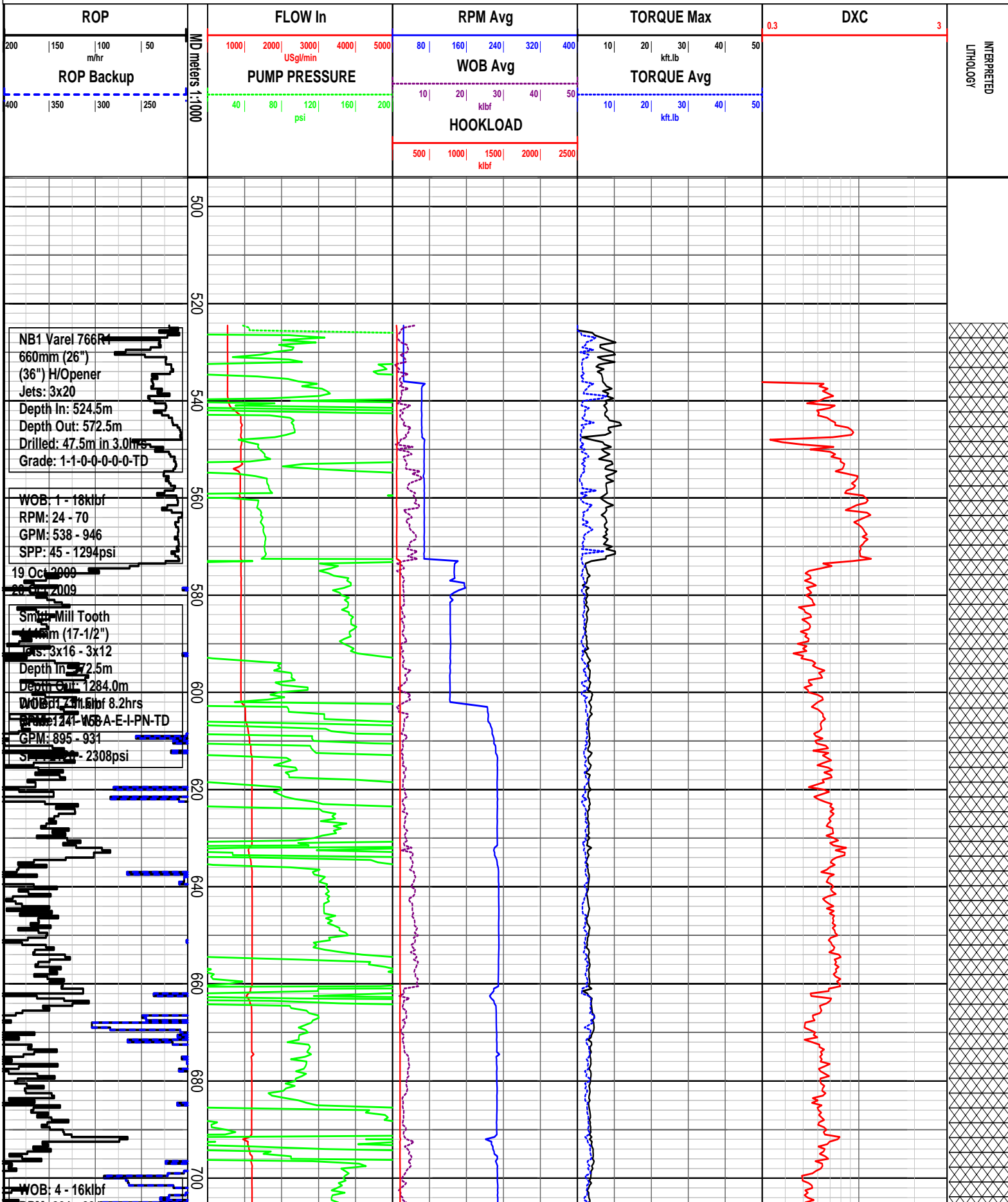
Interval : 494.00 - 2938.78 meters

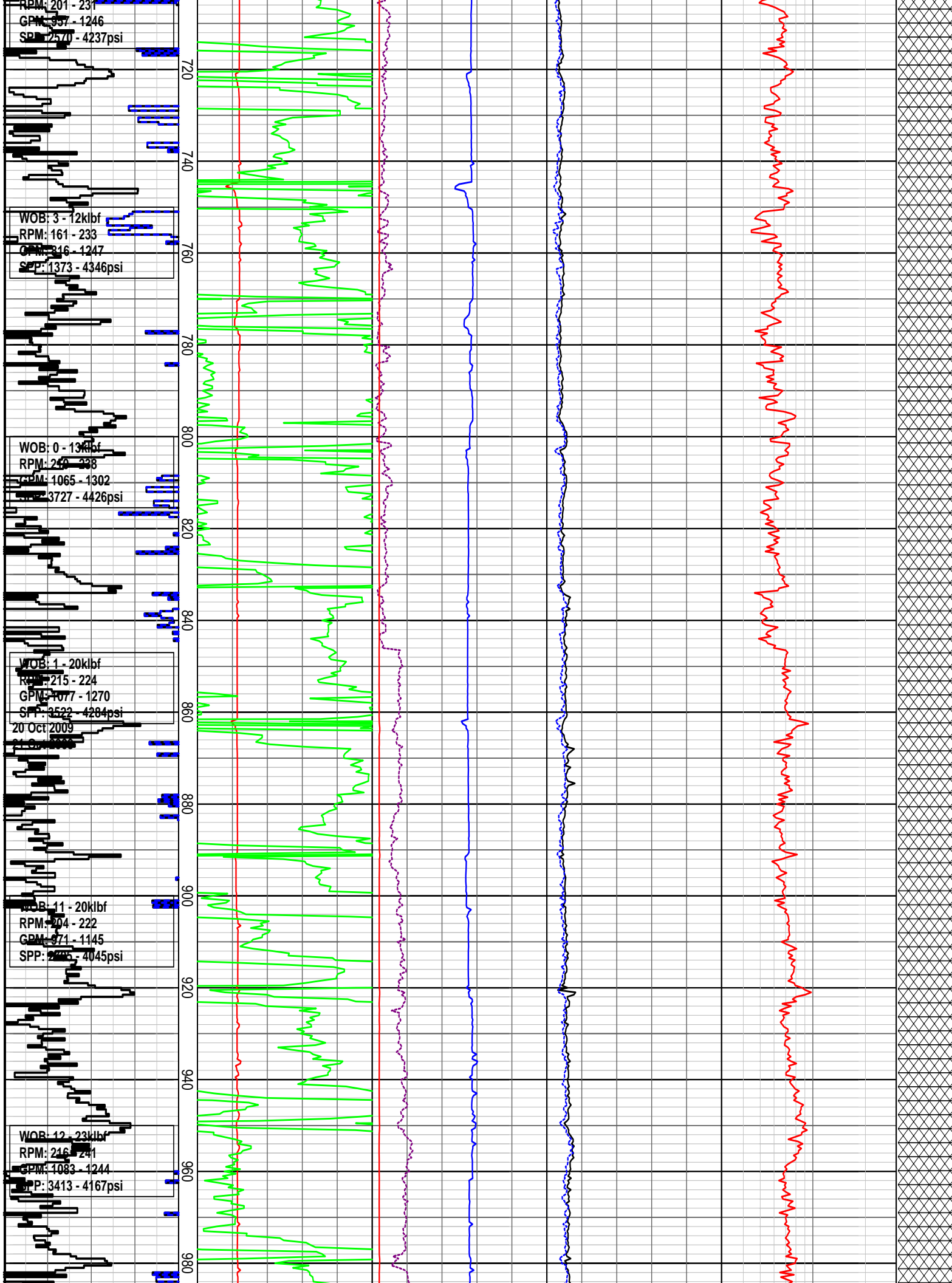
Created : 13/Jan/2010 8:53:02 AM

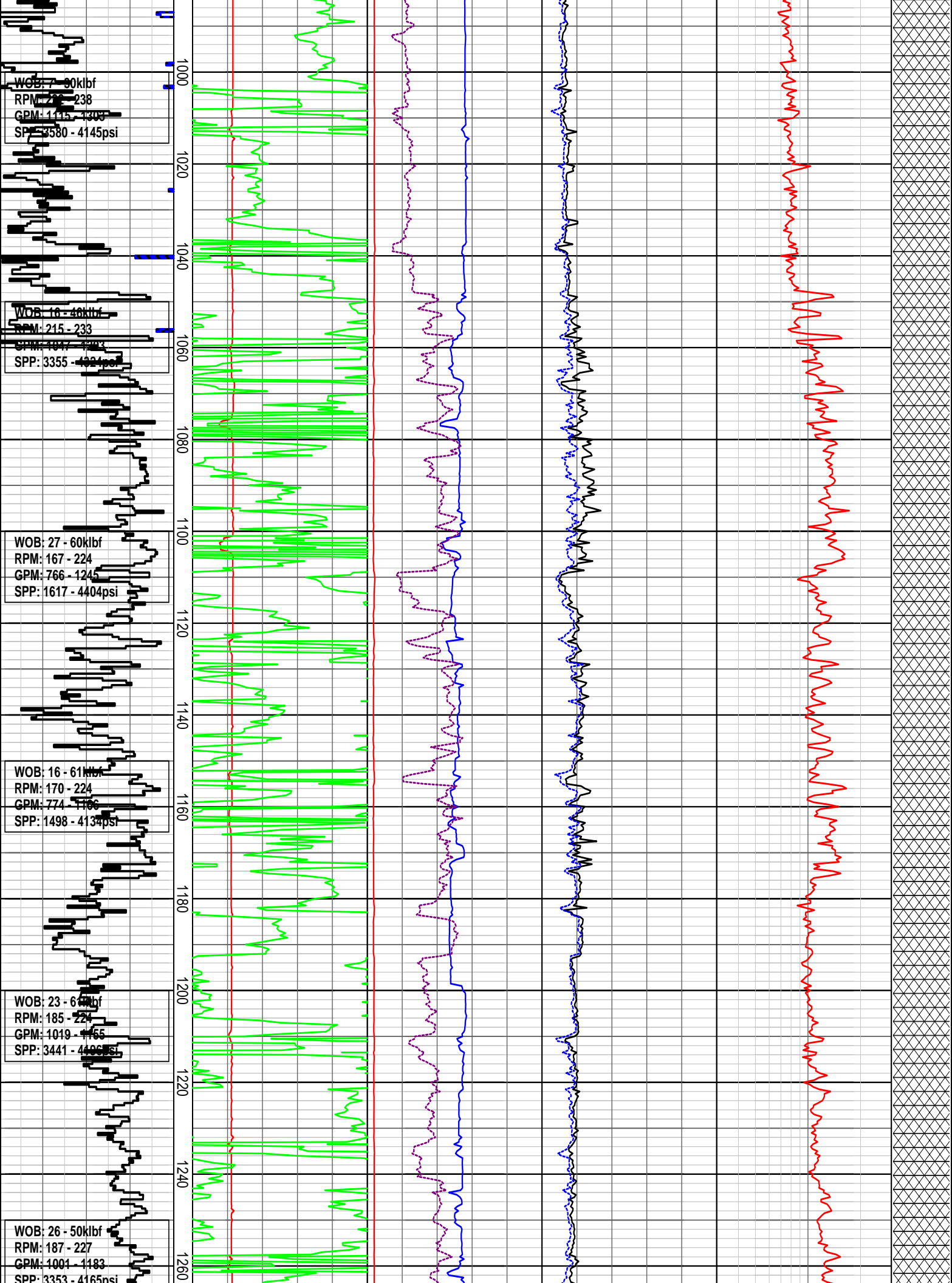


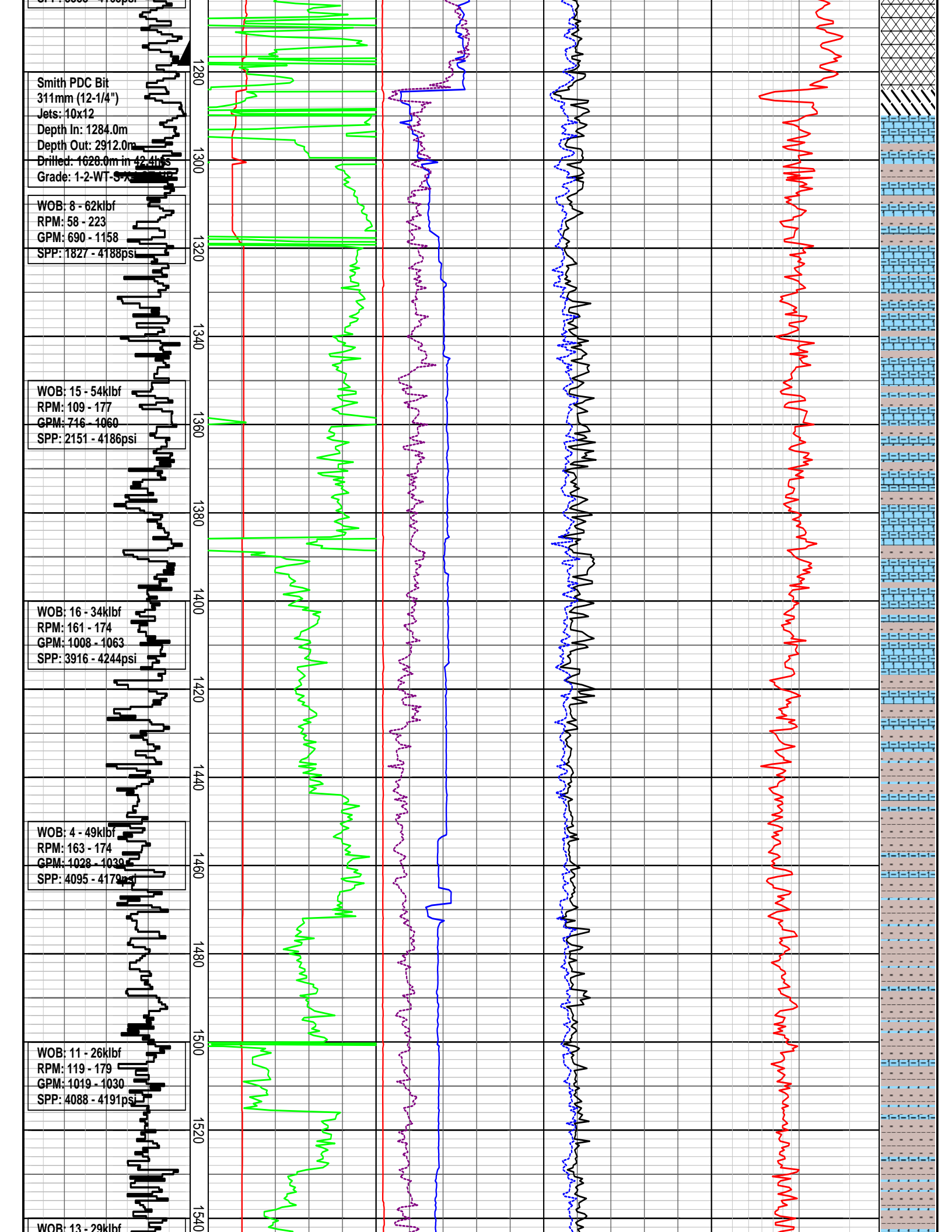
INTEQ

DRILLING DATA PLOT









RPM: 140 - 151
GPM: 936 - 1019
SPP: 3603 - 4156psi

25 Oct 2009
26 Oct 2009

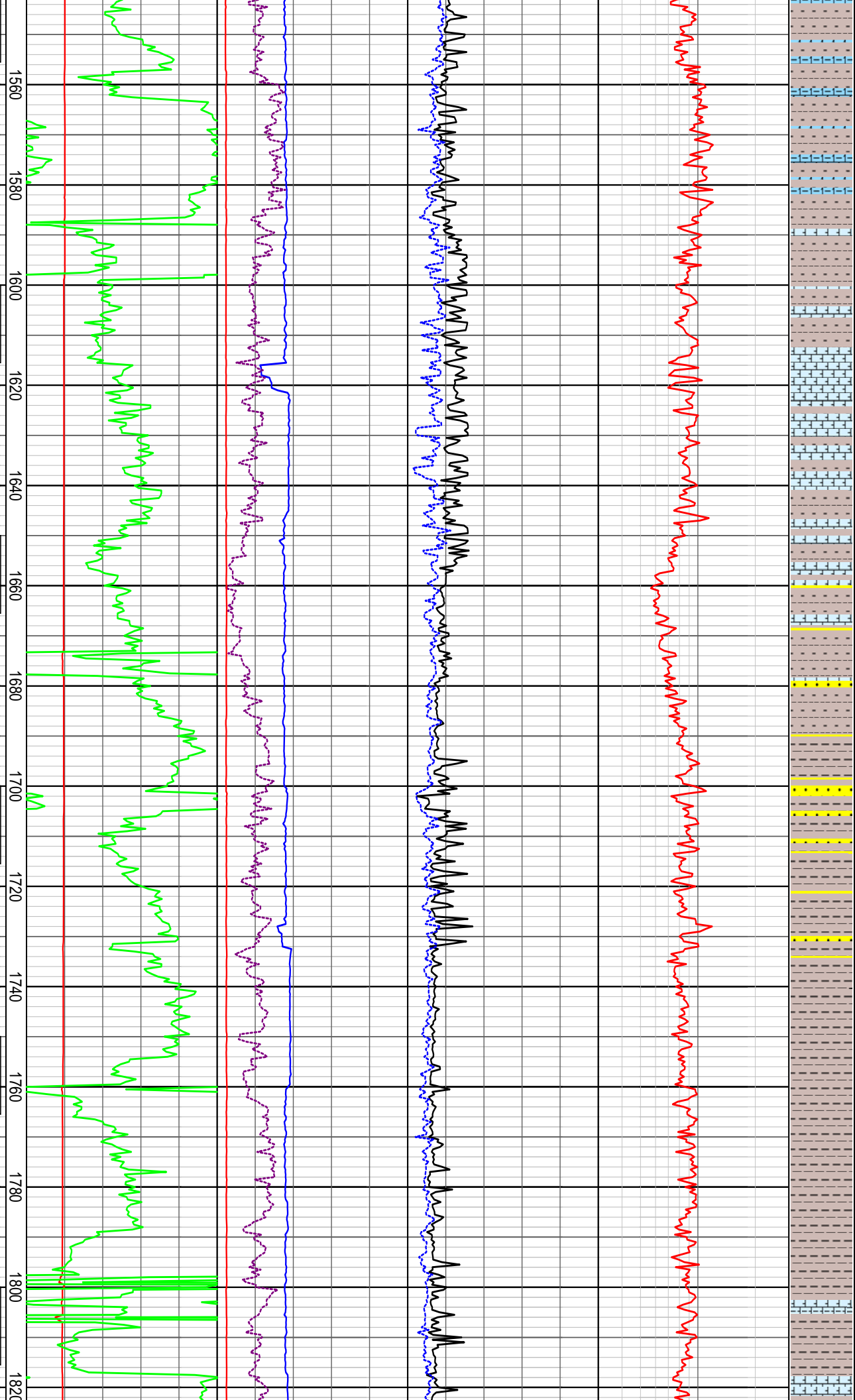
WOB: 19 - 44klbf
RPM: 139 - 147
GPM: 977 - 1008
SPP: 4004 - 4293psi

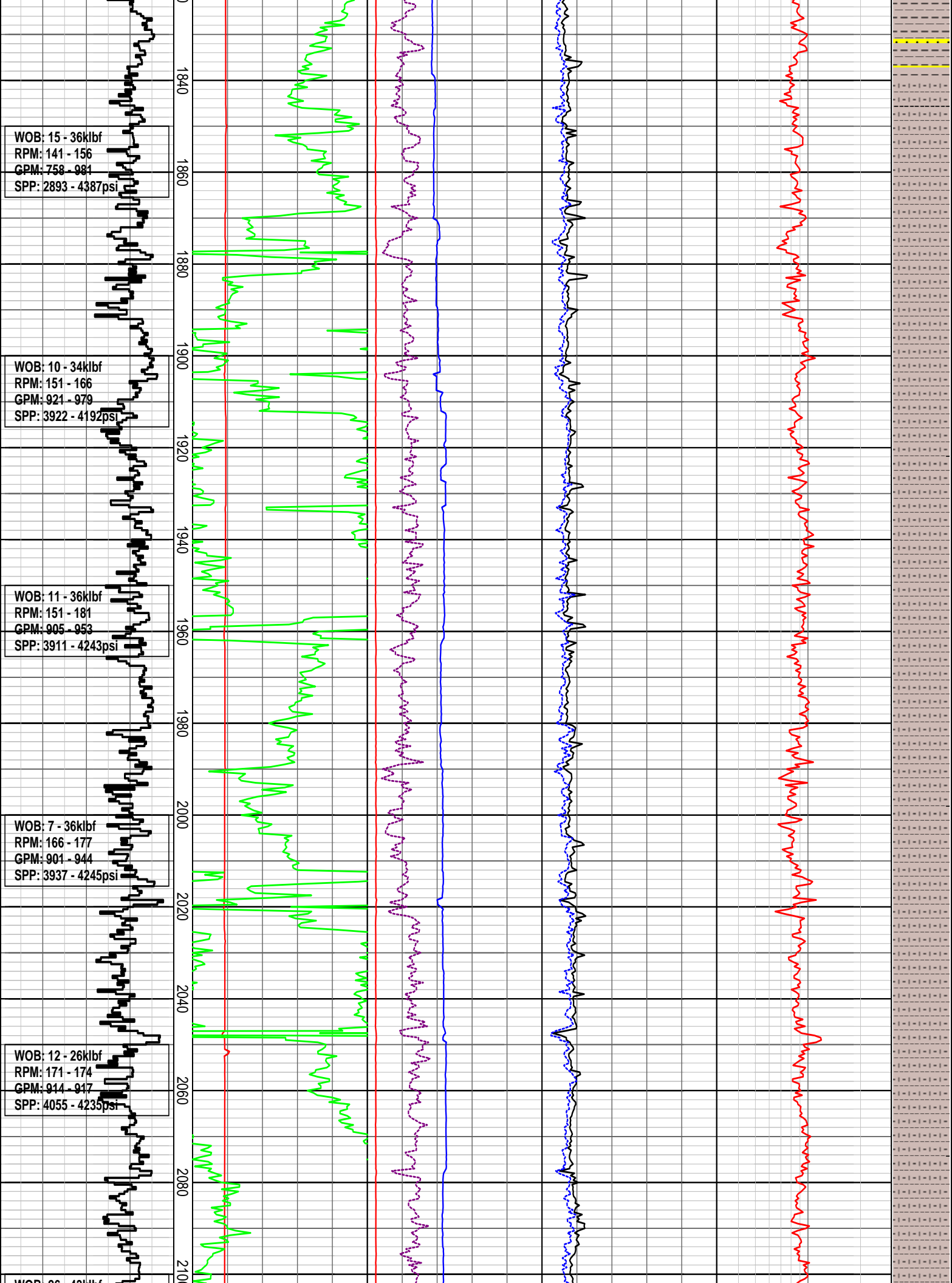
WOB: 11 - 30klbf
RPM: 90 - 153
GPM: 973 - 983
SPP: 4060 - 4140psi

WOB: 5 - 33klbf
RPM: 131 - 144
GPM: 937 - 977
SPP: 3848 - 4186psi

WOB: 11 - 32klbf
RPM: 126 - 156
GPM: 954 - 985
SPP: 4074 - 4218psi

WOB: 13 - 34klbf
RPM: 140 - 155
GPM: 855 - 983
SPP: 3458 - 4399psi





WOB: 26 - 43klbf
RPM: 179 - 181
GPM: 908 - 1053
SPP: 4130 - 4179psi

WOB: 14 - 33klbf
RPM: 171 - 175
GPM: 916 - 924
SPP: 4177 - 4271psi

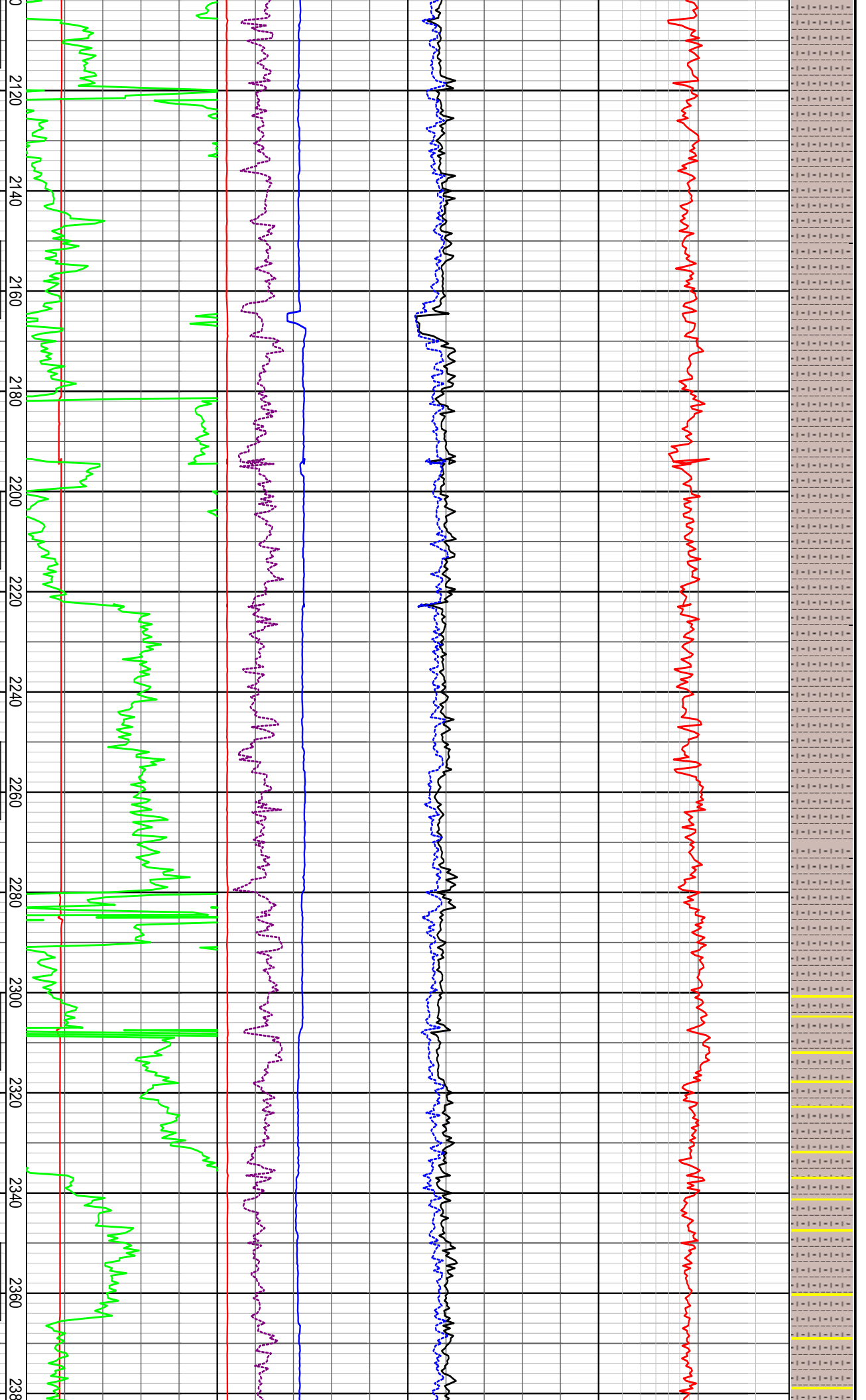
WOB: 15 - 34klbf
RPM: 170 - 174
GPM: 907 - 908
SPP: 4216 - 4263psi

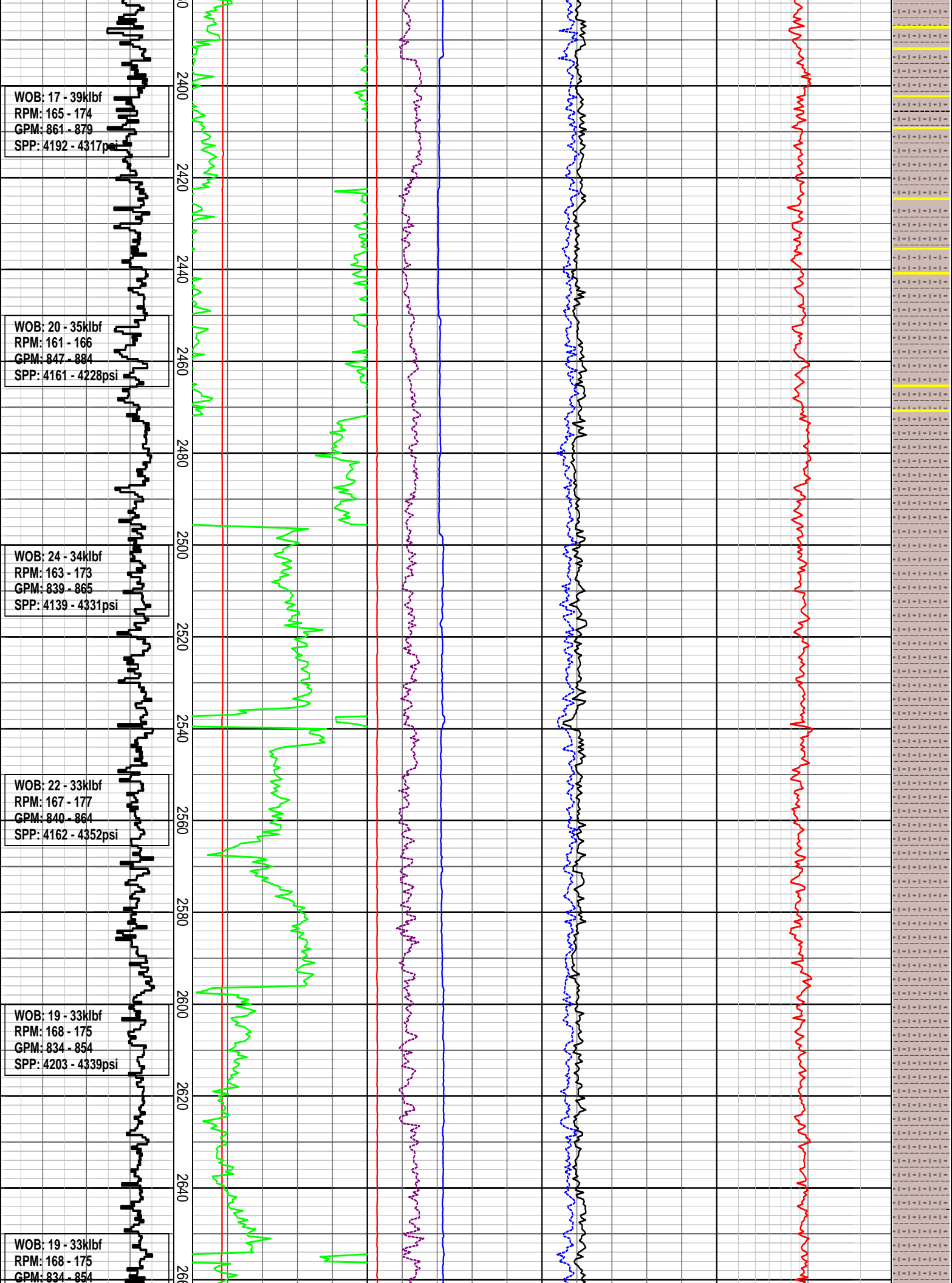
WOB: 15 - 36klbf
RPM: 177 - 182
GPM: 900 - 909
SPP: 4189 - 4340psi

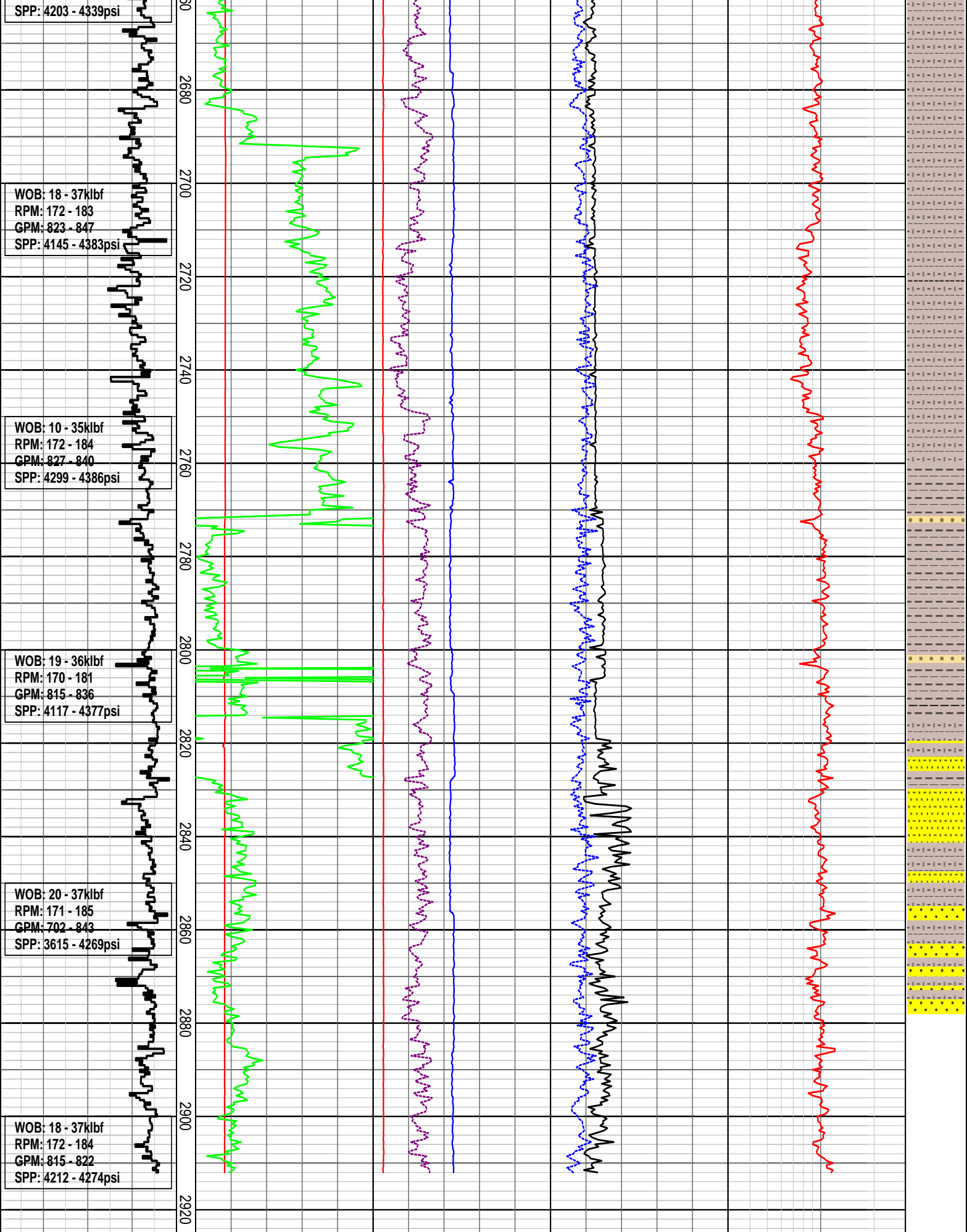
WOB: 9 - 38klbf
RPM: 177 - 185
GPM: 729 - 946
SPP: 2872 - 4617psi

WOB: 11 - 38klbf
RPM: 164 - 180
GPM: 792 - 903
SPP: 3501 - 4311psi

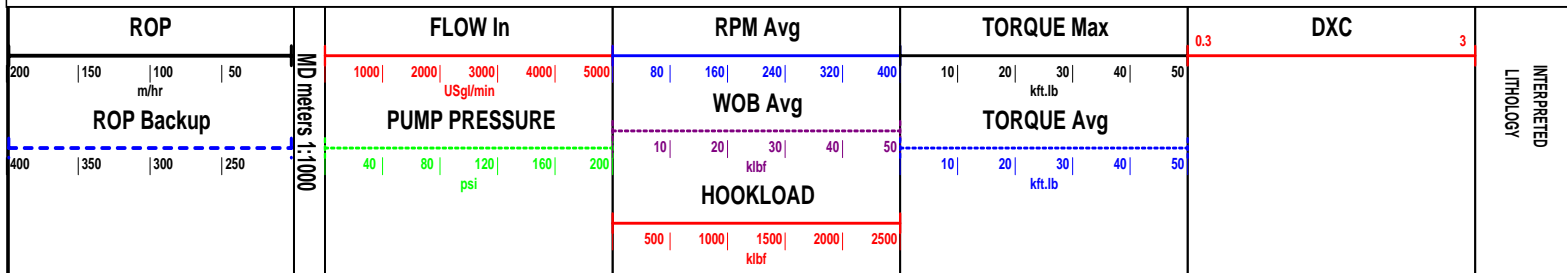
26 Oct 2009
27 Oct 2009







DRILLING DATA PLOT



PRESSURE EVALUATION PLOT

1:2500

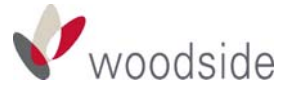


Company : Woodside Energy Limited

Well : Somerset-1

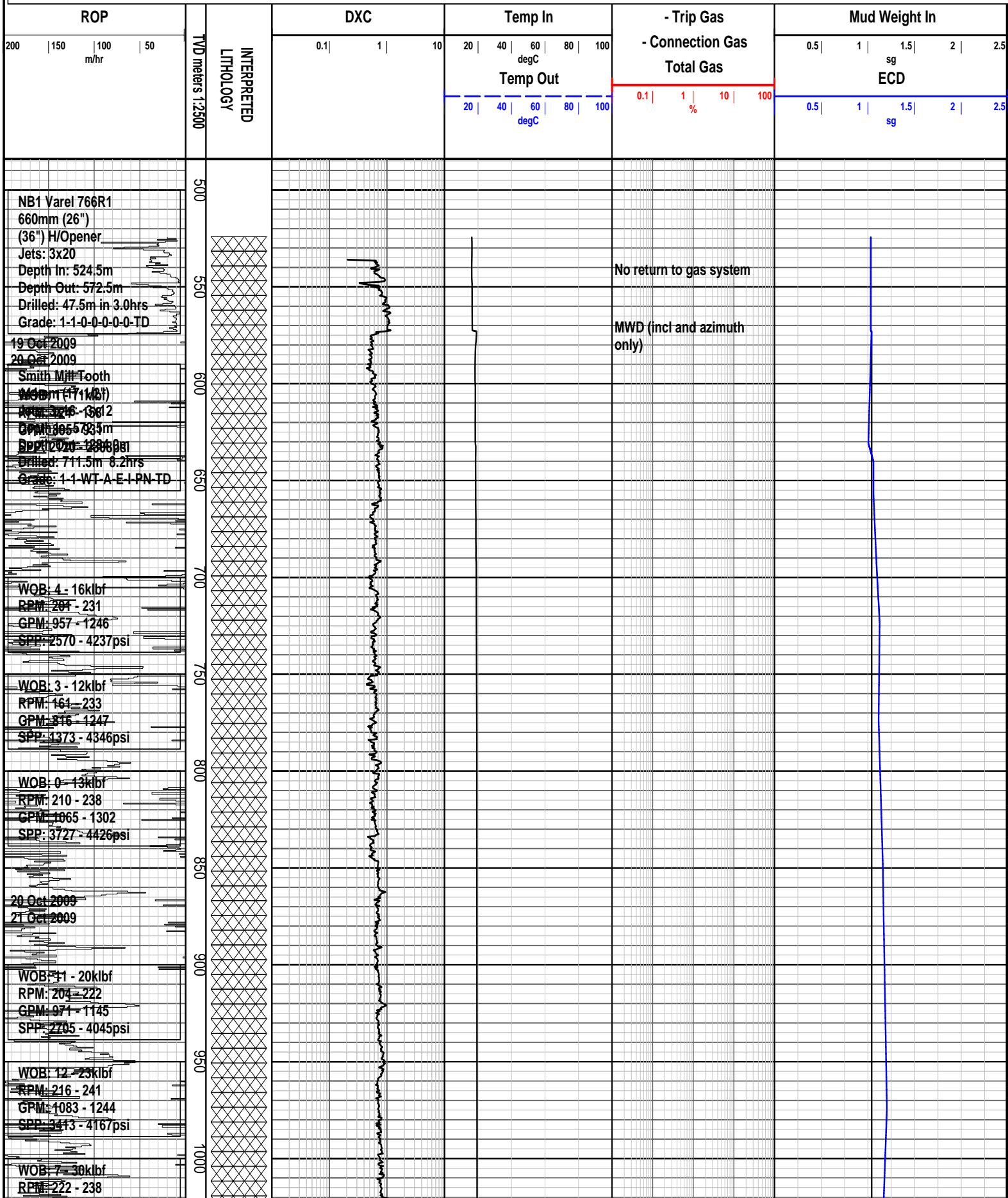
Interval : 484.00 - 2993.45 meters

Created : 13/Jan/2010 9:16:21 AM



INTEQ

PRESSURE EVALUATION LOG



GPM: 1115 - 1303
SPP: 3580 - 4145psi

WOB: 16 - 46klbf
RPM: 215 - 233
GPM: 1047 - 1203
SPP: 3355 - 4324psi

WOB: 27 - 60klbf
RPM: 167 - 224
GPM: 766 - 1245
SPP: 1617 - 4404psi

WOB: 16 - 61klbf
RPM: 170 - 224
GPM: 774 - 1166
SPP: 1498 - 4134psi

WOB: 23 - 61klbf
RPM: 185 - 224
GPM: 1019 - 1155
SPP: 3441 - 4196psi

WOB: 26 - 50klbf
RPM: 187 - 227
GPM: 1001 - 1183
SPP: 3353 - 4165psi

Smith PDC Bit
311mm (12-1/4")
Jets: 10x12
Depth In: 1284.0m
Depth Out: 2912.0m
Drilled: 1628.0m in 42.4hrs
Grade: 1-2-WT-S-X-FCI-HP

WOB: 15 - 54klbf
RPM: 109 - 177
GPM: 716 - 1060
SPP: 2151 - 4186psi

WOB: 16 - 34klbf
RPM: 161 - 174
GPM: 1008 - 1063
SPP: 3916 - 4244psi

WOB: 4 - 49klbf
RPM: 163 - 174
GPM: 1028 - 1039
SPP: 4095 - 4179psi

WOB: 11 - 26klbf
RPM: 119 - 179
GPM: 1019 - 1030
SPP: 4088 - 4191psi

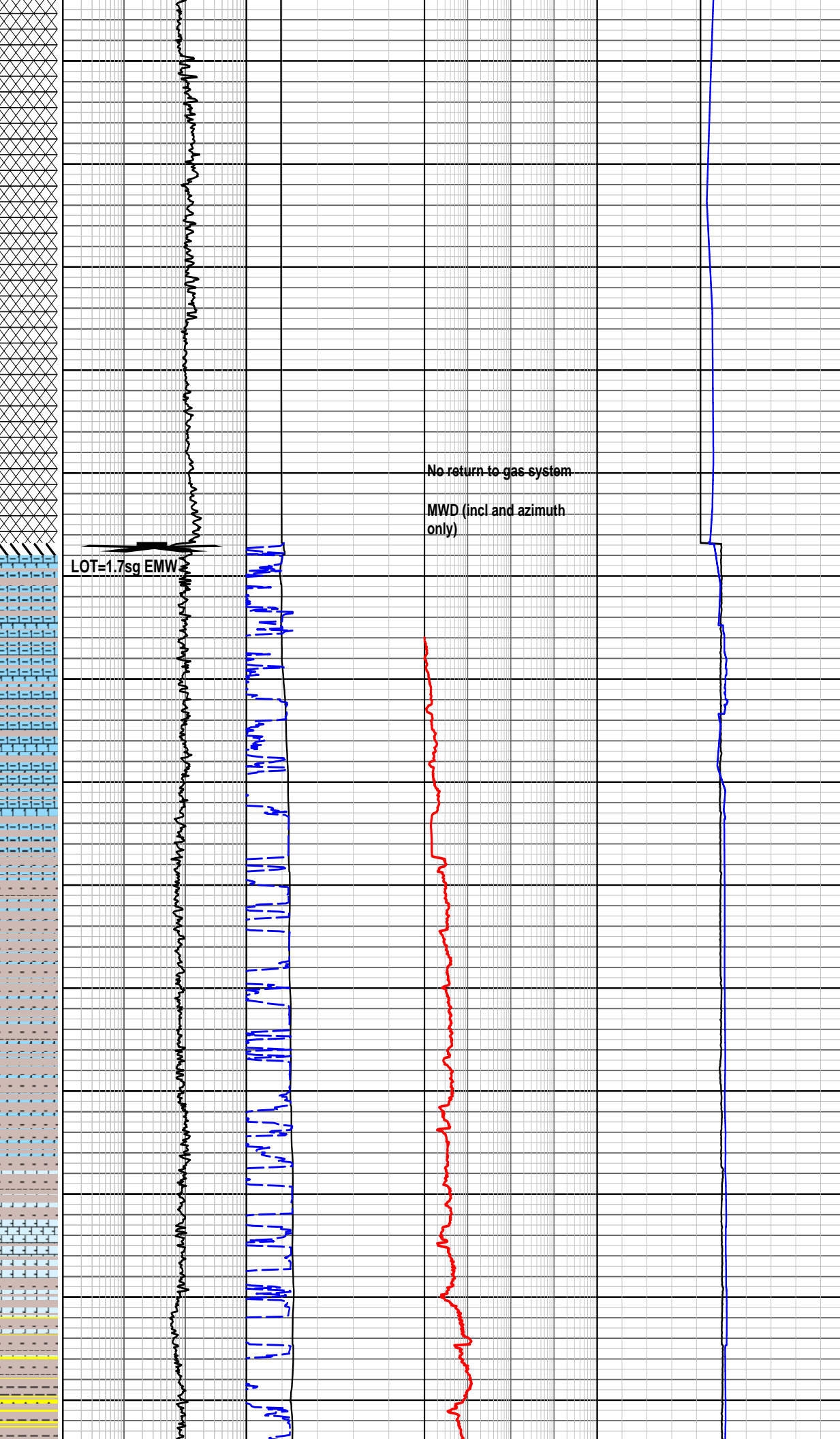
25 Oct 2009
26 Oct 2009

WOB: 19 - 44klbf
RPM: 139 - 147
GPM: 977 - 1008
SPP: 4004 - 4293psi

WOB: 11 - 30klbf
RPM: 90 - 153
GPM: 973 - 983
SPP: 4060 - 4140psi

WOB: 5 - 33klbf
RPM: 131 - 144

1050
1100
1150
1200
1250
1300
1350
1400
1450
1500
1550
1600
1650
1700



LOT=1.7sg EMW

No return to gas system

MWD (incl and azimuth only)

GPM: 937 - 977
SPP: 3848 - 4186psi

WOB: 11 - 32klbf
RPM: 126 - 156
GPM: 954 - 985
SPP: 4074 - 4218psi

WOB: 13 - 34klbf
RPM: 140 - 155
GPM: 855 - 983
SPP: 3458 - 4399psi

WOB: 15 - 36klbf
RPM: 141 - 156
GPM: 758 - 981
SPP: 2893 - 4387psi

WOB: 10 - 34klbf
RPM: 151 - 166
GPM: 921 - 979
SPP: 3922 - 4192psi

WOB: 11 - 36klbf
RPM: 151 - 181
GPM: 905 - 953
SPP: 3911 - 4243psi

WOB: 7 - 36klbf
RPM: 166 - 177
GPM: 901 - 944
SPP: 3937 - 4245psi

WOB: 12 - 26klbf
RPM: 171 - 174
GPM: 914 - 917
SPP: 4055 - 4235psi

WOB: 26 - 43klbf
RPM: 179 - 181
GPM: 908 - 1053
SPP: 4130 - 4179psi

WOB: 14 - 33klbf
RPM: 171 - 175
GPM: 916 - 921
SPP: 4177 - 4271psi

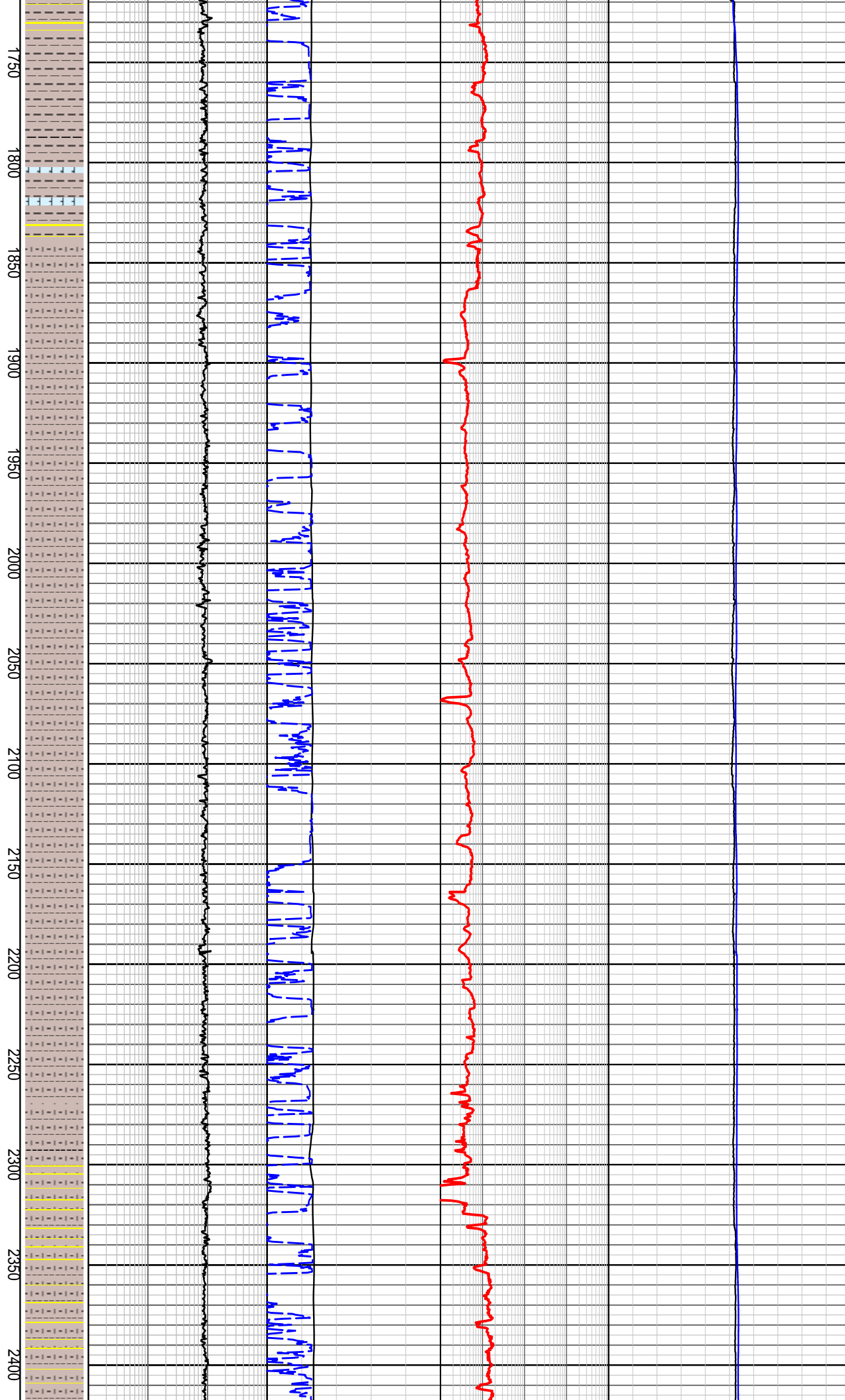
WOB: 15 - 34klbf
RPM: 170 - 174
GPM: 907 - 908
SPP: 4216 - 4263psi

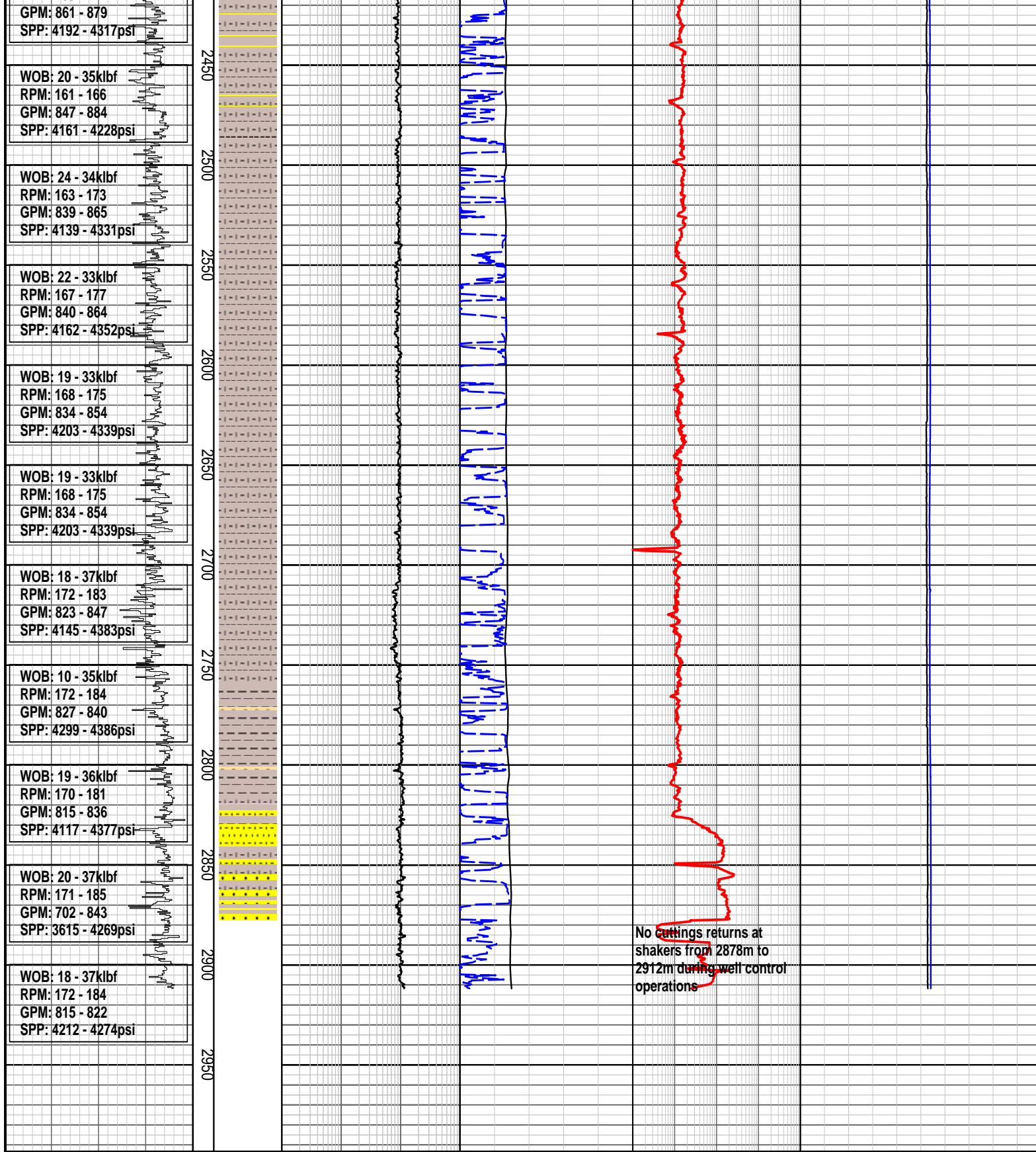
WOB: 15 - 36klbf
RPM: 177 - 182
GPM: 900 - 909
SPP: 4189 - 4340psi

26 Oct 2009
27 Oct 2009

WOB: 11 - 38klbf
RPM: 164 - 180
GPM: 792 - 903
SPP: 3501 - 4311psi

WOB: 17 - 39klbf
RPM: 165 - 174





PRESSURE EVALUATION LOG

ROP		DXC	Temp In	- Trip Gas	Mud Weight In
200 150 100 50 m/hr	TVD meters 1:2500	0.1 1 10	20 40 60 80 100 degC	- Connection Gas	0.5 1 1.5 2 2.5 sg
	INTERPRETED LITHOLOGY		Temp Out	Total Gas	ECD
			20 40 60 80 100 degC	0.1 1 10 100 %	0.5 1 1.5 2 2.5 sg

GAS RATIO PLOT

1:1000



Company : Woodside Energy Limited

Well : Somerset-1

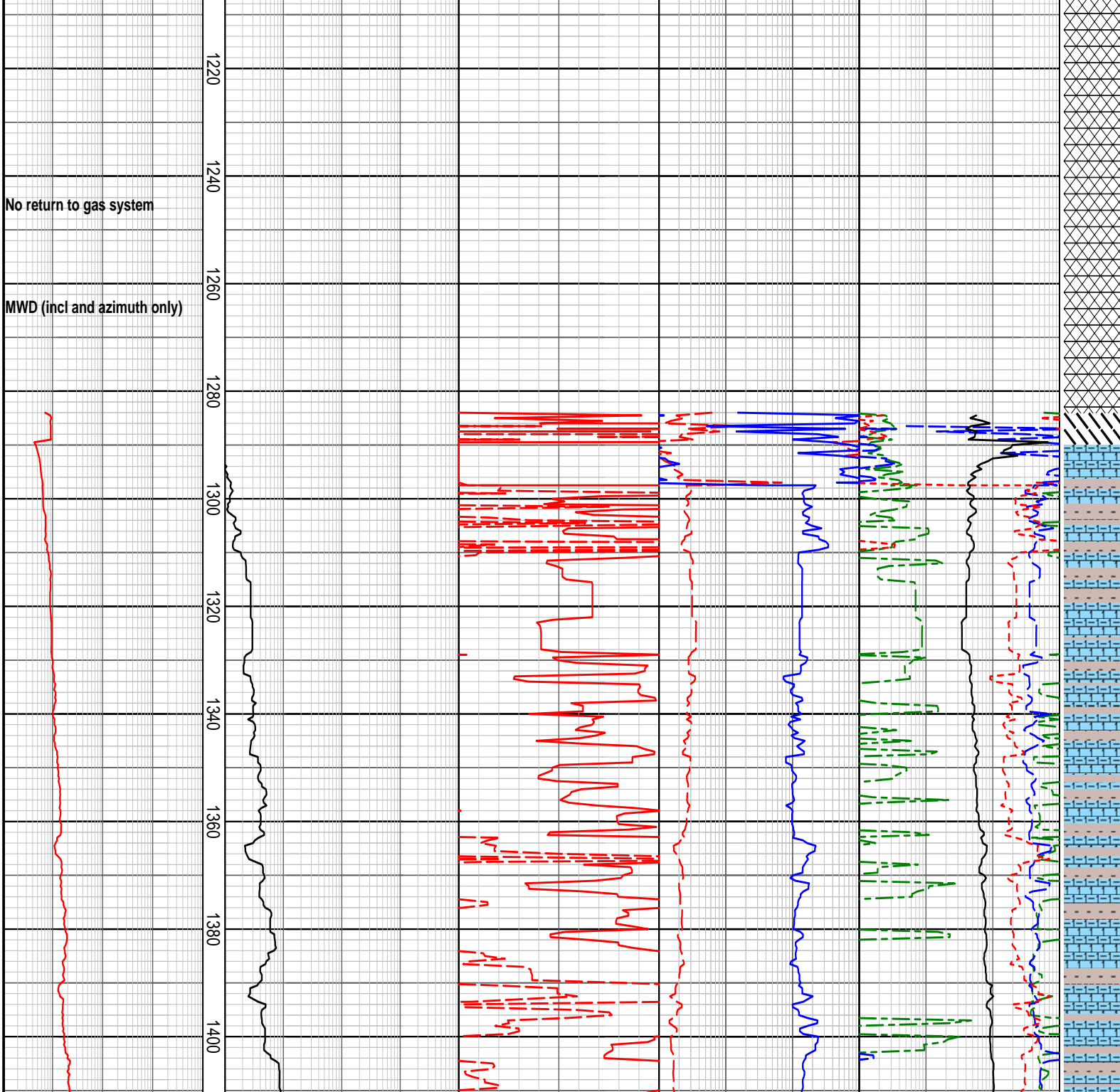
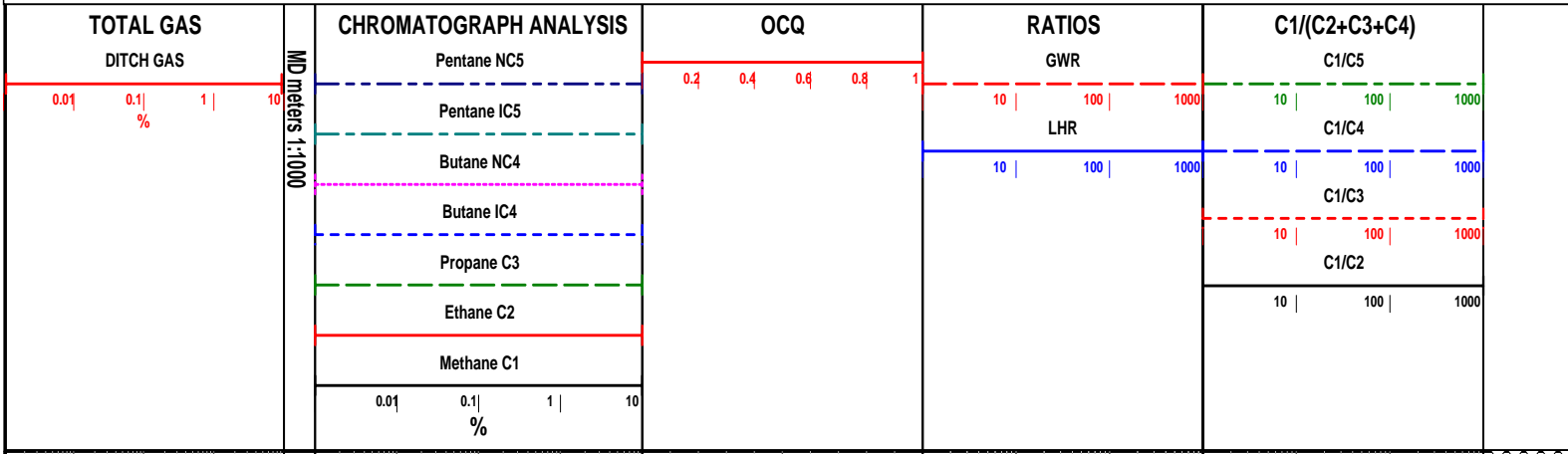
Interval : 1207.00 - 2919.48 meters

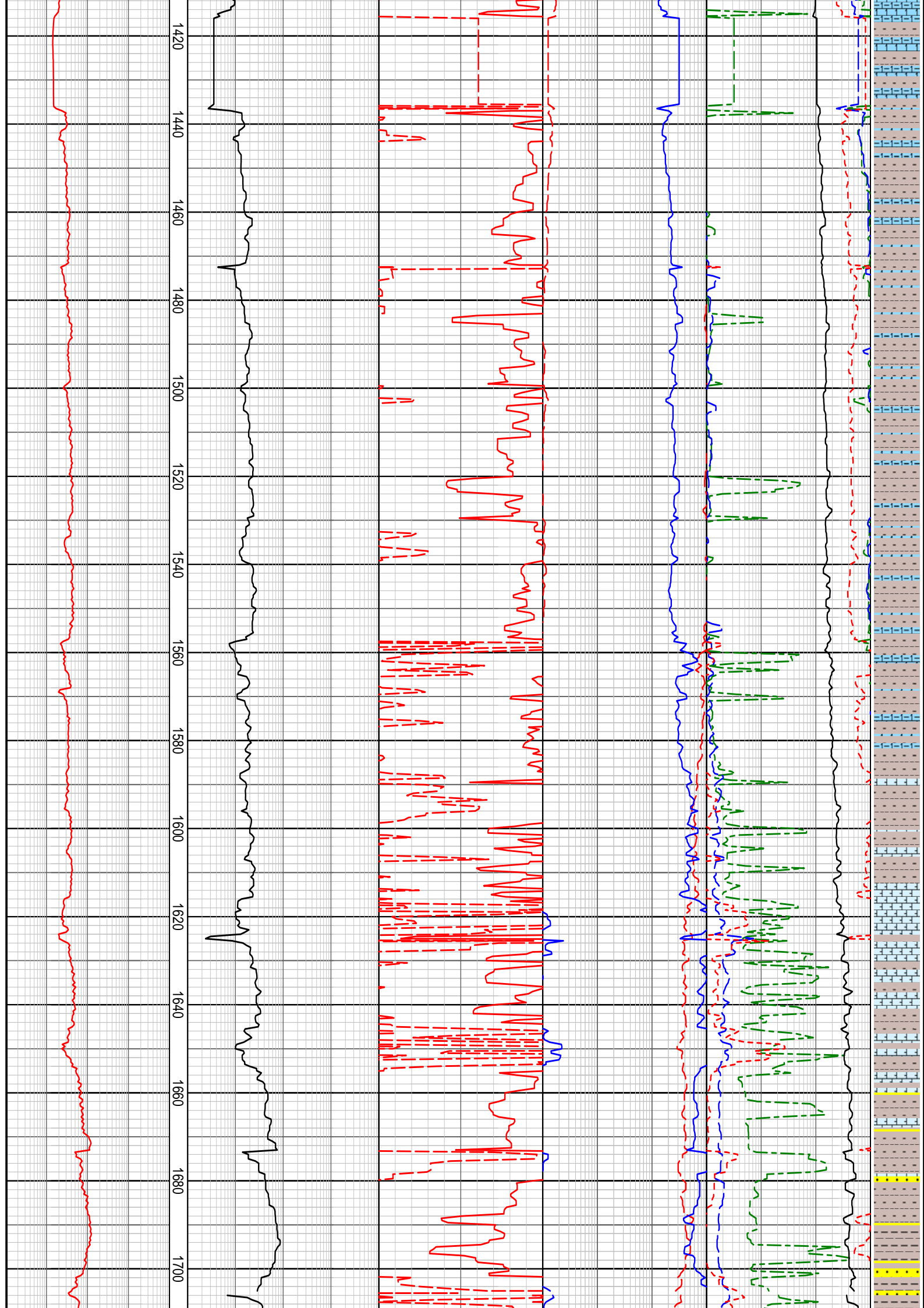
Created : 13/Jan/2010 8:53:02 AM

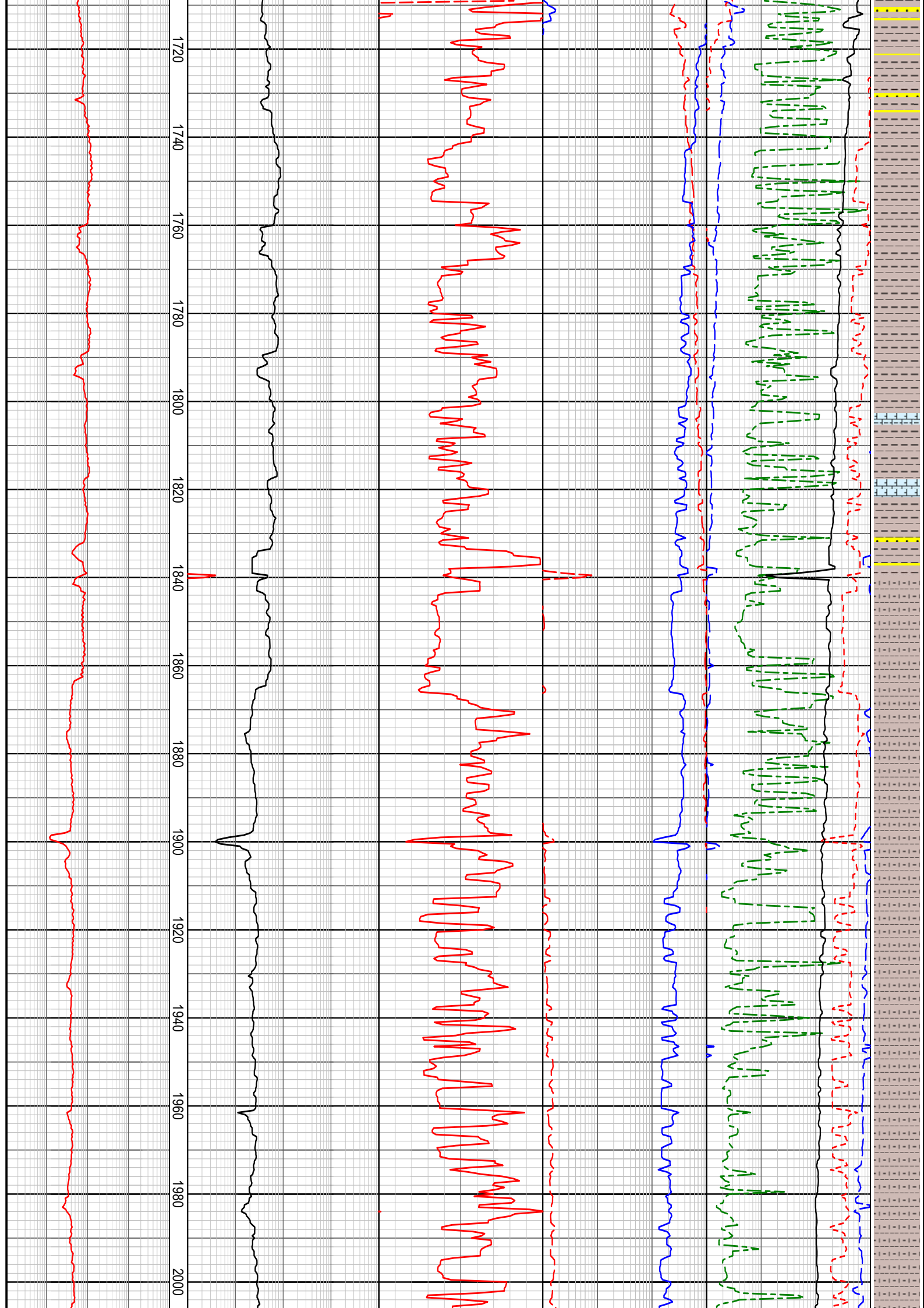


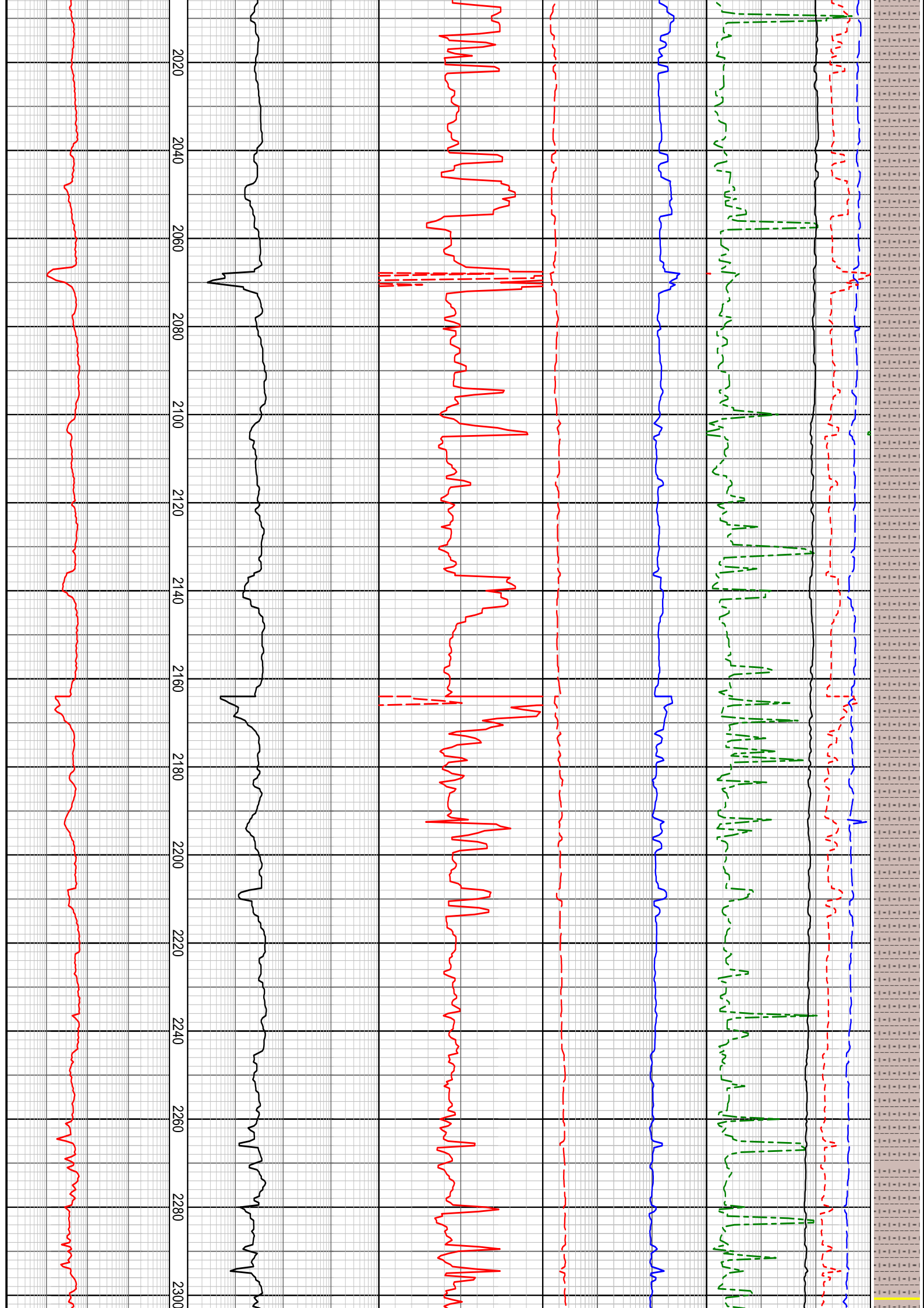
INTEQ

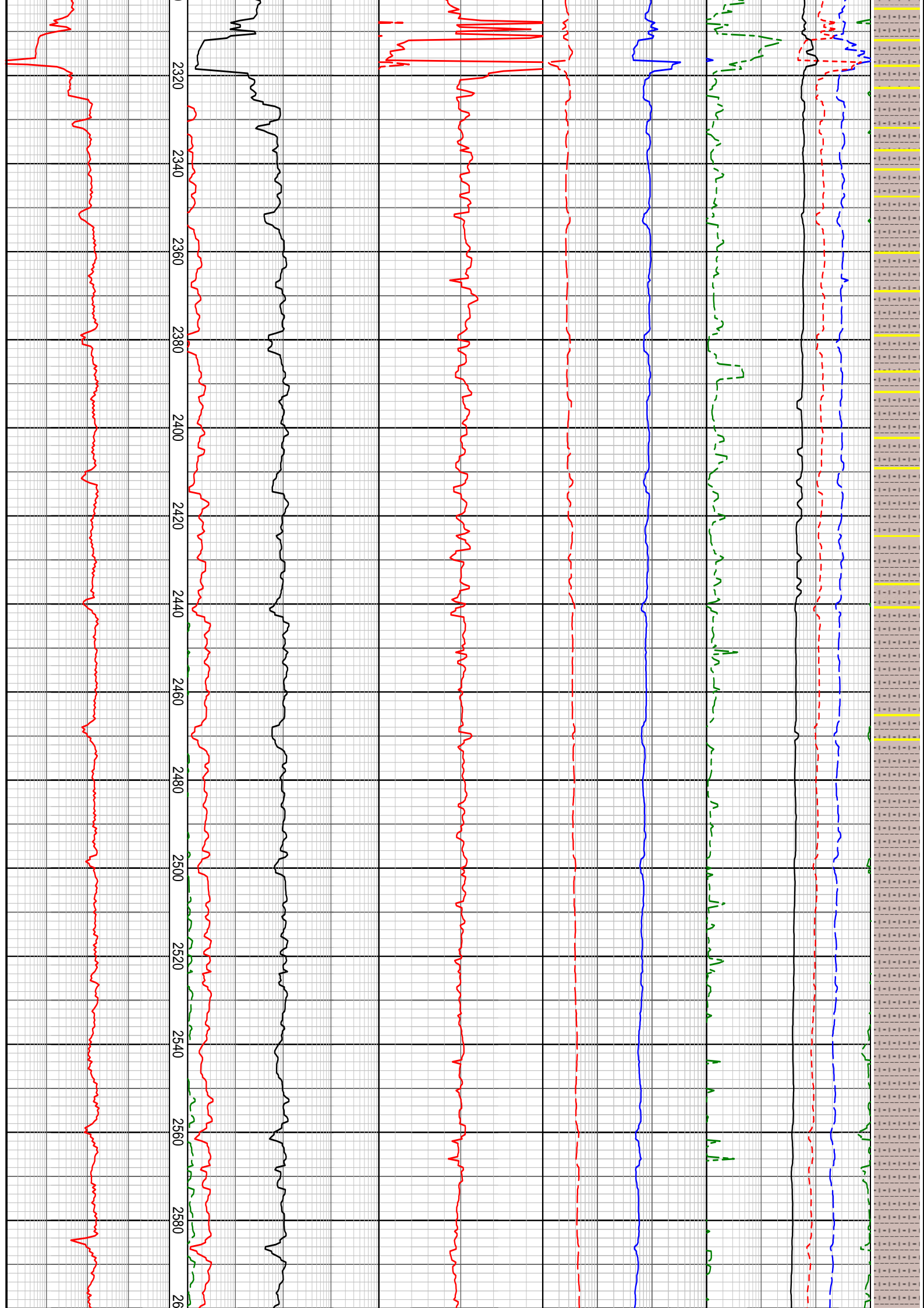
GAS RATIO PLOT

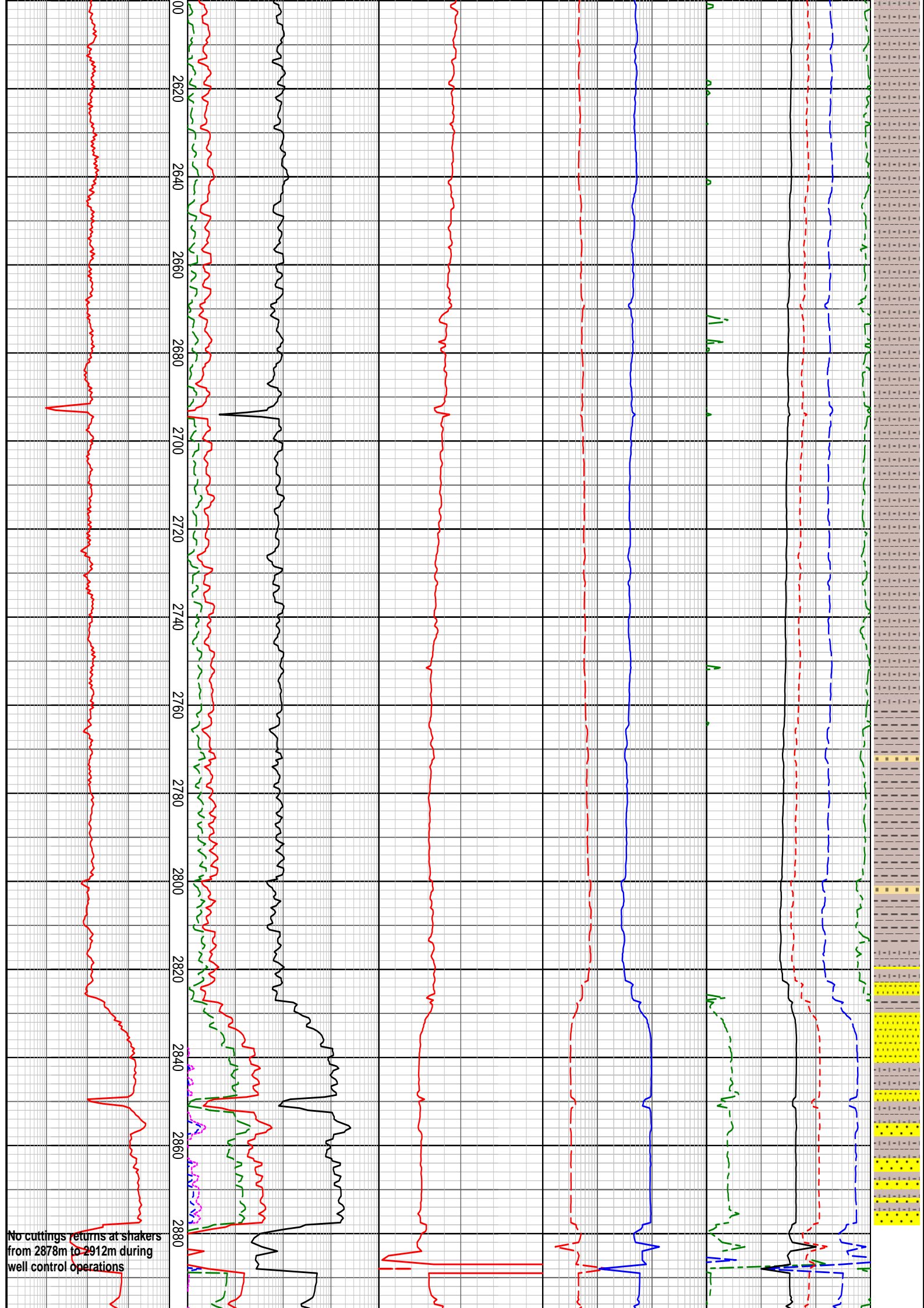


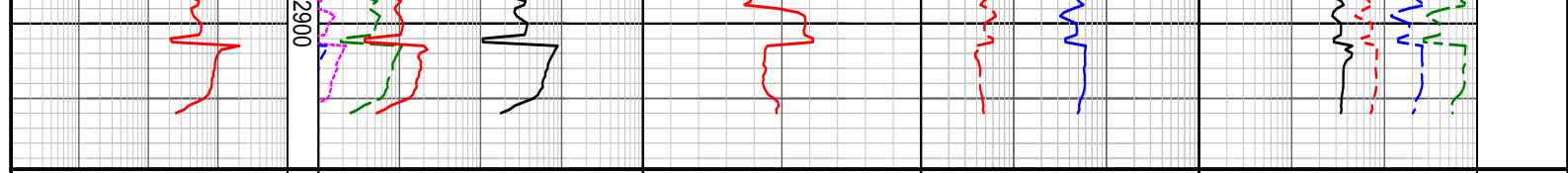




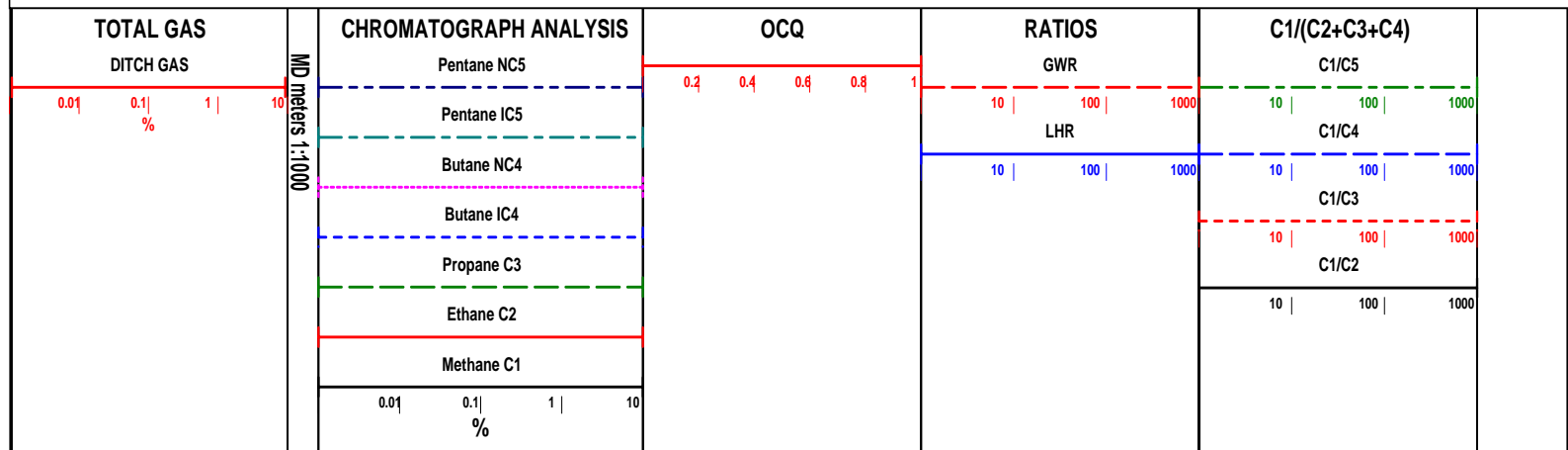








GAS RATIO PLOT



Mud Gas Isotopes

Daily Geological Reports

CONFIDENTIAL

Date:	17 Oct 2009	Report Number:	1
Report Period:	0000-2400 Hours	Last Casing Shoe:	N/A
Depth @ 2400hrs:	N/A mMDRT	Last Casing Size:	N/A
Previous 2400hr depth:	N/A mMDRT	Current Bit Size:	N/A
Progress:	0 m	FIT:	N/A
Lag Depth:	N/A	Mud Weight:	N/A
Water Depth:	~485 m LAT (TBC)	ECD:	N/A
RT:	21.5 m (TBC)	Mud Type:	N/A
Last Survey Depth:	N/A	Mud Chlorides:	N/A
Deviation:	Inc / Azi	Est. Pore Press:	N/A

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Completed rig tow from Westernport to Somerset-1 location. Deployed three anchors with Lewek Emerald support vessel.

NEXT 24 HOURS: Complete deployment of the secondary anchors. Pretension the secondary anchors. Ballast down the rig. Conduct a shallow gas meeting. Make up the 914 mm (36") and 444 mm (17.5") BHAs. RIH with 914 mm BHA and TGB to spud in.

MIDNIGHT TO 0600hrs SUMMARY: Completed deployment of primary anchors. Commenced deployment of the secondary anchors.

CURRENT OPERATION @ 06:00hrs: Deploying secondary anchors with the Lewek Emerald support vessel.

GEOLOGICAL SUMMARY

LITHOLOGY

No new formation drilled.

HYDROCARBON FLUORESCENCE

No new formation drilled.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
No drilling	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	N/A
Connection gas	N/A
Trip gas	N/A
Background gas	N/A
Dxc exponent	N/A
ROP	N/A
Ditch cuttings	N/A
Mud temperature out	N/A
MWD resistivity	N/A

ITEM	REMARKS
Pore Pressure Estimate	N/A

SAMPLE QUALITY

No drilling.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2 Data Engineers, 3 Mudloggers, 1 Trainee Mudlogger

Equipment: The 2 Wellsite Geologists have and will continue to check the BHI consumables for Somerset-1. BHI will be monitoring depth using a Kelly bottle and have a back-up Kelly bottle. In the case of the back-up Kelly bottle failing a draw works depth encoder would be relied up for monitoring depth. BHI do not have a geologist onboard. The only location for a geologist is currently being used by SLB LWD.

MWD/LWD

Personnel: 2 LWD Engineers
2 Directional Drillers

Equipment: Primary and back up tools for the 444 mm (17.5") section are being checked and tested. Tools for the 311 mm (12.25") section have not yet arrived on the rig.

WIRELINE

Personnel: No crew onboard.

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

CUTTINGS SAMPLING SUMMARY (24 hr period)

Depth Interval (mMDRT)	Sampling rate	Samples missed
No drilling		

MUD / MUD FILTRATE SAMPLES (24 hr period)

Depth (mMDRT)	Sample type
No drilling	

ISOTUBE SAMPLES (24 hr period)

Depth (mMDRT)	Date	Time	TG%	Remarks
No drilling				

DEPTH TABLE (add rows as required)

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE		1dp	
Mudline		1dp	
Water Depth		1dp	
914 mm (36") TD		0dp	
508 mm (20") csg shoe		0dp	
445mm (17-1/2") TD		0dp	
340mm (13-3/8") csg shoe		0dp	
311mm (12-1/4") TD		0dp	

CONFIDENTIAL

Date:	18 Oct 2009	Report Number:	2
Report Period:	0000-2400 Hours	Last Casing Shoe:	N/A
Depth @ 2400hrs:	0 mMDRT	Last Casing Size:	N/A
Previous 2400hr depth:	N/A mMDRT	Current Bit Size:	N/A
Progress:	0 m	FIT:	N/A
Lag Depth:	N/A	Mud Weight:	N/A
Water Depth:	485.0 m LAT (TBC)	ECD:	N/A
RT:	21.5 m	Mud Type:	N/A
Last Survey Depth:	N/A	Mud Chlorides:	N/A
Deviation:	N/A	Est. Pore Press:	N/A

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Completed deployment of rig anchors. Tensioned and positioned the rig via anchors. Made up 444 mm (17.5") BHA. Ballasted down to drilling draft whilst picking up and making up 444 mm (17-1/2") BHA. Made up and racked back 5 stands HWDP. Picked up and racked back 39 joints of 127 mm (5") drill pipe.

NEXT 24 HOURS: Make up 914 mm (36") BHA with TGB. Prepare spud mud. Drill 914 mm (36") top hole and displace hole to mud. POOH to run 762 mm (30") casing.

MIDNIGHT TO 0600hrs SUMMARY: Installed TGB and commenced running in with 914 mm (36") BHA.

CURRENT OPERATION @ 06:00hrs: Running in with 914 mm (36") BHA at 262 mMDRT.

GEOLOGICAL SUMMARY

LITHOLOGY

No new formation drilled.

HYDROCARBON FLUORESCENCE

No new formation drilled.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
No drilling	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	N/A
Connection gas	N/A
Trip gas	N/A
Background gas	N/A
Dxc exponent	N/A
ROP	N/A
Ditch cuttings	N/A

ITEM	REMARKS
Mud temperature out	N/A
MWD resistivity	N/A
Pore Pressure Estimate	N/A

SAMPLE QUALITY

No drilling.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All consumables checked and sufficient to complete well. All well monitoring sensors are functional. Gas chromatograph has been started to warm up ionisation sensor and will be calibrated tomorrow (Not required till the 311 mm hole section). The calcimeter was also calibrated.

BHI are having issues exporting drilling and gas ascii data from the database into a LAS file. Some parameters are missing after exporting the data. BHI are troubleshooting this problem with the assistance from town support.

MWD/LWD

Personnel: 2x LWD Engineers
2x Directional Drillers

Equipment: Primary tool for the 444 mm (17-1/2") section has been made up and racked back in the derrick. Tools for the 311 mm (12-1/4") section have not yet arrived to the rig.

WIRELINE

Personnel: No crew onboard.

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
No drilling		

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
No drilling	

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
No drilling				

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 m above LAT	1dp	
Mudline		1dp	
Water Depth		1dp	
914 mm (36") TD		0dp	
508 mm (20") csg shoe		0dp	
445mm (17-1/2") TD		0dp	
340mm (13-3/8") csg shoe		0dp	
311mm (12-1/4") TD		0dp	

CONFIDENTIAL

Date:	19 Oct 2009	Report Number:	3
Report Period:	0000-2400 Hours	Last Casing Shoe:	569.44 mMDRT
Depth @ 2400hrs:	572.5 mMDRT	Last Casing Size:	762 (30")
Previous 2400hr depth:	0 mMDRT	Current Bit Size:	660/914 mm (26"/36")
Progress:	48 m	FIT:	N/A
Lag Depth:	Returns to seafloor	Mud Weight:	1.04 sg
Water Depth:	503.0 m LAT	ECD:	N/A
RT:	21.5 m	Mud Type:	Hi-Vis PHG/Guar Gum
Last Survey Depth:	N/A	Mud Chlorides:	N/A
Deviation:	N/A	Est. Pore Press:	1.03 sg EMW

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Made up 914 mm (36") spud BHA. Connected TGB to bit. Ran TGB to sea bed on BHA. Spudded Somerset-1 well at 11:30 hours and drilled 914 mm (36") hole from 524.5 to 572.5 mMDRT. Circulated clean and displaced hole to PHG mud. POOH. Rigged up and ran 762 mm (30") conductor. Stabbed conductor into PGB below drill floor in moon pool.

NEXT 24 HOURS: Complete cementing the 762 mm (30") conductor. Release running tool and POOH. Lay down 914 mm (36") BHA and cement head. RIH with 445 mm (17.5") BHA and drill 445 mm (17.5") hole.

MIDNIGHT TO 0600hrs SUMMARY: Picked up PGB and confirmed engagement with conductor. Ran 762 mm (30") conductor to 569.44 mMDRT. Commenced cementing the 762 mm (30") conductor.

CURRENT OPERATION @ 06:00hrs: Cementing 762 mm (30") conductor.

GEOLOGICAL SUMMARY

LITHOLOGY

Returns to seafloor.

HYDROCARBON FLUORESCENCE

Returns to seafloor.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
No returns	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	N/A
Connection gas	N/A
Trip gas	N/A
Background gas	N/A
Dxc exponent	N/A
ROP	N/A
Ditch cuttings	N/A
Mud temperature out	N/A
MWD resistivity	N/A
Pore Pressure Estimate	1.03 sg EMW (estimate from town)

SAMPLE QUALITY

No returns.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All consumables checked and sufficient to complete well. The calcimeter and gas chromatograph have been calibrated.
BHI have resolved ascii export issues.

MWD/LWD

Personnel: 2x LWD Engineers
2x Directional Drillers

Equipment: Primary tool for the 444 mm (17-1/2") section has been made up and racked back in the derrick. Tools for the 311 mm (12-1/4") section have not yet arrived to the rig.

WIRELINER

Personnel: No crew onboard.

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
No returns		

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
None	

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
None				

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 m above LAT	1dp	
Mudline	524.5 m	1dp	
Water Depth	524.5 m	1dp	
914 mm (36") TD	572.5 m	1dp	
508 mm (20") csg shoe	569.44 m	2dp	
445mm (17-1/2") TD		0dp	
340mm (13-3/8") csg shoe		0dp	
311mm (12-1/4") TD		0dp	

CONFIDENTIAL

Date:	20 Oct 2009	Report Number:	4
Report Period:	0000-2400 Hours	Last Casing Shoe:	569.44 mMDRT
Depth @ 2400hrs:	861 mMDRT	Last Casing Size:	762 (30")
Previous 2400hr depth:	572.5 mMDRT	Current Bit Size:	444 mm (17")
Progress:	288.5 m	FIT:	N/A
Lag Depth:	Returns to seafloor	Mud Weight:	1.04 sg
Water Depth:	503.0 m LAT	ECD:	N/A
RT:	21.5 m	Mud Type:	Hi-Vis PHG/Guar Gum
Last Survey Depth:	799.04 mMDRT	Mud Chlorides:	300
Deviation:	Inc 0.53° Azi 124.88°	Est. Pore Press:	1.03 sg EMW

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Picked up PGB and confirmed engagement with conductor. Ran and landed 762 mm (30") conductor and set 508 mm (20") shoe at 569.44 mMDRT. Cemented the conductor, released the running tool and POOH. Laid down 914 mm (36") BHA and cement head. RIH with 444 mm (17-1/2") BHA and tagged top of cement at 567.25 mMDRT. Drilled out shoe track. Drilled 444 mm (17.5" hole from 572.5 to 861 mMDRT.

NEXT 24 HOURS: Drill 444 mm (17-1/2") hole to section TD. Circulate hole clean prior to pumping displacement fluid and POOH. Slip and cut drill line. Prepare to run 340 mm (13-3/8") casing.

MIDNIGHT TO 0600hrs SUMMARY: Drilled 444 mm (17.5") hole from 861 to 1211 mMDRT

CURRENT OPERATION @ 06:00hrs: Drilling 444 mm (17.5") hole at 1211 mMDRT

GEOLOGICAL SUMMARY

LITHOLOGY

Returns to seafloor.

HYDROCARBON FLUORESCENCE

Returns to seafloor.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
No returns	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.04 sg
Connection gas	N/A
Trip gas	N/A
Background gas	N/A
Dxc exponent	No significant cut backs.
ROP	Normal
Ditch cuttings	N/A
Mud temperature out	N/A
MWD resistivity	N/A
Pore Pressure Estimate	1.03 sg EMW (estimate from town)

SAMPLE QUALITY

No returns.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All consumables checked and sufficient to complete the well.

MWD/LWD

Personnel: 2x LWD Engineers
 2x Directional Drillers

Equipment: Primary tool for the 444 mm (17-1/2") is in the hole. Back-up checked and on deck. Tools for the 311 mm (12-1/4") section have not yet arrived to the rig.

WIRELINER

Personnel: No crew onboard.

REMARKS

None

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD		0dp	
340mm (13-3/8") csg shoe		0dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
No returns		

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
None	

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
None				

CONFIDENTIAL

Date:	21 Oct 2009	Report Number:	5
Report Period:	0000-2400 Hours	Last Casing Shoe:	569.44 mMDRT
Depth @ 2400hrs:	1284 mMDRT	Last Casing Size:	762 mm (30")
Previous 2400hr depth:	861 mMDRT	Current Bit Size:	444 mm (17")
Progress:	423 m	FIT:	N/A
Lag Depth:	Returns to seafloor	Mud Weight:	1.03 sg
Water Depth:	503.0 m LAT	ECD:	N/A
RT:	21.5 m	Mud Type:	Hi-Vis PHG/Guar Gum
Last Survey Depth:	1251.88 mMDRT	Mud Chlorides:	350
Deviation:	Inc 0.96° Azi 60.07°	Est. Pore Press:	1.03 sg EMW

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Drilled 444 mm (17-1/2") hole from 861 to 1284 mMDRT (section TD). Circulated hole clean and displaced to PHG mud. POOH. Rigged up and ran 340 mm (13.375") casing to 756 mMDRT.

NEXT 24 HOURS: Cement 340 mm (13.375") casing. Release running tool. POOH and rig up to run BOPs.

MIDNIGHT TO 0600hrs SUMMARY: Made up and ran 475 mm (18.75") well head running tool to well head. Ran and landed 340 mm (13.375") casing. Commenced pressure testing surface lines prior to cementing the 340 mm (13.375") casing.

CURRENT OPERATION @ 06:00hrs: Pressure testing surface lines.

GEOLOGICAL SUMMARY

LITHOLOGY

Returns to seafloor.

HYDROCARBON FLUORESCENCE

Returns to seafloor.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
No returns	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.03 sg
Connection gas	N/A
Trip gas	N/A
Background gas	N/A
Dxc exponent	Minor cutback at 1104 mMDRT. No other cut backs observed.
ROP	Normal reflecting changes in formation
Ditch cuttings	N/A
Mud temperature out	N/A
MWD resistivity	N/A
Pore Pressure Estimate	1.03 sg EMW (estimate from town)

SAMPLE QUALITY

No returns.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2 x Data Engineers, 4 x Mudloggers (sharing sample catching duties).

Equipment: All consumables checked and sufficient to complete the well.

MWD/LWD

Personnel: 3 x LWD Engineers.
2 x Directional Drillers.

Equipment: The primary and back-up 311 mm (12-1/4") tools are due to arrive on 22nd October 2009. Preparing 444 mm (17.5") tools for back load.

WIRELINE

Personnel: No crew onboard.

REMARKS

2 x Petrotec specialists onboard to supervise addition of mud tracer to system during 311 mm (12.25") hole section.

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284	0dp	
340mm (13-3/8") csg shoe		0dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
No returns		

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
None	

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
None				

CONFIDENTIAL

Date:	22 Oct 2009	Report Number:	6
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	1284 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	1284 mMDRT	Current Bit Size:	N/A
Progress:	0 m	FIT:	N/A
Lag Depth:	Returns to seafloor	Mud Weight:	1.03 sg
Water Depth:	503.0 m LAT	ECD:	N/A
RT:	21.5 m	Mud Type:	Hi-Vis PHG/Guar Gum
Last Survey Depth:	1251.88 mMDRT	Mud Chlorides:	350
Deviation:	Inc 0.96° Azi 60.07°	Est. Pore Press:	1.03 sg EMW

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Made up and ran 476 mm (18-3/4") well head running tool to well head. Ran in hole and landed 340 mm (13-3/8") casing. Completed pressure testing of surface lines and cemented casing. Released running tool and POOH and laid out. Held JHA prior to picking up BOP. Installed guide lines and beacon. Continued to run in hole BOPs on riser.

NEXT 24 HOURS: Land the BOPs. Test 476 mm (18.75") well head connector. Make up and run 311 mm (12.25") BHA. Drill out shoe track and displace the well to 1.30 sg Ultradrill mud.

MIDNIGHT TO 0600hrs SUMMARY: Ran BOPs on riser.

CURRENT OPERATION @ 06:00hrs: Running BOPs on riser.

GEOLOGICAL SUMMARY

LITHOLOGY
Returns to seafloor.

HYDROCARBON FLUORESCENCE
Returns to seafloor.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
No returns	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.03 sg
Connection gas	N/A
Trip gas	N/A
Background gas	N/A
Dxc exponent	Minor cutback at 1104 mMDRT. No other cut backs observed.
ROP	Normal reflecting changes in formation
Ditch cuttings	N/A
Mud temperature out	N/A
MWD resistivity	N/A
Pore Pressure Estimate	1.03 sg EMW (estimate from town)

SAMPLE QUALITY

No returns.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2 x Data Engineers, 4 x Mudloggers (sharing sample catching duties).

Equipment: All consumables checked and sufficient to complete the well.

MWD/LWD

Personnel: 3 x LWD Engineers.
2 x Directional Drillers.

Equipment: The primary and back-up 311 mm (12-1/4") tools are on deck. Due to running riser operations they have not been able to start checking the tools. The 444 mm (17.5") tools are being prepared for back load.

WIRELINE

Personnel: No crew onboard.

REMARKS

2 x Petrotec specialists onboard to supervise addition of mud tracer to system during 311 mm (12.25") hole section.

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
No returns		

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
None	

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
None				

CONFIDENTIAL

Date:	23 Oct 2009	Report Number:	7
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	1284 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	1284 mMDRT	Current Bit Size:	N/A
Progress:	0 m	FIT:	N/A
Lag Depth:	N/A	Mud Weight:	1.25 sg
Water Depth:	503.0 m LAT	ECD:	N/A
RT:	21.5 m	Mud Type:	Ultradrill
Last Survey Depth:	1251.88 mMDRT	Mud Chlorides:	72,000
Deviation:	Inc 0.96° Azi 60.07°	Est. Pore Press:	1.03 sg EMW

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Continued to run BOP on riser. Attached choke and kill lines. Kedge BOP over well head. Landed BOP and pressure tested the choke and kill lines. Installed slip joint and diverter. Laid out BOP/riser handling equipment. Tested shear rams and BOP connector. Commenced picking up and making up 127 mm (5") drill pipe singles.

NEXT 24 HOURS: Complete picking up drill pipe. Lay out 444 mm (17 1/2") BHA. Pick up and make up 311 mm (12 1/4") BHA. Complete rig service prior to running in hole and tagging top of cement. Drill out shoe track whilst displacing to new Ultradrill mud system. Drill 3 m of new formation. Conduct LOT and perform SCR and CLR tests. Drill ahead 311 mm (12 1/4") hole section.

MIDNIGHT TO 0600hrs SUMMARY: Picked up and made up 127 mm (5") drill pipe singles. Function tested the BOPs and commenced installing the diverter insert packer and tested diverter same.

CURRENT OPERATION @ 06:00hrs: Laying out 444 mm (17 1/2") BHA.

GEOLOGICAL SUMMARY

LITHOLOGY

No new formation drilled.

HYDROCARBON FLUORESCENCE

No new formation drilled.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
No returns	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	N/A
Trip gas	N/A
Background gas	N/A
Dxc exponent	Minor cutback at 1104 mMDRT. No other cut backs observed.
ROP	Normal reflecting changes in formation
Ditch cuttings	N/A
Mud temperature out	N/A
MWD resistivity	N/A
Pore Pressure Estimate	1.03 sg EMW (estimate from town)

SAMPLE QUALITY

No new formation drilled.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All consumables checked and sufficient to complete the well. Chromatograph fully calibrated.

MWD/LWD

Personnel: 3x LWD Engineers
 2x Directional Drillers

Equipment: All primary and back-up 311 mm (12-1/4") LWD tools have been checked – OK. It is planned to lay down the 444 mm (17.5") tools in the next 24 hours in readiness for back load.

WIRELINER

Personnel: No crew onboard.

REMARKS

None

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
No returns		

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
None	

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
None				

CONFIDENTIAL

Date:	24 Oct 2009	Report Number:	8
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	1284 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	1284 mMDRT	Current Bit Size:	311 mm (12-1/2")
Progress:	0 m	FIT:	N/A
Lag Depth:	N/A	Mud Weight:	1.25 sg
Water Depth:	503.0 m LAT	ECD:	1.28 sg EMW
RT:	21.5 m	Mud Type:	Ultradrill
Last Survey Depth:	1251.88 mMDRT	Mud Chlorides:	70,000
Deviation:	Inc 0.96° Azi 60.07°	Est. Pore Press:	1.03 sg EMW

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT:	Picked up and made up 127 mm (5") drill pipe. Function tested BOPs and installed diverter insert packer and tested. Laid out 444 mm (17-1/2") BHA. Performed rig service. Picked up and made up 311mm (12-1/4") BHA. RIH and shallow tested tools – sonic tool failed. Sonic and ADN tools were replaced with back up tools. RIH to 1235 mMDRT, picking up drill pipe from the deck.
NEXT 24 HOURS:	Continue to RIH, tag top of cement, drill out shoe track whilst displacing to new Ultradrill mud system. Drill 5 m of new formation. Conduct LOT and perform SCR and CLR tests. Drill ahead in 311 mm (12-1/4") hole section.
MIDNIGHT TO 0600hrs SUMMARY:	Continued RIH. Tagged top of cement at 1244.87 mMDRT. Displaced to Ultradrill mud system whilst drilling cement shoe track.
CURRENT OPERATION @ 06:00hrs:	Drilling shoetrack at 1254 mMDRT.

GEOLOGICAL SUMMARY

LITHOLOGY

No new formation drilled.

HYDROCARBON FLUORESCENCE

No new formation drilled.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
No returns	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.25 sg
Connection gas	N/A
Trip gas	N/A
Background gas	N/A
Dxc exponent	Minor cutback at 1104 mMDRT. No other cut backs observed.
ROP	Normal reflecting changes in formation
Ditch cuttings	N/A
Mud temperature out	N/A
MWD resistivity	N/A
Pore Pressure Estimate	1.03 sg EMW (estimate from town)

SAMPLE QUALITY

No new formation drilled.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All consumables checked and sufficient to complete the well. Chromatograph, total gas detection system and CO2 sensor have been calibrated.

MWD/LWD

Personnel: 3x LWD Engineers
2x Directional Drillers

Equipment: During the first shallow hole test RT communication to the sADN tool failed. The tool was broken out and laid down while checks were done on the sonic tool. After inspection the sonic was found to have a faulty extender. The sonic was laid out. The back-up sonic and sADN tools were picked up.

The 444 mm (17.5") tools are due to be back loaded on 25th October 2009.

Sensor	Distance from Bit (m)
Pressure (Arc)	9.31
Resistivity(Arc)	10.03
Gamma Ray (Arc)	10.08
Vibration (TeleScope)	17.05
Direction & Inclination (TeleScope)	18.05
Delta T (sonic)	27.56
Ultrasonic (sADN)	33.34
Density (sADN)	33.51
Neutron (sADN)	35.49

WIRELINE

Personnel: No crew onboard.

REMARKS

None

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
No returns		

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
None	

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
None				

CONFIDENTIAL

Date:	25 Oct 2009	Report Number:	9
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	1558 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	1284 mMDRT	Current Bit Size:	311 mm (12-1/2")
Progress:	274 m	FIT:	1.7 sg
Lag Depth:	1528	Mud Weight:	1.26 sg
Water Depth:	503.0 m LAT	ECD:	1.33 sg EMW
RT:	21.5 m	Mud Type:	Ultradrill
Last Survey Depth:	1450.69 mMDRT	Mud Chlorides:	65,000
Deviation:	Inc 0.32° Azi 100.66°	Est. Pore Press:	1.10 sg EMW

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Continued RIH, tagged top of cement at 1244.87 mMDRT. Drilled out cement float and shoe track whilst displacing to new Ultradrill mud system. Drilled 5 m of new formation. Conducted LOT to 1.7 sg EMW (824psi) with 1.25 sg mud. Performed SCRs. Conducted rig shut down safety talk. Drilled 311 mm (12-1/4") hole from 1284 to 1558 mMDRT.

NEXT 24 HOURS: Drill 311 mm (12-1/4") hole.

MIDNIGHT TO 0600hrs SUMMARY: Drilled 311 mm (12.25") hole from 1558 to 1715 mMDRT whilst increasing mud weight to 1.3 sg.

CURRENT OPERATION @ 06:00hrs: Drilling 311 mm (12.25") hole at 1715 mMDRT

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 1284 to 1440 mMDRT

ROP (range): 5.2 to 196.6 m/hr

ROP (av): 50.0 m/hr

CALCAREOUS CLAYSTONE finely interbedded and gradational with **ARGILLACEOUS CALCISILTITE**

CALCAREOUS CLAYSTONE (40 to 90%): light olive grey to greenish grey, firm, sub-blocky to blocky, 20 to 40% calcareous, trace to 1% calcareous silt, trace dark silt, in part trace blocky pyrite, in part trace very fine quartz sand, in part trace yellow calcareous grains, in part trace glauconite, in part trace reddish brown lithics, in part trace skeletal fragments, grades in part to Argillaceous Calcisiltite.

ARGILLACEOUS CALCISILTITE (10 to 60%): patchy white, very light patchy grey to very light olive grey, firm to in part moderately hard, sub-blocky to blocky, 20 to 30% argillaceous, trace dark silt and flecks, trace calcite crystals and grains, in part trace to 1% quartz silt and sand, trace to 1% very fine black glauconite grains.

INTERVAL: 1440 to 1520 mMDRT

ROP (range): 23.8 to 160.0 m/hr

ROP (av): 53.3 m/hr

Interbedded CALCAREOUS CLAYSTONE and ARGILLACEOUS CALCISILTITE

CALCAREOUS CLAYSTONE (70 to 90%): light olive grey to olive grey, greenish grey to dark greenish grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite.

ARGILLACEOUS CALCISILTITE (10 to 30%): light olive grey to light grey, trace white patches, firm, sub-blocky to blocky, 25% argillaceous, trace calcite crystals, trace very fine lithics, gradational Argillaceous Calcisiltite in part.

HYDROCARBON FLUORESCENCE

No hydrocarbon fluorescence.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
1284-1440	0.0132	0.0038	-	-	-	-	-	-
1440-1520	0.0333	0.0164	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
None	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
None	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.26 sg
Connection gas	Nil
Trip gas	Nil
Background gas	Low background gas levels. Slowly increasing trend with depth.
Dxc exponent	Minor cutback at 1104 mMDRT. No other cut backs observed.
ROP	No signs of over pressure. Normal reflecting changes in formation
Ditch cuttings	No splintery or pressure style cavings observed
Mud temperature out	No indication of overpressure
MWD resistivity	Minor overpressure at 1430, 1460, 1485, 1455 mMDRT (from town Pore Pressure analyst support), but is still less than the pre-drill prediction from town.
Pore Pressure Estimate	~1.1 sg EMW (estimate from town Pore Pressure support based on resistivity data)

SAMPLE QUALITY

Good.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All equipment operating and functional.

MWD/LWD

Personnel: 3x LWD Engineers
2x Directional Drillers

Equipment: During the first shallow hole test RT communication to the sADN tool failed. The tool was broken out and laid down while checks were done on the sonic tool. After inspection the sonic was found to have a faulty extender. The sonic was laid out. The back-up sonic and sADN tools were picked up.

The 444 mm (17.5") tools were back loaded on 25th October 2009.

Sensor	Distance from Bit (m)
Pressure (Arc)	9.31
Resistivity(Arc)	10.03
Gamma Ray (Arc)	10.08
Vibration (TeleScope)	17.05
Direction & Inclination (TeleScope)	18.05
Delta T (sonic)	27.56
Ultrasonic (sADN)	33.34
Density (sADN)	33.51
Neutron (sADN)	35.49

WIRELIN

Personnel: No crew onboard.

REMARKS

None

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
1284-1290	6	
1290-1520	10	

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
1289	Mud
1289	Filtrate

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
1300	25 Oct 09	17:08	0.0065	
1400	25 Oct 09	20:31	0.0162	
1500	25 Oct 09	23:18	0.0285	

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Date:	26 Oct 2009	Report Number:	10
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	2288 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	1558 mMDRT	Current Bit Size:	311 mm (12-1/2")
Progress:	730 m	FIT:	1.7 sg
Lag Depth:	2263	Mud Weight:	1.30 sg
Water Depth:	503.0 m LAT	ECD:	1.34 sg EMW
RT:	21.5 m	Mud Type:	Ultradrill
Last Survey Depth:	2288.48 mMDRT	Mud Chlorides:	56,000
Deviation:	Inc 0.99° Azi 182.79°	Est. Pore Press:	1.28 sg EMW

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT:	Drilled 311 mm (12-1/4") vertical hole from 1558 to 2288 mMDRT.
NEXT 24 HOURS:	Drill ahead in 311 mm (12-1/4") vertical hole section.
MIDNIGHT TO 0600hrs SUMMARY:	Drilled 311 mm (12-1/4") vertical hole from 2288 to 2478 mMDRT.
CURRENT OPERATION @ 06:00hrs:	Drilling 311 mm (12.25") vertical hole at 2478 mMDRT

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 1520 to 1570 mMDRT
ROP (range): 14.3 to 74.7 m/hr
ROP (av): 46.7 m/hr

Interbedded CALCAREOUS CLAYSTONE and ARGILLACEOUS CALCISILTITE

CALCAREOUS CLAYSTONE (70 to 90%): light olive grey to olive grey, greenish grey to dark greenish grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite.

ARGILLACEOUS CALCISILTITE (10 to 30%): light olive grey to light grey, trace white patches, firm, sub-blocky to blocky, 25% argillaceous, trace calcite crystals, trace very fine lithics, gradational Argillaceous Calcilutite in part.

INTERVAL: 1570 to 1600 mMDRT
ROP (range): 18.0 to 76.0 m/hr
ROP (av): 36.6 m/hr

Interbedded CALCAREOUS CLAYSTONE and ARGILLACEOUS CALCILUTITE

CALCAREOUS CLAYSTONE (70%): light olive grey to olive grey, greenish grey to dark greenish grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite, trace lithics.

ARGILLACEOUS CALCILUTITE (30%): light olive grey to light grey, trace white patches, firm, sub-blocky to blocky, 25-30% clay, 5-10% calcareous silt, 5% silt, trace cryptocrystalline calcite, trace very fine black to greenish black lithics, trace glauconite specks.

INTERVAL: 1600 to 1660 mMDRT
ROP (range): 20.7 to 79.9 m/hr
ROP (av): 62.1 m/hr

Interbedded CALCAREOUS CLAYSTONE and CALCILUTITE

CALCAREOUS CLAYSTONE (30 to 70%): medium grey to olive grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite, trace pyrite, trace lithics.

CALCILUTITE (30 to 70%): white to light grey, light olive grey, firm, sub-blocky to blocky, 5% calcareous silt, 15% clay, trace cryptocrystalline calcite, trace carbonaceous specks, gradational to Argillaceous Calcilutite.

INTERVAL: 1660 to 1680 mMDRT
ROP (range): 20.7 to 79.9 m/hr
ROP (av): 62.1 m/hr

Interbedded CALCAREOUS CLAYSTONE, SANDSTONE and CALCILUTITE

CALCAREOUS CLAYSTONE (55%): predominantly olive grey and occasionally grading to medium to medium dark grey, soft to firm, sub-blocky to blocky, 35 to 45% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite, trace pyrite, trace lithics, gradational to Argillaceous Calcilutite.

CALCILUTITE (40%): predominantly light grey to light olive grey, minor white, soft to firm, sub-blocky to blocky, 5% calcareous silt, 15% clay, trace cryptocrystalline calcite, trace glauconite, trace carbonaceous specks.

SANDSTONE (5%): white to light olive grey, loose translucent to transparent quartz grains, very fine to 5% fine grained, very well sorted, angular to sub angular, sub elongate, trace lithics, trace lithics, trace carbonaceous specks, fair inferred porosity, no hydrocarbon fluorescence.

INTERVAL: 1680 to 1740 mMDRT
ROP (range): 11.2 to 79.4 m/hr
ROP (av): 49.2 m/hr

CLAYSTONE with minor thin SANDSTONE interbeds and trace CALCILUTITE

CLAYSTONE (80 to 95%): dark grey, olive grey to brownish grey, trace to 25% in part dark greenish grey to greenish black, soft to firm, sub-blocky to blocky, amorphous in part 15 to 19% calcareous clay, 10 to 15% silt, trace to 5% carbonaceous specks, trace glauconite, trace pyrite, trace lithics, gradational in part to Silty Claystone.

CALCILUTITE (Nil to Trace): predominantly light grey to light olive grey, minor white, soft to firm, sub-blocky to blocky, 5% calcareous silt, 15% clay, trace cryptocrystalline calcite, trace glauconite, trace carbonaceous specks.

SANDSTONE (5 to 20%): white to light olive grey, greenish grey in part, predominantly loose, translucent to transparent quartz grains, very fine to 10% fine grained, very well to well sorted, angular to sub angular, sub elongate, 5 to 10% argillaceous matrix in part washing out and dispersive, trace hard pyrite cemented aggregates, trace calcareous cement, trace lithics, trace lithics, trace pyrite, trace carbonaceous specks, trace to 5% glauconite, fair inferred porosity, no hydrocarbon fluorescence.

INTERVAL: 1740 to 1800 mMDRT
ROP (range): 15.2 to 78.0 m/hr
ROP (av): 42.4 m/hr

CLAYSTONE

CLAYSTONE (100%): dark grey to olive black, soft to firm, sub-blocky to blocky, amorphous in part 10 to 15% calcareous clay, 10 to 15% silt, trace carbonaceous specks, trace to 5% glauconite, trace pyrite, trace to 5% light olive grey to dusky yellowish brown strongly calcareous fragments that are angular and hard in parts, trace lithics, gradational in part to Silty Claystone.

INTERVAL: 1800 to 1840 mMDRT
ROP (range): 9.7 to 79.6 m/hr
ROP (av): 46.1 m/hr

CLAYSTONE with thin ARGILLACEOUS CALCILUTITE interbeds

CLAYSTONE (80 to 90%): dark grey to greyish black, soft to firm, sub-blocky to blocky, amorphous in part 10 to 15% calcareous clay, 10 to 19% silt, trace carbonaceous specks, trace to 5% glauconite, trace pyrite, trace lithics, gradational in part to Silty Claystone.

ARGILLACEOUS CALCILUTITE (10 to 20%): light olive grey to olive grey, trace white, predominantly soft to firm, trace hard and angular, predominantly sub blocky to blocky 30% clay, 5 to 10% calcareous silt, cryptocrystalline calcite, trace glauconite, trace pyrite.

INTERVAL: 1840 to 1900 mMDRT
ROP (range): 23.8 to 90.2 m/hr
ROP (av): 49.0 m/hr

CLAYSTONE with thin SANDSTONE interbeds grading with depth to SILTY CLAYSTONE and trace CALCAREOUS CLAYSTONE stringers

CLAYSTONE (Nil to 90%): dark grey to greyish black, soft to firm, sub-blocky to blocky, amorphous in part 10 to 15% calcareous clay, 10 to 19% silt, trace carbonaceous specks, trace to 5% glauconite, trace pyrite, trace lithics.

SANDSTONE (Trace to 20%): light grey, transparent to translucent quartz grains, loose, very fine to trace fine grained, sub angular to rounded, very well to well sorted, argillaceous matrix in part, trace silt, trace lithics, trace glauconite, trace pyrite, fair to poor inferred porosity, no hydrocarbon fluorescence.

SILTY CLAYSTONE (Nil to 100%): dark grey to dark olive grey, soft to moderately firm, amorphous to sub-blocky, trace calcareous, 25 to 30% silt, also occurring as loose silt, 2% very fine quartz grains, predominantly loose, very well sorted, sub-rounded to rounded, sub-spherical, trace to 2% hard pelloidal and granular glauconite, occasionally rounded clumps, trace blocky pyrite, trace lithics.

CALCAREOUS CLAYSTONE (Nil to 5%): light brownish grey to brownish grey, slightly mottled, firm to moderately hard, in part brittle, sub-blocky to blocky, 20 to 25% calcareous, trace to 3% calcareous silt, trace calcareous sand and fragments, 2 to 5% dolomite cement and fragments, trace quartz sand, trace fossil fragments.

INTERVAL: 1900 to 2020 mMDRT
ROP (range): 12.0 to 99.4 m/hr
ROP (av): 45.7 m/hr

SILTY CLAYSTONE and thin CALCAREOUS CLAYSTONE stringers

SILTY CLAYSTONE (95 to 100%): dark grey to dark olive grey, slightly brownish grey, soft to in part firm, amorphous to sub-blocky, trace to in part 3% calcareous, 20 to 25% silt, trace to 2% very fine quartz grains, trace to 2% loose quartz sand, very well sorted probably disaggregated from clay, (sub-rounded to rounded, sub-spherical), trace hard pelloidal and granular glauconite, in part occurring as rounded clumps, trace disaggregated blocky pyrite, trace lithics.

CALCAREOUS CLAYSTONE (Trace to 5%): slightly mottled appearance, light brownish grey to brownish grey, firm to moderately hard, in part brittle, sub-blocky to blocky, 20 to 25% calcareous, trace to 3% calcareous silt, trace calcareous fragments, in part 2 to 5% dolomite cement.

INTERVAL: 2020 to 2110 mMDRT
ROP (range): 13.6 to 95.5 m/hr
ROP (av): 54.7 m/hr

Massive SILTY CLAYSTONE with trace very thin CALCAREOUS CLAYSTONE stringers

SILTY CLAYSTONE (95 to 98%): brownish grey to dark olive grey, soft, amorphous to sub-blocky, trace calcareous, 20 to 25% silt, trace very fine quartz grains, trace very fine glauconite, trace disaggregated blocky pyrite, trace lithics.

CALCAREOUS CLAYSTONE (2 to 5%): slightly mottled appearance, light brownish grey to brownish grey, firm to moderately hard, in part brittle, sub-blocky to blocky, 20 to 25% calcareous, trace to 3% calcareous silt, trace calcareous fragments, trace to in part 5% dolomite cement.

INTERVAL: 2110 to 2260 mMDRT
ROP (range): 14.5 to 80.0 m/hr
ROP (av): 35.0 m/hr

Massive SILTY CLAYSTONE with trace very thin CALCAREOUS CLAYSTONE stringers

Massive SILTY CLAYSTONE with trace very thin CALCAREOUS CLAYSTONE stringers

SILTY CLAYSTONE (95 to 98%): dark grey, brownish grey to dark olive grey, predominantly dark grey with depth, soft to firm, amorphous to sub-blocky, 20 to 25% silt, trace very fine quartz grains, trace very fine glauconite specks, trace silty lithics.

CALCAREOUS CLAYSTONE (2 to 5%): mottled to patchy appearance, light brownish grey to brownish grey, in part white patches, soft to firm, trace moderately hard, in part brittle, sub-blocky to

blocky, 20 to 25% calcareous, trace to 3% calcareous silt, trace calcareous fragments, trace to 5% dolomite fragments, trace broken fossil fragments.

HYDROCARBON FLUORESCENCE

No hydrocarbon fluorescence.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
1520 – 1570	0.0400	0.0030	0	0	0	0	0	0
1570 – 1600	0.0300	0.0200	0	0	0	0	0	0
1600 – 1660	0.0400	0.0400	0	0	0	0	0	0
1660 – 1680	0.0800	0.0700	0	0	0	0	0	0
1680 – 1740	0.0800	0.0900	0	0	0	0	0	0
1740 – 1800	0.0100	0.0900	0	0	0	0	0	0
1800 – 1840	0.0470	0.0270	0.0002	0	0	0	0	0
1840 – 1900	0.0500	0.0300	0.0002	0	0	0	0	0
1900 – 2020	0.0400	0.0200	0.0002	0	0	0	0	0
2020 – 2110	0.0470	0.0300	0.0003	0	0	0	0	0
2110 – 2260	0.0500	0.0300	0.0003	0	0	0	0	0
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
None	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
None	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.30 sg
Connection gas	Nil
Trip gas	Nil
Background gas	Low levels. Slowly increasing trend with depth.
Dxc exponent	Minor cutback at 1650 mMDRT. No other cut backs observed.
ROP	Normal rates reflecting changes in formation.
Ditch cuttings	No splintery or pressure style cavings observed.
Mud temperature out	No indication of overpressure.
MWD resistivity	Resistivity generated pore pressure trends have not been greater than static mud weight equivalent pressure. Static mud weight and pore pressure balance was reached around 1665 and 1705 mMDRT due to formation changes. The static mud weight and resistivity generated trends were again approaching balance from 1880 to 2080 mMDRT due to linear resistivity values indicating under compaction in otherwise homogeneous formation. This was still below the ECD. No other abnormal pressure indications were seen. From 2100 to 2288 mMDRT predicted pore pressure has been below the static mud weight system.
Pore Pressure Estimate	~1.28 sg EMW at 2280 mMDRT (resistivity based pore pressure estimate from town support).

SAMPLE QUALITY

Good.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All equipment operating and functional.

MWD/LWD

Personnel: 3x LWD Engineers
2x Directional Drillers

Equipment: During the first shallow hole test RT communication to the sADN tool failed. The tool was broken out and laid down while checks were done on the sonic tool. After inspection the sonic was found to have a faulty extender. The sonic was laid out. The back-up sonic and sADN tools were picked up.

Sensor	Distance from Bit (m)
Pressure (Arc)	9.31
Resistivity(Arc)	10.03
Gamma Ray (Arc)	10.08
Vibration (TeleScope)	17.05
Direction & Inclination (TeleScope)	18.05
Delta T (sonic)	27.56
Ultrasonic (sADN)	33.34
Density (sADN)	33.51
Neutron (sADN)	35.49

WIRELINING

Personnel: 7 x wireline crew arrived on board today and commenced rigging up the wireline unit.

REMARKS

LWD PDF plots, LWD LAS data and BHI surface logging ascii data was supplied to town on the hour for real time pore pressure analysis.

Tracer will be added to the mud system at 2400 mMDRT.

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
1520-2260	10	None

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
1289	Mud
1289	Filtrate

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
1300	25 Oct 09	17:08	0.0065	Scheduled Sample
1400	25 Oct 09	20:31	0.0162	Scheduled Sample
1500	25 Oct 09	23:18	0.0285	Scheduled Sample
1600	26 Oct 09	02:38	0.0410	Scheduled Sample
1700	26 Oct 09	06:16	0.0780	Scheduled Sample
1800	26 Oct 09	09:55	0.1008	Scheduled Sample
1900	26 Oct 09	13:02	0.0310	Scheduled Sample
1980	26 Oct 09	15:33	0.0359	Scheduled Sample
2000	26 Oct 09	16:08	0.0400	Scheduled Sample
2050	26 Oct 09	17:28	0.0382	Scheduled Sample
2100	26 Oct 09	18:41	0.0505	Scheduled Sample
2150	26 Oct 09	20:14	0.0522	Scheduled Sample
2200	26 Oct 09	22:08	0.0514	Scheduled Sample
2250	26 Oct 09	22:43	0.0400	Scheduled Sample

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Date:	27 Oct 2009	Report Number:	11
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	2912 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	2288 mMDRT	Current Bit Size:	311 mm (12-1/2")
Progress:	624 m	FIT:	1.7 sg
Lag Depth:	2878 mMDRT	Mud Weight:	1.31 sg
Water Depth:	503.0 m LAT	ECD:	1.36 sg EMW
RT:	21.5 m	Mud Type:	Ultradrill
Last Survey Depth:	2863.33 mMDRT	Mud Chlorides:	52,000
Deviation:	Inc 1.15° Azi 160.56°	Est. Pore Press:	1.38 sg EMW @ ~2655 mMDRT

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Drilled 311 mm (12.25") vertical hole from 2288 to 2912 mMDRT. Flow checked well and closed in on kick. Weighed up kill mud to 1.5 sg (12.5ppg). Commenced pumping kill mud to bit.

NEXT 24 HOURS: Continue to circulate well to kill mud.

MIDNIGHT TO 0600hrs SUMMARY: Pumped 1.5 sg (12.5 ppg) kill mud down drill string. No mud returns while pumping. Rig was unable to follow step down chart with choke closed as DP pressure was constantly below calculated expectations. 25.6m3 (161 barrels) of 12.5ppg kill mud pumped surface to bit. With pumps shut off. SIDPP 40psi, SICP 710psi. Monitored well pressures while Drilling team assessed situation and reviewed remedial options.

CURRENT OPERATION @ 06:00hrs: Well closed in for well control operations.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 2260 to 2310 mMDRT
ROP (range): 16.6 to 72.6 m/hr
ROP (av): 35.6 m/hr

Massive SILTY CLAYSTONE with trace very thin CALCAREOUS CLAYSTONE stringers

SILTY CLAYSTONE (98 to 100%): dark grey, minor brownish grey to dark olive grey, soft to firm, amorphous to sub-blocky, 20 to 25% silt, trace very fine quartz grains, trace very fine glauconite specks, trace silty lithics.

CALCAREOUS CLAYSTONE (0 to 2%): mottled to patchy appearance, light brownish grey to brownish grey, in part white patches, soft to firm, trace moderately hard, in part brittle, sub-blocky to blocky, 20 to 25% calcareous, trace to 3% calcareous silt, trace calcareous fragments, trace to 5% dolomite cement, trace fossil fragments.

INTERVAL: 2310 to 2450 mMDRT
ROP (range): 16.6 to 77.3 m/hr
ROP (av): 42.2 m/hr

SILTY CLAYSTONE with very thin SANDSTONE interbeds

SILTY CLAYSTONE (85 to 100%): dark grey to olive black, olive grey to brownish grey, soft to firm, amorphous to sub-blocky, 20 to 25% silt, trace very fine quartz grains, trace very fine glauconite specks, trace silty lithics, trace mottled light olive grey moderate to strongly calcareous fragments, trace broken white fossil fragments.

SANDSTONE (0 to 15%): light grey, transparent to translucent quartz grains, loose, very fine grained, sub angular to rounded, sub elongate to sub spherical, very well to well sorted, argillaceous matrix in

part dispersive and washing out, trace-5% silt, 5% black lithic specks, trace glauconite, trace pyrite, poor to in parts fair inferred porosity, no hydrocarbon fluorescence.

INTERVAL: 2450 to 2610 mMDRT

ROP (range): 22.5 to 74.8 m/hr

ROP (av): 41.7 m/hr

Massive SILTY CLAYSTONE

SILTY CLAYSTONE (100%): dark grey to greyish black, dark grey to olive black, olive grey to brownish grey, soft to firm, amorphous to sub-blocky, 20 to 25% silt, trace very fine quartz grains, trace very fine glauconite specks, trace silty lithics, trace mottled light olive grey fragments, trace broken white calcareous fossil fragments.

INTERVAL: 2610 to 2670 mMDRT

ROP (range): 22.4 to 60.5 m/hr

ROP (av): 39.5 m/hr

Massive SILTY CLAYSTONE

SILTY CLAYSTONE (100%): dark olive grey to brownish grey, soft to firm, amorphous to sub-blocky, 20 to 25% silt, trace to 2% mottled light olive grey moderate to strongly calcareous claystone, trace to 1% very fine quartz grains, trace to 1% silt to very fine glauconite grains, trace very fine lithics.

INTERVAL: 2670 to 2760 mMDRT

ROP (range): 11.4 to 93.6 m/hr

ROP (av): 44.0 m/hr

Massive SILTY CLAYSTONE

SILTY CLAYSTONE: olive grey to brownish grey, soft, amorphous to sub-blocky, 20% silt, trace to 2% mottled light olive grey and moderate to strongly calcareous claystone (trace to 5% dolomite cement in part), trace very fine quartz grains, trace silt to very fine glauconite grains, trace dark specks.

INTERVAL: 2760 to 2817 mMDRT

ROP (range): 19.5 to 94.3 m/hr

ROP (av): 31.5 m/hr

SILTY CLAYSTONE with thin CLAYSTONE interbeds

SILTY CLAYSTONE (80 to 95%): olive grey to brownish grey, soft to firm, amorphous to sub-blocky, 20% silt, trace silt to very fine glauconite grains, trace dark specks (?coal/?lithics)

CLAYSTONE (5 to 20%): mottled light brownish grey to olive grey, firm to in part hard, in part brittle, sub-blocky to sub-fissile, 2 to 5% calcareous, 2 to 5% dolomite cement, trace white calcareous fragments(?fossil debris), trace streaks or laminations.

INTERVAL: 2817 to 2855 mMDRT

ROP (range): 8.2 to 61.5 m/hr

ROP (av): 30.7 m/hr

ARGILLACEOUS SANDSTONE interbedded with SILTY CLAYSTONE and minor CLAYSTONE

ARGILLACEOUS SANDSTONE (10 to 80%): white, clear to translucent quartz sand, predominantly loose disaggregated sand, soft to weakly friable aggregates, lower very fine to fine grained, well sorted, sub-angular to rounded, sub-spherical, 30 to 50% white clay matrix in aggregates (similar appearance to rockflour), weakly calcareous (see note below), trace black silt, poor visible porosity, poor inferred, no shows.

SILTY CLAYSTONE (10 to 80%): olive grey to brownish grey, soft to firm, amorphous to sub-blocky, 20% silt, trace silt to very fine glauconite grains, trace dark specks (?coal/?lithics) (largely clearing from above).

CLAYSTONE (Nil to 20%): mottled light brownish grey to olive grey, firm to in part hard, in part brittle, sub-blocky to sub-fissile, trace to 5% calcareous, 2 to 5% dolomite cement, trace to 1% white calcareous fragments(?fossil debris), trace streaks or laminations

(Note: CaCO₃ being added to active mud system).

INTERVAL: 2855 to 2878 mMDRT
ROP (range): 10.3 to 68.3 m/hr
ROP (av): 33.5 m/hr

SANDSTONE thinly interbedded with SILTY CLAYSTONE

SANDSTONE (10 to 70%): clear to translucent white and grey, trace white friable aggregates, predominantly loose disaggregated sand, very fine to very coarse, predominantly fine to medium, poor to moderately sorted, angular to sub-rounded, sub-spherical, 10% white/grey clay/silt matrix, trace to very fine black silt, in part trace reddish brown lithics, poor visible porosity, fair to good inferred porosity, no hydrocarbon fluorescence. (see note below)

SILTY CLAYSTONE (30 to 90%): medium dark grey to olive grey, soft to firm, amorphous to sub-blocky, 20 to 30% silt, trace silt to very fine glauconite grains, trace dark specks and flecks (?coal/?lithics)

(Note: CaCO₃ being added to the active mud system)

HYDROCARBON FLUORESCENCE

No hydrocarbon fluorescence.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
2260 – 2310	0.0389	0.0253	0.0004	0	0	0	0	0
2310 – 2450	0.1192	0.0790	0.0015	0.0006	0.0002	0	0	0
2450 – 2610	0.1426	0.0960	0.0024	0.0011	0.0003	0.0001	0	0
2610 – 2670	0.1281	0.0875	0.0026	0.0013	0.0003	0.0002	0	0
2670 – 2760	0.1144	0.0768	0.0026	0.0014	0.0003	0.0002	0	0
2760 – 2817	0.1150	0.0765	0.0031	0.0018	0.0003	0.0002	0	0
2817 – 2855	0.8129	0.5702	0.0135	0.0053	0.0005	0.0006	0.0002	0.0001
2855 – 2878	1.6022	1.4052	0.0324	0.0122	0.0011	0.0015	0.0004	0.0002
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
2843.5	1.5318	1.0560	0.0241	0.0089	0.0008	0.0010	0.0002	0.0001
2853.5	1.7679	1.1663	0.0270	0.0100	0.0009	0.0012	0.0003	0.0001
2855	2.6176	1.7572	0.0402	0.0150	0.0013	0.0017	0.0004	0.0002
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
None	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.31 sg
Connection gas	Nil
Trip gas	Nil
Background gas	Slowly increasing trend with depth. Associated with the increase in resistivity generated pore pressure above the static mud weight (from ~2520 to 2730 mMDRT) there was an observed increase in background gas levels from less than 0.1% to 0.11% to 0.19%.
Dxc exponent	Minor cutback at 1650 mMDRT. No other cut backs observed.
ROP	Normal rates reflecting changes in lithologies.
Ditch cuttings	No splintery or pressure style cavings observed.
Mud temperature out	No indication of overpressure.
MWD resistivity	The resistivity generated pore pressure trends were below or approaching the static mud weight from 2280 to 2470 mMDRT. From 2250 to 2295 and 2500 to 2520 mMDRT the static mud weight and resistivity generated pore pressure trends were approaching balance. Resistivity generated pore pressure trends were just above the static mud weight from 2480 to 2500 mMDRT. From ~2540 to 2730 mMDRT the resistivity generated pore pressure was greater than the static mud weight and was on average calculated to be 1.32 to 1.38 sg.

ITEM	REMARKS
Pore Pressure Estimate	Maximum 1.38 sg EMW at ~2655 mMDRT (resistivity generated pore pressure estimate from town support). From 2745 to 2820 mMDRT the resistivity derived pore pressure estimate was below the static mud weight.

SAMPLE QUALITY

Good.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All equipment operating and functional.

MWD/LWD

Personnel: 3x LWD Engineers
2x Directional Drillers

Equipment: All equipment functioned during drilling operations,

Sensor	Distance from Bit (m)
Pressure (Arc)	9.31
Resistivity(Arc)	10.03
Gamma Ray (Arc)	10.08
Vibration (TeleScope)	17.05
Direction & Inclination (TeleScope)	18.05
Delta T (sonic)	27.56
Ultrasonic (sADN)	33.34
Density (sADN)	33.51
Neutron (sADN)	35.49

WIRELINER

Personnel: 7 x wireline crew on board.

Equipment: The wireline unit was rigged up all equipment transferred on board. The tools for the "firm" case, VSI-GR and PSWC-GR Wireline runs have been successfully tested.

REMARKS

LWD PDF plots, LWD LAS data and BHI surface logging ascii data was provided to town on the hour for real time pore pressure analysis.

Calcium carbonate was added to the mud system from 2800mMDRT.

Tracer was added to the mud system at 2400 mMDRT.

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
2260 – 2810	10	None
2810 - 2875	5	None

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
1289	Mud
1289	Filtrate
2427	Mud (Tracer added)
2427	Filtrate
2820	Mud (Reservoir)
2820	Filtrate (Reservoir)

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
1300	25 Oct 09	17:08	0.0065	Scheduled Sample
1400	25 Oct 09	20:31	0.0162	Scheduled Sample
1500	25 Oct 09	23:18	0.0285	Scheduled Sample
1600	26 Oct 09	02:38	0.041	Scheduled Sample
1700	26 Oct 09	06:16	0.078	Scheduled Sample
1800	26 Oct 09	09:55	0.1008	Scheduled Sample
1900	26 Oct 09	13:02	0.031	Scheduled Sample
1980	26 Oct 09	15:33	0.0359	Scheduled Sample
2000	26 Oct 09	16:08	0.040	Scheduled Sample
2050	26 Oct 09	17:28	0.0382	Scheduled Sample
2100	26 Oct 09	18:41	0.0505	Scheduled Sample
2150	26 Oct 09	20:14	0.0522	Scheduled Sample
2200	26 Oct 09	22:08	0.0514	Scheduled Sample
2250	26 Oct 09	22:43	0.040	Scheduled Sample
2300	27 Oct 09	01:27	0.042	Scheduled Sample
2350	27 Oct 09	03:17	0.120	Scheduled Sample
2400	27 Oct 09	04:53	0.160	Scheduled Sample
2450	27 Oct 09	05:21	0.170	Scheduled Sample
2500	27 Oct 09	07:52	0.130	Scheduled Sample
2550	27 Oct 09	09:29	0.180	Scheduled Sample
2600	27 Oct 09	11:09	0.130	Scheduled Sample
2650	27 Oct 09	12:40	0.1285	Scheduled Sample
2700	27 Oct 09	14:44	0.1190	Scheduled Sample

2750	27 Oct 09	16:06	0.110	Scheduled Sample
2800	27 Oct 09	18:13	0.090	Scheduled Sample
2815	27 Oct 09	18:57	0.1131	Scheduled Sample
2820	27 Oct 09	19:10	0.1443	Scheduled Sample
2830	27 Oct 09	19:46	0.4673	Scheduled Sample
2840	27 Oct 09	20:04	1.2166	Scheduled Sample
2850	27 Oct 09	20:35	0.3151	Scheduled Sample
2855	27 Oct 09	20:48	2.80	Gas Peak
2860	27 Oct 09	20:48	1.37	Scheduled Sample
2870	27 Oct 09	21:20	1.49	Scheduled Sample
2880	28 Oct 09	00:35	0.044	Scheduled Sample

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Date:	28 Oct 2009	Report Number:	12
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	2912 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	2912 mMDRT	Current Bit Size:	311 mm (12-1/2")
Progress:	0 m	FIT:	1.7 sg
Lag Depth:	2889 mMDRT	Mud Weight:	1.5 sg
Water Depth:	503.0 m LAT	ECD:	N/A
RT:	21.5 m	Mud Type:	Ultradrill / Kill mud
Last Survey Depth:	2863.33 mMDRT	Mud Chlorides:	52,000
Deviation:	Inc 1.15° Azi 160.56°	Est. Pore Press:	> 1.5 sg EMW @ 2912 mMDRT

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: BOPs closed in on well kick. Circulated well to kill weight fluid.

NEXT 24 HOURS: Continue well kill operations.

MIDNIGHT TO 0600hrs SUMMARY: Continued well kill operations.

CURRENT OPERATION @ 06:00hrs: Monitor well pressure with well closed in.

GEOLOGICAL SUMMARY

LITHOLOGY

No new lithology drilled

HYDROCARBON FLUORESCENCE

No hydrocarbon fluorescence.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
2878 – 2899	0.037	0.0247	0.0007	0.0004	0	0	0	0
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
2886.76 (CO ₂)	24.7							
2886.93	2.45	2.2546	0.0534	0.0211	0.0020	0.0026	0.0007	0.0003
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
None	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	Well displaced with 1.5 sg kill mud
Connection gas	Nil
Trip gas	Nil
Background gas	Background gas increased from 2817 mMDRT.
Dxc exponent	Minor cutback at 1650 mMDRT. No other cut backs observed.
ROP	N/A
Ditch cuttings	No splintery or pressure style cavings observed.
Mud temperature out	No indication of overpressure.
MWD resistivity	The resistivity generated pore pressure trends were below or approaching the static mud weight from 2280 to 2470 mMDRT. From

ITEM	REMARKS
	2250 to 2295 and 2500 to 2520 mMDRT the static mud weight and resistivity generated pore pressure trends were approaching balance. Resistivity generated pore pressure trends were just above the static mud weight from 2480 to 2500 mMDRT. From ~2540 to 2730 mMDRT the resistivity generated pore pressure was greater than the static mud weight and was on average calculated to be 1.32 to 1.38 sg.
Pore Pressure Estimate	Maximum 1.38 sg EMW at ~2655 mMDRT (resistivity generated pore pressure estimate from town support). From 2745 to 2820 mMDRT the resistivity derived pore pressure estimate was below the static mud weight. From 2820 mMDRT no further pore pressure estimates were provided by town support. Influx shows bottom hole pore pressure is > 1.5 sg EMW.

SAMPLE QUALITY

No cuttings returns were observed after 2878 mMDRT, at which point the well was shut-in to monitor well flow. Very slow circulation rates (pump rate – 14 SPM) were established again. Mud flow was regained albeit with no cuttings return.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All equipment operating and functional.

MWD/LWD

Personnel: 3x LWD Engineers
2x Directional Drillers

Equipment: All equipment functioned ok during drilling operations. At 00:00 hours 29th October 2009 SLB MWD estimate that 20% battery life is remaining.

Sensor	Distance from Bit (m)
Pressure (Arc)	9.31
Resistivity(Arc)	10.03
Gamma Ray (Arc)	10.08
Vibration (TeleScope)	17.05
Direction & Inclination (TeleScope)	18.05
Delta T (sonic)	27.56
Ultrasonic (sADN)	33.34
Density (sADN)	33.51
Neutron (sADN)	35.49

WIRELINE

Personnel: 7 x wireline crew on board.

Equipment: Wireline crew have successfully tested FMI, Neutron, PEX, HLA, Sonic and Spectral GR tools for success case run 1. The free point indicator tool, back-off tool and pipe severing tool were also checked. The MDT tool is currently being checked whilst the mechanical sidewall coring tool remains to be checked.

REMARKS

CO₂ gas peaked at 24.7% whilst circulating kill mud at 2886.76 mMDRT (17:30 hours 28th October 2009).

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
2260 – 2810	10	None
2810 - 2875	5	None
2875 – 2878	3	None
2878 – 2899	N/A	No cuttings sample returns

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
1289	Mud
1289	Filtrate
2427	Mud (Tracer added)
2427	Filtrate
2820	Mud (Reservoir)
2820	Filtrate (Reservoir)

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
1300	25 Oct 09	17:08	0.0065	Scheduled Sample
1400	25 Oct 09	20:31	0.0162	Scheduled Sample
1500	25 Oct 09	23:18	0.0285	Scheduled Sample
1600	26 Oct 09	02:38	0.041	Scheduled Sample
1700	26 Oct 09	06:16	0.078	Scheduled Sample
1800	26 Oct 09	09:55	0.1008	Scheduled Sample
1900	26 Oct 09	13:02	0.031	Scheduled Sample
1980	26 Oct 09	15:33	0.0359	Scheduled Sample
2000	26 Oct 09	16:08	0.040	Scheduled Sample
2050	26 Oct 09	17:28	0.0382	Scheduled Sample
2100	26 Oct 09	18:41	0.0505	Scheduled Sample
2150	26 Oct 09	20:14	0.0522	Scheduled Sample
2200	26 Oct 09	22:08	0.0514	Scheduled Sample
2250	26 Oct 09	22:43	0.040	Scheduled Sample
2300	27 Oct 09	01:27	0.042	Scheduled Sample
2350	27 Oct 09	03:17	0.120	Scheduled Sample
2400	27 Oct 09	04:53	0.160	Scheduled Sample
2450	27 Oct 09	05:21	0.170	Scheduled Sample
2500	27 Oct 09	07:52	0.130	Scheduled Sample
2550	27 Oct 09	09:29	0.180	Scheduled Sample

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2600	27 Oct 09	11:09	0.130	Scheduled Sample
2650	27 Oct 09	12:40	0.1285	Scheduled Sample
2700	27 Oct 09	14:44	0.1190	Scheduled Sample
2750	27 Oct 09	16:06	0.110	Scheduled Sample
2800	27 Oct 09	18:13	0.090	Scheduled Sample
2815	27 Oct 09	18:57	0.1131	Scheduled Sample
2820	27 Oct 09	19:10	0.1443	Scheduled Sample
2830	27 Oct 09	19:46	0.4673	Scheduled Sample
2840	27 Oct 09	20:04	1.2166	Scheduled Sample
2850	27 Oct 09	20:35	0.3151	Scheduled Sample
2855	27 Oct 09	20:48	2.80	Gas Peak
2860	27 Oct 09	20:48	1.37	Scheduled Sample
2870	27 Oct 09	21:20	1.49	Scheduled Sample
2880	28 Oct 09	00:35	0.044	Scheduled Sample
2881.6	28 Oct 09	08:10	0.203	Bleed of choke line
2881.6	28 Oct 09	08:24	1.160	Bleed of choke line
2885.4	28 Oct 09	16:48	1.94	Circ. with kill mud
2889.5	28 Oct 09	19:10	1.04	Circ. with kill mud

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Date:	29 Oct 2009	Report Number:	13
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	2912 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	2912 mMDRT	Current Bit Size:	311 mm (12-1/2")
Progress:	0 m	FIT:	1.7 sg
Lag Depth:	2878 mMDRT	Mud Weight:	1.5 sg
Water Depth:	503.0 m LAT	ECD:	N/A
RT:	21.5 m	Mud Type:	Ultradrill / Kill mud
Last Survey Depth:	2863.33 mMDRT	Mud Chlorides:	47,000
Deviation:	Inc 1.15° Azi 160.56°	Est. Pore Press:	> 1.50 sg EMW @ ~2912 mMDRT

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Continued well control operations.

NEXT 24 HOURS: Continue well control operations.

MIDNIGHT TO 0600hrs SUMMARY: Continued well control operations.

CURRENT OPERATION @ 06:00hrs: Circulating well with kill weight fluid.

GEOLOGICAL SUMMARY

LITHOLOGY

No new formation drilled

HYDROCARBON FLUORESCENCE

No hydrocarbon fluorescence.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
None	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.5 sg
Connection gas	Nil
Trip gas	Nil
Background gas	Background gas increased from 2817 mMDRT.
Dxc exponent	Minor cutback at 1650 mMDRT. No other cut backs observed.
ROP	N/A
Ditch cuttings	No splintery or pressure style cavings observed.
Mud temperature out	No indication of overpressure.
MWD resistivity	The resistivity generated pore pressure trends were below or approaching the static mud weight from 2280 to 2470 mMDRT. From 2250 to 2295 and 2500 to 2520 mMDRT the static mud weight and

ITEM	REMARKS
	resistivity generated pore pressure trends were approaching balance. Resistivity generated pore pressure trends were just above the static mud weight from 2480 to 2500 mMDRT. From ~2540 to 2730 mMDRT the resistivity generated pore pressure was greater than the static mud weight and was on average calculated to be 1.32 to 1.38 sg.
Pore Pressure Estimate	Maximum 1.38 sg EMW at ~2655 mMDRT (resistivity generated pore pressure estimate from town support). From 2745 to 2820 mMDRT the resistivity derived pore pressure estimate was below the static mud weight. From 2820 mMDRT no further pore pressure estimates were provided by town support. Influx shows bottom hole pore pressure is > 1.5 sg EMW.

SAMPLE QUALITY

No cuttings returned.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All equipment operating and functional.

MWD/LWD

Personnel: 3x LWD Engineers
2x Directional Drillers

Equipment: All equipment functioned ok during drilling operations. At 00:00 hours 30th October 2009 SLB MWD estimates that approximately 5% battery life is remaining.

Sensor	Distance from Bit (m)
Pressure (Arc)	9.31
Resistivity(Arc)	10.03
Gamma Ray (Arc)	10.08
Vibration (TeleScope)	17.05
Direction & Inclination (TeleScope)	18.05
Delta T (sonic)	27.56
Ultrasonic (sADN)	33.34
Density (sADN)	33.51
Neutron (sADN)	35.49

WIRELINER

Personnel: 7 x wireline crew on board.

Equipment: All tools have been packed into their tool baskets. Maintenance on the Wireline logging unit was performed.

REMARKS

None

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
2260 – 2810	10	None
2810 - 2875	5	None
2875 – 2878	3	None
2878 – 2899	N/A	No cuttings sample returns

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
1289	Mud
1289	Filtrate
2427	Mud (Tracer added)
2427	Filtrate
2820	Mud (Reservoir)
2820	Filtrate (Reservoir)
2900	Mud
2900	Filtrate

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
1300	25 Oct 09	17:08	0.0065	Scheduled Sample
1400	25 Oct 09	20:31	0.0162	Scheduled Sample
1500	25 Oct 09	23:18	0.0285	Scheduled Sample
1600	26 Oct 09	02:38	0.041	Scheduled Sample
1700	26 Oct 09	06:16	0.078	Scheduled Sample
1800	26 Oct 09	09:55	0.1008	Scheduled Sample
1900	26 Oct 09	13:02	0.031	Scheduled Sample
1980	26 Oct 09	15:33	0.0359	Scheduled Sample
2000	26 Oct 09	16:08	0.040	Scheduled Sample
2050	26 Oct 09	17:28	0.0382	Scheduled Sample
2100	26 Oct 09	18:41	0.0505	Scheduled Sample
2150	26 Oct 09	20:14	0.0522	Scheduled Sample
2200	26 Oct 09	22:08	0.0514	Scheduled Sample
2250	26 Oct 09	22:43	0.040	Scheduled Sample
2300	27 Oct 09	01:27	0.042	Scheduled Sample
2350	27 Oct 09	03:17	0.120	Scheduled Sample
2400	27 Oct 09	04:53	0.160	Scheduled Sample
2450	27 Oct 09	05:21	0.170	Scheduled Sample
2500	27 Oct 09	07:52	0.130	Scheduled Sample

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2550	27 Oct 09	09:29	0.180	Scheduled Sample
2600	27 Oct 09	11:09	0.130	Scheduled Sample
2650	27 Oct 09	12:40	0.1285	Scheduled Sample
2700	27 Oct 09	14:44	0.1190	Scheduled Sample
2750	27 Oct 09	16:06	0.110	Scheduled Sample
2800	27 Oct 09	18:13	0.090	Scheduled Sample
2815	27 Oct 09	18:57	0.1131	Scheduled Sample
2820	27 Oct 09	19:10	0.1443	Scheduled Sample
2830	27 Oct 09	19:46	0.4673	Scheduled Sample
2840	27 Oct 09	20:04	1.2166	Scheduled Sample
2850	27 Oct 09	20:35	0.3151	Scheduled Sample
2855	27 Oct 09	20:48	2.80	Gas Peak
2860	27 Oct 09	20:48	1.37	Scheduled Sample
2870	27 Oct 09	21:20	1.49	Scheduled Sample
2880	28 Oct 09	00:35	0.044	Scheduled Sample
2881.6	28 Oct 09	08:10	0.203	Bleed of choke line
2881.6	28 Oct 09	08:24	1.160	Bleed of choke line
2885.4	28 Oct 09	16:48	1.94	Circ. with kill mud
2890	28 Oct 09	19:10	1.04	Circ. with kill mud
2900	29 Oct 09	04:15	0.03	Circ. with kill mud

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Date:	30 Oct 2009	Report Number:	14
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	2912 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	2912 mMDRT	Current Bit Size:	311 mm (12-1/2")
Progress:	0 m	FIT:	1.7 sg
Lag Depth:	2878 mMDRT	Mud Weight:	1.58 sg
Water Depth:	503.0 m LAT	ECD:	N/A
RT:	21.5 m	Mud Type:	Ultradrill / Kill mud
Last Survey Depth:	2863.33 mMDRT	Mud Chlorides:	45,000
Deviation:	Inc 1.15° Azi 160.56°	Est. Pore Press:	1.38sg EMW @ ~2655 mMDRT

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Completed circulating well to 1.5 sg (12.5 ppg) kill weight mud. Shut in choke and monitored pressures. Circulated well to 1.58 sg (13.2 ppg) kill weight mud. Shut in choke and monitored pressures.

NEXT 24 HOURS: Complete riser displacement. Lubricate fluids under annular BOP. Open BOPs and circulate hole clean.

MIDNIGHT TO 0600hrs SUMMARY: Attempted to bleed 7.9 m3 (50 bbls) from choke. Total volume returned after 1hr = 0.5 m3 (3bbls). Shut in choke and monitored pressures. Lined up to displace riser to 1.58 sg (13.2 ppg) mud. Displaced riser to 1.58 sg (13.2 ppg) mud.

CURRENT OPERATION @ 06:00hrs: Displacing riser to 1.58 sg (13.2 ppg) kill weight mud.

GEOLOGICAL SUMMARY

LITHOLOGY

No new formation drilled.

HYDROCARBON FLUORESCENCE

No hydrocarbon fluorescence.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
None	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.58 sg
Connection gas	Nil
Trip gas	Nil
Background gas	Background gas increased from 2817 mMDRT.
Dxc exponent	Minor cutback at 1650 mMDRT. No other cut backs observed.
ROP	N/A
Ditch cuttings	No splintery or pressure style cavings observed.

ITEM	REMARKS
Mud temperature out	No indication of overpressure.
MWD resistivity	The resistivity generated pore pressure trends were below or approaching the static mud weight from 2280 to 2470 mMDRT. From 2250 to 2295 and 2500 to 2520 mMDRT the static mud weight and resistivity generated pore pressure trends were approaching balance. Resistivity generated pore pressure trends were just above the static mud weight from 2480 to 2500 mMDRT. From ~2540 to 2730 mMDRT the resistivity generated pore pressure was greater than the static mud weight and was on average calculated to be 1.32 to 1.38 sg.
Pore Pressure Estimate	Maximum 1.38 sg EMW at ~2655 mMDRT (resistivity generated pore pressure estimate from town support). From 2745 to 2820 mMDRT the resistivity derived pore pressure estimate was below the static mud weight. From 2820 mMDRT no further pore pressure estimates were provided by town support.

SAMPLE QUALITY

No cuttings returned. Bagged samples to date are still drying.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All equipment operating and functional.

MWD/LWD

Personnel: 3x LWD Engineers
2x Directional Drillers

Equipment: All equipment functioned well during drilling operations. Batteries are expected to be fully depleted at present.

Sensor	Distance from Bit (m)
Pressure (Arc)	9.31
Resistivity(Arc)	10.03
Gamma Ray (Arc)	10.08
Vibration (TeleScope)	17.05
Direction & Inclination (TeleScope)	18.05
Delta T (sonic)	27.56
Ultrasonic (sADN)	33.34
Density (sADN)	33.51
Neutron (sADN)	35.49

WIRELINE

Personnel: 3x wireline crew on board.

Equipment: All surplus tools have been packed into their relevant baskets and off-loaded to the boat.

REMARKS

None

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
2260 – 2810	10	None
2810 - 2875	5	None
2875 – 2878	3	None
2878 – 2912	N/A	No cuttings sample returns

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
1289	Mud
1289	Filtrate
2427	Mud (Tracer added)
2427	Filtrate
2820	Mud (Reservoir)
2820	Filtrate (Reservoir)
2900	Mud
2900	Filtrate

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
1300	25 Oct 09	17:08	0.0065	Scheduled Sample
1400	25 Oct 09	20:31	0.0162	Scheduled Sample
1500	25 Oct 09	23:18	0.0285	Scheduled Sample
1600	26 Oct 09	02:38	0.041	Scheduled Sample
1700	26 Oct 09	06:16	0.078	Scheduled Sample
1800	26 Oct 09	09:55	0.1008	Scheduled Sample
1900	26 Oct 09	13:02	0.031	Scheduled Sample
1980	26 Oct 09	15:33	0.0359	Scheduled Sample
2000	26 Oct 09	16:08	0.040	Scheduled Sample
2050	26 Oct 09	17:28	0.0382	Scheduled Sample
2100	26 Oct 09	18:41	0.0505	Scheduled Sample
2150	26 Oct 09	20:14	0.0522	Scheduled Sample
2200	26 Oct 09	22:08	0.0514	Scheduled Sample
2250	26 Oct 09	22:43	0.040	Scheduled Sample
2300	27 Oct 09	01:27	0.042	Scheduled Sample
2350	27 Oct 09	03:17	0.120	Scheduled Sample
2400	27 Oct 09	04:53	0.160	Scheduled Sample
2450	27 Oct 09	05:21	0.170	Scheduled Sample
2500	27 Oct 09	07:52	0.130	Scheduled Sample
2550	27 Oct 09	09:29	0.180	Scheduled Sample
2600	27 Oct 09	11:09	0.130	Scheduled Sample

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2650	27 Oct 09	12:40	0.1285	Scheduled Sample
2700	27 Oct 09	14:44	0.1190	Scheduled Sample
2750	27 Oct 09	16:06	0.110	Scheduled Sample
2800	27 Oct 09	18:13	0.090	Scheduled Sample
2815	27 Oct 09	18:57	0.1131	Scheduled Sample
2820	27 Oct 09	19:10	0.1443	Scheduled Sample
2830	27 Oct 09	19:46	0.4673	Scheduled Sample
2840	27 Oct 09	20:04	1.2166	Scheduled Sample
2850	27 Oct 09	20:35	0.3151	Scheduled Sample
2855	27 Oct 09	20:48	2.80	Gas Peak
2860	27 Oct 09	20:48	1.37	Scheduled Sample
2870	27 Oct 09	21:20	1.49	Scheduled Sample
2880	28 Oct 09	00:35	0.044	Scheduled Sample
2881.6	28 Oct 09	08:10	0.203	Bleed of choke line
2881.6	28 Oct 09	08:24	1.160	Bleed of choke line
2885.4	28 Oct 09	16:48	1.94	Circ. with kill mud
2890	28 Oct 09	19:10	1.04	Circ. with kill mud
2900	29 Oct 09	04:15	0.03	Circ. with kill mud

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Date:	31 Oct 2009	Report Number:	15
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	2912 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	2912 mMDRT	Current Bit Size:	311 mm (12-1/2")
Progress:	0 m	FIT:	1.7 sg
Lag Depth:	2878 mMDRT	Mud Weight:	1.7 sg
Water Depth:	503.0 m LAT	ECD:	N/A
RT:	21.5 m	Mud Type:	Ultradrill / Kill mud
Last Survey Depth:	2863.33 mMDRT	Mud Chlorides:	41,000
Deviation:	Inc 1.15° Azi 160.56°	Est. Pore Press:	1.38sg EMW @ ~2655 mMDRT

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT:	Displaced riser to 1.58sg (13.2ppg). Bled off choke and kill pressures with minimal returns. Flushed BOPs and displaced choke & kill lines to 1.58sg (13.2ppg). Commenced hole displacement to 1.7sg (14.2ppg) down drill string and up riser.
NEXT 24 HOURS:	Complete circulating hole to 1.7sg (14.2ppg) mud. Flow check well. Pump out of hole to shoe and flow check again.
MIDNIGHT TO 0600hrs SUMMARY:	Continued well displacement to 1.7sg (14.2ppg) mud at 636L/min (4bpm). Rotated and reciprocated pipe 70 rpm, 2 kftlbs torque, 159mt (350klbs) RT weight, 159mt (350klbs) S/O weight, 163mt (360klbs) P/U weight. Pump pressure increased steadily as 1.7sg (14.2ppg) mud circulated up annulus.
CURRENT OPERATION @ 06:00hrs:	Circulating hole to 1.7sg (14.2ppg) mud.

GEOLOGICAL SUMMARY

LITHOLOGY

No new formation drilled.

HYDROCARBON FLUORESCENCE

No hydrocarbon fluorescence.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
None	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.7 sg
Connection gas	Nil
Trip gas	Nil
Background gas	Background gas increased from 2817 mMDRT.
Dxc exponent	Minor cutback at 1650 mMDRT. No other cut backs observed.

ITEM	REMARKS
ROP	N/A
Ditch cuttings	No splintery or pressure style cavings observed.
Mud temperature out	No indication of overpressure.
MWD resistivity	The resistivity generated pore pressure trends were below or approaching the static mud weight from 2280 to 2470 mMDRT. From 2250 to 2295 and 2500 to 2520 mMDRT the static mud weight and resistivity generated pore pressure trends were approaching balance. Resistivity generated pore pressure trends were just above the static mud weight from 2480 to 2500 mMDRT. From ~2540 to 2730 mMDRT the resistivity generated pore pressure was greater than the static mud weight and was on average calculated to be 1.32 to 1.38 sg.
Pore Pressure Estimate	Maximum 1.38 sg EMW at ~2655 mMDRT (resistivity generated pore pressure estimate from town support). From 2745 to 2820 mMDRT the resistivity derived pore pressure estimate was below the static mud weight. From 2820 mMDRT no further pore pressure estimates were provided by town support.

SAMPLE QUALITY

No new cuttings returned. Bagged samples to date are still drying.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All equipment operating and functional.

MWD/LWD

Personnel: 3x LWD Engineers
2x Directional Drillers

Equipment: All equipment functioned well during drilling operations. Batteries are expected to be fully depleted at present.

Sensor	Distance from Bit (m)
Pressure (Arc)	9.31
Resistivity(Arc)	10.03
Gamma Ray (Arc)	10.08
Vibration (TeleScope)	17.05
Direction & Inclination (TeleScope)	18.05
Delta T (sonic)	27.56
Ultrasonic (sADN)	33.34
Density (sADN)	33.51
Neutron (sADN)	35.49

WIRELINER

Personnel: 3x wireline crew on board.

Equipment: All surplus tools have been packed into their relevant baskets and off-loaded to the boat. Free point indicator and back-off tool on board.

REMARKS

None

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD		0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
2260 – 2810	10	None
2810 - 2875	5	None
2875 – 2878	3	None
2878 – 2912	N/A	No cuttings sample returns

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
1289	Mud
1289	Filtrate
2427	Mud (Tracer added)
2427	Filtrate
2820	Mud (Reservoir)
2820	Filtrate (Reservoir)
2900	Mud
2900	Filtrate

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
1300	25 Oct 09	17:08	0.0065	Scheduled Sample
1400	25 Oct 09	20:31	0.0162	Scheduled Sample
1500	25 Oct 09	23:18	0.0285	Scheduled Sample
1600	26 Oct 09	02:38	0.041	Scheduled Sample
1700	26 Oct 09	06:16	0.078	Scheduled Sample
1800	26 Oct 09	09:55	0.1008	Scheduled Sample
1900	26 Oct 09	13:02	0.031	Scheduled Sample
1980	26 Oct 09	15:33	0.0359	Scheduled Sample
2000	26 Oct 09	16:08	0.040	Scheduled Sample
2050	26 Oct 09	17:28	0.0382	Scheduled Sample
2100	26 Oct 09	18:41	0.0505	Scheduled Sample
2150	26 Oct 09	20:14	0.0522	Scheduled Sample
2200	26 Oct 09	22:08	0.0514	Scheduled Sample
2250	26 Oct 09	22:43	0.040	Scheduled Sample
2300	27 Oct 09	01:27	0.042	Scheduled Sample
2350	27 Oct 09	03:17	0.120	Scheduled Sample
2400	27 Oct 09	04:53	0.160	Scheduled Sample
2450	27 Oct 09	05:21	0.170	Scheduled Sample
2500	27 Oct 09	07:52	0.130	Scheduled Sample

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2550	27 Oct 09	09:29	0.180	Scheduled Sample
2600	27 Oct 09	11:09	0.130	Scheduled Sample
2650	27 Oct 09	12:40	0.1285	Scheduled Sample
2700	27 Oct 09	14:44	0.1190	Scheduled Sample
2750	27 Oct 09	16:06	0.110	Scheduled Sample
2800	27 Oct 09	18:13	0.090	Scheduled Sample
2815	27 Oct 09	18:57	0.1131	Scheduled Sample
2820	27 Oct 09	19:10	0.1443	Scheduled Sample
2830	27 Oct 09	19:46	0.4673	Scheduled Sample
2840	27 Oct 09	20:04	1.2166	Scheduled Sample
2850	27 Oct 09	20:35	0.3151	Scheduled Sample
2855	27 Oct 09	20:48	2.80	Gas Peak
2860	27 Oct 09	20:48	1.37	Scheduled Sample
2870	27 Oct 09	21:20	1.49	Scheduled Sample
2880	28 Oct 09	00:35	0.044	Scheduled Sample
2881.6	28 Oct 09	08:10	0.203	Bleed of choke line
2881.6	28 Oct 09	08:24	1.160	Bleed of choke line
2885.4	28 Oct 09	16:48	1.94	Circ. with kill mud
2890	28 Oct 09	19:10	1.04	Circ. with kill mud
2900	29 Oct 09	04:15	0.03	Circ. with kill mud

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Date:	01 Nov 2009	Report Number:	16
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	2912 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	2912 mMDRT	Current Bit Size:	311 mm (12-1/2")
Progress:	0 m	FIT:	1.7 sg
Lag Depth:	2878 mMDRT	Mud Weight:	1.7 sg
Water Depth:	503.0 m LAT	ECD:	N/A
RT:	21.5 m	Mud Type:	Ultradrill / Kill mud
Last Survey Depth:	2863.33 mMDRT	Mud Chlorides:	44,000
Deviation:	Inc 1.15° Azi 160.56°	Est. Pore Press:	1.38sg EMW @ ~2655 mMDRT. > 1.50 sg EMW @ ~2912 mMDRT

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Completed hole displacement to 1.7 sg (14.2 ppg) mud. Flow checked well. Pumped out of hole to 1321 mMDRT. Lost circulation at 1321 mMDRT. Pumped 201 barrels to re-establish circulation. Continued to pump out of hole after flow check above shoe at 1273 mMDRT.

NEXT 24 HOURS: POOH and rack back 311 mm (12.25") BHA. Download RM LWD data. RIH with 127 mm (5") drill pipe to TD. Set barite plugs across the reservoir. Plug and abandon well.

MIDNIGHT TO 0600hrs SUMMARY: Pumped out of hole from 1244 to 800 mMDRT. Flow checked well below BOPs – well static. Commenced pumping out of hole to 780 mMDRT. Experienced major losses. Pumped 1.58 sg (13.2 ppg) mud down booster line to regain full mud column. Flow checked well at 780 mMDRT – well static. While monitoring on trip tank major losses occurred again. Pumped 1.5 sg (12.5 ppg) and simultaneously top filled riser with sea water from trip tank to fill hole.

CURRENT OPERATION @ 06:00hrs: Monitoring static losses at bit depth 780 mMDRT.

GEOLOGICAL SUMMARY

LITHOLOGY

No new formation drilled.

HYDROCARBON FLUORESCENCE

No hydrocarbon fluorescence.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
None	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.7 sg
Connection gas	Nil

ITEM	REMARKS
Trip gas	Nil
Background gas	Background gas increased from 2817 mMDRT.
Dxc exponent	Minor cutback at 1650 mMDRT. No other cut backs observed.
ROP	N/A
Ditch cuttings	No splintery or pressure style cavings observed.
Mud temperature out	No indication of overpressure.
MWD resistivity	The resistivity generated pore pressure trends were below or approaching the static mud weight from 2280 to 2470 mMDRT. From 2250 to 2295 and 2500 to 2520 mMDRT the static mud weight and resistivity generated pore pressure trends were approaching balance. Resistivity generated pore pressure trends were just above the static mud weight from 2480 to 2500 mMDRT. From ~2540 to 2730 mMDRT the resistivity generated pore pressure was greater than the static mud weight and was on average calculated to be 1.32 to 1.38 sg.
Pore Pressure Estimate	Maximum 1.38 sg EMW at ~2655 mMDRT (resistivity generated pore pressure estimate from town support). From 2745 to 2820 mMDRT the resistivity derived pore pressure estimate was below the static mud weight. From 2820 mMDRT no further pore pressure estimates were provided by town support. Influx shows bottom hole pore pressure is > 1.5 sg EMW.

SAMPLE QUALITY

No new cuttings returned. Bagged samples are packed up and ready to be packed to town where they will be split.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 4x Mudloggers (sharing sample catching duties).

Equipment: All equipment operating and functional.

MWD/LWD

Personnel: 3x LWD Engineers
2x Directional Drillers

Equipment: Pump rates whilst circulating (170gpm) were too low to initiate tools (600gpm required).

Sensor	Distance from Bit (m)
Pressure (Arc)	9.31
Resistivity(Arc)	10.03
Gamma Ray (Arc)	10.08
Vibration (TeleScope)	17.05
Direction & Inclination (TeleScope)	18.05
Delta T (sonic)	27.56
Ultrasonic (sADN)	33.34
Density (sADN)	33.51
Neutron (sADN)	35.49

WIRELINER

Personnel: 3x wireline crew on board. Personnel are scheduled to depart the rig on Monday 2nd November 2009.

Equipment: All surplus tools have been packed into their relevant baskets and off-loaded to the boat. Free point indicator and back-off tool on board.

WELLSITE GEOLOGISTS

David Hartney / Todd Teasdale

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD	2912.0	0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
2260 – 2810	10	None
2810 - 2875	5	None
2875 – 2878	3	None
2878 – 2912	N/A	No cuttings sample returns

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
1289	Mud
1289	Filtrate
2427	Mud (Tracer added)
2427	Filtrate
2820	Mud (Reservoir)
2820	Filtrate (Reservoir)
2900	Mud
2900	Filtrate

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
1300	25 Oct 09	17:08	0.0065	Scheduled Sample
1400	25 Oct 09	20:31	0.0162	Scheduled Sample
1500	25 Oct 09	23:18	0.0285	Scheduled Sample
1600	26 Oct 09	02:38	0.041	Scheduled Sample
1700	26 Oct 09	06:16	0.078	Scheduled Sample
1800	26 Oct 09	09:55	0.1008	Scheduled Sample
1900	26 Oct 09	13:02	0.031	Scheduled Sample
1980	26 Oct 09	15:33	0.0359	Scheduled Sample
2000	26 Oct 09	16:08	0.040	Scheduled Sample
2050	26 Oct 09	17:28	0.0382	Scheduled Sample
2100	26 Oct 09	18:41	0.0505	Scheduled Sample
2150	26 Oct 09	20:14	0.0522	Scheduled Sample
2200	26 Oct 09	22:08	0.0514	Scheduled Sample
2250	26 Oct 09	22:43	0.040	Scheduled Sample
2300	27 Oct 09	01:27	0.042	Scheduled Sample
2350	27 Oct 09	03:17	0.120	Scheduled Sample
2400	27 Oct 09	04:53	0.160	Scheduled Sample
2450	27 Oct 09	05:21	0.170	Scheduled Sample
2500	27 Oct 09	07:52	0.130	Scheduled Sample

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2550	27 Oct 09	09:29	0.180	Scheduled Sample
2600	27 Oct 09	11:09	0.130	Scheduled Sample
2650	27 Oct 09	12:40	0.1285	Scheduled Sample
2700	27 Oct 09	14:44	0.1190	Scheduled Sample
2750	27 Oct 09	16:06	0.110	Scheduled Sample
2800	27 Oct 09	18:13	0.090	Scheduled Sample
2815	27 Oct 09	18:57	0.1131	Scheduled Sample
2820	27 Oct 09	19:10	0.1443	Scheduled Sample
2830	27 Oct 09	19:46	0.4673	Scheduled Sample
2840	27 Oct 09	20:04	1.2166	Scheduled Sample
2850	27 Oct 09	20:35	0.3151	Scheduled Sample
2855	27 Oct 09	20:48	2.80	Gas Peak
2860	27 Oct 09	20:48	1.37	Scheduled Sample
2870	27 Oct 09	21:20	1.49	Scheduled Sample
2880	28 Oct 09	00:35	0.044	Scheduled Sample
2881.6	28 Oct 09	08:10	0.203	Bleed of choke line
2881.6	28 Oct 09	08:24	1.160	Bleed of choke line
2885.4	28 Oct 09	16:48	1.94	Circ. with kill mud
2890	28 Oct 09	19:10	1.04	Circ. with kill mud
2900	29 Oct 09	04:15	0.03	Circ. with kill mud

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Date:	02 Nov 2009	Report Number:	17
Report Period:	0000-2400 Hours	Last Casing Shoe:	1278.6 mMDRT
Depth @ 2400hrs:	2912 mMDRT	Last Casing Size:	340 mm (13-3/8")
Previous 2400hr depth:	2912 mMDRT	Current Bit Size:	311 mm (12-1/2")
Progress:	0 m	FIT:	1.7 sg
Lag Depth:	2878 mMDRT	Mud Weight:	1.7 sg
Water Depth:	503.0 m LAT	ECD:	N/A
RT:	21.5 m	Mud Type:	Ultradrill / Kill mud
Last Survey Depth:	2863.33 mMDRT	Mud Chlorides:	38,000
Deviation:	Inc 1.15° Azi 160.56°	Est. Pore Press:	1.38sg EMW @ ~2655 mMDRT > 1.50 sg EMW @ ~2912 mMDRT

OPERATIONS SUMMARY

24 HOUR SUMMARY TO MIDNIGHT: Completed pumping out of hole. Experienced major losses below the shoe. Re-established circulation with 1.58 sg (13.2 ppg) mud down riser booster line while simultaneously filling with sea water. Racked back the 311 mm (12.25") BHA in the derrick. RIH to shoe with 127 mm (5") drill pipe.

NEXT 24 HOURS: Plug and abandon well.

MIDNIGHT TO 0600hrs SUMMARY: POOH with 127 mm (5") HWDP and laid out same. RIH with 127 mm (5") DP from 1103 to 1247 mMDRT. Waited on barite from the Lewek Emerald support vessel. Pumped an LCM pill. POOH from 1247 to 1103 mMDRT to above the LCM pill. Continued to wait on barite from the Lewek Emerald support vessel. Prepared for cementing operations.

CURRENT OPERATION @ 06:00hrs: Waiting on weather, unable to receive barite from the Lewek Emerald support vessel.

GEOLOGICAL SUMMARY

LITHOLOGY

No new formation drilled.

HYDROCARBON FLUORESCENCE

No hydrocarbon fluorescence.

GAS SUMMARY

Background	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Peaks	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	iC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-
Connection	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
None	-	-	-	-	-	-	-	-
Trip	Total GAS (%)	C1 (%)	C2 (%)	C3 (%)	IC4 (%)	NC4 (%)	IC5 (%)	NC5 (%)
N/A	-	-	-	-	-	-	-	-

FORMATION PRESSURE ESTIMATION

ITEM	REMARKS
Mud weight	1.7 sg
Connection gas	Nil
Trip gas	Nil
Background gas	Background gas increased from 2817 mMDRT.

ITEM	REMARKS
Dxc exponent	Minor cutback at 1650 mMDRT. No other cut backs observed.
ROP	N/A
Ditch cuttings	No splintery or pressure style cavings observed.
Mud temperature out	No indication of overpressure.
MWD resistivity	The resistivity generated pore pressure trends were below or approaching the static mud weight from 2280 to 2470 mMDRT. From 2250 to 2295 and 2500 to 2520 mMDRT the static mud weight and resistivity generated pore pressure trends were approaching balance. Resistivity generated pore pressure trends were just above the static mud weight from 2480 to 2500 mMDRT. From ~2540 to 2730 mMDRT the resistivity generated pore pressure was greater than the static mud weight and was on average calculated to be 1.32 to 1.38 sg.
Pore Pressure Estimate	Maximum 1.38 sg EMW at ~2655 mMDRT (resistivity generated pore pressure estimate from town support). From 2745 to 2820 mMDRT the resistivity derived pore pressure estimate was below the static mud weight. From 2820 mMDRT no further pore pressure estimates were provided by town support. Influx shows bottom hole pore pressure is > 1.5 sg EMW.

SAMPLE QUALITY

Bagged samples are packed up and ready to be shipped to town where they will be split.

MUDLOGGING EQUIPMENT/PERSONNEL

Personnel: 2x Data Engineers, 2x Mudloggers. 2x Mudloggers are schedule to depart the rig on 3rd November 2009.

Equipment: All equipment operating and functional.

MWD/LWD

Personnel: 3x LWD Engineers.

REMARKS

This is the final Daily Geological Report for Somerset-1.

WELLSITE GEOLOGISTS

David Hartney

DEPTH TABLE

	mMDRT unless otherwise stated	Precision of depth quoted	Remark
RTE	21.5 above LAT	1dp	
Mudline	524.5	1dp	
Water Depth	524.5	1dp	
914 mm (36") TD	572.5	1dp	
508 mm (20") csg shoe	569.44	2dp	Tagged TOC @ 567.25
445mm (17-1/2") TD	1284.0	1dp	
340mm (13-3/8") csg shoe	1278.6	1dp	
311mm (12-1/4") TD	2912.0	0dp	

CUTTINGS SAMPLING SUMMARY

Depth Interval (mMDRT)	Sampling rate	Samples missed
2260 – 2810	10	None
2810 - 2875	5	None
2875 – 2878	3	None
2878 – 2912	N/A	No cuttings sample returns

MUD / MUD FILTRATE SAMPLES

Depth (mMDRT)	Sample type
1289	Mud
1289	Filtrate
2427	Mud (Tracer added)
2427	Filtrate
2820	Mud (Reservoir)
2820	Filtrate (Reservoir)
2900	Mud
2900	Filtrate

ISOTUBE SAMPLES

Depth (mMDRT)	Date	Time	TG%	Remarks
1300	25 Oct 09	17:08	0.0065	Scheduled Sample
1400	25 Oct 09	20:31	0.0162	Scheduled Sample
1500	25 Oct 09	23:18	0.0285	Scheduled Sample
1600	26 Oct 09	02:38	0.041	Scheduled Sample
1700	26 Oct 09	06:16	0.078	Scheduled Sample
1800	26 Oct 09	09:55	0.1008	Scheduled Sample
1900	26 Oct 09	13:02	0.031	Scheduled Sample
1980	26 Oct 09	15:33	0.0359	Scheduled Sample
2000	26 Oct 09	16:08	0.040	Scheduled Sample
2050	26 Oct 09	17:28	0.0382	Scheduled Sample
2100	26 Oct 09	18:41	0.0505	Scheduled Sample
2150	26 Oct 09	20:14	0.0522	Scheduled Sample
2200	26 Oct 09	22:08	0.0514	Scheduled Sample
2250	26 Oct 09	22:43	0.040	Scheduled Sample
2300	27 Oct 09	01:27	0.042	Scheduled Sample
2350	27 Oct 09	03:17	0.120	Scheduled Sample
2400	27 Oct 09	04:53	0.160	Scheduled Sample
2450	27 Oct 09	05:21	0.170	Scheduled Sample
2500	27 Oct 09	07:52	0.130	Scheduled Sample

CONFIDENTIAL

2550	27 Oct 09	09:29	0.180	Scheduled Sample
2600	27 Oct 09	11:09	0.130	Scheduled Sample
2650	27 Oct 09	12:40	0.1285	Scheduled Sample
2700	27 Oct 09	14:44	0.1190	Scheduled Sample
2750	27 Oct 09	16:06	0.110	Scheduled Sample
2800	27 Oct 09	18:13	0.090	Scheduled Sample
2815	27 Oct 09	18:57	0.1131	Scheduled Sample
2820	27 Oct 09	19:10	0.1443	Scheduled Sample
2830	27 Oct 09	19:46	0.4673	Scheduled Sample
2840	27 Oct 09	20:04	1.2166	Scheduled Sample
2850	27 Oct 09	20:35	0.3151	Scheduled Sample
2855	27 Oct 09	20:48	2.80	Gas Peak
2860	27 Oct 09	20:48	1.37	Scheduled Sample
2870	27 Oct 09	21:20	1.49	Scheduled Sample
2880	28 Oct 09	00:35	0.044	Scheduled Sample
2881.6	28 Oct 09	08:10	0.203	Bleed of choke line
2881.6	28 Oct 09	08:24	1.160	Bleed of choke line
2885.4	28 Oct 09	16:48	1.94	Circ. with kill mud
2890	28 Oct 09	19:10	1.04	Circ. with kill mud
2900	29 Oct 09	04:15	0.03	Circ. with kill mud

Wellsite Lithology Log

Woodside Energy Ltd.

Well Name : Somerset-1

Wellsite Lithology Log

Rig: Ocean Patriot	Rig Type: Semi Submersible	Latitude: 039° 20' 36.757" S	Wellsite Geologists: David Hartney and Todd Teasdale
Basin: Otway Basin	Rotary Table: 21.5 m to LAT	Longitude: 142° 44' 56.144" E	
Date Spudded: 11:30 hrs on 19 Oct 2009	Water Depth: 503 m	Eastings: 650 712.4 mE	
Date TD: 21:30 hrs on 27 October 2009	Total Depth: 2912 mMDRT	Northings: 5 643 640.4 mN	
	Well Status: Plugged and Abandoned	Seismic line: Inline 1460, Crosline 5864	

Rock Types

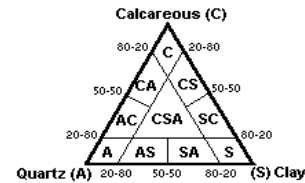
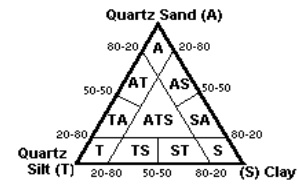
Sample Contaminated or Missed	(An) Anhydrite	Py: Pyrite	Al: Algae
(Clyst) Claystone	(Gyp) Gypsum	Mc: Mica	O: Ooliths
(Clyst, calc) Claystone, calcareous	(Ha) Halite/Salt	Ch: Chert	Co: Corals
(Siltst) Siltstone	(C) Coal	C: Lignite / Coal	Cr: Crinoids
(Sst) Sandstone	(Cht) Chert	G: Glauconite	Fo: Foraminifera
(Cgl) Conglomerate		F: Feldspar	Br: Bryozoa
(Lst) Limestone (recrystallised)		Ce: Chlorite	Os: Ostracoda
(Cl) Calcilitite	(MM) Metamorphic	Qx: Quartz Crystals	Rd: Radiolaria
(Ct) Calcisiltite	(Plut) Plutonic	Cx: Calcite Crystals	I: Inoceramus
(Ca) Calcarenite	(Vol) Volcanic	Sc: Siderite Concretions	Sk: Skeletal Fragments
(Cr) Calcirudite		Gp: Gypsum	Lf: Lithic Fragments
(Do) Dolomite		He: Hematite	

" silty
... sandy
— argillaceous

Accessories

Py: Pyrite	Al: Algae
Mc: Mica	O: Ooliths
Ch: Chert	Co: Corals
C: Lignite / Coal	Cr: Crinoids
G: Glauconite	Fo: Foraminifera
F: Feldspar	Br: Bryozoa
Ce: Chlorite	Os: Ostracoda
Qx: Quartz Crystals	Rd: Radiolaria
Cx: Calcite Crystals	I: Inoceramus
Sc: Siderite Concretions	Sk: Skeletal Fragments
Gp: Gypsum	Lf: Lithic Fragments
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	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: intraskelatal 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 org = orange cl = colourless mult = multicolour trans = translucent lt = light dk = dark med = medium vgt = variegated
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Wellsite Lithology Log

Well Name : Somerset-1

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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			Grain Size & Characteristics							Cements			Accessories					Porosity	Lithology Colours	Longhand Description
								Calcareous	Siliciclastic	%	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	Sorting	Rounding	Sphericity	1 Type %	2 Type %	3 Type %	1 Type %	2 Type %			
1290	U									0.0																		Drilled 444 mm (17.5') section to 1284 mMDRT riser less with returns to sea bed.
										0.0																	99% CEMENT. Trace white argillaceous calcilitite	

Wellsite Lithology Log

Please Note: TRACE =0.1 due to database requirements

Well Name : Somerset-1

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Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness	Fracture	Grains				Grain Size & Characteristics								Cements			Accessories					Porosity	Lithology Colours	HC Shows (yr)	Longhand Description			
								Calcareous		Siliciclastic		Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	1	2	3	1	2					3	4	5
								Clay (%)	Silt (%)	Sand (%)	Clay (%)												Silt (%)	Sand (%)	Type %	Type %	Type %					Type %	Type %	Type %
1300	Ct	arg		50	very lt olv gy	F	SB B	10.0	50.0	30.0	10.0	100.0																		ARGILLACEOUS CALCISILTITE: very light olive grey, firm, sub-blocky to blocky, 20 to 30% argillaceous, 5 to 10% dark silt and dark flecks T.Teasdale on lower 1200hrs 25/10/09				
1300	Clyst	calc		50	lt olv gy to ol gy	F	SB B	20.0		75.0	5.0	100.0																	CALCAREOUS CLAYSTONE: light olive grey to olive grey, firm, sub-blocky to blocky, 20 to 25% calcareous, trace to 5% dark silt. (Note: 10% cement contamination)					
1310	Ct	arg		60	very lt olv gy	F	SB B	10.0	50.0	30.0	10.0	100.0																		ARGILLACEOUS CALCISILTITE: as above.				
1310	Clyst	calc		40	lt olv gy to ol gy	F	SB B	20.0		75.0	5.0	100.0																		CALCAREOUS CLAYSTONE: as above.(Note: trace cement contamination)				
1320	Ct	arg		40	very lt olv gy	F	SB B	10.0	50.0	30.0	10.0	100.0									Cx	0.1								ARGILLACEOUS CALCISILTITE: as above, trace opaque white calcite crystals.				
1320	Clyst	calc		60	lt olv gy to ol gy	F	SB B	20.0		75.0	5.0	100.0																		CALCAREOUS CLAYSTONE: as above.(Note: trace cement contamination)				
1330	Clyst	calc		90	lt olv gy to gn gy	F	SB B	30.0		65.0	5.0	100.0																		CALCAREOUS CLAYSTONE: light olive grey to greenish grey, firm, sub-blocky to blocky, 20 to 30% calcareous, trace calcareous silt, trace dark silt.				
1330	Ct	arg		10	very lt olv gy	F	SB B	10.0	50.0	40.0	0.1	100.1									Cx	0.1								ARGILLACEOUS CALCISILTITE: very light olive grey, firm, sub-blocky to blocky, 30 to 40% argillaceous, trace dark silt and flecks, trace calcite crystals				
1340	Clyst	calc		90	lt olv gy to gn gy	F	SB B	30.0		65.0	5.0	100.0																		CALCAREOUS CLAYSTONE: as above.				
1340	Ct	arg		10	very lt olv gy	F	SB B	10.0	50.0	40.0	0.1	100.1									Cx	0.1								ARGILLACEOUS CALCISILTITE: as above.				
1350	Clyst	calc		50	lt olv gy to gn gy	F	SB B	30.0		65.0	5.0	100.0																		CALCAREOUS CLAYSTONE: light olive grey to greenish grey, firm, sub-blocky to blocky, 20 to 30% calcareous, trace calcareous silt, trace dark silt.				
1350	Ct	arg		50	wh, v lt gy to v lt olv gy	F	MH SB B	20.0	50.0	30.0	0.1	100.1									Cx	0.1								ARGILLACEOUS CALCISILTITE: patchy white, very light patchy grey to very light olive grey, firm to in part moderately hard, sub-blocky to blocky, 20 to 30% argillaceous, trace dark silt and flecks, trace calcite crystals				
1360	Clyst	calc		50	lt olv gy to gn gy	F	SB B	30.0		65.0	5.0	100.0																		CALCAREOUS CLAYSTONE: as above.				
1360	Ct	arg		50	v lt gy to v lt olv gy	F	MH SB B	20.0	50.0	30.0	0.1	100.1									Cx	0.1									ARGILLACEOUS CALCISILTITE: as above.			
1370	Clyst	calc		50	lt olv gy to gn gy	F	SB B	30.0		65.0	5.0	100.0																		CALCAREOUS CLAYSTONE: as above.				



Wellsite Lithology Log

Well Name : Somerset-1

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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 %
1370	Ct	arg		50	v lt gy to v lt olv gy	F	MH	SB	B		20.0	50.0										100.1																ARGILLACEOUS CALCISILTITE: as above.
1380	Clyst	calc		40	lt olv gy to gn gy	F		SB	B		39.0	1.0										100.0															CALCAREOUS CLAYSTONE: light olive grey to greenish grey, firm, sub-blocky to blocky, 20 to 40% calcareous, trace to 1% calcareous silt, trace dark silt, in part trace blocky pyrite, grades in part to Argillaceous Calcisiltite.	
1380	Ct	arg		60	vgt wh to v lt olv gy	F		SB	B		20.0	48.0	2.0									100.0	100.0															ARGILLACEOUS CALCISILTITE: patchy white to very light olive grey, firm, sub-blocky to blocky, 20 to 30% argillaceous, trace dark silt and flecks, trace to 1% quartz silt and sand, trace to 1% very fine black glauconite grains, trace calcite crystals, grading in part to Calcareous Claystone.
1390	Clyst	calc		40	lt olv gy to gn gy	F		SB	B		39.0	1.0										100.0																CALCAREOUS CLAYSTONE: as above.
1390	Ct	arg		60	vgt wh to v lt olv gy	F		SB	B		20.0	48.0	2.0									100.0	100.0															ARGILLACEOUS CALCISILTITE: as above.
1400	Clyst	calc		50	lt olv gy to gn gy	F		SB	B		39.0	1.0										100.0																CALCAREOUS CLAYSTONE: as above.
1400	Ct	arg		50	vgt wh to v lt olv gy	F		SB	B		20.0	48.0	2.0									100.0	100.0															ARGILLACEOUS CALCISILTITE: as above.
1410	Clyst	calc		50	lt olv gy to gn gy	F		SB	B		39.0	1.0										100.0	100.0															CALCAREOUS CLAYSTONE: light olive grey to greenish grey, firm, sub-blocky to blocky, 30 to 40% calcareous, trace to 1% calcareous silt, trace very fine quartz sand, trace yellow calcareous grains, trace reddish brown lithics, trace glauconite, trace dark silt, trace skeletal fragments.
1410	Ct	arg		50	vgt wh to v lt olv gy	F		SB	B		20.0	48.0	2.0									100.0	100.0															ARGILLACEOUS CALCISILTITE: patchy white to very light olive grey, firm, sub-blocky to blocky, 20 to 30% argillaceous, trace dark silt and flecks, trace to 1% quartz silt and sand, trace to 1% very fine black glauconite grains, trace calcite crystals, grading in part to Calcareous Claystone.
1420	Clyst	calc		50	lt olv gy to gn gy	F		SB	B		39.0	1.0										100.0	100.0															CALCAREOUS CLAYSTONE: as above.
1420	Ct	arg		50	vgt wh to v lt olv gy	F		SB	B		20.0	48.0	2.0									100.0	100.0															ARGILLACEOUS CALCISILTITE: as above.
1430	Clyst	calc		50	lt olv gy to gn gy	F		SB	B		39.0	1.0										100.0	100.0															CALCAREOUS CLAYSTONE: as above.
1430	Ct	arg		50	vgt wh to v lt olv gy	F		SB	B		20.0	48.0	2.0									100.0	100.0															ARGILLACEOUS CALCISILTITE: as above.
1440	Clyst	calc		50	lt olv gy to gn gy	F		SB	B		39.0	1.0										100.0	100.0															CALCAREOUS CLAYSTONE: as above.
1440	Ct	arg		50	vgt wh to v lt olv gy	F		SB	B		20.0	48.0	2.0									100.0																ARGILLACEOUS CALCISILTITE: as above.

Well Name : **Somerset-1**

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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				Grain Size & Characteristics									Cements			Accessories					Porosity	Lithology Colours	HC Shows (y/n)	Longhand Description								
								Calcareous		Siliciclastic		%	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	1	2	3	1	2	3					4	5						
								Clay (%)	Silt (%)	Sand (%)	Clay (%)												Silt (%)	Sand (%)	Type	%	Type	%					Type	%	Type	%	Type	%	Type	%
1520	Ct	arg		10	v lt olv gy	F	SB B	20.0	50.0	25.0	5.0	100.0									G	1.0	Cx	0.1													ARGILLACEOUS CALCISILTITE: light olive grey to light grey, firm, sub-blocky to blocky, 25% argillaceous, trace calcite crystals, grades to Calcareous Claystone in part.			
1530	Clyst	calc		80	lt olv gy to gn gy	S F	SB B	39.0	1.0	55.0	5.0	100.0																									CALCAREOUS CLAYSTONE: light olive grey to olive grey, greenish grey to dark greenish grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite.			
1530	Ct	arg		20	v lt olv gy	F	SB B	20.0	50.0	25.0	5.0	100.0																									ARGILLACEOUS CALCISILTITE: light olive grey to light grey, firm, sub-blocky to blocky, 25% argillaceous, trace calcite crystals, trace very fine lithics, grades to Calcareous Claystone in part.			
1540	Clyst	calc		80	lt olv gy to gn gy	S F	SB B	39.0	1.0	55.0	5.0	100.0																										CALCAREOUS CLAYSTONE: light olive grey to olive grey, greenish grey to dark greenish grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite.		
1540	Ct	arg		20	v lt olv gy	F	SB B	20.0	50.0	25.0	5.0	100.0																										ARGILLACEOUS CALCISILTITE: light olive grey to light grey, firm, sub-blocky to blocky, 25% argillaceous, trace calcite crystals, trace very fine lithics, grades to Calcareous Claystone in part.		
1550	Clyst	calc		90	lt olv gy to gn gy	S F	SB B	39.0	1.0	55.0	5.0	100.0																										CALCAREOUS CLAYSTONE: as above.		
1550	Ct	arg		10	v lt olv gy	F	SB B	20.0	50.0	25.0	5.0	100.0																										ARGILLACEOUS CALCISILTITE: as above.		
1550	Clyst	calc		90	lt olv gy - olv gy - gn gy - dk gn gy	S F	SB B	39.0	1.0	55.0	5.0	100.0																											CALCAREOUS CLAYSTONE: light olive grey to olive grey, greenish grey to dark greenish grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite.	
1550	Ct	arg		10	lt olv gy - lt gy, wh	F	SB B	20.0	50.0	25.0	5.0	100.0																											ARGILLACEOUS CALCISILTITE: light olive grey to light grey, trace white patches, firm, sub-blocky to blocky, 25% argillaceous, trace calcite crystals, trace very fine lithics, in part grading to Argillaceous Calcilitite.	
1560	Clyst	calc		90	lt olv gy - olv gy - gn gy - dk gn gy	S F	SB B	39.0	1.0	55.0	5.0	100.0																											CALCAREOUS CLAYSTONE: light olive grey to olive grey, greenish grey to dark greenish grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite.	
1560	Ct	arg		10	lt olv gy - lt gy, wh	F	SB B	20.0	50.0	25.0	5.0	100.0																											ARGILLACEOUS CALCISILTITE: light olive grey to light grey, trace white patches, firm, sub-blocky to blocky, 25% argillaceous, trace calcite crystals, trace very fine lithics, gradational Argillaceous Calcilitite in part.	
1570	Clyst	calc		70	lt olv gy - olv gy - gn gy - dk gn gy	S F	SB B	39.0	1.0	55.0	5.0	100.0																												CALCAREOUS CLAYSTONE: light olive grey to olive grey, greenish grey to dark greenish grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite.
1570	Ct	arg		30	lt olv gy - lt gy, wh	F	SB B	20.0	50.0	25.0	5.0	100.0																												ARGILLACEOUS CALCISILTITE: light olive grey to light grey, trace white patches, firm, sub-blocky to blocky, 25% argillaceous, trace calcite crystals, trace very fine lithics, gradational Argillaceous Calcilitite in part.
1580	Clyst	calc		70	lt olv gy - olv gy - gn gy - dk gn gy	S F	SB B	39.0	1.0	55.0	5.0	100.0																												CALCAREOUS CLAYSTONE: light olive grey to olive grey, greenish grey to dark greenish grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite.
1580	Cl	arg		30	lt olv gy - lt gy, wh	F	SB B	60.0	5.0	30.0	5.0	100.0																												ARGILLACEOUS CALCILUTITE: light olive grey to light grey, trace white patches, firm, sub-blocky to blocky, 25-30% clay, 5-10% calcareous silt, 5% silt, trace cryptocrystalline calcite, trace very fine black to greenish black lithics, trace glauconite specks, trace very fine black to greenish black lithics.

Well Name : Somerset-1

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Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness	Fracture	Grains				Grain Size & Characteristics									Cements			Accessories					Porosity	Lithology Colours	HC Shows (y/n)	Longhand Description		
								Calcareous		Siliciclastic		% Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	% Total (100%)	SORTING	ROUNDING	SPHERICITY	1	2	3	1	2	3					4	5
								Clay (%)	Silt (%)	Clay (%)	Silt (%)												Type %	Type %	Type %	Type %	Type %	Type %					Type %	Type %
1590	Clyst	calc		70	lt olv gy - olv gy, gn gy - dk gn gy	S F	SB B	39.0	1.0	55.0	5.0	100.0								G	0.1	Py	0.1	Cc	0.1	Lf	1.0							CALCAREOUS CLAYSTONE: light olive grey to olive grey, greenish grey to dark greenish grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite, trace lithics.
1590	Cl	arg		30	lt olv gy - lt gy, wh	F	SB B	60.0	5.0	30.0	5.0	100.0								G	0.1	Cx	0.1	Lf	1.0							ARGILLACEOUS CALCILUTITE: light olive grey to light grey, trace white patches, firm, sub-blocky to blocky, 25-30% clay, 5-10% calcareous silt, 5% silt, trace cryptocrystalline calcite, trace very fine black to greenish black lithics, trace glauconite specks.		
1600	Clyst	calc		70	m gy - olv gy	S F	SB B	40.0	0.1	55.0	5.0	100.1								G	0.1	Py	0.1	Cc	0.1	Lf	1.0						CALCAREOUS CLAYSTONE: medium grey to olive grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite, trace lithics.	
1600	Cl			30	wh - lt gy, lt olv gy	F	SB B	80.0	5.0	15.0		100.0								G	0.1	Cx	0.1	Lf	1.0							CALCILUTITE: white to light grey, light olive grey, firm, sub-blocky to blocky, 5% calcareous silt, 15% clay, trace cryptocrystalline calcite, trace very fine black to greenish black lithics, trace glauconite specks, gradational to Argillaceous Calcilutite.		
1610	Clyst	calc		30	m gy - olv gy	S F	SB B	40.0	0.1	55.0	5.0	100.1								G	0.1	Py	0.1	Cc	0.1	Lf	1.0						CALCAREOUS CLAYSTONE: medium grey to olive grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite, trace lithics.	
1610	Cl			70	wh - lt gy, lt olv gy	F	SB B	80.0	5.0	15.0		100.0								G	0.1	Cx	0.1	Lf	1.0							CALCILUTITE: white to light grey, light olive grey, firm, sub-blocky to blocky, 5% calcareous silt, 15% clay, trace cryptocrystalline calcite, trace lithics, trace glauconite specks, gradational to Argillaceous Calcilutite.		
1620	Clyst	calc		20	m gy - olv gy	S F	SB B	40.0	0.1	55.0	5.0	100.1								G	0.1	Py	0.1	Cc	0.1	Lf	1.0						CALCAREOUS CLAYSTONE: medium grey to olive grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite, trace lithics.	
1620	Cl			80	wh - lt gy, lt olv gy	F	SB B	80.0	5.0	15.0		100.0								G	0.1	Cx	0.1	Lf	1.0							CALCILUTITE: white to light grey, light olive grey, firm, sub-blocky to blocky, 5% calcareous silt, 15% clay, trace cryptocrystalline calcite, trace carbonaceous specks, gradational to Argillaceous Calcilutite.		
1630	Clyst	calc		15	m gy - olv gy	S F	SB B	40.0	0.1	55.0	5.0	100.1								G	0.1	Py	0.1	Cc	0.1	Lf	1.0						CALCAREOUS CLAYSTONE: medium grey to olive grey, soft to firm, sub-blocky to blocky, 30 to 40% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite silt, trace pyrite, trace lithics.	
1630	Cl			85	wh - lt gy, lt olv gy	F	SB B	80.0	5.0	15.0		100.0								G	0.1	Cx	0.1	Lf	1.0							CALCILUTITE: white to light grey, light olive grey, firm, sub-blocky to blocky, 5% calcareous silt, 15% clay, trace cryptocrystalline calcite, trace carbonaceous specks, gradational to Argillaceous Calcilutite.		
1640	Clyst	calc		70	m gy - olv gy	S F	SB B	45.0	0.1	50.0	5.0	100.1								G	0.1	Py	0.1	Cc	0.1	Lf	1.0						CALCAREOUS CLAYSTONE: predominantly olive grey and occasionally grading to medium grey, soft to firm, sub-blocky to blocky, 35 to 45% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite, trace pyrite, trace lithics.	
1640	Cl			30	wh - lt gy, lt olv gy	S F	SB B	80.0	5.0	15.0		100.0								G	0.1	Cx	0.1	Cc	0.1							CALCILUTITE: white to light grey, light olive grey, soft to firm, sub-blocky to blocky, 5% calcareous silt, 15% clay, trace cryptocrystalline calcite, trace glauconite, trace carbonaceous specks.		
1650	Clyst	calc		60	m gy - olv gy	S F	SB B	45.0	0.1	50.0	5.0	100.1								G	0.1	Py	0.1	Cc	0.1	Lf	1.0						CALCAREOUS CLAYSTONE: predominantly olive grey and occasionally grading to medium to medium dark grey, soft to firm, sub-blocky to blocky, 35 to 45% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite, trace pyrite, trace lithics, gradational to Argillaceous Calcilutite.	
1650	Cl			40	wh - lt gy, lt olv gy	S F	SB B	80.0	5.0	15.0		100.0								G	0.1	Cx	0.1	Cc	0.1							CALCILUTITE: white to light grey, light olive grey, soft to firm, sub-blocky to blocky, 5% calcareous silt, 15% clay, trace cryptocrystalline calcite, trace glauconite, trace carbonaceous specks.		
1660	Clyst	calc		50	m gy - olv gy	S F	SB B	45.0	0.1	50.0	5.0	100.1								G	0.1	Py	0.1	Cc	0.1	Lf	1.0						CALCAREOUS CLAYSTONE: predominantly olive grey and occasionally grading to medium to medium dark grey, soft to firm, sub-blocky to blocky, 35 to 45% calcareous clay, trace to 1% calcareous silt, trace carbonaceous specks, trace glauconite, trace pyrite, trace lithics, gradational to Argillaceous Calcilutite.	



Wellsite Lithology Log

Well Name : **Somerset-1**

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Lithology		Grains				Grain Size & Characteristics										Cements			Accessories					Porosity	Lithology Colours	Longhand Description												
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness	Fracture	Calcareous		Siliciclastic		Total (100%)	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	1				2		3		4		5	HC Shows (y/n)				
								Clay (%)	Silt (%)	Sand (%)	Clay (%)												Silt (%)	Sand (%)	Type	%	Type	%	Type	%	Type	%	Type		%	Type	%	Type
1820	Clyst			90	dk gy - olv blk	S F	A B	15.0	1.0	65.0	19.0	100.0						0.0					G	2.0	Py	1.0	Cc	1.0	Lf	1.0	Cx	0.5			CLAYSTONE: dark grey to greyish black, soft to firm, sub-blocky to blocky, amorphous in part 10-15% calcareous clay, 10-19% silt, trace carbonaceous specks, trace-5% glauconite, trace pyrite, trace lithics, gradational in part to Silty Claystone.			
1820	Cl	arg		10	lt olv gy - olv gy	S H	Ang B	60.0	5.0	35.0		100.0						0.0					Cx	1.0	G	1.0	Py	0.1						ARGILLACEOUS CALCILUTITE: light olive grey to olive grey, trace white, predominantly soft to firm, trace hard and angular, predominantly sub blocky to blocky 30-35% clay, 5-10% calcareous silt, cryptocrystalline calcite, trace glauconite, trace pyrite, gradational to Calcareous Claystone in part.				
1830	Clyst			95	dk gy - olv blk	S F	A B	15.0	1.0	65.0	19.0	100.0						0.0					G	2.0	Py	1.0	Cc	1.0	Lf	1.0	Cx	0.5			CLAYSTONE: dark grey to greyish black, soft to firm, sub-blocky to blocky, amorphous in part 10-15% calcareous clay, 10-19% silt, trace carbonaceous specks, trace-5% glauconite, trace pyrite, trace lithics, gradational in part to Silty Claystone.			
1830	Cl	arg		5	lt olv gy - olv gy	S H	Ang B	60.0	5.0	35.0		100.0						0.0					Cx	1.0	G	1.0	Py	0.1						ARGILLACEOUS CALCILUTITE: light olive grey to olive grey, trace white, predominantly soft to firm, trace hard and angular, predominantly sub blocky to blocky 30-35% clay, 5-10% calcareous silt, cryptocrystalline calcite, trace glauconite, trace pyrite, gradational to Calcareous Claystone in part.				
1840	Clyst			90	dk gy - olv blk	S F	A B	15.0	1.0	65.0	19.0	100.0						0.0					G	2.0	Py	1.0	Cc	1.0	Lf	1.0	Cx	0.5			CLAYSTONE: dark grey to greyish black, soft to firm, sub-blocky to blocky, amorphous in part 10-15% calcareous clay, 10-19% silt, trace carbonaceous specks, trace-5% glauconite, trace pyrite, trace lithics.			
1840	Sst			10	lt gy	L				10.0	0.1	90.0	100.0					100.0	VW	SA	R	SE											g	7	SANDSTONE: light grey, transparent to translucent quartz grains, loose, very fine to trace fine grained, sub angular to rounded, very well to well sorted, argillaceous matrix in part, trace silt, trace lithics, trace glauconite, trace pyrite, fair to poor inferred porosity, no hydrocarbon fluorescence.			
1850	Clyst	silty		100	dk gy to olv gy	S F	A SB		1.0	78.0	20.0	1.0	100.0	100.0				100.0					G	2.0	Py	0.1	Lf	0.1								SILTY CLAYSTONE: dark grey to dark olive grey, soft to moderately firm, amorphous to sub-blocky, trace calcareous, 20 to 25% silt, also occurring as loose silt, trace to 1% very fine quartz grains, predominantly loose silty grains, trace to 2% hard peloidal and granular glauconite, trace blocky pyrite, trace lithics. T.Teasdale on tower 26/10/09		
1860	Clyst	silty		100	dk gy to dk olv gy	S F	A SB		1.0	78.0	20.0	1.0	100.0	100.0				100.0					G	2.0	Py	0.1	Lf	0.1								SILTY CLAYSTONE: as above.		
1870	Clyst	silty		100	dk gy to dak olv gy	S F	A SB		1.0	78.0	20.0	1.0	100.0	100.0				100.0					G	2.0	Py	0.1	Lf	0.1								SILTY CLAYSTONE: as above, trace jasper. (Note: Sands could be occurring as thin lenses given presence of lithics)		
1880	Clyst	silty		95	dk gy to dk olv gy	S F	A SB		1.0	67.0	30.0	2.0	100.0	100.0				100.0	VW	SR	R	SS														SILTY CLAYSTONE: dark grey to dark olive grey, soft to moderately firm, amorphous to sub-blocky, trace calcareous, 25 to 30% silt, also occurring as loose silt, 2% very fine quartz grains, predominantly loose, very well sorted, sub-rounded to rounded, sub-spherical, trace to 2% hard peloidal and granular glauconite, occasionally rounded clumps, trace blocky pyrite, trace lithics.		
1880	Clyst	calc		5	lt brn gy to brn gy	F MH	SB B	25.0	3.0	2.0	60.0	9.0	1.0	100.0	100.0			100.0	VW	SR	R	SS	D	3.0		Sk	0.1									CALCAREOUS CLAYSTONE: light brownish grey to brownish grey, slightly mottled, firm to moderately hard, in part brittle, sub-blocky to blocky, 20 to 25% calcareous, trace to 3% calcareous silt, trace calcareous sand and fragments, 2 to 5% dolomite cement and fragments, trace quartz sand, trace fossil fragments.		
1890	Clyst	silty		95	dk gy to dk olv gy	S F	A SB		1.0	67.0	30.0	2.0	100.0	100.0				100.0	VW	SR	R	SS															SILTY CLAYSTONE: as above.	
1890	Clyst	calc		5	lt brn gy to brn gy	F MH	SB B	25.0	3.0	2.0	60.0	9.0	1.0	100.0	100.0			100.0	VW	SR	R	SS	D	3.0		Sk	0.1										CALCAREOUS CLAYSTONE: as above.	
1900	Clyst	silty		95	dk gy to dk olv gy	S F	A SB		1.0	67.0	30.0	2.0	100.0	100.0				100.0	VW	SR	R	SS															SILTY CLAYSTONE: as above.	
1900	Clyst	calc		5	lt brn gy to brn gy	F MH	SB B	25.0	3.0	2.0	60.0	9.0	1.0	100.0	100.0			100.0	VW	SR	R	SS	D	3.0		Sk	0.1											CALCAREOUS CLAYSTONE: as above.



Wellsite Lithology Log

Well Name : **Somerset-1**

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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)				
1910	Clyst	silty		100	dk gy to dk olv gy	S	F A SB	1.0			67.0	30.0	2.0	100.0	100.0						100.0	VW	SR	R	SS				G	2.0	Py	0.1	Lf	0.1	Ch	0.1		SILTY CLAYSTONE: as above.	
1920	Clyst	silty		95	dk gy to dk olv gy	S	F A SB	1.0			67.0	30.0	2.0	100.0	100.0						100.0	VW	SR	R	SS				G	2.0	Py	0.1	Lf	0.1	Ch	0.1		SILTY CLAYSTONE: as above, slight decrease in silt more argillaceous	
1920	Clyst	calc		5	lt brn gy to brn gy	F	MH SB B	25.0	3.0	2.0	60.0	9.0	1.0	100.0	100.0						100.0	VW	SR	R	SS	D	3.0		Sk	0.1							CALCAREOUS CLAYSTONE: as above.		
1930	Clyst	silty		98	dk gy to dk olv gy	S	A SB	2.0	1.0		65.0	30.0	2.0	100.0	100.0						100.0	VW	SR	R	SS				G	0.1	Py	0.1	Lf	0.1				SILTY CLAYSTONE: dark grey to dark olive grey, slightly brownish grey, soft to in part firm, amorphous to sub-blocky, trace to in part 3% calcareous, 20 to 25% silt, trace to 2% very fine quartz grains, trace to 2% loose quartz sand, very well sorted probably disaggregated from clay, [sub-rounded to rounded, sub-spherical], trace hard petioidal and granular glauconite, in part occurring as rounded clumps, trace disaggregated blocky pyrite, trace lithics.	
1930	Clyst	calc		2	lt brn gy to brn gy	F	MH SB B	25.0	3.0		62.0	10.0		100.0	100.0						0.0					D	3.0											CALCAREOUS CLAYSTONE: trace, slightly mottled appearance, light brownish grey to brownish grey, firm to moderately hard, in part brittle, sub-blocky to blocky, 20 to 25% calcareous, trace to 3% calcareous silt, trace calcareous fragments, in part 2 to 5% dolomite cement.	
1940	Clyst	silty		98	dk gy to dk olv gy	S	A SB	2.0	1.0		65.0	30.0	2.0	100.0	100.0						100.0	VW	SR	R	SS				G	0.1	Py	0.1	Lf	0.1				SILTY CLAYSTONE: as above, trace loose quartz sand.	
1940	Clyst	calc		2	lt brn gy to brn gy	F	MH SB B	25.0	3.0		62.0	10.0		100.0	100.0						0.0					D	3.0											CALCAREOUS CLAYSTONE: as above.	
1950	Clyst	silty		98	dk gy to dk olv gy	S	A SB	2.0	1.0		65.0	30.0	2.0	100.0	100.0						100.0	VW	SR	R	SS				G	0.1	Py	0.1	Lf	0.1				SILTY CLAYSTONE: as above.	
1950	Clyst	calc		2	lt brn gy to brn gy	F	MH SB B	25.0	3.0		62.0	10.0		100.0	100.0						0.0					D	3.0												CALCAREOUS CLAYSTONE: as above.
1960	Clyst	silty		95	dk gy to dk olv gy	S	A SB	2.0	1.0		65.0	30.0	2.0	100.0	100.0						100.0	VW	SR	R	SS				G	0.1	Py	0.1	Lf	0.1				SILTY CLAYSTONE: as above.	
1960	Clyst	calc		5	lt brn gy to brn gy	F	MH SB B	25.0	3.0		62.0	10.0		100.0	100.0						0.0					D	3.0												CALCAREOUS CLAYSTONE: as above.
1970	Clyst	silty		95	dk gy to dk olv gy	S	A SB	2.0	1.0		65.0	30.0	2.0	100.0	100.0						100.0	VW	SR	R	SS				G	0.1	Py	0.1	Lf	0.1				SILTY CLAYSTONE: as above.	
1970	Clyst	calc		5	lt brn gy to brn gy	F	MH SB B	25.0	3.0		62.0	10.0		100.0	100.0						0.0					D	3.0												CALCAREOUS CLAYSTONE: as above.
1980	Clyst	silty		95	dk gy to dk olv gy	S	A SB	2.0	1.0		65.0	30.0	2.0	100.0	100.0						100.0	VW	SR	R	SS				G	0.1	Py	0.1	Lf	0.1				SILTY CLAYSTONE: as above.	
1980	Clyst	calc		5	lt brn gy to brn gy	F	MH SB B	25.0	3.0		62.0	10.0		100.0	100.0						0.0					D	3.0												CALCAREOUS CLAYSTONE: as above.



Wellsite Lithology Log

Well Name : **Somerset-1**

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Lithology		Grains			Grain Size & Characteristics										Cements			Accessories					Porosity	Lithology Colours	Longhand Description													
		Calcareous	Siliciclastic	%	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%				Type	%	Type	%	HC Shows (y/n)								
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	%	HC Shows (y/n)	Longhand Description
2060	Clyst	calc	2	It brn gy to brn gy	F MH	SB B	25.0	3.0		62.0	10.0		100.0								0.0				D	0.1												CALCAREOUS CLAYSTONE: as above.
2070	Clyst	silty	98	brn gy to dk olv gy	S	A SB	1.0				73.0	25.0	1.0	100.0	100.0						100.0	VW	SR R SS					G	0.1	Py	0.1	Lf	0.1					SILTY CLAYSTONE: as above.
2070	Clyst	calc	2	It brn gy to brn gy	F MH	SB B	25.0	3.0		62.0	10.0		100.0								0.0				D	0.1												CALCAREOUS CLAYSTONE: as above.
2080	Clyst	silty	98	brn gy to dk olv gy	S	A SB	1.0				73.0	25.0	1.0	100.0	100.0						100.0	VW	SR R SS					G	0.1	Py	0.1	Lf	0.1					SILTY CLAYSTONE: as above.
2080	Clyst	calc	2	It brn gy to brn gy	F MH	SB B	25.0	3.0		62.0	10.0		100.0								0.0				D	0.1												CALCAREOUS CLAYSTONE: as above.
2090	Clyst	silty	98	brn gy to dk olv gy	S	A SB	1.0				74.0	25.0	0.1	100.1	100.0						100.0	VW	SR R SS					G	0.1	Py	0.1	Lf	0.1					SILTY CLAYSTONE: as above.
2090	Clyst	calc	2	It brn gy to brn gy	F MH	SB B	25.0	3.0		62.0	10.0		100.0								0.0				D	0.1												CALCAREOUS CLAYSTONE: as above, trace white Calcareous detritus - ?skeletal fragments
2100	Clyst	silty	98	brn gy to dk olv gy	S	A SB	1.0				74.0	25.0	0.1	100.1	100.0						100.0	VW	SR R SS					G	0.1	Py	0.1	Lf	0.1					SILTY CLAYSTONE: as above.
2100	Clyst	calc	2	It brn gy to brn gy	F MH	SB B	25.0	3.0		62.0	10.0		100.0								0.0				D	0.1												CALCAREOUS CLAYSTONE: as above.
2110	Clyst	silty	98	brn gy to dk olv gy	S	A SB	1.0				74.0	25.0	0.1	100.1	100.0						100.0	VW	SR R SS					G	0.1	Py	0.1	Lf	0.1					SILTY CLAYSTONE: as above.
2110	Clyst	calc	2	It brn gy to brn gy	F MH	SB B	25.0	3.0		62.0	10.0		100.0								0.0				D	0.1												CALCAREOUS CLAYSTONE: as above.
2120	Clyst	silty	98	brn gy to dk olv gy	S F	A SB	1.0				74.0	25.0	0.1	100.1	100.0						100.0	VW	SR R SS					G	0.1	Lf	0.1						SILTY CLAYSTONE: brownish grey to dark olive grey, soft to firm, amorphous to sub-blocky, 20 to 25% silt, trace very fine quartz grains, trace silt to very fine glauconite, trace silty lithics.	
2120	Clyst	calc	2	It brn gy to brn gy, ip wh	F MH	SB B	25.0	3.0		62.0	10.0		100.0								0.0				D	0.1												CALCAREOUS CLAYSTONE: mottled to patchy appearance, light brownish grey to brownish grey, in part white, firm to moderately hard, in part brittle, sub-blocky to blocky, 20 to 25% calcareous, trace to 3% calcareous silt, trace calcareous fragments, trace to 5% dolomite cement.
2130	Clyst	silty	98	brn gy to dk olv gy	S F	A SB	1.0				74.0	25.0	0.1	100.1	100.0						100.0	VW	SR R SS					G	0.1	Lf	0.1						SILTY CLAYSTONE: as above.	
2130	Clyst	calc	2	It brn gy to brn gy, ip wh	F MH	SB B	25.0	3.0		62.0	10.0		100.0								0.0				D	0.1												CALCAREOUS CLAYSTONE: as above.



Wellsite Lithology Log

Well Name : **Somerset-1**

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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	%	HC Shows (yr)																
2310	Clyst	silty		85	dk gy - olv blk	S F	A SB	1.0			77.0	20.0	2.0	100.0							0.0																																		
SILTY CLAYSTONE: as above.																																																							
2310	Sst			15	lt gy - lt olv gy	L					10.0	5.0	85.0	100.0	100.0						100.0	VW	SA R SE SS																																
SANDSTONE: light grey, transparent to translucent quartz grains, loose, very fine fine grained, sub angular to rounded, sub elongate to sub spherical, very well to well sorted, argillaceous matrix in part, trace-5% silt, trace lithics, trace glauconite, trace pyrite, fair to poor inferred porosity, no hydrocarbon fluorescence.																																																							
2320	Clyst	silty		90	dk gy - olv blk	S F	A SB	1.0			77.0	20.0	2.0	100.0							0.0																																		
SILTY CLAYSTONE: dark grey to olive black, brownish grey in part, soft to firm, amorphous to sub-blocky, 20 to 25% silt, trace-5% very fine quartz grains, trace very fine glauconite specks, trace silty lithics, trace broken white calcareous fossil fragments.																																																							
2320	Sst			10	lt gy - lt olv gy	L					10.0	5.0	85.0	100.0	100.0						100.0	VW	SA R SE SS																																
SANDSTONE: as above.																																																							
2330	Clyst	silty		90	dk gy - olv blk	S F	A SB	1.0			77.0	20.0	2.0	100.0							0.0																																		
SILTY CLAYSTONE: as above.																																																							
2330	Sst			10	lt gy - lt olv gy	L					10.0	5.0	85.0	100.0	100.0						100.0	VW	SA R SE SS																																
SANDSTONE: as above.																																																							
2340	Clyst	silty		95	dk gy - olv blk	S F	A SB	1.0			77.0	20.0	2.0	100.0							0.0																																		
SILTY CLAYSTONE: dark grey to olive black, brownish grey in part, soft to firm, amorphous to sub-blocky, 20 to 25% silt, trace-5% very fine quartz grains, trace very fine glauconite specks, trace silty lithics, trace broken white calcareous fossil fragments.																																																							
2340	Sst			5	lt gy - lt olv gy	L					10.0	5.0	85.0	100.0	100.0						100.0	VW	SA R SE SS																																
SANDSTONE: light grey, transparent to translucent quartz grains, loose, very fine fine grained, sub angular to rounded, sub elongate to sub spherical, very well to well sorted, argillaceous matrix in part dispersive and washing out, trace-5% silt, 5% black lithic specks, trace glauconite, trace pyrite, fair to poor inferred porosity, no hydrocarbon fluorescence.																																																							
2350	Clyst	silty		85	dk gy - olv blk	S F	A SB	1.0			77.0	20.0	2.0	100.0							0.0																																		
SILTY CLAYSTONE: as above																																																							
2350	Sst			15	lt gy - lt olv gy	L					10.0	5.0	85.0	100.0	100.0						100.0	VW	SA R SE SS																																
SANDSTONE: as above.																																																							
2360	Clyst	silty		90	dk gy - olv blk, olv gy	S F	A SB	1.0			77.0	20.0	2.0	100.0							0.0																																		
SILTY CLAYSTONE: dark grey to olive black, olive grey to brownish grey in part, soft to firm, amorphous to sub-blocky, 20 to 25% silt, trace very fine quartz grains, trace very fine glauconite specks, trace silty lithics, trace mottled light olive grey fragments, trace broken white calcareous fossil fragments.																																																							
2360	Sst			10	lt gy - lt olv gy	L					10.0	5.0	85.0	100.0	100.0						100.0	VW	SA R SE SS																																
SANDSTONE: light grey, transparent to translucent quartz grains, loose, very fine fine grained, sub angular to rounded, sub elongate to sub spherical, very well to well sorted, argillaceous matrix in part dispersive and washing out, trace-5% silt, 5% black lithic specks, trace glauconite, trace pyrite, poor to in part inferred porosity, no hydrocarbon fluorescence.																																																							
2370	Clyst	silty		95	dk gy - olv blk, olv gy	S F	A SB	1.0			77.0	20.0	2.0	100.0							0.0																																		
SILTY CLAYSTONE: as above.																																																							
2370	Sst			5	lt gy - lt olv gy	L					10.0	5.0	85.0	100.0	100.0						100.0	VW	SA R SE SS																																
SANDSTONE: as above.																																																							
2380	Clyst	silty		95	dk gy - olv blk, olv gy - brn gy	S F	A SB	1.0			77.0	20.0	2.0	100.0							0.0																																		
SILTY CLAYSTONE: dark grey to olive black, olive grey to brownish grey, soft to firm, amorphous to sub-blocky, 20 to 25% silt, trace very fine quartz grains, trace very fine glauconite specks, trace silty lithics, trace mottled light olive grey fragments, trace broken white calcareous fossil fragments.																																																							



Wellsite Lithology Log

Well Name : **Somerset-1**

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Lithology		Grains			Grain Size & Characteristics									Cements			Accessories					Porosity	Lithology Colours	Longhand Description												
		Calcareous	Siliciclastic	%	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	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)		
2760	Clyst	silty		100	olv gy to brn gy	S	A SB	1.0	1.0		78.0	20.0	0.1	100.1							0.0				D	0.1										SILTY CLAYSTONE: as above.
2770	Clyst	silty		95	olv gy to brn gy	S	F A SB	1.0	1.0		78.0	20.0		100.0							0.0				G	0.1	Lf	0.1								SILTY CLAYSTONE: olive grey to brownish grey, soft to firm, amorphous to sub-blocky, 20% silt, trace silt to very fine glauconite grains, trace dark specks (?coal/?lithics)
2770	Clyst			5	lt brn gy to ol gy	F	H SB SF	4.0	1.0		93.0	2.0		100.0							0.0				D	5.0										CLAYSTONE: mottled light brownish grey to olive grey, firm to in part hard, in part brittle, sub-blocky to sub-fissile, 2 to 5% calcareous, 2 to 5% dolomite cement, trace white calcareous fragments(?fossil debris), trace streaks or laminations.
2780	Clyst	silty		95	olv gy to brn gy	S	F A SB	1.0	1.0		78.0	20.0		100.0							0.0				G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
2780	Clyst			5	lt brn gy to ol gy	F	H SB SF	4.0	1.0		93.0	2.0		100.0							0.0				D	5.0										CLAYSTONE: as above.
2790	Clyst	silty		95	olv gy to brn gy	S	F A SB	1.0	1.0		78.0	20.0		100.0							0.0				G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
2790	Clyst			5	lt brn gy to ol gy	F	H SB SF	4.0	1.0		93.0	2.0		100.0							0.0				D	5.0										CLAYSTONE: as above.
2800	Clyst	silty		95	olv gy to brn gy	S	F A SB	1.0	1.0		78.0	20.0		100.0							0.0				G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
2800	Clyst			5	lt brn gy to ol gy	F	H SB SF	4.0	1.0		93.0	2.0		100.0							0.0				D	5.0										CLAYSTONE: as above.
2810	Clyst	silty		90	olv gy to brn gy	S	F A SB	1.0	1.0		78.0	20.0		100.0							0.0				G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
2810	Clyst			5	lt brn gy to ol gy	F	H SB SF	4.0	1.0		93.0	2.0		100.0							0.0				D	5.0										CLAYSTONE: as above.
2815	Clyst	silty		90	olv gy to brn gy	S	F A SB	1.0	1.0		78.0	20.0		100.0							0.0				G	0.1	Lf	0.1								SILTY CLAYSTONE: as above.
2815	Clyst			10	lt brn gy to ol gy	F	H SB SF	4.0	1.0		93.0	2.0		100.0							0.0				D	5.0										CLAYSTONE: as above.
2820	Clyst	silty		80	olv gy to brn gy	S	F A SB	1.0	1.0		78.0	20.0		100.0							0.0				G	0.1	Lf	0.1								SILTY CLAYSTONE: olive grey to brownish grey, soft to firm, amorphous to sub-blocky, 20% silt, trace silt to very fine glauconite grains, trace dark specks (?coal/?lithics)
2820	Clyst			20	lt brn gy to ol gy	F	H SB SF	4.0	1.0		93.0	2.0	0.1	100.1							0.0				D	5.0										CLAYSTONE: mottled light brownish grey to olive grey, firm to in part hard, in part brittle, sub-blocky to sub-fissile, trace to 5% calcareous, 2 to 5% dolomite cement, trace to 1% white calcareous fragments(?fossil debris), trace streaks or laminations.



Wellsite Lithology Log

Well Name : **Somerset-1**

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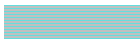












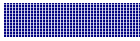



Lithology		Grains												Grain Size & Characteristics												Cements					Accessories					Porosity	Lithology Colours	Longhand Description
		Calcareous			Siliciclastic			%													1	2	3	1	2	3	4	5										
		Clay (%)	Silt (%)	Sand (%)	Clay (%)	Silt (%)	Sand (%)																						Total (100%)	Type	%	Type	%	Type	%			
Depth (mRT)	Sample Reliability	Main Lithology	Modifier (>20%)	% of rock	Colour	Hardness	Fracture	Very Fine (%)	Fine (%)	Medium (%)	Coarse (%)	Very Coarse (%)	Granular (%)	Total (100%)	SORTING	ROUNDING	SPHERICITY	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	Type	%	HC Shows (y/n)						
2825	Clyst	silty		70	olv gy to brn gy	S F	A SB	1.0	1.0				78.0	20.0	100.0					G	0.1	Lf	0.1													SILTY CLAYSTONE: olive grey to brownish grey, soft to firm, amorphous to sub-blocky, 20% silt, trace silt to very fine glauconite grains, trace dark specks (?coal/?lithics)		
2825	Clyst			20	lt brn gy to ol gy	F H	SB SF	4.0	1.0				93.0	2.0	100.1					D	5.0															CLAYSTONE: mottled light brownish grey to olive grey, firm to in part hard, in part brittle, sub-blocky to sub-fissile, trace to 5% calcareous, 2 to 5% dolomite cement, trace to 1% white calcareous fragments(?fossil debris), trace streaks or laminations.		
2825	Sst	arg		10	wh to cl	S Fr	Disp	5.0					70.0	20.0	5.0	100.0	100.0	VW											g	5	N				ARGILLACEOUS SANDSTONE: white, trace clear to opaque (rockfleur appearance), soft to weakly friable, slightly dispersive aggregates, white clay to lower very fine grained, well sorted, angular to sub-rounded, sub-spherical, 50 to 70% white clay matrix (like rockfleur), weakly calcareous (see note below), trace black silt, poor visible porosity, poor inferred, no shows. (Note: CaCO3 being added to mud system).			
2830	Clyst	silty		40	olv gy to brn gy	S F	A SB	1.0	1.0				78.0	20.0	100.0					G	0.1	Lf	0.1													SILTY CLAYSTONE: as above.		
2830	Clyst			20	lt brn gy to ol gy	F H	SB SF	4.0	1.0				93.0	2.0	100.1					D	5.0															CLAYSTONE: as above.		
2830	Sst	arg		40	cl to trans wh, wh	S Fr	Disp	5.0					50.0	20.0	25.0	100.0	50.0	50.0	VW		SA	R	SS						g	5	N				ARGILLACEOUS SANDSTONE: clear to translucent white, white, predominantly loose disaggregated sand, soft to weakly friable aggregates, lower very fine to fine, well sorted, sub-angular to rounded, sub-spherical, 30 to 50% white clay matrix (like rockfleur) in aggregates, weakly calcareous (see note below), trace black silt, poor visible porosity, poor inferred, no shows. (Note: CaCO3 being added to mud system).			
2835	Clyst	silty		20	olv gy to brn gy	S F	A SB	1.0	1.0				78.0	20.0	100.0					G	0.1	Lf	0.1													SILTY CLAYSTONE: as above.		
2835	Clyst			20	lt brn gy to ol gy	F H	SB SF	4.0	1.0				93.0	2.0	100.1					D	5.0															CLAYSTONE: as above.		
2835	Sst	arg		60	cl to trans wh, wh	S Fr	Disp	5.0					50.0	20.0	25.0	100.0	50.0	50.0	VW		SA	R	SS						g	5	N				ARGILLACEOUS SANDSTONE: clear to translucent white, white, predominantly loose disaggregated sand, soft to weakly friable aggregates, lower very fine to fine, well sorted, sub-angular to rounded, sub-spherical, 30 to 50% white clay matrix (like rockfleur) in aggregates, weakly calcareous (see note below), trace black silt, poor visible porosity, poor inferred, no shows. (Note: CaCO3 being added to mud system).			
2840	Clyst	silty		10	olv gy to brn gy	S F	A SB	1.0	1.0				78.0	20.0	100.0					G	0.1	Lf	0.1													SILTY CLAYSTONE: as above.		
2840	Clyst			10	lt brn gy to ol gy	F H	SB SF	4.0	1.0				93.0	2.0	100.1					D	0.1															CLAYSTONE: as above, trace dolomite.		
2840	Sst	arg		80	cl to trans wh and gy, wh	S Fr	Disp	5.0					50.0	20.0	25.0	100.0	50.0	50.0	VW		SA	SR	SS						g	5	N				ARGILLACEOUS SANDSTONE: clear to translucent white and grey, white, predominantly loose disaggregated sand, common soft to weakly friable aggregates, lower very fine to fine, predominantly fine, well sorted, sub-angular to sub-rounded, sub-spherical, 30 to 50% white clay matrix (like rockfleur) in aggregates, weakly calcareous (see note below), trace black silt, poor visible porosity, poor inferred, no shows. (Note: CaCO3 being added to mud system and similar grain size to the sand).			
2845	Clyst	silty		30	dk gy to olv gy	S	A SB						60.0	35.0	5.0	100.0				G	0.1	Lf	0.1													SILTY CLAYSTONE: dark grey to olive grey, soft, amorphous to sub-blocky, 20 to 35% silt, trace silt to very fine glauconite grains, trace dark specks and flecks (?coal/?lithics)		
2845	Sst	arg		70	cl to trans wh and gy, wh	S Fr	Disp	5.0					50.0	20.0	25.0	100.0	50.0	50.0	VW		SA	SR	SS						g	5	N				ARGILLACEOUS SANDSTONE: clear to translucent white and grey, white, predominantly loose disaggregated sand, common soft to weakly friable aggregates, lower very fine to fine, predominantly fine, well sorted, sub-angular to sub-rounded, sub-spherical, 30 to 50% white/grey clay/silt matrix (like rockfleur) in aggregates, weakly calcareous (see note below), trace black silt, poor visible porosity, poor to fair inferred, no shows. (Note: Sand levels seriously affected by CaCO3 being added to mud system, similar in size and appearance).			
2850	Clyst	silty		70	dk gy to olv gy	S F	A SB						70.0	30.0	100.0					G	0.1	Lf	0.1													SILTY CLAYSTONE: dark grey to olive grey, soft to firm, amorphous to sub-blocky, 20 to 30% silt, trace silt to very fine glauconite grains, trace dark specks and flecks (?coal/?lithics)		

Litholog Description Codes											
Lithology		Modifier		Colour		Hardness		Rounding		Accessories	
Anh	Anhydrite	arg	ARGILLACEOUS	wh	white	L	Loose	WR	Well Rounded	Cx	Calcite crystals
C	Coal	calc	CALCAREOUS	gy	grey	VS	Very soft	R	Rounded	Ch	Chert
Cgl	Conglomerate	carb	CARBONACEOUS	blk	black	S	Soft	SR	Sub-rounded	Ce	Chlorite
Ca	Calcarenite	dol	DOLOMITIC	rd	red	Fr	Friable	SA	Sub-angular	Cc	Coal/Lignite
Cht	Chert	glc	GLAUCONITIC	pk	pink	F	Firm	A	Angular	C	Coal
Cl	Calcilutite	kaol	KAOLINITIC	pu	purple	MH	Moderately hard	Sorting		F	Feldspar
Clyst	Claystone	mic	MICACEOUS	orng	orange	H	Hard	VP	Very Poor	G	Glauconite
Cr	Calcirudite	ool	OOLITIC	brn	brown	Fracture		P	Poor	Gp	Gypsum
Ct	Calcisiltite	py	PYRITIC	yel	yellow	A	amorphous,	M	Moderately	He	Hematite
Dol	Dolomite	sdv	SANDY	grn	green	Ang	angular,	W	Well	Lf	Lithic Fragments
Gyp	Gypsum	sid	SIDERITIC	ol	olive	B	blocky,	VW	Very Well	Mc	Mica
Lst	Limestone	sil	SILICEOUS	bl	blue	SB	sub-blocky,	Sphericity		Py	Pyrite
MM	Metamorphic			cl	colourless	Conc	conchoidal,	VE	Very Elongated	Qx	Quartz crystals
Non	None			multi	multicoloured	Disp	dispersive,	E	Elongated	Sc	Siderite Concretions
Plut	Plutonic			trans	translucent	F	fissile,	SE	Slightly Elongated	Al	Algae
Salt/Ev	Salt-Evaporite					SF	sub-fissile,	SS	Slightly Spherical	Br	Bryozoa
Sst	Sandstone			lt	light	M	massive,	S	Spherical	Co	Corals
Siltst	Siltstone			dk	dark	Sp	splintery,	VS	Very Spherical	Cr	Crinoid
Tuf	Tuff			mod	moderate	St	sticky,	Cements		Fo	Foram
Vol	Volcanic			vgt	variegated	Porosity		Q	Silica	I	Inoceramus
Unsp	Unspecified					g	granular	P	Pyrite	O	Ooliths
						v	vugular	C	Calcite	Os	Ostracod
						l	intra-skeletal	D	Dolomite	Rd	Radiolaria
						f	fracture	Sd	Siderite	Sk	Skel Frag

Hydrocarbon Show Codes											
Stain		Odour		Distribution		Colour		Cut Type		Thickness	
bl	blue	No	None	PP	Pinpoint	wh	white	D	Diffuse	Tk	Thick
brn	brown	Sli	Slight	S	Spotty	gy	grey	Bld	Bleeding	mTk	mod Thick
gn	gold	Mod	Moderate	P	Patchy	blk	black	S	Streaming	mTn	mod Thin
or	orange	Stg	Strong	E	Even	rd	red	BIm	Blooming	Tn	Thin
vi	violet			PPS	Pinpoint - Spotted	pk	pink	Show Rating		P	Patchy
yl	yellow			PPP	Pinpoint - Patchy	pu	purple				
wh	white	Intensity		PPE	Pinpoint - Even	orng	orange	P	Poor		
col	colourless	VD	Very Dull	PE	Patchy - Even	brn	brown	F	Fair		
stra	straw	D	Dull	Cut Rate		yel	yellow	G	Good		
am	amber	MB	Mod. Bright	N	Nil	grn	green	VG	Very Good		
		B	Bright	VS	Very Slow	ol	olive	E	Excellent		
pl	pale	VDD	Very Dull - Dull	S	Slow	bl	blue				
lt	light	VDDB	Very Dull - Mod. Bright	MF	Mod. Fast	cl	colourless				
dk	dark	VDB	Very Dull - Bright	F	Fast	multi	multicoloured				
		DMB	Dull - Mod. Bright	VF	Very Fast	trans	translucent				
		DB	Dull to Bright	l	Instant						
		MBB	Mod Bright - Bright			lt	light				
						dk	dark				
						mod	moderate				
						vgt	variegated				

Rock Types - Colours

Sample Contaminated or Missed

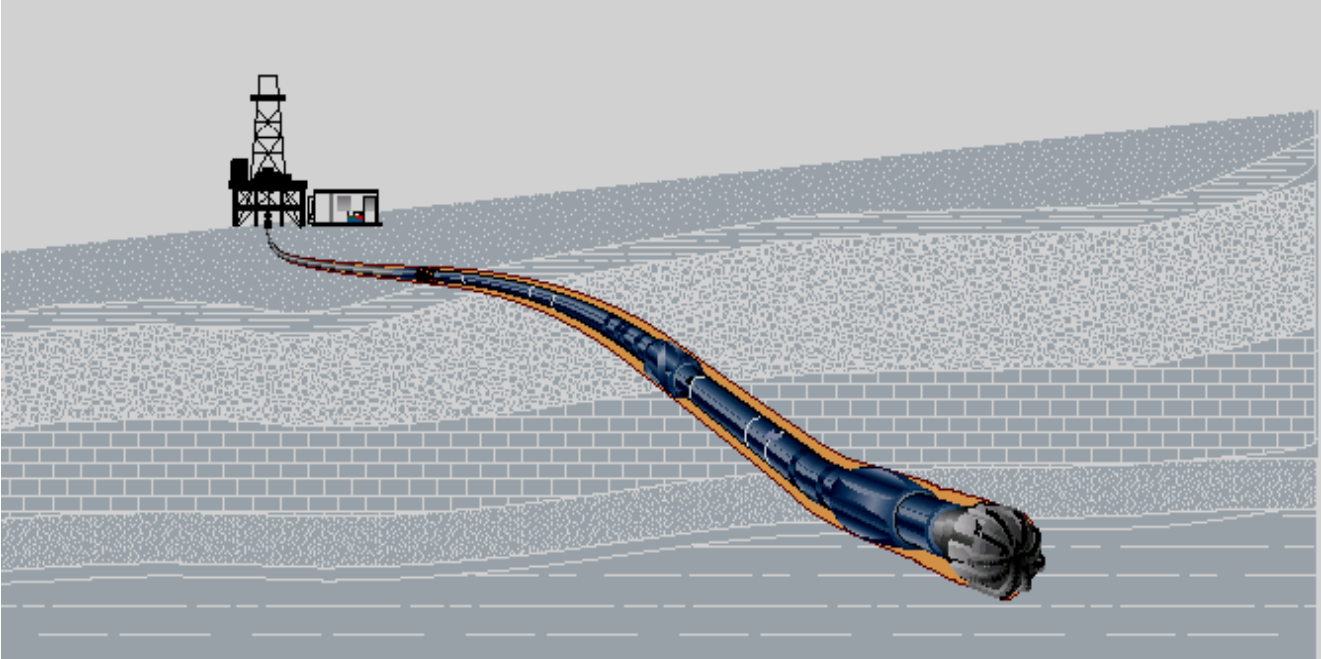
	(S)	Claystone		(An)	Anhydrite
	(SC)	Claystone, Calc		(Gp)	Gypsum
	(T)	Siltstone		(Ha)	Halite
	(A)	Sandstone			
	(R)	Conglomerate		(C)	Coal
	(X)	Limestone (recrystallised)			
	(Cl)	Calcilutite		(Cht)	Chert
	(Ct)	Calcisiltite			
	(Ca)	Calcarenite		(MM)	Metamorphic
	(Cr)	Calcirudite		(Plut)	Plutonic
	(D)	Dolomite		(Vol)	Volcanic

" " silty
 sandy
 — argillaceous

MWD End of Well Report

Somerset-1

END OF WELL REPORT



Any further queries be directed to:

Project Manager
(Ali Al-Mohammed)

FSM
(Ali Al-Mohammed)

Drilling Engineer
(Zulfiqar Ahmed)

Schlumberger Drilling & Measurements
314 Raglan St
Sale, VIC, 3850

Tel: +61 3 5149 5600
Fax: +61 3 5143 2450

Schlumberger Service

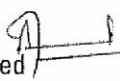
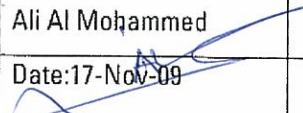
Prepared by: Chris Hibberson	Checked by: Zulfiqar Ahmed 	Approved by: Ali Al Mohammed 	Client O.K:
Date: 16-Nov-09	Date: 17-Nov-09	Date: 17-Nov-09	

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Section 1

1.1 Well Specification

Client : Woodside Energy Ltd
Well name : Somerset-1
Well type : Vertical
State : Tasmania
Location : Otway Basin
Drilling Contractor : Diamond Offshore
Rig Name : Ocean Patriot
Rig Type : Semi-Submersible
Water Depth : 485 m
Drill Floor Height : 21.5 m relative to MSL
Spud Date : 19th October 2009
Date TD reached : 27th October 2009
Final Depth MD : 2912 m
Final Depth TVD : 2911.73 m

Well coordinates

GDA 94/MGA94 54S

X= E 650,712.400 m

Y= N 5,643,640.360 m

Geographical co-ordinates

Longitude: E 142° 44' 56.144"

Latitude: S 39° 20' 36.757"

Geomagnetic Data

Date : 21st October 2009

Magnetic Field Strength : 61074.699 nT

Magnetic Dip angle : -70.384°

Magnetic Declination : +11.033°

Grid Convergence : -1.10897486°

BGGM Model : BGGM 2009

1.2 Introduction and Objectives

Geological technical objectives of Somerset-1 are to obtain sufficient geological/geophysical data, to:

- Fully evaluate reservoir interval
- Evaluate the nature of any hydrocarbons discovered
- Resolve depth uncertainty through seismic VSP

Specific drilling objectives:

- HSE issues managed as per guidelines
- Quality borehole & mud system to facilitate logging and sampling
- Ensure quality FEWD logs

Well Operations Objectives:

- Make up, run in hole and spud well with a 36" BHA and TGB
- Make up 30" conductor (with HAC) to PGB, RIH and cement
- Drill 17 ½" hole vertically to 1268m TVDRT.
- Run 13 3/8" casing with 18 ¾" wellhead and cement
- Run and test BOP
- Drill 12 ¼" hole from 1268m to 3308m TVDRT
- Run wireline logs
- Plug and abandon well

1.3 Schlumberger Services

Directional Drilling:

PowerPak 962 Mud Motor

Measurements While Drilling (MWD):

Borehole Inclination and Azimuth

Continuous D&I and Magnetic/Gravity Tool Face

Drillstring Washout Detection

Real-Time LWD Tool Data Transmission

Surface Measurements:

Depth

Rate of Penetration

Total Hook load

Surface Weight on Bit

Standpipe Pressure

Logging While Drilling (LWD):

Phase Shift Resistivity

Gamma Ray

Density

Neutron Porosity

Annulus Pressure and Temperature

1.4 Schlumberger Personnel

File Personnel:

<i>Marganda Sihite</i>	Cell Manager
<i>Mewan Amarasena</i>	MWD/LWD Engineer
<i>Russell Yap</i>	MWD/LWD Engineer
Chris Hibberson	MWD/LWD Engineer

<i>Vedat Ali Degirmenci</i>	Directional Driller
<i>Daniel Priestley</i>	Directional Driller

Field Support Group

<i>Ali Al-Mohammed</i>	Operations Manager
<i>Ali Al-Mohammed</i>	Project Manager
<i>Ali Al-Mohammed</i>	MWD/LWD Field Services Manager

Drilling Engineering Support

Zulfiqar Ahmed	Senior Drilling Engineer
----------------	--------------------------

Section 2: Operational Details

2.1 444.5 mm (17 ½") Hole Section

Rig BHA # 2 / Rig Bit Run # 2 / ERS Run # 1

Objectives

- Drill 17 ½" hole section to well plan.
- Drill the 17 ½" hole section in 1 run.
- Maintain the 17 ½" hole section below 1deg inclination whilst maximizing ROP.

Results

- The Average ROP was 109m/hr.
- 17 ½" hole inclination was 0.96 degs.

Highlights

- Higher than expected ROP.
- No shocks and stick/slip was seen.

Lowlights

- On racking the BHA back in the derrick, the roller reamer rollers were all balled up.

Recommendations

- Consider changing the roller reamer for a 17 1/8" string stabilizer. The roller reamer was thought to have gotten balled up in the Marl Claystone. With a stabilizer, it would continue to do its job in this formation.

BHA Listing



Schlumberger

Field Name	Woodside/T/34P/Somerset		Hole Size (in)	17.500	Depth In (m)	572																																																																					
Well Name	Somerset-1		BHA Name	Somerset-1	Depth Out (m)	1286																																																																					
Description	Vendor	Serial #	OD/ID (in)	Max OD (in)	Connection (Bottom/Top)	Gender (Bot/Top)	Joint Count	Length (m)	Cum. Length (m)	Cum. Weight (klbm)																																																																	
1 17 1/2" Bit	Smith International	PM6863	8.750 3.750	17.500	7 5/8 Regular	Pin	1	0.43	0.43	0.2																																																																	
2 A962M7848GT w/ float Valve	Schlumberger	1069	9.625 7.850	17.250	7 5/8 Regular	Box	1	10.792	11.22	7.3																																																																	
3 17 1/4" String Stabilizer	Schlumberger	207A211	9.500 3.063	17.250	7 5/8 Regular	Pin	1	2.17	13.39	8.7																																																																	
4 9 1/2" Drill Collar	Ocean Patriot		9.500 3.000	9.500	7 5/8 Regular	Pin	1	9.48	22.87	15.4																																																																	
5 17 1/4" Roller Reamer	Redback	GU3359	9.375 3.625	17.250	7 5/8 Regular	Pin	1	2.46	25.33	17.3																																																																	
6 X/O Saver Sub	Schlumberger	ASQ8115	9.375 3.500	9.375	7 5/8 Regular	Pin	1	0.47	25.80	17.6																																																																	
7 PowerPulse 825	Schlumberger	FL62	8.313 5.900	8.313	6 5/8 FH	Box	1	7.55	33.35	20.7																																																																	
8 Saver Sub	Schlumberger	04324-1	8.375 4.250	8.375	6 5/8 FH	Pin	1	0.55	33.90	20.9																																																																	
9 8 1/4" NMDC w/Totco Ring	Schlumberger	ASQ9801	8.250 2.875	8.250	6 5/8 Regular	Pin	1	9.07	42.97	25.7																																																																	
10 8 x 8" Drill Collar (8 joints)	Ocean Patriot		8.000 2.813	8.000	6 5/8 Regular	Pin	8	73.33	116.30	61.6																																																																	
11 8" Hydraulic Jar	Smith International	97984G	8.012 3.000	8.250	6 5/8 Regular	Pin	1	10.11	126.41	65.3																																																																	
12 2 x 8" Collar (2 joints)	Ocean Patriot		8.000 2.813	8.000	6 5/8 Regular	Box	2	18.67	145.08	74.4																																																																	
13 Crossover	Ocean Patriot	GUD-1296-2	8.250 2.750	8.250	6 5/8 Regular	Pin	1	1.11	146.19	75.0																																																																	
14 15 x 5" HWDP (14 joints)	Ocean Patriot		5.000 3.000	6.500	4 1/2 IF	Pin	14	142.17	288.36	98.5																																																																	
15 5" DP to Surface	Ocean Patriot		4.928 4.276	6.625	4 1/2 IF	Pin	1	1	289.36	98.5																																																																	
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0.780	2.718		PV (cP)	FEAD/Priestley																																																																							
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Drilling Parameters Report

Schlumberger

Slide Sheet

woodside

BHA: Somerset-1_17 1/2" Motor+PP BHA-Rev2

Client: Woodside Energy Ltd Field: Woodside/T34P/Somerset Structure: Somerset	Well: Somerset-1 Borehole: Somerset-1 UWI/API:	Directional Driller: Vedat Degimenci Directional Driller: David Priestley Job #: 09ASC0030
Depth In: 573.00 Inclination In: 0.58 Azimuth In: 120.59	Depth Out: 1284.00 Inclination Out: 0.96 Azimuth Out: 60.07	Total Distance: 711.00 SLIDE: 0.00 ROTATE: 711.00
% SLIDE 0.0 % ROTAT 100.0	Total Time: 8.7 Time: 0.0 8.7	Total ROP: 82.0 ROTATE ROP: 82.0

Comments: Drilled 17 1/2" vertically in rotary mode keeping hole inclination < 1 deg

Statistics:

Min	Max	Sum	Min	Max	Sum	Avg	None	Avg	Max	Max	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	None	
	10/21/2009 8:30	8.667	573.00	1284.00	711.00	109.8		000000000	1251.88	0.77	84.20	-0.00	-3.12	0.12	95	30.2	7.0	1160	3703	3848	145		
Start Time (m/d/yy hh:mm)	End Time (m/d/yy hh:mm)	Duration (hr)	Md From (m)	Md To (m)	Course (m)	Calc ROP (m/hr)	Orienting Method	TF Angle (°)	TF Mode (C/M)	Svy Md (m)	Incl (°)	Azimuth (°)	BR (° / 30 m)	TR (° / 30 m)	DLS (° / 30 m)	RPM (r/min)	WOB (1000 lbf)	Torque (1000 ft.lbf)	Flow (gal/min)	SPP Off Bot (psi)	SPP On Bot (psi)	Delta P (psi)	Comment
10/20/2009 20:25	10/20/2009 20:37	0.200	573.00	602.00	29.00	145.0	ROTATE	0.0	M	599.08	0.58	120.59	0.03	0.00	0.03	100	8.0	2.2	1200	2971	3105	134	
10/20/2009 20:48	10/20/2009 20:59	0.183	602.00	630.00	28.00	152.7	ROTATE	0.0	M							100	8.0	2.7	1200	3745	3810	65	
10/20/2009 21:08	10/20/2009 21:19	0.183	630.00	659.00	29.00	158.2	ROTATE	0.0	M							100	8.0	2.7	1200	3740	3810	70	
10/20/2009 21:27	10/20/2009 21:39	0.200	659.00	687.00	28.00	140.0	ROTATE	0.0	M	684.35	0.43	120.90	-0.05	0.11	0.05	100	10.0	4.1	1200	3770	3794	24	
10/20/2009 21:46	10/20/2009 21:58	0.200	687.00	715.00	28.00	140.0	ROTATE	0.0	M	713.04	0.53	133.63	0.10	13.31	0.15	100	10.0	4.3	1200	3769	3821	52	
10/20/2009 22:06	10/20/2009 22:19	0.217	715.00	745.00	30.00	138.5	ROTATE	0.0	M							100	15.0	4.6	1200	3795	3822	27	
10/20/2009 22:31	10/20/2009 22:43	0.200	745.00	773.00	28.00	140.0	ROTATE	0.0	M							100	16.0	4.1	1200	3995	4046	51	
10/20/2009 22:53	10/20/2009 23:07	0.233	773.00	802.00	29.00	124.3	ROTATE	0.0	M							100	10.0	4.1	1200	4002	4063	61	
10/20/2009 23:16	10/20/2009 23:27	0.183	802.00	831.00	29.00	158.2	ROTATE	0.0	M							100	20.0	5.2	1150	3758	3894	136	
10/20/2009 23:38	10/20/2009 23:50	0.200	831.00	860.00	29.00	145.0	ROTATE	0.0	M							100	25.0	6.2	1150	3764	3866	102	
10/20/2009 23:58	10/21/2009 0:10	0.200	860.00	889.00	29.00	145.0	ROTATE	0.0	M							100	20.0	7.0	1150	3770	3869	99	
10/21/2009 0:18	10/21/2009 0:30	0.200	889.00	918.00	29.00	145.0	ROTATE	0.0	M							100	25.0	6.1	1150	3682	3867	185	
10/21/2009 0:37	10/21/2009 0:52	0.250	918.00	945.00	27.00	108.0	ROTATE	0.0	M							100	22.0	4.7	1130	3561	3682	121	
10/21/2009 0:58	10/21/2009 1:11	0.217	945.00	973.00	28.00	129.2	ROTATE	0.0	M	972.34	0.91	95.08	0.04	-4.46	0.07	100	30.0	6.9	1150	3710	3762	52	
10/21/2009 1:17	10/21/2009 1:31	0.233	973.00	1004.00	31.00	132.9	ROTATE	0.0	M	1001.37	0.91	84.18	0.00	-11.26	0.18	100	28.0	6.6	1150	3701	3850	149	
10/21/2009 1:38	10/21/2009 1:51	0.217	1004.00	1033.00	29.00	133.8	ROTATE	0.0	M							100	28.0	7.4	1150	3790	3890	100	
10/21/2009 1:58	10/21/2009 2:20	0.367	1033.00	1062.00	29.00	79.1	ROTATE	0.0	M	1059.78	0.95	75.47	0.02	-4.47	0.08	100	38.0	8.7	1150	3760	3862	102	
10/21/2009 2:30	10/21/2009 3:10	0.667	1062.00	1092.00	30.00	45.0	ROTATE	0.0	M	1090.08	0.78	51.04	-0.17	-24.19	0.40	90	60.0	11.9	1160	3767	4041	274	
10/21/2009 3:18	10/21/2009 4:04	0.767	1092.00	1120.00	28.00	34.5	ROTATE	0.0	M	1117.31	0.70	46.36	-0.09	-5.16	0.11	90	60.0	11.2	1160	3766	4015	249	
10/21/2009 4:11	10/21/2009 4:36	0.417	1120.00	1149.00	29.00	69.6	ROTATE	0.0	M							75	60.0	11.0	1130	3660	3947	287	
10/21/2009 4:45	10/21/2009 5:27	0.700	1149.00	1178.00	29.00	41.4	ROTATE	0.0	M							75	60.0	13.4	1120	3545	3799	254	
10/21/2009 5:37	10/21/2009 5:56	0.317	1178.00	1207.00	29.00	91.6	ROTATE	0.0	M	1203.66	0.94	59.46	0.08	4.55	0.11	70	60.0	11.6	1120	3580	3769	209	
10/21/2009 6:03	10/21/2009 6:35	0.533	1207.00	1235.00	28.00	52.5	ROTATE	0.0	M							100	40.0	7.9	1130	3750	4000	250	
10/21/2009 6:46	10/21/2009 7:24	0.633	1235.00	1264.00	29.00	45.8	ROTATE	0.0	M	1251.88	0.96	60.07	0.01	0.38	0.01	100	45.0	10.0	1120	3590	3900	310	
10/21/2009 7:33	10/21/2009 8:30	0.950	1264.00	1284.00	20.00	21.1	ROTATE	0.0	M							80	55.0	10.0	1120	3650	3950	300	

Job Number: 09ASQ0030
Company Rep: Dennis Bell/Kevin
Run Number: 1

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ

Rig Name: Ocean Patriot
Well Name: Somerset-1

Run Information

Date In		Date Out		Drilling Distance:		Drilling Hours:	
20-Oct-2009	2:30PM	21-Oct-2009	2:45PM	711.50 m	711.50 m	8.67 hrs	8.67 hrs
Depth (MD):	572.5 m	to	1284.0 m	Rotary Drilling Distance:	711.50 m	Rotary Drilling Hrs:	8.67 hrs
Depth (TVD):	572.5 m	to	1283.9 m	Sliding Distance:	0.00 m	Sliding Hours:	0.00 hrs
Inclination:	0.00 deg	to	0.95 deg	Reaming Distance:	0.00 m	Reaming Hours:	5.00 hrs
Azimuth:	0.00 deg	to	60.00 deg			Hrs Below Rotary:	24.25 hrs
Hole Size:	17.50 in					Total Pumping Hrs:	12.50 hrs
Last Casing Size:	30.000 in			North Ref Used:	Grid North	Min DLS:	0.00 deg/30 m
Last Casing Depth:	570.6 m (MD)			Magnetic Dec:	11.033 deg	Max DLS:	0.00 deg/30 m
Tool Face Arc:	26.1 cm			Grid Correction:	-1.109 deg	Surface Screen:	No
Total Face Angle:	115.37 deg			Total Correction:	12.142 deg	DFS Used:	No
				Est. Mag. Int:	0.00 deg	Inline Filter:	No

Rig Information

Rig Type:	Semi-Submersible	Pump Type:	Triplex
Water Depth:	503.00 m	Pulse Damp Press:	1,000 psi
Air Gap:	21.51 m	Number of Pumps:	3
RKB Height:	21.51 m	Pump Line ID:	6.00 in
Ground Elevation:	-503.00 m	Pump Output:	4.30 galUS/stroke
		Pump Stroke Len:	12.00 in

Run Objective

To drill the 445mm (17.50in) hole section to allow for the setting of the 13.625 in casing.
 The planned casing point is 1268mMD.

D&M Crew List:

Cell Manager: Marganda Sihite
 Crew: Vedat Ali Degirmenci, DD
 Daniel Priestley, DD
 Marganda Sihite, Cell Manager
 Russell Yap, MWD

DH Motor Information

Manufacturer:	D&M	Bit to Bend Dist:	2.29 m
Motor Type:	PowerPak	Bearing Play In:	0.00 in
Motor Size:	9.50	Bearing Play Out:	in
Serial No.:	1069	Bent Sub Angle:	0.7799 deg
Lobe Config:	7:8	Bent HSG Angle:	0.7799 deg
Stage Length:	4.80 m		
Rubber:	HN234		
Sleeve Position:			
Sleeve Size:	17.25 in		
Bearing Type:	Mud Lubricated		

RSS Information

RSS Manufacturer:	
RSS Type:	
RSS SN:	
RSS Size:	
Pulse Ht Threshold:	
Min Pulse Width:	
Max Pulse Width:	
Conn Phase Angle:	deg
Rise Time Const:	
Fall Time Const:	
Digit Time:	

MWD Configuration

Mod Type:	QPSK	Int Tool Face Offset:	deg	Bit Rate:	3 bps	Slimpulse Pulser Config:	
Mod Gap:	0.16000 in	Turbine Config:	600-1200 galUS/min	Frequency:	12 Hz	Pred Sig Strength @ TD:	psi
SPT Type:	HA						

Job Number: 09ASQ0030 **Company:** WOODSIDE ENERGY LTD **Rig Name:** Ocean Patriot
Company Rep: Dennis Bell/Kevin **Location:** MEA-APG-ASQ **Well Name:** Somerset-1
Run Number: 1

Drilling Parameters

	<u>Min</u>	<u>Max</u>	<u>Avg</u>		
BH Temperature:	19.00 degC	22.75 degC	20.64 degC	Total DH Shocks (k):	0 k
Surface RPM:	80.00 rpm	100.00 rpm	95.00 rpm	Max Shock Level:	0
ROP:	49.76 m/hr	72.13 m/hr	82.06 m/hr	Max Shock Duration:	0 sec
Surface Torque:	4.00 kft.lbf	8.00 kft.lbf	5.70 kft.lbf	Checkshot Type:	
Flow Rate:	1,000.00 galUS/min	1,200.00 galUS/min	1,125.50 galUS/min	Checkshot Depth:	m
WOB Sliding:				Checkshot Incl:	deg
				Checkshot Azim:	deg
Average Pump Pressure:	262 psi			H2S In Well:	No
Turbine RPM @ Min Flow Rate:	4,218 rpm	Min Flow Rate:	1,000.00galUS/min	SPP Off Bottom:	3,545.00 psi
Turbine RPM @ Max Flow Rate:	4,218 rpm	Max Flow Rate:	1,200.00galUS/min	SPP On Bottom:	3,810.00 psi

Mud Information

Mud Type:	Gel	Mud Clean:	No	pH:	
Mud Company:	M-I Swaco	LCM Type:		Chlorides:	300.00 ppm
Mud Brand:		LCM Size:		Sand Content:	%
Funnel Viscosity:	100.00 s/qt	LCM Concentration:	lbs/bbl	Solids:	%
Plastic Viscosity:	cp	Weighting Material:		Percent Oil:	%
Yield Point:	lbm/100ft2	Mud Weight:	8.68 lbm/galUS		
Mud Resistivity:	ohm-m				

IADC Bit Grading

Manufacturer: Smith **Total Revs:** 104,522.00 **IADC Code:** 115
Model: VR+VEJ3PS **Stick/Slip:** **Jets (/ 32 in):** 3X12 3X16
Type: Milltooth **Reason Pulled:** Total Depth/Casing Depth **Bit TFA:** 0.92 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
1.00	2.00	WT	A E		I	NO

End of Run - Summary

Sync Hours: 7.67 hrs **Downhole Noise:** Yes **Run Failed:** No
Jamming: No 0.00 hrs **Surface System Failure:** No **D&M Trip:** No
Surface Vibration: No **Surface Noise:** No **Low Oil Flag:** No 0.00 hrs
Trans Fail: No **H2S in Well:** No **Filter Screen/Plug Shear:** No

Client Inconvenience: No **Lost Time:** hrs

Reason for POOH: Total Depth/Casing Depth

D&M Run Obj Met? [DD and MWD/LWD]: Yes

Brief Run Summary:

If not, why?:

TeleScope with PowerPak motor was picked up to drill 17.50 in section of Somerset-1. The TeleScope was programmed with standard frame with telemetry rate 12Hz/6.4 bps. The BHA was made up and rack back on the derrick. There was not SHT performed for the BHA which was decided by the client.

Run in hole and tag cement at 568 m MD and drilling ahead to the new formation at 573 m MD.

During the run, minimum shocks and vibrations observed. Tool H was out of FAC due to drillstring magnetic interference. Reached TD at 1284 m MD, circulating hole cleaning and POOH. End the end of the run the Surveys were DMAG'd and sent to the client.

Job Number: 09ASQ0030
Company Rep: Dennis Bell/Kevin
Run Number: 1

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ

Rig Name: Ocean Patriot
Well Name: Somerset-1

Equipment on the Run

Equipment	Pump Hours		Software Version	Tool Size
	Start	Cumulative		
A962M-1069	0.00 hrs	12.50 hrs		9.50 in
MDC-DD-FL62	0.00 hrs	12.50 hrs	9.2	8.25 in
NMDC-8A-ASQ98015	0.00 hrs	12.50 hrs		8.25 in
SZS9S-IBS-207A211	0.00 hrs	12.50 hrs		9.63 in

Services on the Run

Equipment	Service	Tool Name	Real Time			Recorded Mode			CAF
			Hours	Failed	Depth	Hours	Failed	Depth	
MOTORS	PowerPak	PowerPak	12.50 hrs		711.5 m	hrs			
MWD	D&I	TeleScope	12.50 hrs		711.5 m	24.25 hrs		711.5 m	
MWD	Cont D&I	TeleScope	12.50 hrs		711.5 m	hrs			

Job Number: 09ASQ0030

Company: WOODSIDE ENERGY LTD

Rig Name: Ocean Patriot

Company Rep: Dennis Bell/Kevin

Location: MEA-APG-ASQ

Well Name: Somerset-1

Run Number: 1

BHA Type: Steerable Motor

Item	Description	Vendor	Tool Name	Serial Number	Length	OD, in	ID, in	Fishing Neck		Stab	Bottom Connection		Top Connection		Cumul Len	
								OD, in	Len, m	OD, in	Size	Type	Size	Type		
1	BIT	Smith	Milltooth	PM6863	0.44 m	17.50	3.75						7 5/8"	API REG PIN	0.44 n	
2	MOTORS	D&M	PowerPak	1069	10.79 m	9.50	7.85	9.63	0.58			7 5/8"	API REG BOX	7 5/8"	API REG BOX	11.23 n
3	STABILIZER	D&M	17 1/4" Stabilizer	207A211	2.17 m	9.63	3.06	9.50	0.69	17.25		7 5/8"	API REG PIN	7 5/8"	API REG BOX	13.40 n
4	DRILL COLLAR	Ocean Patriot	9 1/2" Drill Collar	186-012	9.48 m	9.50	3.00					7 5/8"	API REG PIN	7 5/8"	API REG BOX	22.88 n
5	REAMER	Redback	17 1/4" Roller Reamer	GU3359	2.47 m	9.63	3.00	9.63	0.77	17.25		7 5/8"	API REG PIN	7 5/8"	API REG BOX	25.35 n
6	CROSSOVER		Crossover	ASQ8115	0.47 m	9.83	3.50	8.44	0.19			7 5/8"	API REG PIN	6 5/8"	API FH PIN	25.82 n
7	MWD	D&M	TeleScope	FL62	7.55 m	8.25	5.90	8.31	7.55			6 5/8"	API FH BOX	6 5/8"	API FH BOX	33.37 n
8	SUB		Saver Sub	04324-1	0.55 m	8.38	4.25	8.38	0.55			6 5/8"	API FH PIN	6 5/8"	API REG BOX	33.92 n
9	DRILL COLLAR - NONMAG	D&M	NMDC	ASQ98015	9.07 m	8.25	2.88	8.25	9.07			6 5/8"	API REG PIN	6 5/8"	API REG BOX	42.99 n
10	DRILL COLLAR	Ocean Patriot	8 x 8" Drill Collar	186-00##	73.33 m	8.00	2.81					6 5/8"	API REG PIN	6 5/8"	API IF BOX	116.32 n
11	JAR	Smith	Hydraulic Jar	97984G	9.75 m	8.01	3.00	8.25	0.75			6 5/8"	API REG PIN	6 5/8"	API REG BOX	126.07 n
12	DRILL COLLAR	Ocean Patriot	2 x 8" Collars	186-00##	18.67 m	8.00	2.81					6 5/8"	API REG PIN	6 5/8"	API REG BOX	144.74 n
13	CROSSOVER	Ocean Patriot	Corssover	GUD-1296-2	1.11 m	8.25	2.75					6 5/8"	API REG PIN	4 1/2"	API IF BOX	145.85 n
14	HWDP	Ocean Patriot	15 x 5" HWDP	186-###	142.17 m	5.00	3.00					4 1/2"	API IF PIN	4 1/2"	API IF BOX	288.02 n

Predicted BHA Tendency: Holding

Hookload Out:

Wt Below Jars:

Pickup Out:

Wt Above Jars:

Slack Weight:

Total Air Wt:

Stab Description	Mid Pt to Bit	Blade			Gauge			Bit to Read Out Port	Bit to Measurement Port
		Type	Len	Width	Len	In	Out		
17 1/4" Stabilizer							MOTORS-PowerPak	TeleScope-D&I 29.46 m	
							MWD-TeleScope 27.10 m		

Job Number: 09ASQ0030 **Company:** WOODSIDE ENERGY LTD
Company Rep: Dennis Bell/Kevin **Location:** MEA-APG-ASQ
Run No: 1

Rig Name: Ocean Patriot
Well Name: Somerset-1

From	To	Elapsed	Depth in m		IADC Activity	Description
			From	To		
15-Oct-2009						
00:00	12:00	12.00	0.0	0.0	Other	Begin tow to Somerset-1
12:00	00:00	12.00	0.0	0.0	Other	Continue tow to Somerset-1
16-Oct-2009						
00:00	12:00	12.00	0.0	0.0	Other	Tow to location of Somerset-1
12:00	00:00	12.00	0.0	0.0	Other	Continue to tow to Somerset-1
17-Oct-2009						
00:00	12:00	12.00	0.0	0.0	Other	Under tow to Somerset-1
12:00	15:30	3.50	0.0	0.0	Other	Continue to tow to location
15:30	00:00	8.50	0.0	0.0	Other	Set anchors 4, 8, 5 and 1
18-Oct-2009						
00:00	09:00	9.00	0.0	0.0	Other	Continue anchor handling operations. Set Anchors 1, 6, 2, 7, 3. Begin ballasting.
09:00	12:00	3.00	0.0	0.0	PU / LD BHA / Tripping	Commence pulling up drill pipe and HWDP and racking back in derrick.
12:00	13:00	1.00	0.0	0.0	PU / LD BHA / Tripping	Pick up and make up cement stand and 30in rotary table, rack back same while re-running anchor 2
13:00	16:30	3.50	0.0	0.0	PU / LD BHA / Tripping	Pick up and make up 15 joints of 8" drill collars and 1 8" jar and rack back same in derrick.
16:30	17:30	1.00	0.0	0.0	PU / LD BHA / Tripping	Pick up motor assembly and rack back same. Continue ballasting down.
17:30	18:30	1.00	0.0	0.0	Other	Ballasting rig through critical draft.
18:30	20:00	1.50	0.0	0.0	PU / LD BHA / Tripping	Adjust motor as per Schlumberger, pick up TeleScope and rack back same in derrick. Rig ballasted to operational draft of 23.5m at 19:30
20:00	22:00	2.00	0.0	0.0	PU / LD BHA / Tripping	hold PJSM. Picked up 39 joints of 5" drill pipe to 375m. Commence making spud mud.
22:00	23:00	1.00	0.0	0.0	PU / LD BHA / Tripping	POOH from 375m to surface, racking back 5" drill pipe in derrick.
23:00	23:30	0.50	0.0	0.0	Other	Lay out mousehole, change elevators and clean floor.
23:30	00:00	0.50	0.0	0.0	PU / LD BHA / Tripping	Pick up 1 joint of 9 1/2" Drill collar
19-Oct-2009						
00:00	02:00	2.00	0.0	0.0	PU / LD BHA / Tripping	Hold PJSM. Pick up 26 x 36" spudding assembly.
02:00	04:00	2.00	0.0	0.0	Other	Hold PJSM. Move TGB under rotary table. Install guidelines, latch 26" bit to TGB. Take bullseye reading with TGB in air: port 1deg
04:00	08:00	4.00	0.0	518.0	PU / LD BHA / Tripping	Run in with 26 x 36" assembly with TGB and guides attached.
08:00	09:30	1.50	518.0	518.0	Other	Continue to build spud mud. Move PGB and secure to BOP trolley. Held shallow gas safety meeting.
09:30	11:30	2.00	518.0	524.5	PU / LD BHA / Tripping	Position rig for landing of TGB on seabed. Set 15K down and have ROV release TGB from 26" bit.
11:30	12:00	0.50	524.5	534.0	Reaming / Hole opener / Unc	Drill 26 x 36" hole. Drill at reduced rate.
12:00	15:30	3.50	534.0	572.0	Reaming / Hole opener / Unc	Drill 36" hole at 900gpm, 1200psi & 70rpm, pumping 50bbls gar gum sweeps every single & spotting 100bbls of prehydrated gel around BHA during connection.
15:30	16:00	0.50	572.0	572.0	Circulate / Condition mud	Circulate hole clean by pumping 150bbl gel sweep followed by 100bbl sweep.
16:00	16:30	0.50	572.0	572.0	Circulate / Condition mud	Spot 300 bbl pre-hydrated gel
16:30	17:00	0.50	572.0	175.0	PU / LD BHA / Tripping	POOH
17:00	18:00	1.00	175.0	0.0	PU / LD BHA / Tripping	POOH to surface racking back in derrick
18:00	19:00	1.00	0.0	0.0	Other	Rig up to run 30" casing and prepare PGB in moon pool
19:00	21:00	2.00	0.0	0.0	Run casing / cement	Hole PJSM. Pick up and run 30" casing, welding each connection.
21:00	21:30	0.50	0.0	0.0	Run casing / cement	Make up cement stinger inside 30" casing.

Job Number: 09ASQ0030 **Company:** WOODSIDE ENERGY LTD
Company Rep: Dennis Bell/Kevin **Location:** MEA-APG-ASQ
Run No: 1

Rig Name: Ocean Patriot
Well Name: Somerset-1

From	To	Elapsed	Depth in m		IADC Activity	Description
			From	To		
21:30	22:00	0.50	0.0	0.0	Run casing / cement	Make up the 30" casing at the rotary table.
22:00	00:00	2.00	0.0	0.0	Run casing / cement	Land and latch well head in PGB
20-Oct-2009						
00:00	00:30	0.50	0.0	0.0	Run casing / cement	Complete installing guidelines into TGB. Take bullseye reading.
00:30	02:00	1.50	0.0	0.0	PU / LD BHA / Tripping	Run in hole with 30" conductor and PGB.
02:00	02:30	0.50	0.0	0.0	Run casing / cement	ROV assist with stabbing 30" conductor into TGB.
02:30	04:30	2.00	0.0	0.0	PU / LD BHA / Tripping	Continue running in hole with 30" conductor & PGB. Wash down and work through tight spots. Pump spots as required.
04:30	05:00	0.50	0.0	0.0	Rig up / Rig down	Hold PJSM and rig up for cement job.
05:00	05:30	0.50	0.0	0.0	Circulate / Condition mud	Land out 30" conductor and PGB on TGB with 60K down. Bullseye reading before landing = 5°.
05:30	07:00	1.50	0.0	0.0	Run casing / cement	PJSM for cement job.
07:00	07:30	0.50	0.0	0.0	Rig up / Rig down	Break circulation and pressure test lines to 2000psi. Mix and pump 160bbls of cement slurry. Displace cement with 36bbls of sea water.
07:30	08:00	0.50	0.0	0.0	Run casing / cement	Rig down cement line.
08:00	09:00	1.00	0.0	0.0	PU / LD BHA / Tripping	Release 30" running tool from 30" conductor. Flush through landing string with 50bbls of sea water.
09:00	10:00	1.00	0.0	0.0	PU / LD BHA / Tripping	Pull out with running tool to surface.
10:00	11:30	1.50	0.0	0.0	PU / LD BHA / Tripping	Lay down running tool and cement stinger. Lay down cement stand.
11:30	12:00	0.50	0.0	0.0	PU / LD BHA / Tripping	Pick up 30 joints of drill pipe from catwalk
12:00	13:00	1.00	0.0	0.0	PU / LD BHA / Tripping	Pull out and rack back 10 stands in derrick. Make up 6m pup and TIW up to cement head on catwalk while pulling out
13:00	16:30	3.50	0.0	288.0	PU / LD BHA / Tripping	Make up cement stand and rack back in derrick.
16:30	18:00	1.50	288.0	489.0	PU / LD BHA / Tripping	Make up 17.5" bit and lower through moonpool and tie guide ropes on mud motor, continue to trip in hole.
18:00	18:30	0.50	489.0	546.0	PU / LD BHA / Tripping	Hold PJSM. Pick up 5" drill pipe.
18:30	19:00	0.50	546.0	567.0	PU / LD BHA / Tripping	Trip in hole.
19:00	20:00	1.00	567.0	572.5	Reaming / Hole opener / Unc	Hold PJSM for shallow gas procedures. Continue to trip in hole, tag cement.
20:00	00:00	4.00	572.5	861.0	Drilling	Drill out cement and shoe track. pump 50bbls gar gum, work though shoe 3 times.
						Drill 17.5" hole, pumping 100bbl gel sweeps and spotting same around BHA on every connection.
21-Oct-2009						
00:00	08:30	8.50	861.0	1284.0	Drilling	Drilling f/816 - 1284 m

Job Number: 09ASQ0030
Company Rep: Dennis Bell/Kevin
Run Number: 1

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ

Rig Name: Ocean Patriot
Well Name: Somerset-1

	21-Oct-2009 4:59 AM	21-Oct-2009 12:47 AM	20-Oct-2009 10:44 PM	20-Oct-2009 9:14 PM
Field Engineer	Russell Yap	Russell Yap	Russell Yap	Russell Yap
Depth	1,155.00 m	923.00 m	765.00 m	641.00 m
Avg ROP	28.68 m/hr	28.68 m/hr	30.37 m/hr	30.37 m/hr
On Bottom ROP	90.58 m/hr	90.58 m/hr	72.13 m/hr	72.13 m/hr
Flow Rate	1,150.00 galUS/min	1,152.00 galUS/min	1,000.00 galUS/min	1,200.00 galUS/min
Turbine RPM	3,906 rpm	3,945 rpm	4,218 rpm	4,218 rpm
Surface RPM	80 rpm	100 rpm	100 rpm	100 rpm
WOB Rotating	60.00 klbm	20.00 klbm	8.00 klbm	8.00 klbm
WOB Sliding				
DH WOB				
Surface Torque	6.70 kft.lbf	8.00 kft.lbf	4.00 kft.lbf	4.10 kft.lbf
DH Torque				
Hookload	260 klbm	245 klbm	240 klbm	220 klbm
PickUp Weight	260.00 klbm	240.00 klbm	230.00 klbm	225.00 klbm
Slack Weight	260.00 klbm	240.00 klbm	230.00 klbm	220.00 klbm
Friction				
SPP On Bottom	3,980.00 psi	3,900.00 psi	4,200.00 psi	3,810.00 psi
SPP Off Bottom	3,545.00 psi	3,561.00 psi	3,995.00 psi	3,740.00 psi
Diff Pressure	435 psi	339 psi	205 psi	70 psi
BH Temperature	22.75 degC	21.80 degC	19.00 degC	19.00 degC
Total Shocks (k)				
Max Shock Level				
Max Shock Duration				
Torsional Vib				
Lateral Vib				
Axial Vib				
CRPM	81 rpm	103 rpm	93 rpm	91 rpm
Stick/Slip	27	18	18	15
Formation	Claystone	Claystone	Claystone	Claystone
Signal Strength	10.10 psi	16.20 psi	10.00 psi	9.00 psi
Percent Signal Conf	93 %	78 %	98 %	93 %


Job Number: 09ASQ0030
Company Rep: Dennis Bell/Kevin
Run Number: 1

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ

Rig Name: Ocean Patriot
Well Name: Somerset-1

Date/Time	Depth		Description
15-Oct-2009 3:00PM	0.0	m	Tools Checked, Unit powered up and systems checked. Computers initialised and software checked.
15-Oct-2009 5:00PM	0.0	m	Tools strapped and programming set up. Tools programmed and checked. Waiting on communications connection for reporting / communication with town.
16-Oct-2009 6:00AM	0.0	m	Waiting on communicaitons to be rigged up. Software setup continued.
16-Oct-2009 8:00AM	0.0	m	Basic geograph service conducted. Sensors checked. Hook Load sensor to be rigged up. Sensor checks pass.
16-Oct-2009 8:30AM	0.0	m	Connection to mud loggers established and checked. WITS communications set up but need to be checked. Waiting on communications.
16-Oct-2009 12:00PM	0.0	m	Hook Load sensor installed and checked. Sensor positioned well above BHI sensor
17-Oct-2009 4:00AM	0.0	m	BHA Details input into systems and cross checked.
17-Oct-2009 11:00AM	0.0	m	Anchors in progress of being set. Awaiting 4th anchor before operations on drill floor begin. All anchors to be set and rig balasted in to safe zone before attempting ot pick up BHA / Drill pipe.
18-Oct-2009 1:20AM	0.0	m	IRCT is made functional on the rig floor and tested. Fourth anchor set, mouse hole picked up.
18-Oct-2009 4:30PM	0.0	m	NMDC made up
18-Oct-2009 5:00PM	0.0	m	Made up the motor, stabiliser, drill collar and roller reamer.
18-Oct-2009 6:25PM	0.0	m	Float was removed from the motor and replaced with a non-ported float
18-Oct-2009 6:45PM	0.0	m	Motor retorqued.
18-Oct-2009 7:00PM	0.0	m	Bend set to 0.78deg and motor retorqued. Motor scribed.
18-Oct-2009 7:35PM	0.0	m	Made up and torqued the MWD. Motor scribed and toolface offset calculated. TFO = 115.37
18-Oct-2009 8:00PM	0.0	m	17 1/2" BHA was racked bcaek in the derrick
19-Oct-2009 12:00AM	0.0	m	Begin making up 36" BHA in derrick.
19-Oct-2009 9:00PM	0.0	m	30" conductor casing ran.
20-Oct-2009 4:13AM	0.0	m	Problems with landing casing. Casing being pumped to bottom.
20-Oct-2009 5:43AM	0.0	m	Cement job commenced.
20-Oct-2009 2:20PM	0.0	m	Make up the bit to Motor
20-Oct-2009 2:30PM	0.0	m	Bit Below Rotary Table
20-Oct-2009 4:00PM	300.0	m	Continue RIH
20-Oct-2009 4:10PM	380.0	m	Having problem with the Hookload sensors. The reading jumping arround -50 to 600 klbft
20-Oct-2009 5:10PM	400.0	m	Change the hookload sensor and the reading is a litle bit stable eventhough still happening couple times.
20-Oct-2009 5:40PM	450.0	m	Continue RIH, pick up single
20-Oct-2009 6:15PM	546.0	m	Geolograph Hooked up
20-Oct-2009 6:52PM	547.0	m	Tie in to depth, hook load calibrated
20-Oct-2009 7:54PM	571.0	m	On bottom threshold adjusted to 0.6m
20-Oct-2009 8:15PM	573.0	m	Pumping 40 bbls of water
20-Oct-2009 8:26PM	574.0	m	Drilled out casing shoe, about to drill new formation.
21-Oct-2009 3:30AM	1099.0	m	Low signal confidence observed after sweep. Frame qualite = Bad. drilling fluid changed back to sea water.
21-Oct-2009 8:30AM	1284.0	m	TD called
21-Oct-2009 8:52AM	1284.0	m	Circulate hole cleaning and prepare for POOH
21-Oct-2009 1:17PM	150.0	m	Continue POOH and rack back the HWDP
21-Oct-2009 2:45PM	0.0	m	Bit above rotary
21-Oct-2009 3:00PM	0.0	m	Rack back all the tools

Bit Performance Report

Bit Performance Report		Schlumberger	
Run Number	2	BHA Type	Steerable Motor Assem
BHA Number	2		
Bit Manufacturer	Smith	Bit Name	XR+VEJ3PS
Bit Serial Number	PM6863		
Bit TFA	0.92 sq. in.	Effective Gauge Length (inches)	
Date in	20-Oct-09	Date out	21-Oct-09
Depth in	572m	Depth out	1286m
Inclination in	0°	Inclination out	1°
Azimuth in	0°	Azimuth out	60°
Steerability			
No steering was required in this hole section.			
Shock Levels			
No shocks were seen.			
Stick/Slip Behavior (Comparison with offsets)			
No stick/slip was seen.			
ROP Behavior (Comparison with offsets)			
ROP was faster than expected. The average ROP was 110m/hr.			
Any other observations			
Dull Bit Grading		Formation Tops / Max DLS Capability	
1	1 W A E I PN TD	Name	Depth (TVD)
Comments			
This was a good run, with no shocks or stick/slip seen. The ROP was better than expected.			
Pre-Run Pictures			
Top View		Side View	
			
Post Run Pictures			
Top View		Side View	
			

Schlumberger Private

2.2 311 mm (12 ¼" Hole Section)

Rig BHA # 3 / Rig Bit Run # 3 / ERS Run # 2

Objectives

- Drill 12 ¼" hole section to well plan.
- Drill the 12 ¼" hole section in 1 run.
- Maintain the 12 ¼" hole section below 1 deg inclination whilst maximizing ROP.

Results

- This 12 ¼" section was a good run. The inclination was 1.17degs at 2863m MD. The hole was in very good condition.
- A kick was taken at a bit depth of 2912m MD. The kick was killed with 14.2ppg mud and when the BOP was opened up the drill pipe was moved.
- The drill pipe showed little signs of cavings. The BHA was back reamed out off the hole.

Highlights

- Higher than expected ROP.
- No shocks were seen.
- Very good hole with little torque and drag seen.

Lowlights

- Medium to high stick/slip was seen when changing formation. Stick/slip was negligible for the rest of the drilling.
- A kick was taken at 2912m MD. The kick was killed with 14.2ppg mud.

Recommendations

BHA Data Sheet Woodside Energy Ltd - Somerset-1

BHA #	Somerset-1_12 1/4" Rotary BHA-Rev1	Date	October 24, 2009
Field	Woodside/T/34P/Somerset	Well	Somerset-1
Structure	Somerset	Borehole	Somerset-1

Item	Name	Vendor/Model	Serial #	Fish. Neck OD (in)/ Length (m)	OD (in)/ ID (in)	Max OD (in)	Bottom/ Top Connection	Length (m)	Cum. Length (m)
1	12 1/4" Bit	Smith	JD0772		8.00	12.25		0.33	0.33
		MDSI-716 HVPX				3.25	6.63 Reg Pin		
2	12 1/4" NB Stabilizer	Schlumberger	207A118	8.06	8.06	12.25	6.63 Reg Box	2.56	2.89
	w/ Float Valve			0.91	2.81		6.63 Reg Box		
3	8" Pony NMDC	Schlumberger	ASQ8020		8.00	8.00	6.63 Reg Pin	2.90	5.79
					2.81		6.63 Reg Box		
4	12 1/4" String Stabilizer	Schlumberger	207A188	8.00	8.00	12.25	6.63 Reg Pin	1.75	7.54
				0.46	2.88		6.63 Reg Box		
5	Saver Sub	Schlumberger	ASQ8010	8.00	8.00	8.38	6.63 Reg Pin	0.38	7.92
				0.10	3.00		5.50 IF Pin		
6	ARC-8	Schlumberger	2724	8.38	8.25	9.10	5.50 IF Box	5.44	13.36
		ARC-8		1.40	2.81		6.63 FH Box		
7	12 1/8" In-Line Stabilizer	Schlumberger	ASQ9029	8.38	8.38	12.13	6.63 FH Pin	0.91	14.27
				0.31	4.25		6.63 FH Pin		
8	8 1/4" Telescope (MWD)	Schlumberger	ZH22		8.25	8.41	6.63 FH Box	7.68	21.95
					5.90		6.63 FH Box		
9	Saver Sub	Schlumberger	ASQ8083	8.00	8.00	8.38	6.63 FH Pin	0.38	22.33
				0.10	3.00		6.63 FH Box		
10	12 1/8" In-Line Stabilizer	Schlumberger	OSS080812	8.38	8.38	12.13	6.63 FH Pin	0.85	23.17
				0.31	3.00		6.63 FH Pin		
11	sonicVISION 825	Schlumberger	42784	8.31	8.38	9.00	6.63 FH Box	6.88	30.05
				1.33	4.00		6.63 FH Box		
12	Saver Sub	Schlumberger	SBD4791		8.38	8.38	6.63 FH Pin	0.30	30.35
					4.25		6.63 FH Pin		
13	ADN-8 w/ 12" Stab	Schlumberger	42709		8.25	12.00	6.63 FH Box	6.34	36.69
					3.25		6.63 FH Box		
14	Saver Sub X/O	Schlumberger	2149	8.06	8.06	9.13	6.63 FH Pin	2.50	39.19
				2.14	3.00		6.63 Reg Box		
15	6 x 8" Drill Collar (6 joints)	Ocean Patriot			8.00	8.00	6.63 Reg Pin	54.68	93.87
					2.81		6.63 Reg Box		
16	8" Hydraulic Jar	Smith International	97984G	8.25	8.01	8.25	6.63 Reg Pin	9.75	103.62
				0.75	3.00		6.63 Reg Box		
17	2 x 8" Drill Collar (2 joints)	Ocean Patriot			8.00	8.00	6.63 Reg Pin	18.65	122.27
					2.81		6.63 Reg Box		
18	Crossover	Ocean Patriot	GUD-1296-2		8.25	8.25	6.63 Reg Pin	1.11	123.38
					2.75		4.50 IF Box		
19	15 x 5" HWDP (15 joints)	Ocean Patriot			5.00	6.50	4.50 IF Pin	142.17	265.55
					3.00		4.50 IF Box		
20	5" DP to Surface	Ocean Patriot			4.93	6.63	4.50 IF Pin		
					4.28		4.50 IF Box		
Total Weight (lbf)							81115	Total Len.	265.55
Below Jar (lbf)							44240.9		

BHA Comments:	

Stabilizer	
Blade Length (m)	Mid-Pt. To Bit (m)
0.38	1.52
0.44	6.57
0.41	13.72
0.41	22.69
1.09	33.38
	Bend To Bottom
Bent Housing Angle (deg)	Connection (m)

Sensor	
Type	Distance To Bit (m)
APWD	9.31
Resistivity	10.03
Gamma Ray	10.08
D&I	18.05
Sonic	27.43
Density	33.61
Neutron	35.59

Bit Nozzles	
Count	Size(1/32 in)
10	12.00
TFA (in2)	1.10
Quality Control	
Created By:	VDegirmenci
Checked By:	

Schlumberger Private

Drilling Parameters Report

Slide Sheet

BHA: Somerset-1_12 1/4" Rotary BHA-Rev1

Client: Woodside Energy Ltd	Well: Somerset-1	Directional Driller: Vedat Ali Degimenci		
Field: Woodside/T34P/Somerset	Borehole: Somerset-1	Directional Driller: Daniel Priestley		
Structure: Somerset		Job #: 09AS00030		
Depth In: 1284.00	Depth Out: 2912	Total Distance: 1629.00	Total Time: 43.1	Total ROP: 37.8
Inclination In: 0.46	Inclination Out: 1.20	ROTATE: 0.00	% ROTAT: 0.0	Time: 0.0
Azimuth In: 85.16	Azimuth Out: 155.00	MAX_OD: 1629.00	% MAX_O: 100.0	43.1
				MAX_OD ROP: 37.8

Comments: This was a good holding BHA. The average ROP was 37.8m/hr.

Statistics:

Min	Max	Sum	Min	Max	Sum	Avg	None	Avg	Max	Max	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg	Avg
	27/10/09 21:35	43.083	1284.00	2913.00	1629.00	40.0		0.0	M	2912.00	0.95	172.28	0.01	3.32	0.13	162	29.9	9.6	924	

Start Time (d/m/yy h:mm)	End Time (d/m/yy h:mm)	Duration (hr)	Md From (m)	Md To (m)	Course (m)	Calc ROP (m/hr)	Orienting Method	TF Angle (°)	TF Mode (G/M)	Svy Md (m)	Incl (°)	Azmth (°)	BR (° / 30 m)	TR (° / 30 m)	DLS (° / 30 m)	RPM (r/min)	WOB (1000 lbf)	Torque (1000 ft.lbf)	Flow (gal/min)
25/10/09 9:00	25/10/09 9:25	0.417	1284.00	1289.00	5.00	12.0	MAX_OD	0.0	M							90	20.0	8.0	800
25/10/09 15:35	25/10/09 16:12	0.617	1289.00	1299.00	10.00	16.2	MAX_OD	0.0	M							80	20.0	8.0	800
25/10/09 16:18	25/10/09 17:00	0.700	1299.00	1318.00	19.00	27.1	MAX_OD	0.0	M							120	30.0	8.0	700
25/10/09 17:00	25/10/09 17:24	0.400	1318.00	1328.00	10.00	25.0	MAX_OD	0.0	M							130	30.0	8.0	1000
25/10/09 17:32	25/10/09 18:21	0.817	1328.00	1356.00	28.00	34.3	MAX_OD	0.0	M							160	30.0	9.6	1050
25/10/09 18:29	25/10/09 19:14	0.750	1356.00	1386.00	30.00	40.0	MAX_OD	0.0	M							160	30.0	6.6	1050
25/10/09 19:23	25/10/09 20:08	0.750	1386.00	1414.00	28.00	37.3	MAX_OD	0.0	M	1395.50	0.46	85.16	-0.10	5.24	0.12	160	30.0	13.5	1050
25/10/09 20:16	25/10/09 20:54	0.633	1414.00	1443.00	29.00	45.8	MAX_OD	0.0	M	1423.48	0.38	95.79	-0.09	11.40	0.12	160	30.0	12.3	1050
25/10/09 21:10	25/10/09 21:38	0.467	1443.00	1472.00	29.00	62.1	MAX_OD	0.0	M	1450.69	0.35	103.17	-0.03	8.14	0.06	160	30.0	6.1	1050
25/10/09 21:49	25/10/09 22:32	0.717	1472.00	1501.00	29.00	40.5	MAX_OD	0.0	M							140	30.0	6.6	1050
25/10/09 22:35	25/10/09 23:10	0.583	1501.00	1529.00	28.00	48.0	MAX_OD	0.0	M							140	30.0	8.1	1050
25/10/09 23:17	25/10/09 23:58	0.683	1529.00	1558.00	29.00	42.4	MAX_OD	0.0	M							140	30.0	8.9	1050
26/10/09 0:16	26/10/09 1:15	0.983	1558.00	1588.00	30.00	30.5	MAX_OD	0.0	M							140	30.0	7.4	1050
26/10/09 1:26	26/10/09 2:15	0.817	1588.00	1616.00	28.00	34.3	MAX_OD	0.0	M							140	30.0	5.7	1050
26/10/09 2:24	26/10/09 3:25	1.017	1616.00	1645.00	29.00	28.5	MAX_OD	0.0	M							100	30.0	7.7	980
26/10/09 3:45	26/10/09 4:30	0.750	1645.00	1674.00	29.00	38.7	MAX_OD	0.0	M							140	30.0	6.9	980
26/10/09 4:56	26/10/09 5:29	0.550	1674.00	1702.00	28.00	50.9	MAX_OD	0.0	M							140	30.0	8.0	980
26/10/09 5:38	26/10/09 6:28	0.833	1702.00	1731.00	29.00	34.8	MAX_OD	0.0	M							140	30.0	9.2	980
26/10/09 6:35	26/10/09 7:16	0.683	1731.00	1760.00	29.00	42.4	MAX_OD	0.0	M	1739.63	0.23	145.68	-0.01	4.41	0.02	140	30.0	10.0	980
26/10/09 7:26	26/10/09 8:15	0.817	1760.00	1789.00	29.00	35.5	MAX_OD	0.0	M							140	30.0	10.0	980
26/10/09 8:35	26/10/09 9:30	0.917	1789.00	1818.00	29.00	31.6	MAX_OD	0.0	M							140	30.0	8.0	970
26/10/09 9:37	26/10/09 10:25	0.800	1818.00	1847.00	29.00	36.2	MAX_OD	0.0	M							170	30.0	8.0	970
26/10/09 10:35	26/10/09 11:07	0.533	1847.00	1875.00	28.00	52.5	MAX_OD	0.0	M	1855.31	0.03	152.59	-0.05	1.79	0.05	170	30.0	8.0	960
26/10/09 11:17	26/10/09 12:00	0.717	1875.00	1904.00	29.00	40.5	MAX_OD	0.0	M	1885.00	0.40	189.67	0.37	37.47	0.38	170	30.0	9.0	960
26/10/09 12:13	26/10/09 12:51	0.633	1904.00	1933.00	29.00	45.8	MAX_OD	0.0	M							170	30.0	9.0	960
26/10/09 12:58	26/10/09 13:43	0.750	1933.00	1962.00	29.00	38.7	MAX_OD	0.0	M	1933.81	0.33	341.38	-0.04	93.25	0.44	170	30.0	9.0	960
26/10/09 14:00	26/10/09 14:45	0.750	1962.00	1991.00	29.00	38.7	MAX_OD	0.0	M							170	30.0	10.0	950
26/10/09 14:53	26/10/09 15:30	0.617	1991.00	2019.00	28.00	45.4	MAX_OD	0.0	M							170	30.0	10.0	950
26/10/09 15:40	26/10/09 16:05	0.417	2019.00	2048.00	29.00	69.6	MAX_OD	0.0	M	2029.52	0.77	195.08	0.14	-45.86	0.33	170	30.0	11.0	940
26/10/09 16:23	26/10/09 16:58	0.583	2048.00	2077.00	29.00	49.7	MAX_OD	0.0	M							170	30.0	11.0	930
26/10/09 17:10	26/10/09 17:44	0.567	2077.00	2106.00	29.00	51.2	MAX_OD	0.0	M	2086.65	0.83	198.58	0.03	1.84	0.04	170	30.0	10.0	930
26/10/09 17:57	26/10/09 18:40	0.717	2106.00	2135.00	29.00	40.5	MAX_OD	0.0	M							170	30.0	10.2	930
26/10/09 18:52	26/10/09 19:30	0.633	2135.00	2164.00	29.00	45.8	MAX_OD	0.0	M							170	30.0	9.3	910
26/10/09 19:58	26/10/09 20:15	0.283	2164.00	2177.00	13.00	45.9	MAX_OD	0.0	M							170	30.0	8.2	910
26/10/09 20:15	26/10/09 20:40	0.417	2177.00	2193.00	16.00	38.4	MAX_OD	0.0	M							170	30.0	8.3	850
26/10/09 20:54	26/10/09 21:27	0.550	2193.00	2222.00	29.00	52.7	MAX_OD	0.0	M	2201.88	0.95	193.72	0.03	-1.27	0.04	170	30.0	9.8	910
26/10/09 21:37	26/10/09 22:16	0.650	2222.00	2251.00	29.00	44.6	MAX_OD	0.0	M							170	30.0	8.2	910
26/10/09 22:25	26/10/09 23:10	0.750	2251.00	2280.00	29.00	38.7	MAX_OD	0.0	M							170	30.0	9.3	910
26/10/09 23:38	27/10/09 0:34	0.933	2280.00	2308.00	28.00	30.0	MAX_OD	0.0	M	2288.48	0.97	181.40	0.01	-4.27	0.07	170	30.0	10.1	900
27/10/09 0:43	27/10/09 1:35	0.867	2308.00	2337.00	29.00	33.5	MAX_OD	0.0	M	2316.76	1.04	184.59	0.07	3.38	0.10	170	30.0	8.5	880
27/10/09 1:44	27/10/09 2:31	0.783	2337.00	2366.00	29.00	37.0	MAX_OD	0.0	M	2345.02	1.10	185.34	0.06	0.80	0.07	170	30.0	8.4	880
27/10/09 2:39	27/10/09 3:17	0.633	2366.00	2395.00	29.00	45.8	MAX_OD	0.0	M	2374.64	1.27	185.88	0.17	0.55	0.17	170	30.0	8.5	880
27/10/09 3:26	27/10/09 4:03	0.617	2395.00	2423.00	28.00	45.4	MAX_OD	0.0	M	2403.54	1.37	187.67	0.10	1.86	0.11	170	30.0	6.1	860

Schlumberger Private

Job Number: 09ASQ0030
Company Rep: Dennis/Kevin
Run Number: 2

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ

Rig Name: Ocean Patriot
Well Name: Somerset-1

Run Information

Date In		Date Out		Drilling Distance:		Drilling Hours:	
24-Oct-2009 12:43PM		2-Nov-2009 12:30PM		1,628.70 m		42.40 hrs	
Depth (MD): 1284.0 m to 2912.7 m		Rotary Drilling Distance: 1,628.70 m		Sliding Distance: 0.00 m		Rotary Drilling Hrs: 42.40 hrs	
Depth (TVD): 1283.9 m to 2912.4 m		Reaming Distance: 2,096.90 m		Sliding Hours: 0.00 hrs		Reaming Hours: 13.00 hrs	
Inclination: 0.95 deg to 1.15 deg		Hrs Below Rotary: 215.78 hrs		Total Pumping Hrs: 126.60 hrs		Min DLS: 0.03 deg/30 m	
Azimuth: 60.00 deg to 160.56 deg		North Ref Used: Grid North		Max DLS: 0.45 deg/30 m		Max DLS Depth: 1,933.8 m	
Hole Size: 12.25 in		Magnetic Dec: 11.033 deg		Surface Screen: No		DFS Used: No	
Last Casing Size: 13.375 in		Grid Correction: -1.109 deg		Total Correction: 12.142 deg		Est. Mag. Int: 0.04 deg	
Last Casing Depth: 1279.0 m (MD)		Tool Face Arc: .0 cm		Est. Mag. Int: 0.04 deg		Inline Filter: No	
Total Face Angle: 0.00 deg		Total Face Angle: 0.00 deg					

Rig Information

Rig Type: Semi-Submersible	Pump Type: Triplex
Water Depth: 503.00 m	Pulse Damp Press: 1,000 psi
Air Gap: 21.51 m	Number of Pumps: 3
RKB Height: 21.51 m	Pump Line ID: 6.00 in
Ground Elevation: -503.00 m	Pump Output: 4.30 galUS/stroke
	Pump Stroke Len: 12.00 in

Run Objective

To drill the 311mm (12.25in) hole section to a total depth of 3308mMDRT to allow for open hole wireline logging. After this, it is planned to plug and abandon the well.

D&M Crew List:

Cell Manager: Mewan Kavinda Amarasena
 Crew: Mewan Amarasena, Cell Manager
 Vedat Ali Degirmenci, DD
 Chris Hibberson, LWD
 Daniel Priestley, DD
 Russell Yap, MWD

DH Motor Information

Manufacturer:	Bit to Bend Dist:	m
Motor Type:	Bearing Play In:	in
Motor Size:	Bearing Play Out:	in
Serial No.:	Bent Sub Angle:	deg
Lobe Config:	Bent HSG Angle:	deg
Stage Length: m		
Rubber:		
Sleeve Position:		
Sleeve Size: in		
Bearing Type:		

RSS Information

RSS Manufacturer:	
RSS Type:	
RSS SN:	
RSS Size:	
Pulse Ht Threshold:	
Min Pulse Width:	
Max Pulse Width:	
Conn Phase Angle: deg	
Rise Time Const:	
Fall Time Const:	
Digit Time:	

MWD Configuration

Mod Type: QPSK	Int Tool Face Offset: 0.00 deg	Bit Rate: 6 bps	Slimpulse Pulser Config: N/A
Mod Gap: 0.12000 in	Turbine Config: 600-1200 galUS/min	Frequency: 16 Hz	Pred Sig Strength @ TD: 5.0 psi
SPT Type: HA			

Drilling Parameters

Job Number: 09ASQ0030 **Company:** WOODSIDE ENERGY LTD **Rig Name:** Ocean Patriot
Company Rep: Dennis/Kevin **Location:** MEA-APG-ASQ **Well Name:** Somerset-1
Run Number: 2

	<u>Min</u>	<u>Max</u>	<u>Avg</u>		
BH Temperature:	37.00 degC	61.00 degC	46.29 degC	Total DH Shocks (k):	0 k
Surface RPM:	140.00 rpm	182.00 rpm	166.71 rpm	Max Shock Level:	0
ROP:	5.00 m/hr	32.42 m/hr	38.41 m/hr	Max Shock Duration:	0 sec
Surface Torque:	8.00 kft.lbf	17.09 kft.lbf	9.97 kft.lbf	Checkshot Type:	
Flow Rate:	817.00 galUS/min	1,050.00 galUS/min	919.57 galUS/min	Checkshot Depth:	m
WOB Sliding:				Checkshot Incl:	deg
				Checkshot Azim:	deg
				H2S In Well:	No
Average Pump Pressure:	216 psi			SPP Off Bottom:	3,499.00 psi
Turbine RPM @ Min Flow Rate:	2,773 rpm	Min Flow Rate:	817.00galUS/min	SPP On Bottom:	4,099.00 psi
Turbine RPM @ Max Flow Rate:	3,476 rpm	Max Flow Rate:	1,050.00galUS/min		

Mud Information

Mud Type:	Polymer	Mud Clean:	Yes	pH:	9.00
Mud Company:	M-I Swaco	LCM Type:		Chlorides:	54,000.00 ppm
Mud Brand:		LCM Size:		Sand Content:	0.50 %
Funnel Viscosity:	75.00 s/qt	LCM Concentration:	lbs/bbl	Solids:	8.40 %
Plastic Viscosity:	21.00 cp	Weighting Material:	Barite	Percent Oil:	0.00 %
Yield Point:	32.00 lbm/100ft2	Mud Weight:	1.30 g/cm3		
Mud Resistivity:	0.08 ohm-m				

IADC Bit Grading

Manufacturer:	Smith International	Total Revs:	414,306.00	IADC Code:	423
Model:	MDSI-716 HVPX	Stick/Slip:	30%	Jets (/ 32 in):	10X12
Type:	PDC	Reason Pulled:	Hole Problems	Bit TFA:	1.10 in2

Inner Row	Outer Row	Dull Char	Location	Bearings/Seals	Gauge	Other Chars
1.00	2.00	WT	S		1	CT

End of Run - Summary

Sync Hours:	48.65 hrs	Downhole Noise:	No	Run Failed:	Yes
Jamming:	No 0.00 hrs	Surface System Failure:	No	D&M Trip:	No
Surface Vibration:	No	Surface Noise:	No	Low Oil Flag:	No 0.00 hrs
Trans Fail:	No	H2S in Well:	No	Filter Screen/Plug Shear:	No

Client Inconvenience: **Yes** Lost Time: 1.75hrs

Reason for POOH: Hole Problems

D&M Run Obj Met? [DD and MWD/LWD]: **Yes**

Brief Run Summary:

If not, why?:

An arcVISION, TeleScope, sonicVISION and an adnVISION (stabilized) was picked up to drill the 12.25 in section of Somerset-1. The TeleScope was programmed with logging frames for use with arcVISION, sonicVISION and adnVISION (stabilized) with telemetry rate 16Hz/6.4 bps. The BHA was made up and ran in hole on a crossover and a single of drill pipe to conduct a shallow hole test. The shallow hole test was unsuccessful as real time communications could not be established with the adnVISION (stabilized).

The adnVISION (stabilized) was laid out and the real time extender on the sonicVISION was checked and found not to be functional. The sonicVISION was lain out and the backup adnVISION (stabilized) and backup sonicVISION was picked up and ran in hole. The sourceless shallow hole test was successful. The source was loaded into the adnVISION (stabilized) and a shallow hole test was successfully conducted.

The string was run in hole and cement was tagged at 1240.2m MD. The float and shoe track was drilled before drilling new formation at 1284m MD. 5m of new formation was drilled before a leak off test was conducted

Job Number: 09ASQ0030

Company: WOODSIDE ENERGY LTD

Rig Name: Ocean Patriot

Company Rep: Dennis/Kevin

Location: MEA-APG-ASQ

Well Name: Somerset-1

Run Number: 2

without the use of arcVISION.

At 2912.7m MD drilling was ceased for a flow check. The well was found to be flowing and was shut in. Well control operations occurred for approximately 98 hours before the annulus rams were opened and pipe rotated again. Upon arrival at casing shoe a flow check was performed, well appeared to be stable. One stand of pipe was racked back pumps were switched on after next connection, only to find the well was drinking at approx. 10 barrels per minute.

On surface the source was unloaded from the adnVISION which was sequentially laid out. The remaining of the BHA was racked back. Tools were laid out a few hours later due to rig waiting on boat to deliver more Barite. Upon trying to break out the ARC and TeleSCOPE it was discovered that the threads have been gauged. They were backed out approximately 2 turns, and then were unable to be separated. The connections were pulled using the top drive however they remain connected together. They were then laid out together as the client did not want to spend anymore time trying to separate the 2 tools, due to the well control issues and they do not have a 5-1/2" FH stabbing valve. Without this, having the FH connection in the rotary table presents a significant hazard. LWD Tools were dumped, and good quality RM data was retrieved, processed and delivered to the client.

End surveys were processed using DMAG before delivered to the client.

Job Number: 09ASQ0030
Company Rep: Dennis/Kevin
Run Number: 2

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ

Rig Name: Ocean Patriot
Well Name: Somerset-1

Equipment on the Run

Equipment	Pump Hours		Software Version	Tool Size
	Start	Cumulative		
ARC8D-BB-2724	0.00 hrs	126.60 hrs	9.4	8.00 in
H524743-59587	0.00 hrs	126.60 hrs		0.00 in
H524743-e12229	0.00 hrs	126.60 hrs		0.00 in
H524743-e13018	0.00 hrs	126.60 hrs		0.00 in
H524743-e13024	0.00 hrs	126.60 hrs		0.00 in
MDCIX-GA-ZH22	0.00 hrs	126.60 hrs	9.2	8.25 in
NDDC-CA-42709	0.00 hrs	126.60 hrs		0.00 in
NDDC-CA-43225	0.00 hrs	126.60 hrs	8.3	8.25 in
NMPC8-ASQ8020	0.00 hrs	126.60 hrs		8.00 in
SD8D-CA-42784	0.00 hrs	126.60 hrs		0.00 in
SD8D-CA-E1620/1	0.00 hrs	126.60 hrs	6.8	8.25 in
SZB8S-IB-207A118	0.00 hrs	126.60 hrs		8.00 in
SZS8S-IBS-207A188	0.00 hrs	126.60 hrs		8.00 in

Services on the Run

Equipment	Service	Tool Name	Real Time			Recorded Mode			CAF
			Hours	Failed	Depth	Hours	Failed	Depth	
LWD	Resistivity	arcVision	126.60 hrs		1,628.7 m	215.78 hrs		1,628.7 m	
LWD	Gamma Ray	arcVision	126.60 hrs		1,628.7 m	215.78 hrs		1,628.7 m	
LWD	APWD	arcVision	126.60 hrs		1,628.7 m	215.78 hrs		1,628.7 m	
MWD	D&I	TeleScope	126.60 hrs		1,628.7 m	215.78 hrs		1,628.7 m	
MWD	Shock and Vibration	TeleScope	126.60 hrs		1,628.7 m	215.78 hrs		1,628.7 m	
MWD	Cont D&I	TeleScope	126.60 hrs		1,628.7 m	hrs			
LWD	Compressional DT	SonicVision	126.60 hrs		1,628.7 m	215.78 hrs		1,628.7 m	
LWD	Neutron	adnVision	126.60 hrs		1,628.7 m	215.78 hrs		1,628.7 m	
LWD	Density	adnVision	126.60 hrs		1,628.7 m	215.78 hrs		1,628.7 m	
LWD	Caliper	adnVision	126.60 hrs		1,628.7 m	215.78 hrs		1,628.7 m	

Job Number: 09ASQ0030
Company Rep: Dennis/Kevin
Run Number: 2

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ
BHA Type: Rotary

Rig Name: Ocean Patriot
Well Name: Somerset-1

Item	Description	Vendor	Tool Name	Serial Number	Length	OD, in	ID, in	Fishing Neck		Stab	Bottom Connection		Top Connection		Cumul Len
								OD, in	Len, m	OD, in	Size	Type	Size	Type	
1	BIT	Smith International	PDC	JD0772	0.33 m	12.25	3.25						6 3/8"	API REG PIN	0.33 m
2	STABILIZER	D&M	12 1/4" NB Stabilizer	207A118	2.56 m	8.00	3.06	8.06	0.91	17.25	6 5/8"	API REG BOX	6 5/8"	API REG BOX	2.89 m
3	DRILL COLLAR - NONMAG	D&M	8" NMPC	ASQ8020	2.90 m	8.00	3.00				6 5/8"	API REG PIN	6 5/8"	API REG BOX	5.79 m
4	STABILIZER	D&M	12 1/4" Stabilizer	207A188	1.75 m	8.00	2.88	8.00	0.46	17.25	6 5/8"	API REG PIN	6 5/8"	API REG BOX	7.54 m
5	LWD	D&M	arcVISION	2724	5.82 m	8.00	4.25	8.38	1.40		6 5/8"	API REG PIN	6 5/8"	API FH BOX	13.36 m
6	MWD	D&M	TeleScope	ZH22	8.97 m	8.25	4.25	8.38	0.31		6 5/8"	API FH PIN	6 5/8"	API FH BOX	22.33 m
7	LWD	D&M	SonicVISION	E1620/1	7.86 m	8.25	4.25	8.31	1.33		6 5/8"	API FH PIN	6 5/8"	API FH BOX	30.19 m
8	LWD	D&M	adnVISION	43225	9.17 m	8.25	2.81	8.06	2.14		6 5/8"	API FH PIN	6 5/8"	API IF BOX	39.36 m
9	DRILL COLLAR	Ocean Patriot	6 x 8" Collars	186-00##	54.68 m	8.00	2.81				6 5/8"	API REG PIN	6 5/8"	API REG BOX	94.04 m
10	JAR	Smith	Hydraulic Jar	97984G	9.75 m	8.01	3.00	8.25	0.75		6 5/8"	API REG PIN	6 5/8"	API REG BOX	103.79 m
11	DRILL COLLAR	Ocean Patriot	2 x 8" Collars	186-00##	18.65 m	8.00	2.81				6 5/8"	API REG PIN	6 5/8"	API REG BOX	122.44 m
12	CROSSOVER	Ocean Patriot	Corssover	GUD-1296-2	1.11 m	8.25	2.75				6 5/8"	API REG PIN	4 1/2"	API IF BOX	123.55 m
13	HWDP	Ocean Patriot	15 x 5" HWDP	186-###	142.17 m	5.00	3.00				4 1/2"	API IF PIN	4 1/2"	API IF BOX	265.72 m

Predicted BHA Tendency: Holding

Hookload Out:

Wt Below Jars:

Pickup Out:

Wt Above Jars:

Slack Weight:

Total Air Wt:

Stab Description	Mid Pt to Bit	Blade			Gauge		
		Type	Len	Width	Len	In	Out
12 1/4" NB Stabilizer	1.52 m	Inline Stabilizer	0.38				
12 1/4" Stabilizer	6.57 m	Inline Stabilizer	0.44				

Bit to Read Out Port

LWD-arcVISION		
MWD-TeleScope	15.70	m
LWD-SonicVISION	27.20	m
LWD-adnVISION	34.30	m

Bit to Measurement Port

arcVISION-Resistivity	10.03	m
arcVISION-Gamma Ray	10.08	m
arcVISION-APWD	9.31	m
TeleScope-D&I	18.05	m
SonicVISION-Compressional	27.56	m
adnVISION-Neutron	35.49	m
adnVISION-Density	33.51	m
adnVISION-Caliper	33.34	m

Job Number: 09ASQ0030 **Company:** WOODSIDE ENERGY LTD **Rig Name:** Ocean Patriot
Company Rep: Dennis/Kevin **Location:** MEA-APG-ASQ **Well Name:** Somerset-1
Run No: 2

From	To	Elapsed	Depth in m		IADC Activity	Description
			From	To		
21-Oct-2009						
15:00	15:30	0.50	0.0	0.0	Run casing / cement	Make up 13 3/8" casing running tool and rack back same in derrick.
15:30	16:00	0.50	0.0	0.0	Run casing / cement	Clean floor and hold PJSM with crews.
16:00	17:00	1.00	0.0	0.0	Run casing / cement	Rig up BJ 13 3/8" casing equipment
17:00	17:30	0.50	0.0	0.0	Run casing / cement	Pick up 13 3/8" casing shoe
17:30	21:00	3.50	0.0	0.0	Run casing / cement	Tie on guide ropes and run in hole with 13 3/8" casing
21:00	21:30	0.50	0.0	0.0	Run casing / cement	Stab shoe in 30" housing with ROV observing, casing taking weight, move rig port 6m, aft 3m, casing free
21:30	23:00	1.50	0.0	0.0	Run casing / cement	Continue running 13 3/8" casing.
23:00	23:30	0.50	0.0	0.0	Run casing / cement	Rig down 13 3/8" 500 ton casing elevators and fill up tool
23:30	00:00	0.50	0.0	0.0	Run casing / cement	Pick up 18.75" WH joint and make up same
23-Oct-2009						
00:00	00:30	0.50	0.0	0.0	Nipple up BOPs	Rig down test tool and test stabs from reiser
00:30	10:00	9.50	0.0	0.0	Nipple up BOPs	Continue to pick up and run BOP's and riser from boat and deck, installing pod clamps every joint and pod slings every other joint.
10:00	10:30	0.50	0.0	0.0	Nipple up BOPs	Pick up and make up slip joint and landing joint
10:30	12:00	1.50	0.0	0.0	Nipple up BOPs	Install choke, kill and booster hoses
12:00	12:30	0.50	0.0	0.0	Nipple up BOPs	Latch SDL ring to slip joint, confirm with 20K overpull.
12:30	13:00	0.50	0.0	0.0	Other	Position ring over location, while moving rig. Commence install storm saddles from pod lines.
13:00	14:00	1.00	0.0	0.0	Nipple up BOPs	Land and latch BOP's on 18.75" well head with 50K down.
14:00	15:00	1.00	0.0	0.0	Test BOP	Pressure test choke and kill lines to 250/5000psi for 5-10min each
15:00	16:00	1.00	0.0	0.0	Test BOP	Finish install storm saddles from pod lines, install pod clamps and RBQ plates. Unlatch slip joint and scope same.
16:00	17:30	1.50	0.0	0.0	Test BOP	Break circulation with Dowell Close BSR's, Pressure test connector
17:30	18:00	0.50	0.0	0.0	Nipple up BOPs	Lay down Landing joint.
18:00	19:30	1.50	0.0	0.0	Nipple up BOPs	Pick up and install diverter, confirm diverter locked with 15k overpull. Install block and energise diverter. Remove running tool.
19:30	21:30	2.00	0.0	0.0	Nipple up BOPs	Rig down riser handling equipment and remove from rig floor, rig up 5" handling equipment and install iron roughneck tracks
21:30	22:00	0.50	0.0	0.0	Lubricate rig / Service	Service block and top drive
22:00	00:00	2.00	0.0	0.0	PU / LD BHA / Tripping	Held PJSM. Pick up 30 joints of drill pipe from catwalk.
24-Oct-2009						
00:00	04:30	4.50	0.0	0.0	PU / LD BHA / Tripping	Held PJSM. Pick up 5" drill pipe from catwalk
04:30	06:00	1.50	0.0	0.0	Test BOP	Space out and function test BOP's on Blue pod from driller's panel and yellow pod from TP panel
06:00	06:30	0.50	0.0	0.0	PU / LD BHA / Tripping	Break crossover from 18.25" running tool and lay out same
06:30	09:00	2.50	0.0	0.0	PU / LD BHA / Tripping	POOH to surface
09:00	10:00	1.00	0.0	0.0	Test BOP	Function test diverter and flush through both port and starboard overboard lines
10:00	11:30	1.50	0.0	0.0	PU / LD BHA / Tripping	Lay down excess 17.5 in BHA, TeleScope, RollerReamer and mud motor from derrick.
11:30	12:00	0.50	0.0	0.0	PU / LD BHA / Tripping	Clear and clean drill floor in preparation for 12.25" BHA
12:00	15:00	3.00	0.0	0.0	PU / LD BHA / Tripping	Held PJSM. Picked up 12.25" BHA
15:00	15:30	0.50	0.0	0.0	Circulate / Condition mud	Pick up drill pipe single and crossover and attempt to shallow hole test MWD at 1000gpm
15:30	16:00	0.50	0.0	0.0	PU / LD BHA / Tripping	Lay out drill pipe single, crossover, ADN and sonic due to failure of shallow hole test.
16:00	17:00	1.00	0.0	0.0	PU / LD BHA / Tripping	Pick up ADN, sonic and drill pipe single and crossover
17:00	17:30	0.50	0.0	0.0	Circulate / Condition mud	Shallow hole test MWD 1000gpm. Lay out single and crossover.

Job Number: 09ASQ0030 **Company:** WOODSIDE ENERGY LTD **Rig Name:** Ocean Patriot
Company Rep: Dennis/Kevin **Location:** MEA-APG-ASQ **Well Name:** Somerset-1
Run No: 2

From	To	Elapsed	Depth in m		IADC Activity	Description
			From	To		
17:30	18:00	0.50	0.0	0.0	Other	Install radioactive source in ADN.
18:00	18:30	0.50	0.0	151.0	PU / LD BHA / Tripping	Continue to run in hole with 12.25" BHA
18:30	19:00	0.50	151.0	151.0	Circulate / Condition mud	Shallow hole test MWD, 1000gpm
19:00	19:30	0.50	151.0	265.0	PU / LD BHA / Tripping	Continue to run in hole with 12.25" BHA
19:30	23:30	4.00	265.0	1185.0	PU / LD BHA / Tripping	Held PJSM. Pick up drill pipe. Note: Flush through choke, kill and booster line with 10.4ppg mud while picking up drill pipe.
23:30	00:00	0.50	1185.0	1216.0	Reaming / Hole opener / Unc	Wash down. Note: attached SLB geolograph to block.
25-Oct-2009						
00:00	00:30	0.50	1216.0	1240.2	Reaming / Hole opener / Unc	Continue to wash down and tag cement. 16k Down
00:30	07:30	7.00	1240.2	1253.0	Run casing / cement	Commence drilling cement and float equipment with 60rpm and 600gpm. Note: While taking on KCl brine, 1350 bbls were lost to sea due to hole in take hose 150bbls taken on board
07:30	08:00	0.50	1253.0	1270.0	Run casing / cement	Drill cement with 80rpm and 5 - 10k ft/lbs torque, 700gpm and 1800psi
08:00	08:30	0.50	1270.0	1284.0	Run casing / cement	Drill shoe and cement with 60rpm, 5-10k ft/lbs torque, 600gpm and 1400psi. SCRs conducted at 1270m
08:30	09:30	1.00	1284.0	1289.0	Drilling	Drill 12.25" hole
09:30	10:00	0.50	1289.0	1289.0	Circulate / Condition mud	Work through shoe track while circulating with 700gpm and 1800psi
10:00	10:30	0.50	1289.0	1289.0	Test BOP	Hold PJSM and rig up for leak off test.
10:30	11:30	1.00	1289.0	1289.0	Test BOP	Break circulation and pressure test lines to 3000psi for 5 minutes. Good test, space out and close MPR's, perform leak off test with 1.29sg mud, test pressure 824psi, equivalent mud weight 14.2ppg
11:30	12:00	0.50	1289.0	1289.0	Test BOP	Rig down test hose and pump in sub, adjust breaks on drawworks, circulate hole clean
12:00	15:30	3.50	1289.0	1289.0	Other	Held safety stand down as directed by OIM. Note: Circulate and condition mud. Flush through choke and kill lines. Service block, top drive and crown. Perform general rig maintenance during safety stand down.
15:30	00:00	8.50	1289.0	1558.0	Drilling	Drill ahead with 12.25"hole. Note Drilled at reduced rate from 1289 to 1320 until stabilisers were past the shoe.
26-Oct-2009						
00:00	12:00	12.00	1558.0	1899.0	Drilling	Continue drilling 12.25" hole
12:00	00:00	12.00	1899.0	2288.0	Drilling	Continue drilling 12.25" hole
27-Oct-2009						
00:00	21:30	21.50	2288.0	2912.7	Drilling	Drilling ahead 12.25"
21:30	00:00	2.50	2912.7	2912.7	Circulate / Condition mud	Well Control issues
28-Oct-2009						
00:00	01:00	1.00	2912.7	2912.7	Circulate / Condition mud	continue well killing operations. Circulate down drill string with 12.5ppg mud at 20spm. No returns observed. Continue killing drill string with closed. Total bbls pumped 172.
01:00	06:00	5.00	2912.7	2912.7	Circulate / Condition mud	Shut down pump with choke closed. monitor pressure on choke. Instructed to bleed drill pipe to 0, crack choke to see if plugged - not plugged.
06:00	07:30	1.50	2912.7	2912.7	Circulate / Condition mud	Line up and lubricate 15bbls of 12.5ppg mud down choke with 860psi.
07:30	08:00	0.50	2912.7	2912.7	Circulate / Condition mud	Bleed 4 bbls of 12.5ppg mud from choke, monitor pressures on choke. bleed back 11bbls from choke, monitor pressure.
08:00	09:00	1.00	2912.7	2912.7	Circulate / Condition mud	Monitor pressures on choke.
09:00	09:30	0.50	2912.7	2912.7	Circulate / Condition mud	Lubricate 15bbls of 12.5ppg mud down drill string with choke closed. Note: cleared bit with 1030psi after 4bbls pumped then monitor pressures on choke.
09:30	10:00	0.50	2912.7	2912.7	Circulate / Condition mud	Lubricate 25bbls of 12.5ppg mud down drill string with choke closed. Monitor pressures on choke.
10:00	11:00	1.00	2912.7	2912.7	Circulate / Condition mud	Lubricate 25bbls of 12.5ppg mud down drill string with choke closed. Monitor pressures on choke.

Job Number: 09ASQ0030
Company Rep: Dennis/Kevin
Run No: 2

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ

Rig Name: Ocean Patriot
Well Name: Somerset-1

From	To	Elapsed	Depth in m		IADC Activity	Description
			From	To		
11:00	11:30	0.50	2912.7	2912.7	Circulate / Condition mud	Lubricate 25bbbls of 12.5ppg mud down drill string with choke closed. Monitor pressures on choke.
11:30	12:30	1.00	2912.7	2912.7	Circulate / Condition mud	Lubricate 15bbbls of 12.5ppg mud down drill string with choke closed. Monitor pressures on choke.
12:30	13:30	1.00	2912.7	2912.7	Circulate / Condition mud	Lubricate 25bbbls of 12.5ppg mud down drill string with choke closed. Monitor pressures on choke.
13:30	16:00	2.50	2912.7	2912.7	Circulate / Condition mud	Lubricate 25bbbls of 12.5ppg mud down drill string with choke closed. Monitor pressures on choke.
16:00	16:30	0.50	2912.7	2912.7	Circulate / Condition mud	Hled PJSM on pumping 12.5ppg KWM
16:30	00:00	7.50	2912.7	2912.7	Circulate / Condition mud	Commence to pump and establish circulation with 12.5ppg mud. Down the string, through the choke, through the poorboy degasser and to mud pit 3. Displace the hole with a total of 631bbbls of 12.5ppg KWM. Note: Pump 61bbbls of contaminated mud/seawater to slug pit and dump same.
29-Oct-2009						
00:00	05:30	5.50	2912.7	2912.7	Circulate / Condition mud	Continue circulating with 12.5ppg KWM at 1.3bpm down the string, up the choke, through the poorboy degasser and to mud pit #3. Displace hole with a total of 440bbbls from midnight.
05:30	07:00	1.50	2912.7	2912.7	Circulate / Condition mud	Bleed off SIDP to 40 psi and monitor pressures. SIDP - 350psi.
07:00	10:00	3.00	2912.7	2912.7	Circulate / Condition mud	Bleed off 30psi from choke, monitor pressures. Pressure rise to SIDP 420psi
10:00	12:00	2.00	2912.7	2912.7	Circulate / Condition mud	Bleed 20bbbls from choke, shut in and monitor pressures. SIDP - 120psi, pressure increased to 300psi.
12:00	13:30	1.50	2912.7	2912.7	Circulate / Condition mud	Monitor well for pressure build up on choke
13:30	15:30	2.00	2912.7	2912.7	Circulate / Condition mud	Held PJSM. Bleed off 20bbbls from well through choke. (SIDP from 340psi to 160psi)
15:30	16:30	1.00	2912.7	2912.7	Circulate / Condition mud	contunup monitoring well for pressure build up on choke.
16:30	00:00	7.50	2912.7	2912.7	Circulate / Condition mud	Circulate with 12.5ppg KWM at 2bpm down the string, through the choke, through the poorboy degasser and to mud pit #3
30-Oct-2009						
00:00	01:00	1.00	2912.7	2912.7	Circulate / Condition mud	Continue circulation down drill pipe and up choke. Note: pump 64bbbls of contaminated mud/seawater to slug pit and dump same.
01:00	02:30	1.50	2912.7	2912.7	Circulate / Condition mud	Increase pump rate to 3bpm down drill pipe with 1940psi on drill pipe.
02:30	04:00	1.50	2912.7	2912.7	Circulate / Condition mud	Increase pump rate to 3.5bpm down drill pipe with 2500 psi on drill pipe
04:00	06:30	2.50	2912.7	2912.7	Circulate / Condition mud	Shut down and shut in choke, monitor pressures, start at SIDP 300 end SIDP 350psi
06:30	12:00	5.50	2912.7	2912.7	Circulate / Condition mud	Commence circulation of 13.2ppg down string and up choke at 2.5bpm. Pump 855bbbls.
12:00	15:00	3.00	2912.7	2912.7	Circulate / Condition mud	Continue circulating 13.2ppg mud down string and up choke. Attempt to kill well at 2.5bpm. Total barrels pumped = 1229 with a gain of 75 barrels
15:00	00:00	9.00	2912.7	2912.7	Circulate / Condition mud	Monitor shut in pressures on choke. Start SIDP 70psi end SIDP 300psi
31-Oct-2009						
00:00	00:30	0.50	2912.7	2912.7	Circulate / Condition mud	Continue to monitor pressures. SIDP 3000psi
00:30	02:30	2.00	2912.7	2912.7	Circulate / Condition mud	Attempt to bleed off 50bbbls through the choke. bleed 6.4bbbls from choke at 2.56bbbls/hr
02:30	03:00	0.50	2912.7	2912.7	Circulate / Condition mud	Shut in and monitor pressures. SIDP 80psi and prepare to displace riser with 13.2ppg mud
03:00	07:00	4.00	2912.7	2912.7	Circulate / Condition mud	Displace riser with 13.2ppg mud at 10bbbls/min, 200psi, while continuing to monitor pressures -SIDP 280psi
07:00	08:30	1.50	2912.7	2912.7	Circulate / Condition mud	Bleed off 5.4bbbls through wide open choke. rate of return = 3.6bbbls/hr and shut back in.
08:30	10:00	1.50	2912.7	2912.7	Circulate / Condition mud	Close lower rams, open middle rams, line up and flush BOP's with 13.2ppg mud down choke line and up kill line and 7bbblsminute and 750psi
10:00	12:00	2.00	2912.7	2912.7	Circulate / Condition mud	Hold PJSM. Open lower rams and circulate 13.2ppg mud down string and up both choke and kill lines at 2bbbls/min. with 870psi on drill pipe, 10psi on choke and 10psi on KLM

Job Number: 09ASQ0030
Company Rep: Dennis/Kevin
Run No: 2

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ

Rig Name: Ocean Patriot
Well Name: Somerset-1

From	To	Elapsed	Depth in m		IADC Activity	Description
			From	To		
12:00	19:30	7.50	2912.7	2912.7	Circulate / Condition mud	Continue circulating 13.2ppg mud down string and up both choke and kill lines at 2bbls/min with 870psi on drill pipe, 10psi on the choke and 10psi on the KLM.
19:30	22:30	3.00	2912.7	2912.7	Circulate / Condition mud	Shut down pumping and monitor well with choke and kill lines open for gain, while weighting up active system to 14.2ppg mud weight. Close LPR, line up and flush BOP's with seawater down choke line and up kill line at 4bbls/min and 450psi and displace choke line to 13.2ppg mud. Open up annulus and U-tube 13.2ppg up the kill line to displace seawater.
22:30	00:00	1.50	2912.7	2912.7	Circulate / Condition mud	Open LPR and begin to displace the well with 14.2ppg mud at 4bpm and 2800psi. While displacing the well, commence to slack off and break pipe free at 270k down. Rotate and reciprocate pipe with 70rpm, torque - 2k, rotating weight - 350K, slack off - 350K pull up - 360K. Note: at 2911m, pump pressure reduced from 2800psi to 1000psi when bit cleared.

1-Nov-2009

00:00	07:30	7.50	2912.7	2912.7	Circulate / Condition mud	Continue displacing hole with 14.2ppg mud at 4bbls.min with 1200psi while rotating at 80rpm with 2k torque and reciprocating pipe.
07:30	08:30	1.00	2912.7	2912.7	Circulate / Condition mud	Speed pump rate to 5bbl/min and check for losses. None. Speed pumps to 6bbls/min and check for losses. None.
08:30	09:00	0.50	2912.7	2912.7	Other	Flow check well on trip tank. Well static.
09:00	10:00	1.00	2912.7	2912.7	Circulate / Condition mud	Flush choke and kill lines with 14.2ppg mud and take SCR's.
10:00	12:00	2.00	2912.7	2598.0	Reaming / Hole opener / Unc	Pump out of hole at 3min/stand.
12:00	22:00	10.00	2598.0	1312.0	Reaming / Hole opener / Unc	Pump out of hole at 3min/stand, pumping at 6bbls/min. Note: ream at 2612m due to tight spot - 30k overpull.
22:00	23:00	1.00	1321.0	1321.0	Circulate / Condition mud	Lost circulation at 1321m. pumped a total of 201bbls of mud before circulation could be reestablished.
23:00	23:30	0.50	1321.0	1273.0	PU / LD BHA / Tripping	Once circulation was established, continue to pull out of hole, pumping at 3bbls/min and monitoring for losses in trip tank.
23:30	00:00	0.50	1273.0	1244.0	PU / LD BHA / Tripping	Flow check on trip tank for 20 minutes. Well static. Pull out of hole.

2-Nov-2009

00:00	03:00	3.00	1244.0	803.0	Reaming / Hole opener / Unc	Cont. Pumping out hole @ 3 bpm
03:00	03:30	0.50	803.0	803.0	Other	Flow Check well on trip tank - static
03:30	07:30	4.00	803.0	783.0	Circulate / Condition mud	POOH 1 Stand while strating up pumps lost circulation, regained circulation through mud booster, started seeing losses up to 4 bpm.
07:30	09:00	1.50	783.0	265.0	PU / LD BHA / Tripping	POOH monitoring losses on trip tank.
09:00	09:30	0.50	265.0	265.0	Circulate / Condition mud	Monitor well on trip tank, gain - 4 bbls
09:30	10:00	0.50	265.0	265.0	PU / LD BHA / Tripping	Pump 58 bbls 13.2 mud dn booster line & monitor trip tank to establish loss rate - 42 bbl/hr
10:00	10:30	0.50	265.0	123.0	PU / LD BHA / Tripping	Cont POOH w/5" HWDP 265m to 123m, cont. to monitor losses on trip tank.
10:30	11:00	0.50	123.0	123.0	Circulate / Condition mud	Pump 50 bbl 13.2ppg LCM pill dn booster line & chase with 26 bbl 12.7 ppg mud
11:00	11:30	0.50	123.0	39.0	PU / LD BHA / Tripping	POOH w/12.25 BHA F/123 T/39
11:30	12:00	0.50	39.0	39.0	PU / LD BHA / Tripping	Hold pre-job meeting for unloading source. Unload RA Source
12:00	13:00	1.00	39.0	0.0	PU / LD BHA / Tripping	Hold pre-job meeting & cont POOH w/MWD tool f/30m rack back same, while monitor well on trip tank
13:00	15:00	2.00	0.0	0.0	PU / LD BHA / Tripping	Commence tripping in hole with muleshoe and 5" drill pipe. Monitor for gains/losses on trip tank.
15:00	15:30	0.50	0.0	0.0	Lubricate rig / Service	Held PJSM and service top drive
15:30	16:00	0.50	0.0	0.0	PU / LD BHA / Tripping	Pull out of hole with 5" drill pipe and rack back same while waiting on barite.
16:00	23:00	7.00	0.0	0.0	PU / LD BHA / Tripping	Trip in hole with 12.25" BHA and cross over with drill pipe and lay out same while waiting on barite.
23:00	00:00	1.00	0.0	0.0	PU / LD BHA / Tripping	Trip in hole with 5" HWDP on 5" drill pipe and install diverter bag with total losses of 105bbls this tour.

Job Number: 09ASQ0030
Company Rep: Dennis/Kevin
Run Number: 2

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ

Rig Name: Ocean Patriot
Well Name: Somerset-1

Failure Number: 1

Fail Date: 23-Oct-2009
Severity: Light
CAF: YES
Lost Rig Time: 1.75 hrs

Pump Hour @ Fail: 0.00 hrs
Drill Hours @ Fail: 0.00 hrs
Hours BRT @ Fail: 0.00 hrs
Depth @ Fail: 0.0 m

Failed Services:

Failed Equipment:

NDDC-CA - 42709, SD8D-CA - 42784

Failure Description and Symptoms

Completed By: Mewan Amarasena

Date: 24-Oct-2009

Both the primary and secondary sets of tools were loaded with good batteries and extender checks were performed (i.e. Resistance & Go-no-go check). We found out that the all tools post loading batteries had good resistances. However on the adnVISION (NDDC-CA 42707), the extender was out by about 2mm. To be on the safe side, we decided to adjust the extender such that it's within the go-no-go limit. After the adjustment the extender was checked for continuity and re-loaded back onto the tool. Extender checks were re-done and all passed without any issues. 24th October, the BHA was made up and the 1st SHT was done at 15:00hrs. On the utility frame we noticed ADNSTAT = 63, on the repeating frames all the other values were maxed out indicative of a LTB comms issue. Pumps were recycled however the status word remained the same. The BHA was disconnected at the adnVISION/sonicVISION connection and the resistance checks were re-done on the rig floor and the sonicVISION uphole extender was also checked to preclude any failures. Summary of results as follows:

- adnVISION – Go-no-go check passed
- adnVISION – resistance check passed = 390kOhmm
- sonicVISION – Go-no-go check passed
- sonicVISION – resistance check FAILED = open connection (not the expected 120kOhm)

Both the adnVISION & sonicVISION were laid out on the pipe deck and the backups were picked up. The SHT for the second BHA passed without any issues.

Back on the pipe deck, we rechecked the extenders once more. Still the sonic was reading infinite resistance. However the tool was still "clicking" indicating battery power was being supplied to the tool. The extender was washed and cleaned however no improvement in the readings. The battery magnet was put in the tool failed tool and the crew continued to work on the BHA that was currently being RIH. At 19:00hrs the crew rechecked the extender and the resistance was now reading the expected 120kOhm as seen during the pre-job checks. We removed the battery carrier, the continuity and resistances were checked from "dry stab" to "wet stab" as well as the resistances from dry stab to mass, wet stab to mass. All multimeter tests passed without any issues (we did not however have megameter to perform the complete test)

Installing the battery carrier back into the tool, sonic started its "clicking"

Remedial Action Attempted on Location

Completed By: Mewan Amarasena

Date: 24-Oct-2009

Check the resistance and go and go no gauge. Please see above the symptoms of the detail.

Job Number: 09ASQ0030

Company: WOODSIDE ENERGY LTD

Rig Name: Ocean Patriot

Company Rep: Dennis/Kevin

Location: MEA-APG-ASQ

Well Name: Somerset-1

Run Number: 2

and the extender resistances were once again within specifications. At this stage we cannot fully conclude the cause of failure, as it seems to be unrelated to the extender adjustments done on the ADN

Below are the details of the tools and time breakdown of the incident.

Tool Serial Numbers

- adnVISION (Primary) NDDC-CA 42707
- adnVISION(Secondary) NDDC-CA 43225
- sonicVISION(Primary) SD8D-42784
- sonicVISION(Secondary) SD8D-E1620-1

15:00 Conduct First SHT with quod combo

15:12 ADNSTAT = 63 and all ADN dpoints maxed out (pumps recycled)

15:16 Second SHT also failed – disconnected ADN/SONIC connection and commence extender checks on rig floor

15:30 Layout both sonic & ADN (prepare backups)

16:29 Make up back up Sonic

16:50 Make up back up ADN

17:05 Second SHT with new tool string (Good Outcome)

Job Number: 09ASQ0030
Company Rep: Dennis/Kevin
Run Number: 2

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ

Rig Name: Ocean Patriot
Well Name: Somerset-1

Failure Number: 2

Fail Date: 2-Nov-2009

Severity: Light

CAF: NO

Lost Rig Time: hrs

Pump Hour @ Fail: 126.60 hrs

Drill Hours @ Fail: 48.40 hrs

Hours BRT @ Fail: 216.00 hrs

Depth @ Fail: 0.0 m

Failed Services:

Failed Equipment:

ARC8D-BB - 2724, MDCIX-GA - ZH22

Failure Description and Symptoms

Completed By: Chris Hibberson

Date: 2-Nov-2009

Whilst trying to break out TeleSCOPE and ARC, the connection below the ILS was untertorqued and backed at about 2 turns. At this point the connections became galled and were unable to be separated. All formal procedures were followed using rig tongs, with the tongs set in the correct position on the collar.

Remedial Action Attempted on Location

Completed By: Chris Hibberson

Date: 2-Nov-2009

Connection was re-torqued and then broken again, only to find the same outcome. The connection was also attempted to be pulled apart using the top drive however this was not successful. The client then decided not to spend anymore time trying to break the connection or the connection above for the following reasons.

1. They did not want to put that connection below the rotary table in case the string parted at which point the string could be dropped.
2. Well control issues, with the well still being open and unstable they did not want to keep a 5-1/2" FH connection at the rotary table any longer than need be as they do not have a 5-1/2" FH Stabbing valve. Which would present a significant risk.

Company man was spoken to with an alternative procedure to break the connections however has decided not to attempt to break them and will ship them back to town as the one tool. Client is worried about breaking the pin of the connection and losing the string as well as well control issues.

Job Number: 09ASQ0030
Company Rep: Dennis/Kevin
Run Number: 2

Company: WOODSIDE ENERGY LTD
Location: MEA-APG-ASQ

Rig Name: Ocean Patriot
Well Name: Somerset-1

	27-Oct-2009 7:56 PM	27-Oct-2009 2:36 PM	27-Oct-2009 2:09 AM	26-Oct-2009 8:37 PM	26-Oct-2009 12:45 PM	26-Oct-2009 2:29 AM	25-Oct-2009 11:11 PM
Field Engineer	Russell Yap	Marganda Sihite	Russell Yap	Russell Yap	Marganda Sihite	Russell Yap	Russell Yap
Depth	2,871.00 m	2,743.00 m	2,350.00 m	2,191.00 m	1,929.00 m	1,610.00 m	1,504.00 m
Avg ROP	26.03 m/hr	26.03 m/hr	26.03 m/hr	30.42 m/hr	30.42 m/hr	30.42 m/hr	11.42 m/hr
On Bottom ROP	36.11 m/hr	36.11 m/hr	36.11 m/hr	41.01 m/hr	41.01 m/hr	41.01 m/hr	37.53 m/hr
Flow Rate	817.00 galUS/min	830.00 galUS/min	890.00 galUS/min	850.00 galUS/min	1,000.00 galUS/min	1,000.00 galUS/min	1,050.00 galUS/min
Turbine RPM	2,773 rpm	2,851 rpm	3,007 rpm	2,851 rpm	3,203 rpm	3,320 rpm	3,476 rpm
Surface RPM	179 rpm	178 rpm	168 rpm	182 rpm	180 rpm	140 rpm	140 rpm
WOB Rotating	30.00 klbm	32.00 klbm	30.00 klbm	25.00 klbm	30.00 klbm	25.00 klbm	30.00 klbm
WOB Sliding							
DH WOB							
Surface Torque	8.29 kft.lbf	17.09 kft.lbf	8.88 kft.lbf	8.00 kft.lbf	9.52 kft.lbf	8.00 kft.lbf	10.00 kft.lbf
DH Torque							
Hookload	340 klbm	335 klbm	300 klbm	305 klbm	275 klbm	270 klbm	265 klbm
PickUp Weight	340.00 klbm		315.00 klbm	290.00 klbm		270.00 klbm	265.00 klbm
Slack Weight	350.00 klbm		305.00 klbm	300.00 klbm		270.00 klbm	265.00 klbm
Friction							
SPP On Bottom	4,120.00 psi	4,228.00 psi	4,176.00 psi	4,125.00 psi	4,099.00 psi	4,130.00 psi	4,200.00 psi
SPP Off Bottom	4,110.00 psi			4,088.00 psi	3,499.00 psi		
Diff Pressure	10 psi			37 psi	600 psi		
BH Temperature	61.00 degC	55.00 degC	47.00 degC	45.00 degC	41.00 degC	38.00 degC	37.00 degC
Total Shocks (k)							
Max Shock Level							
Max Shock Duration							
Torsional Vib							
Lateral Vib	1	1	1	1	1	1	1
Axial Vib							
CRPM	165 rpm	108 rpm	148 rpm	169 rpm	167 rpm	129 rpm	129 rpm
Stick/Slip	285	141	87	45	51	126	72
Formation	Claystone	Claystone	Claystone	Claystone	Claystone	Claystone	Claystone
Signal Strength	1.65 psi	1.43 psi	2.66 psi	2.67 psi	20.00 psi	3.30 psi	4.02 psi
Percent Signal Conf	75 %	86 %	79 %	89 %	79 %	86 %	85 %

Job Number: 09ASQ0030

Company: WOODSIDE ENERGY LTD

Rig Name: Ocean Patriot

Company Rep: Dennis/Kevin

Location: MEA-APG-ASQ

Well Name: Somerset-1

Run Number: 2

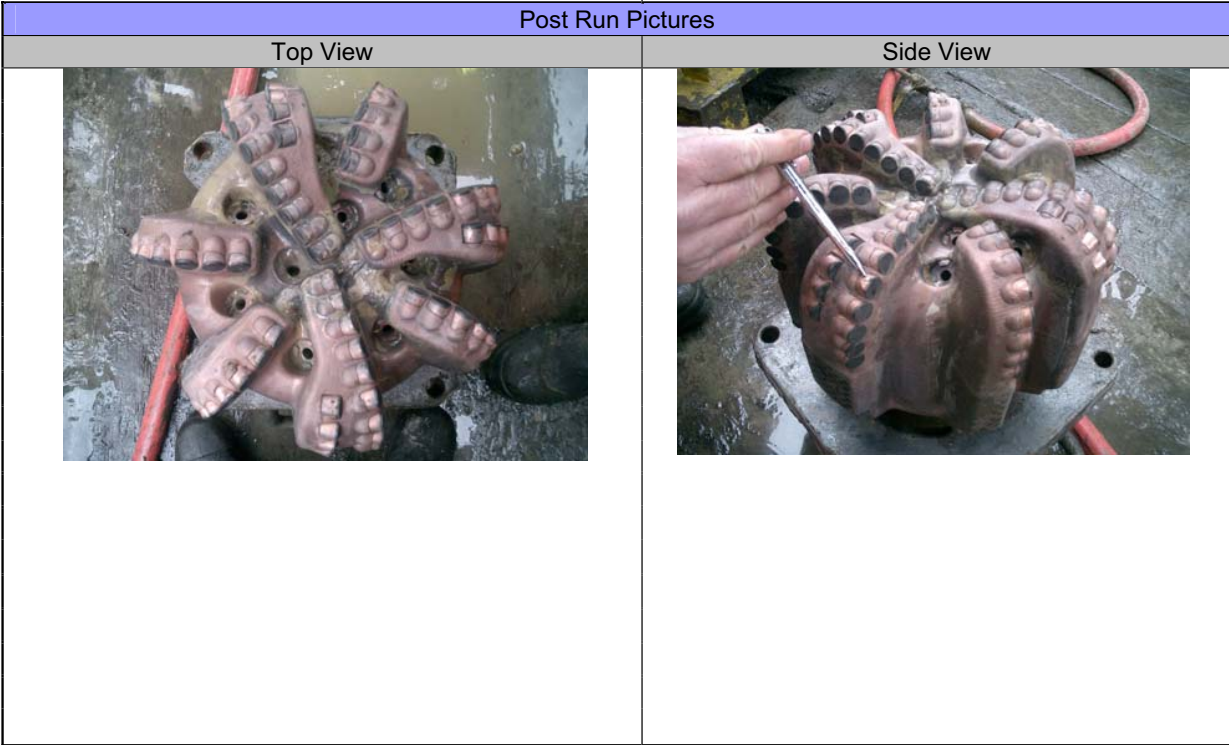
Date/Time	Depth		Description
23-Oct-2009 11:04PM	0.0	m	Source recieved on deck. overpack opened and checked for presence of source - Neu and Den present.
23-Oct-2009 11:35PM	0.0	m	Tools on deck all programmed - Back up MWD yet to be programmed, ILS and extenders installed.
24-Oct-2009 12:43PM	0.0	m	Pick up ARC from deck
24-Oct-2009 1:06PM	0.0	m	Make up the TeleScope to the ARC tool
24-Oct-2009 1:22PM	0.0	m	Make up the bit
24-Oct-2009 2:00PM	0.0	m	Bit was broken to ajdust nozzles. Bit was made again.
24-Oct-2009 2:15PM	0.0	m	BRT with made tools, pick up sonic from deck
24-Oct-2009 2:29PM	0.0	m	Make up sonic tool on drill floor
24-Oct-2009 2:33PM	0.0	m	Make up the ADN and screw into crossover to conduct SHT. Test fails - no RT comms detected to ADN, ADN cahnged, sonic found to have bad resistance check on top extender. Sonic changed.
24-Oct-2009 4:50PM	0.0	m	Make up ADN and Make up to commence SHT - pass.
25-Oct-2009 8:50AM	1282.0	m	MW 10.5 ppg
25-Oct-2009 9:33AM	1289.0	m	Prepare for LOT
25-Oct-2009 10:00AM	1289.0	m	Perform LOT Result 14.2ppg / 1.72sg
25-Oct-2009 10:40AM	1289.0	m	RIH
25-Oct-2009 10:45AM	1289.0	m	Rig shut down due to mud unavailability
26-Oct-2009 11:51PM	2286.0	m	Picked up off bottom, lowered pump rate before continuing to drill.
27-Oct-2009 6:40AM	1505.0	m	Drilling ahead with 50 m/hr minimum shock and vibration
27-Oct-2009 8:54AM	1567.0	m	Attempt to take a survey, the Total B is out. Recycled the pump, the total B still out.
27-Oct-2009 10:02AM	2606.0	m	MW 10.8; Vis 72
27-Oct-2009 12:59PM	2702.0	m	MW 10.9; Vis 73
27-Oct-2009 1:16PM	2710.0	m	SCR's
27-Oct-2009 4:55PM	2804.0	m	Having problem with the pump. Pick up off bottom.
27-Oct-2009 5:06PM	2804.0	m	MW 10.9; Vis 74
27-Oct-2009 5:07PM	2804.0	m	Back on bottom drilling
27-Oct-2009 9:36PM	2912.0	m	Drilling break - Flow check as there are no losses as expected. Well shut in.
27-Oct-2009 10:22PM	2912.0	m	Pumps brough on for a short period of time.
27-Oct-2009 11:46PM	2912.0	m	Pumping begins at low flow ~90gpm
28-Oct-2009 1:06AM	2912.0	m	Pumps down again
31-Oct-2009 11:22PM	2912.7	m	Pumps brought up to 600gpm to retrieve data from DH. Operations aborted before started due to foreseeable pressure issues.
31-Oct-2009 11:41PM	2912.7	m	Rotation begun - 77rpm on surface. Began pulling out of hole.
1-Nov-2009 11:30PM	0.0	m	Batteries pulled from back up tools and put into minicube.
2-Nov-2009 11:10AM	39.0	m	Held JSA For source unloading. (Check 6 present to comment on the JSA process for RA Source)
2-Nov-2009 11:30AM	39.0	m	Unload RA Source from SADN tool.
2-Nov-2009 11:50AM	39.0	m	Complete unload RA Source, have JSA for Rest of BHA.
2-Nov-2009 12:10PM	39.0	m	Lay out SADN
2-Nov-2009 12:15PM	30.0	m	Rack back rest of BHA
2-Nov-2009 9:10PM	30.0	m	Lay out Sonic
2-Nov-2009 10:10PM	22.0	m	Lay out ARC with TeleSCOPE

Bit Performance Report



Bit Performance Report										
Run Number			3		BHA Type			Rotary Assembly		
BHA Number			3							
Bit Manufacturer			Smith		Bit Name			MDSI-716 HVPX		
Bit Serial Number			JD0772							
Bit TFA			1.10 sq. in.		Effective Gauge Length (inches)					
Date in			24-Oct-09		Date out					
Depth in			1284m		Depth out			2912m		
Inclination in			1°		Inclination out			1°		
Azimuth in			60°		Azimuth out			162°		
Steerability N/A.										
Shock Levels N/A.										
Stick/Slip Behavior (Comparison with offsets) Medium to high stick/slip was seen in the transition between formations. During the rest of the run the stick/slip was negligible.										
ROP Behavior (Comparison with offsets) ROP was as the expected in the Drilling program. The offset logs were faster due to a more aggressive bit choice.										
Any other observations										
Dull Bit Grading								Formation Tops / Max DLS Capability		
	1	2	WT	S	X	1	CT	Name	Depth (TVD)	Max DLS
Comments										

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Section 3: Post Job Analysis

3.1 Actual Trajectory Information

- 3.1.1 Client Sign-Off Sheet
- 3.1.2 Survey Listing
- 3.1.3 Well Path Plot, Planned vs. Actual

DEFINITIVE SURVEY SIGN-OFF SHEET

General Information

Client	Woodside Energy Ltd	Well Name	Somerset-1
Field	Woodside/T/34P/Somerset	Borehole	Somerset-1
Structure	Somerset / Slot 1		

Survey Reference Information

Surface Coord Grid	N 5643640.360 m, E 650712.400 m	Depth Units	Meters
Surface Coord Geog	S 39 20 36.757, E 142 44 56.144	Azimuth Reference	Grid North
UTM Model	GDA94/MGA94 Zone 54	Grid Convergence	-1.10897486°
Central Meridian	117E	VS Origin	N 0.000 m, E 0.000 m
Vertical Reference	Rotary Table	VS Azimuth	0.000°
Water Depth	-503.000 m relative to Least Astronomic Tide	RKB to LAT	21.5 m relative to Least Astronomic Tide

Definitive Survey Construction Details

Job No	Instrument Type	Survey From	Survey To
09ASQ0016	SLB_MWD+DMAG-Depth Only	0.00	524.50
09ASQ0016	SLB_MWD+DMAG	524.50	2863.33
09ASQ0016	SLB_BLIND+TREND	2863.33	2912.00

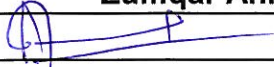
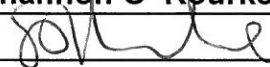
Definitive Survey Bottom Hole Location Comparisons

Source	Depth	+N/-S	+E/-W	TVD	Δ N	Δ E	Δ TVD
Field Surveys	2,863.33	-19.10	9.10	2,863.07			
Definitive Survey	2,863.33	-19.10	9.10	2,863.07	0.00	0.00	0.00

Comments

All depth and horizontal calculation are referenced to LAT and wellhead reference. Comparison was made between Field Survey and the Concatenated Definitive Survey. No discrepancy seen in N/S,E/W or TVD.

Definitive Survey Sign Off Verification

Schlumberger		Woodside Energy Ltd	
Name	Zulfiqar Ahmed	Name	Shannon O'Rourke
Signature		Signature	
Position	Drilling Engineer	Position	Drilling Engineer
Date	3-Nov-09	Date	3-Nov-09

Somerset-1 Definitive Survey Report

Report Date: November 3, 2009 Client: Woodside Energy Ltd Field: Woodside/T/34P/Somerset Structure / Slot: Somerset / Slot 1 Well: Somerset-1 Borehole: Somerset-1 UWI/API: Survey Name / Date: Somerset-1 Drilling Surveys / October 21, 2009 Tort / AHD / DDI / ERD ratio: 6.584° / 32.52 m / 2.847 / 0.011 Grid Coordinate System: GDA94/MGA94 Zone 54 Location Lat/Long: S 39 20 36.757, E 142 44 56.144 Location Grid N/E Y/X: N 5643640.360 m, E 650712.400 m Grid Convergence Angle: -1.10897486° Grid Scale Factor: 0.99987967	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 0.00° Vertical Section Origin: N 0.000 m, E 0.000 m TVD Reference Datum: Rotary Table TVD Reference Elevation: 21.5 m relative to Least Astronomic Tide Sea Bed / Ground Level Elevation: -503.000 m relative to Least Astronomic Tide Magnetic Declination: 11.033° Total Field Strength: 61074.699 nT Magnetic Dip: -70.384° Declination Date: October 21, 2009 Magnetic Declination Model: BGGM 2009 North Reference: Grid North Total Corr Mag North -> Grid North: +12.142° Local Coordinates Referenced To: Well Head
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Comments	Measured Depth (m)	Inclination (deg)	Azimuth Grid (deg)	TVD (m)	Vertical Section (m)	NS Grid North (m)	EW Grid North (m)	DLS (deg/30 m)	Northing (m)	Easting (m)	Latitude	Longitude
Tie-In	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5643640.36	650712.40	S 39 20 36.757	E 142 44 56.144
Sea Bed	524.50	0.00	0.00	524.50	0.00	0.00	0.00	0.00	5643640.36	650712.40	S 39 20 36.757	E 142 44 56.144
	599.08	0.58	120.59	599.08	-0.19	-0.19	0.32	0.23	5643640.17	650712.72	S 39 20 36.763	E 142 44 56.158
	684.35	0.43	120.90	684.35	-0.58	-0.58	0.97	0.05	5643639.78	650713.37	S 39 20 36.775	E 142 44 56.185
	713.04	0.53	133.63	713.03	-0.72	-0.72	1.16	0.15	5643639.64	650713.56	S 39 20 36.780	E 142 44 56.193
	972.34	0.91	95.08	972.31	-1.73	-1.73	4.08	0.07	5643638.63	650716.48	S 39 20 36.811	E 142 44 56.316
	1001.37	0.91	84.18	1001.34	-1.73	-1.73	4.54	0.18	5643638.63	650716.94	S 39 20 36.811	E 142 44 56.335
	1059.78	0.95	75.47	1059.74	-1.56	-1.56	5.47	0.08	5643638.80	650717.87	S 39 20 36.805	E 142 44 56.374
	1090.08	0.78	51.04	1090.04	-1.37	-1.37	5.87	0.40	5643638.99	650718.27	S 39 20 36.798	E 142 44 56.390
	1117.31	0.70	46.36	1117.27	-1.14	-1.14	6.14	0.11	5643639.22	650718.53	S 39 20 36.790	E 142 44 56.401
	1203.66	0.94	59.46	1203.61	-0.41	-0.41	7.13	0.11	5643639.95	650719.53	S 39 20 36.766	E 142 44 56.442
	1251.88	0.96	60.07	1251.82	-0.01	-0.01	7.82	0.01	5643640.35	650720.22	S 39 20 36.753	E 142 44 56.471
	1395.50	0.46	85.91	1395.43	0.63	0.63	9.44	0.12	5643640.99	650721.83	S 39 20 36.731	E 142 44 56.538
	1423.48	0.37	96.26	1423.41	0.63	0.63	9.64	0.13	5643640.99	650722.04	S 39 20 36.731	E 142 44 56.546
	1450.69	0.34	103.29	1450.62	0.60	0.60	9.80	0.06	5643640.96	650722.20	S 39 20 36.732	E 142 44 56.553
	1739.63	0.23	147.23	1739.56	-0.08	-0.08	10.95	0.02	5643640.28	650723.35	S 39 20 36.753	E 142 44 56.602
	1885.00	0.40	189.10	1884.92	-0.83	-0.83	11.03	0.06	5643639.53	650723.43	S 39 20 36.777	E 142 44 56.605
	2029.52	0.77	194.71	2029.44	-2.27	-2.27	10.70	0.08	5643638.09	650723.10	S 39 20 36.824	E 142 44 56.593
	2086.65	0.83	198.58	2086.56	-3.03	-3.03	10.47	0.04	5643637.33	650722.87	S 39 20 36.849	E 142 44 56.584
	2201.88	0.95	193.38	2201.78	-4.75	-4.75	9.99	0.04	5643635.61	650722.39	S 39 20 36.905	E 142 44 56.565
	2288.48	0.98	181.58	2288.37	-6.19	-6.19	9.80	0.07	5643634.17	650722.20	S 39 20 36.952	E 142 44 56.558
	2316.76	1.03	184.29	2316.64	-6.69	-6.69	9.77	0.07	5643633.68	650722.17	S 39 20 36.968	E 142 44 56.558
	2345.02	1.10	185.02	2344.90	-7.21	-7.21	9.73	0.08	5643633.15	650722.13	S 39 20 36.985	E 142 44 56.556
	2374.64	1.28	185.91	2374.51	-7.82	-7.82	9.67	0.18	5643632.54	650722.07	S 39 20 37.005	E 142 44 56.554
	2403.54	1.36	187.90	2403.40	-8.48	-8.48	9.59	0.10	5643631.88	650721.99	S 39 20 37.026	E 142 44 56.552
	2518.96	1.54	189.36	2518.78	-11.37	-11.37	9.15	0.05	5643628.99	650721.55	S 39 20 37.120	E 142 44 56.536
	2546.16	1.43	188.77	2545.98	-12.07	-12.07	9.04	0.12	5643628.30	650721.44	S 39 20 37.143	E 142 44 56.531
	2604.71	1.38	184.64	2604.51	-13.49	-13.49	8.87	0.06	5643626.87	650721.27	S 39 20 37.189	E 142 44 56.526
	2661.70	1.39	181.51	2661.48	-14.87	-14.87	8.80	0.04	5643625.50	650721.20	S 39 20 37.234	E 142 44 56.524
	2691.87	1.33	180.69	2691.64	-15.58	-15.58	8.78	0.06	5643624.78	650721.18	S 39 20 37.257	E 142 44 56.524
	2719.22	1.31	179.24	2718.99	-16.21	-16.21	8.79	0.04	5643624.15	650721.18	S 39 20 37.277	E 142 44 56.524
	2748.22	1.24	175.26	2747.98	-16.86	-16.86	8.82	0.12	5643623.51	650721.21	S 39 20 37.298	E 142 44 56.526
	2776.91	1.12	171.85	2776.66	-17.44	-17.44	8.88	0.15	5643622.92	650721.28	S 39 20 37.317	E 142 44 56.529
	2806.83	1.09	179.52	2806.58	-18.02	-18.02	8.92	0.15	5643622.35	650721.32	S 39 20 37.336	E 142 44 56.531
	2834.17	1.10	172.01	2833.91	-18.54	-18.54	8.96	0.16	5643621.83	650721.36	S 39 20 37.353	E 142 44 56.533
	2863.33	1.17	161.51	2863.07	-19.10	-19.10	9.10	0.23	5643621.27	650721.50	S 39 20 37.371	E 142 44 56.539
Projected to Well TD	2912.00	1.20	155.00	2911.73	-20.03	-20.03	9.47	0.08	5643620.33	650721.87	S 39 20 37.401	E 142 44 56.556

Survey Type: Non-Def Survey

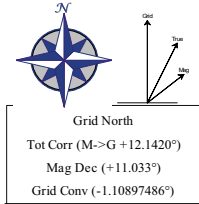
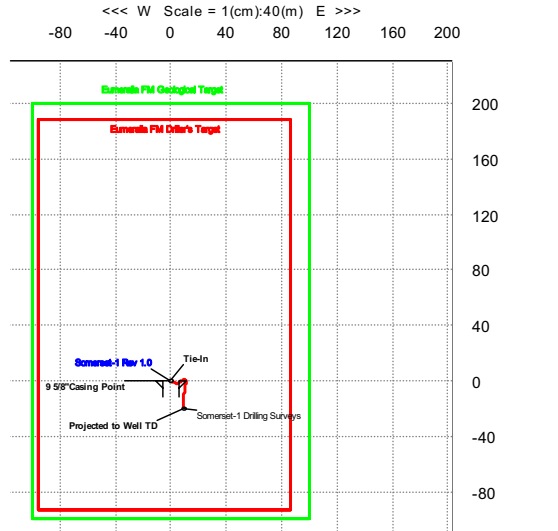
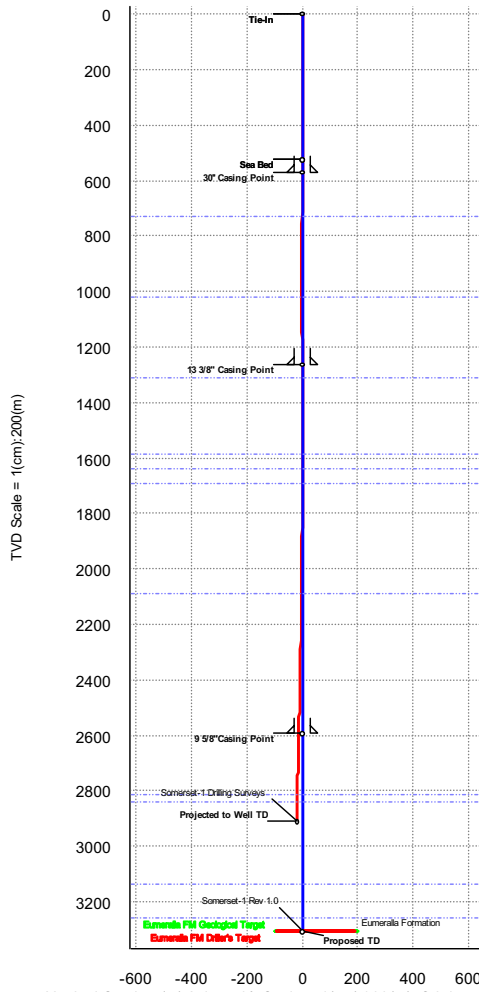
Survey Error Model: SLB ISCWSA version 31 *** 2-D 95.00% Confidence 2.4477 sigma

Surveying Prog:

MD From (m)	MD To (m)	EOU Freq	Survey Tool Type	Borehole -> Survey
0.00	524.50	Act-Stns	SLB_MWD+DMAG-Depth Only	Somerset-1 -> Somerset-1 Drilling Surveys
524.50	2863.33	Act-Stns	SLB_MWD+DMAG	Somerset-1 -> Somerset-1 Drilling Surveys
2863.33	2912.00	Act-Stns	SLB_BLIND+TREND	Somerset-1 -> Somerset-1 Drilling Surveys

WELL	FIELD	STRUCTURE
Somerset-1	Woodside/T/34P/Somerset	Somerset

Magnetic Parameters	Surface Location	Miscellaneous
Magn: BGM2009 MagDec: -11.033°	Lat: S 9 20 36.757 Lon: E 142 44 26.144	Scale: 1:100000 Datum: GDA94 Datum Conversion: -11.033° Scale Factor: 0.9997028



Surface Location

Nothing: 5643640.36 m Easting: 650712.40 m

Target Name	Shape	Major Axis	N(±)/S(±)	E(±)/W(±)	TYD	YSEC	N(±)/S(±)	E(±)/W(±)
Geological Target	Polygon	0.00	5643640.36	650712.40	3308.50	0.00	0.00	0.00
Driller's Target	Polygon	0.00	5643638.00	650708.00	3308.50	-2.36	-2.36	-4.40

Legend

- Somerset-1 Drilling Surveys
- Somerset-1 Rev 1.0
- Eumeralla FM Geological Target
- Eumeralla FM Driller's Target

Critical Point	MD	INCL	AZIM	TYD	YSEC	N(±)/S(±)	E(±)/W(±)	DLS
Tie-in	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Sea Bed	524.50	0.00	0.00	524.50	0.00	0.00	0.00	0.00
Projected to Well TD	2912.00	1.20	155.00	2911.73	-20.03	-20.03	9.47	0.08

Quality Control
Date Drawn: November 10, 2009
Drawn by: Zulfiqar Ahmed

Schlumberger Private

3.2 Drilling Performance Analysis

- 3.2.1 - Directional T-Plots
- 3.2.2 - Somerset-1 Drilling KPIs
- 3.2.3 - Offset Well KPIs

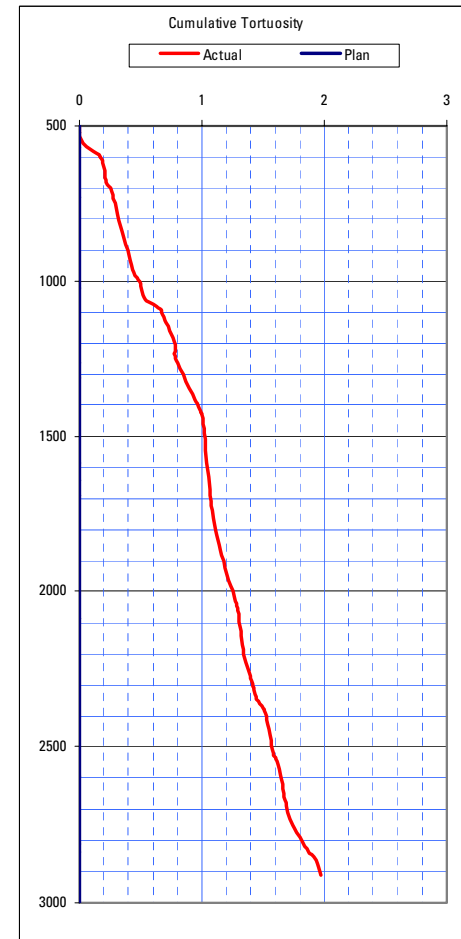
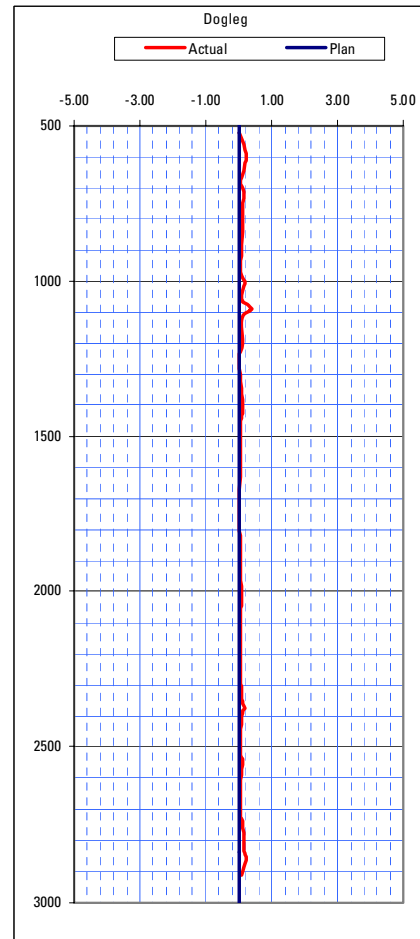
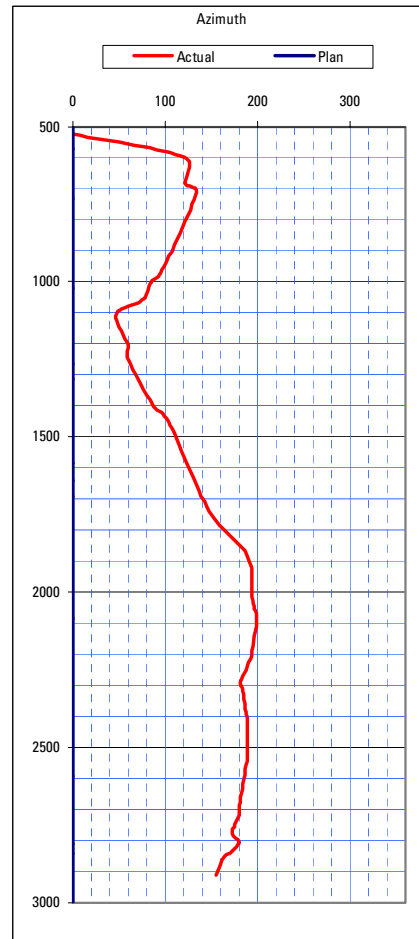
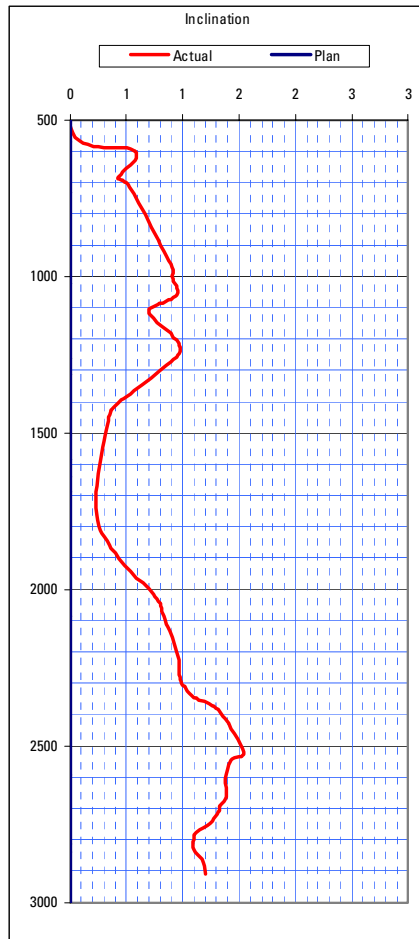


T-PLOT

Client Woodside Energy Ltd

Well Somerset-1

DDI Plan 3.23
Actual 1.98

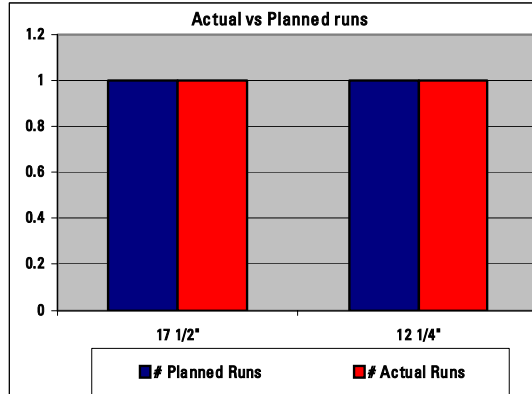
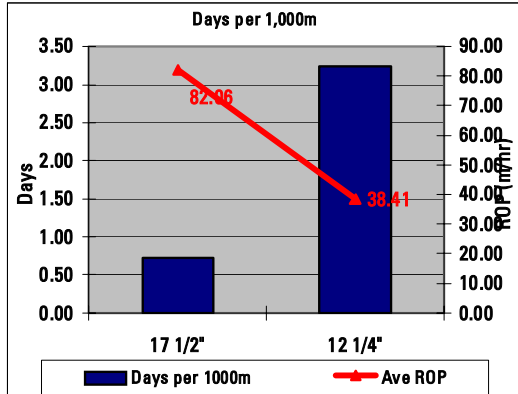


KEY PERFORMANCE INDICATORS (KPI'S) FOR DIRECTIONAL DRILLING SERVICES

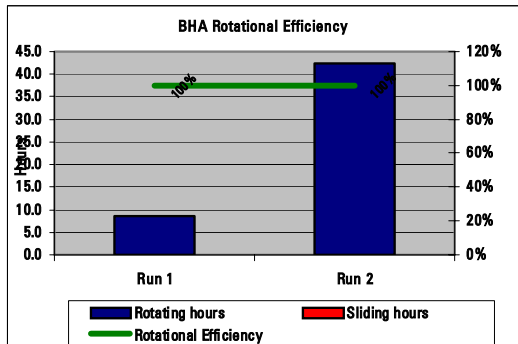
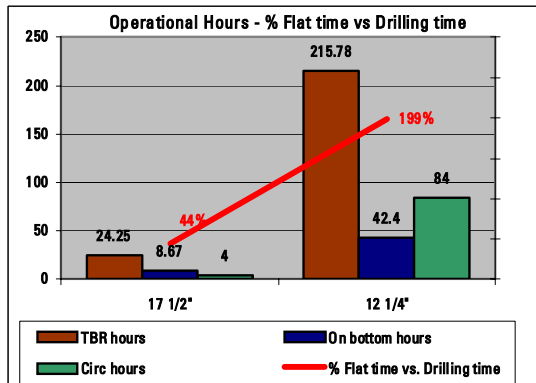
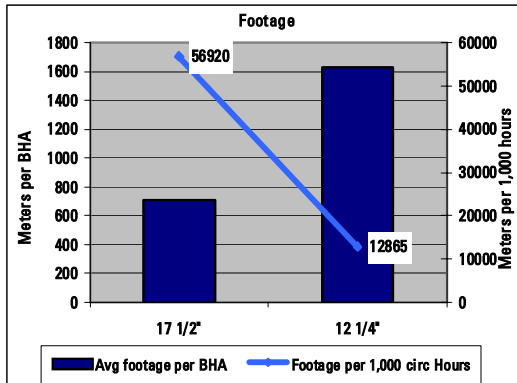
Client Woodside Energy Ltd
Well Somerset-1
Rig Ocean Patriot
Field Somerset

Total Depth 2912.00 m
Date 11/3/2009
D&M Yes

BHA Overview



Operational Performance



Summary

Non-Productive Time

Non-Productive Time 0.0 hrs
Total Operating Time 51.1 hrs

Operating Efficiency

NPT per 1,000 Circulating Hours 0.00 m/ failure
Feet drilled per 1000 Circ Hour(D&M) 1445.73 m/ circ hr.

DD Efficiency

Tortuosity (Plan v Actual) 0.00
DDI (Plan v. Actual) #NUM!

Well Trajectory

Deviations from plan	Yes
If yes, acceptable	Yes
Hit Drillers Target	Yes
Hole cleaning problems	Yes
Run casing OK	Yes
SF > 1.5	Yes
Zero well collisions	Yes
Slide in hold sections	No

(If YES - Explain)

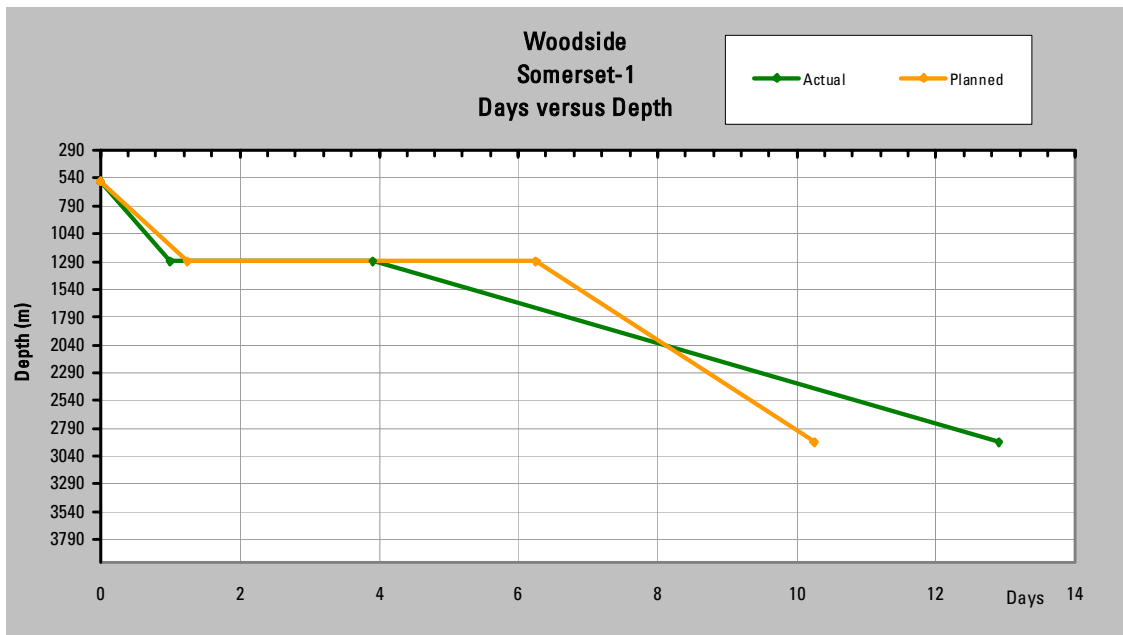
Tools & Delivery

Tools delivered fit for purpose	Yes
Backup tools available	Yes
Tools run within specifications	Yes
All tools pass shallow hole test	Yes

# of BHAs	Planned	2
	Actual	2

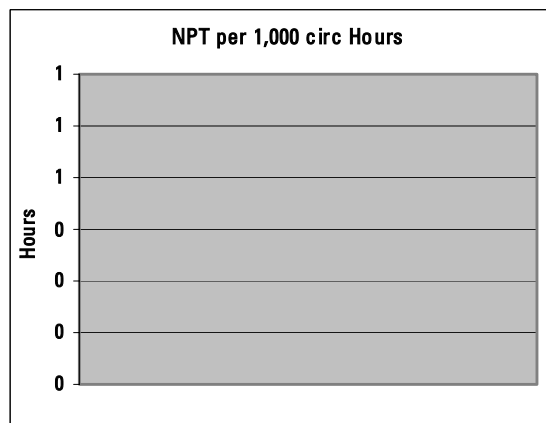
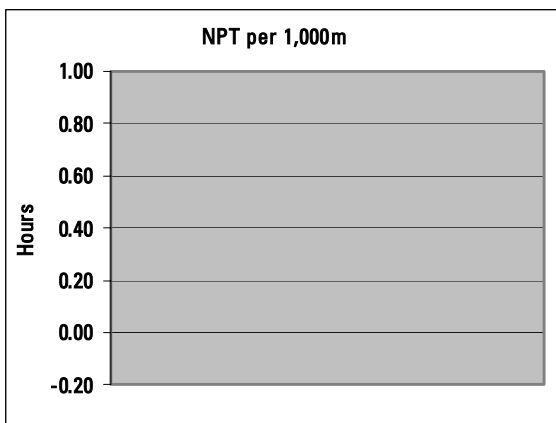
If # of actual BHAs > # of planned BHAs
Explain below - Reasons?

BHA Overview



Schlumberger Private

Operational Performance



Section 4:
Appendices

- A. Depth Control Report**
- B. Calibration Report**
- C. SQ Issues**

A. Depth Control Report

1. **Depth Acquisition Procedure Document**

Depth acquisition was performed as per the procedure outlined in the D&M-SQ-S016 Depth Control Standard and IDEAL 14.0 Field Reference Manual. Depth acquisition equipment used on the job is PDA (Precision Depth Assembly) which consists of Depth Encoder System (DES) and Clamp Line Tensiometer (CLT). The sensors calibration was performed as per D&M-SQ-S004 Calibration Standard (See section B).


2. **Permanent Depth Datum Reference**

The permanent depth datum reference for this well is the Rotary Table (RKB), which is 21.50 m above MSL.

3. **Depth Reference Plan**

Depth is referenced to the Driller's Depth. The Driller's pipe tally is used to check acquired depth at frequent intervals, usually at each stand down. See depth tracking sheet attached.

Run 1

																																																																																																																																	
SLB D&M - SQ-S016																																																																																																																																	
<h2 style="margin: 0;">Pre-Job Depth Control Report</h2>																																																																																																																																	
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x-small;">0.240</td> <td style="font-size: x-small;">8.500</td> <td style="font-size: x-small;">0.000</td> <td style="font-size: x-small;">8.500</td> <td style="font-size: x-small;">0.240</td> <td style="font-size: x-small;">0.028</td> <td style="font-size: x-small;">117.223</td> <td style="font-size: x-small;">2.948</td> <td style="font-size: x-small;">2.948</td> <td style="font-size: x-small;">L25383</td> </tr> <tr> <td style="font-size: x-small;">MOTR :</td> <td style="font-size: x-small;">7.930</td> <td style="font-size: x-small;">6.810</td> <td style="font-size: x-small;">0.000</td> <td style="font-size: x-small;">6.810</td> <td style="font-size: x-small;">8.170</td> <td style="font-size: x-small;">1.017</td> <td style="font-size: x-small;">124.746</td> <td style="font-size: x-small;">1.892</td> <td style="font-size: x-small;">1.892</td> <td></td> </tr> <tr> <td style="font-size: x-small;">XO :</td> <td style="font-size: x-small;">0.200</td> <td style="font-size: 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style="font-size: x-small;">3.300</td> <td style="font-size: x-small;">8.125</td> <td style="font-size: x-small;">17.210</td> <td style="font-size: x-small;">1.513</td> <td style="font-size: x-small;">30.000</td> <td style="font-size: x-small;">0.948</td> <td style="font-size: x-small;">0.504</td> <td style="font-size: x-small;">964</td> </tr> <tr> <td style="font-size: x-small;">MWD_ILD :</td> <td style="font-size: x-small;">8.680</td> <td style="font-size: x-small;">6.890</td> <td style="font-size: x-small;">5.109</td> <td style="font-size: x-small;">6.890</td> <td style="font-size: x-small;">25.890</td> <td style="font-size: x-small;">2.292</td> <td style="font-size: x-small;">88.757</td> <td style="font-size: x-small;">1.838</td> <td style="font-size: x-small;">0.211</td> <td style="font-size: x-small;">F022</td> </tr> <tr> <td style="font-size: x-small;">NSZR :</td> <td style="font-size: x-small;">1.120</td> <td style="font-size: x-small;">6.440</td> <td style="font-size: x-small;">0.000</td> <td style="font-size: x-small;">8.380</td> <td style="font-size: x-small;">27.010</td> <td style="font-size: x-small;">2.417</td> <td style="font-size: x-small;">111.559</td> <td style="font-size: x-small;">1.692</td> <td style="font-size: x-small;">1.692</td> <td style="font-size: x-small;">OSS070510</td> </tr> <tr> <td style="font-size: x-small;">SONIC :</td> <td style="font-size: x-small;">8.080</td> <td style="font-size: x-small;">6.750</td> <td style="font-size: x-small;">4.385</td> <td style="font-size: x-small;">6.750</td> <td style="font-size: x-small;">35.090</td> <td style="font-size: x-small;">3.306</td> <td style="font-size: x-small;">110.000</td> <td style="font-size: x-small;">1.724</td> <td style="font-size: x-small;">0.939</td> <td style="font-size: x-small;">46322</td> </tr> <tr> <td colspan="11" style="font-size: x-small;">----- Sensor offsets</td> </tr> </table>	Clamp Line Tensiometer Calibration		CLT Serial No.	2007401000	IDEAL SYSTEM INFORMATION BHA DESCRIPTION: BHA NUMBER = 1		ELEMENT	BHA_LEN M	BHA_OD IN	BHA_ID IN	MAX_OD IN	CUMM_LEN M	CUMM_WT MTON	WEIGHT LB/M	OPE_VOL G/M	CE_VO G/M	SERIAL NUMBER	BIT :	0.240	8.500	0.000	8.500	0.240	0.028	117.223	2.948	2.948	L25383	MOTR :	7.930	6.810	0.000	6.810	8.170	1.017	124.746	1.892	1.892		XO :	0.200	6.500	0.000	6.500	8.370	1.040	113.647	1.724	1.724	T2565	FS :	0.500	6.440	0.000	6.440	8.870	1.096	111.559	1.692	1.692	ASQ050427	DVDM :	8.340	6.890	3.300	8.125	17.210	1.513	30.000	0.948	0.504	964	MWD_ILD :	8.680	6.890	5.109	6.890	25.890	2.292	88.757	1.838	0.211	F022	NSZR :	1.120	6.440	0.000	8.380	27.010	2.417	111.559	1.692	1.692	OSS070510	SONIC :	8.080	6.750	4.385	6.750	35.090	3.306	110.000	1.724	0.939	46322	----- Sensor offsets											<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="3" style="background-color: #2d3748; color: white;">Calibration Data</th> </tr> <tr> <th>Data Point</th> <th>klbf</th> <th>V</th> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">120</td> <td style="text-align: center;">1.72</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">248</td> <td style="text-align: center;">2.1</td> </tr> </table>	Calibration Data			Data Point	klbf	V	1	120	1.72	2	248	2.1
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Notes

1. All Depth tracking is done as per procedures outlined in Depth Control Technology Based Training (ITC # 4114077)
2. Depth comparisons will be made between driller's depth and Schlumberger acquisition depth
3. Depth corrections will be done at tool joints
4. Depth corrections will not be done in the zones of interest (Horizontal wells will be an exception)

BHA Report from acquisition computer

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IDEAL SYSTEM INFORMATION
BHA DESCRIPTION: BHA NUMBER = 1
  
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ELEMENT	BHA_LEN M	BHA_OD IN	BHA_ID IN	MAX_OD IN	CUMM_LEN M	CUMM_WT MTON	WEIGHT LB/M	OPE_VOL G/M	CE_VO G/M	SERIAL NUMBER
BIT :	0.440	17.500	0.000	17.500	0.440	0.158	358.892	12.495	12.495	PM6863
PDM :	10.790	9.625	0.000	9.625	11.230	2.847	249.192	3.780	3.780	1069
SZR :	2.170	9.500	0.000	9.500	13.400	3.373	242.762	3.682	3.682	207A2
DC :	9.480	9.500	0.000	9.500	22.880	5.675	242.762	3.682	3.682	DC0136-18
SZR :	2.460	9.500	0.000	9.500	25.340	6.272	242.762	3.682	3.682	GU335
MWD :	8.570	8.410	5.900	8.410	33.910	7.292	119.040	2.777	0.914	FL62

sensor offsets

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Tool sensor [to Bit] [to reference]
-----
MWD : D&I 29.47 M -2.35 M
  
```

```

Tool Refpoint [to Tool Btm] [to Bit]
-----
MWD : ROP 1.78 M 27.12 M
  
```


D&M SQ S016 - Depth Control Standard												
Depth Tracking Data Sheet for floaters												
Well / Field		Somerset-1					Date in		20-Oct-09			
Client		Woodside					Date out		21-Oct-09			
Hole Section		17.50"					Start Depth		572.5 m			
Job Number		09AS00030					End Depth		1284.0 m			
BHA #		1					BHA Length		288.02 m			
Stand #	Single length	Stand Length	DP Length	DP + BHA	Stick-up	Tide Correction	Expected KD Depth	IDEAL KD Depth	Depth Offset	Deeper/Shallower	Date/Time	Comments
1	9.65	28.80	9.65	297.67			297.67					
	9.51		19.16	307.18			307.18					
	9.64		28.80	316.82			316.82					
2	9.64	28.94	9.64	326.46			326.46					
	9.63		48.07	336.09			336.09					
	9.67		57.74	345.76			345.76					
3	9.58	28.75	9.58	355.34			355.34					
	9.60		76.92	364.94			364.94					
	9.57		86.49	374.51			374.51					
4	9.56	28.91	9.56	384.07			384.07					
	9.67		105.72	393.74			393.74					
	9.68		115.40	403.42			403.42					
5	9.51	28.61	9.51	412.93			412.93					
	9.51		134.42	422.44			422.44					
	9.59		144.01	432.03			432.03					
6	9.50	28.75	9.50	441.53			441.53					
	9.60		163.11	451.13			451.13					
	9.65		172.76	460.78			460.78					
7	9.58	28.92	9.58	470.36			470.36					
	9.62		191.96	479.98			479.98					
	9.72		201.68	489.70			489.70					
8	9.65	28.78	9.65	499.35			499.35					
	9.57		220.90	508.92			508.92					
	9.56		230.46	518.48			518.48					
9	9.55	28.75	9.55	528.03			528.03					
	9.63		249.64	537.66			537.66					
	9.57		259.21	547.23			547.23					
10	9.46	28.70	9.46	556.69			556.69					
	9.64		278.31	566.33			566.33					
	9.60		287.91	575.93			575.93					
11	9.62	28.82	9.62	585.55			585.55					
	9.61		307.14	595.16			595.16					
	9.59		316.73	604.75	0.40		604.35	603.62	-0.73	Shallow		
12	9.58	28.80	9.58	614.33			614.33					
	9.61		335.92	623.94	0.40		623.54	622.92	-0.62	Shallow		
	9.61		345.53	633.55			633.55					
13	9.61	28.76	9.61	643.16			643.16					
	9.56		364.70	652.72			652.72					
	9.59		374.29	662.31			662.31					
14	9.65	28.69	9.65	671.96			671.96					
	9.50		393.44	681.46			681.46					
	9.54		402.98	691.00			691.00					
15	9.60	28.65	9.60	700.60			700.60					
	9.53		422.11	710.13			710.13					
	9.52		431.63	719.65			719.65					
16	9.59	28.73	9.59	729.24			729.24					
	9.59		450.91	738.83			738.83					
	9.55		460.36	748.38	0.60		747.78	746.37	-1.41	Shallow	10/20/2009 22:33	
17	9.64	28.90	9.64	758.02			758.02					
	9.60		479.60	767.62			767.62					
	9.66		489.26	777.28	0.60		776.68	775.80	-0.88	Shallow	BD+0.5 10/20/2009 10:46 PM	
18	9.63	28.73	9.63	786.91			786.91					
	9.59		508.48	796.50			796.50					
	9.51		517.99	806.01	0.70		805.31	804.24	-1.07	Shallow	10/20/2009 23:14	
19	9.64	28.80	9.64	815.65			815.65					
	9.62		537.25	825.27			825.27					
	9.54		546.79	834.81	0.80		834.01	832.77	-1.24	Shallow	HD+1.0 on bottom 10/20/2009 11:45 PM	
20	9.49	28.61	9.49	844.30			844.30					
	9.62		565.90	853.92			853.92					Cal to 324
	9.50		575.40	863.42			863.42					

21	9.67	28.89	585.07	873.09			873.09					
	9.65		594.72	882.74			882.74					
	9.57		604.29	892.31			892.31					
22	9.60	28.75	613.89	901.91		0.80	901.11	901.02	-0.09	Shallow	10/21/2009 0:24	
	9.62		623.51	911.53			911.53					
	9.53		633.04	921.06			921.06					
23	9.59	28.82	642.63	930.65		0.80	929.85	929.42	-0.43	Shallow	10/21/2009 0:48	HD+0.4 on Bottom
	9.65		652.28	940.30			940.30					
	9.58		661.86	949.88			949.88					
24	9.59	28.85	671.45	959.47		0.90	958.57	958.62	0.05	Deep	10/21/2009 1:06	
	9.61		681.06	969.08			969.08					
	9.65		690.71	978.73			978.73					
25	9.53	28.83	700.24	988.26		0.90	987.36	987.33	-0.03	Shallow	10/21/2009 1:30	
	9.66		709.90	997.92			997.92					
	9.64		719.54	1007.56			1007.56					
26	9.65	28.94	729.19	1017.21			1017.21					
	9.63		738.82	1026.84		1.00	1025.84	1025.52	-0.32	Shallow	10/21/2009 1:56	
	9.68		748.48	1036.50			1036.50					BD+0.3
27	9.59	28.82	758.07	1046.09			1046.09					
	9.61		767.68	1055.70			1055.70					
	9.62		777.30	1065.32			1065.32					
28	9.61	28.77	786.91	1074.93		1.00	1073.93	1074.51	0.58	Deep	10/21/2009 2:30	
	9.57		796.48	1084.50			1084.50					
	9.59		806.07	1094.09			1094.09					
29	9.57	28.93	815.64	1103.66			1103.66					
	9.68		825.32	1113.34			1113.34					
	9.68		835.00	1123.02		0.90	1122.12	1122.87	0.75	Deep	10/21/2009 4:17	
30	9.58	28.90	844.58	1132.60			1132.60					
	9.65		854.23	1142.25			1142.25					
	9.67		863.90	1151.92			1151.92					
31	9.60	28.93	873.50	1161.52			1161.52					
	9.63		883.13	1171.15		0.90	1170.25	1170.26	0.01	Deep	10/21/2009 5:00	
	9.70		892.83	1180.85			1180.85					
32	9.61	28.78	902.44	1190.46			1190.46					
	9.54		911.98	1200.00			1200.00					
	9.63		921.61	1209.63		0.80	1208.83	1209.10	0.27	Deep		
33	9.63	28.86	931.24	1219.26			1219.26					
	9.60		940.84	1228.86			1228.86					
	9.63		950.47	1238.49		0.80	1237.69	1237.83	0.14	Deep	10/21/2009 6:47	
34	9.57	28.80	960.04	1248.06			1248.06					
	9.69		969.73	1257.75			1257.75					
	9.54		979.27	1267.29		0.65	1266.64	1266.52	-0.12	Shallow	10/21/2009	
35	9.56	28.73	988.83	1276.85			1276.85					
	9.59		998.42	1286.44			1286.44					
	9.58		1008.00	1296.02			1296.02					
36	9.48	28.56	1017.48	1305.50			1305.50					
	9.51		1026.99	1315.01			1315.01					
	9.57		1036.56	1324.58			1324.58					
37	9.55	28.81	1046.11	1334.13			1334.13					
	9.61		1055.72	1343.74			1343.74					
	9.65		1065.37	1353.39			1353.39					

SLB D&M - SQ-S016

Schlumberger

Post-Job Depth Control Report

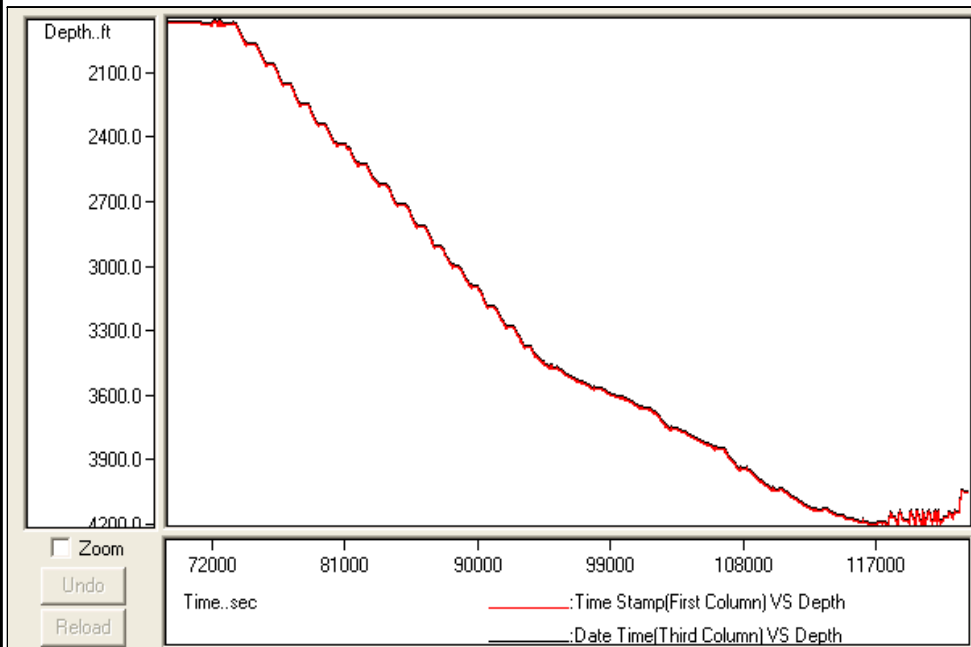
Job Information

Client	Woodside Energy
Well Name / Field	Someset-1
Job no.	09ASQ0030

Hole Section Information

Date	21-Oct-09
Start Depth	572.5 m
End Depth	1284.0 m

IDEAL DTM Corrected Depth vs. Time Plot



Schlumberger Private

Depth Equipments Used for the Run		
Equipment Type	Serial no.	Remarks
Geograph	2681	
Heave Compensator	09-002	
Drawworks Encoder	-	-
Clamp Line Tensiometer	2007491008	CLT-DA

Editing performed on raw depth and tool dump files

RAW DEPTH VS. TIME FILES		
Run no.	Edited	Editing done
		None

TOOL DUMP FILE		
Run no.	Edited	Editing done
		None

Cell Manager:	Marganda Hasiholan Sihite
Engineer Performing Edits:	-

Depth Acquisition Equipment Details

DEPTH ENCODER SYSTEM (DES): Driven directly by the drawworks drum. For floaters a Heave Compensation Assembly shall be used in addition to the DES. In the event that this can not be done a Geograph may be used after prior approval from Drilling & Measurements management.

DEPTH WIRE CALIBRATOR (DWC): Provides calibration data to correct the DES signal with respect to true block displacement. In the event of such an equipment not available at the rigsite, a manual calibration is performed after prior approval from the Drilling & Measurements management.

CLAMP LINE TENSIO METER (CLT): Used to automate the depth tracking by providing a link between the traveling block motion and the bit motion.

Run 2

Schlumberger

SLB D&M - SQ-S016

Pre-Job Depth Control Report

Job Information	
Client	Woodside Energy
Well Name / Field	Somerset-1
Job no.	09ASQ0030
Run #	2
Date in	24-Oct-09
Expected Casing Shoe	1279.0m

Hole Section Information	
Hole Size	12.25in.
Depth Reference	Driller's Depth
Source of Depth	Driller's Tally
Depth System	CLT + DES
Permanent Datum	LAT
Planned TD / Casing Point	3308.0m

Zones of Interest (As per Geologist Advice)

Depth Equipment Calibration Information

Drawworks Encoder Calibration	
Standard Block Height Calibration Equipment is DWC	
DWE Serial No.	2681
Date of Last Drill Line Slip & Cut	14/10/2009
Date of Last Calibration	24/10/2009
Calibration Status	Valid

Calibration Data		
Data Point	BPOS	PPM
1	0	238.1
2	100	238.1
3		
4		

Clamp Line Tensiometer Calibration

IDEAL SYSTEM INFORMATION											
BHA DESCRIPTION: BHA NUMBER = 2											
ELEMENT	BHA_LEN	BHA_OD	BHA_ID	MAX_OD	CUMM_LEN	CUMM_WT	WEIGHT	OPR_VOL	CE_VO	SERIAL NUMBER	
	M	IN	IN	IN	M	MTON	LB/M	G/M	G/M		
BIT :	0.240	8.500	0.000	8.500	0.240	0.028	117.223	2.948	2.948	L25383	
MOTR :	8.070	6.630	0.000	6.630	8.310	0.982	118.239	1.793	1.793	BICO	
XD :	0.200	6.500	0.000	6.500	8.510	1.005	113.647	1.724	1.724	T2565	
FS :	0.500	6.440	0.000	6.440	9.010	1.061	111.559	1.692	1.692	ASQ05	
DVDM :	8.320	6.890	3.300	8.200	17.330	1.477	50.000	0.948	0.504	777	
MWD_10 :	8.680	6.890	5.109	6.890	26.010	2.256	89.757	1.858	0.211	FU22	
NSZR :	0.830	8.250	0.000	8.250	26.840	2.408	183.080	2.777	2.777	OSS09	
SONIC :	7.800	6.750	4.385	6.750	34.640	3.266	110.000	1.724	0.939	3944	

Calibration Data		
Point	klbf	V
1	120	1.72
2	248	2.1

sensor OFFsets

Notes

1. All Depth tracking is done as per procedures outlined in Depth Control Technology Based Training (ITC # 4114077)
2. Depth comparisons will be made between driller's depth and Schlumberger acquisition depth
3. Depth corrections will be done at tool joints
4. Depth corrections will not be done in the zones of interest (Horizontal wells will be an exception)

IDEAL SYSTEM INFORMATION
 BHA DESCRIPTION: BHA NUMBER = 2

ELEMENT	BHA_LEN M	BHA_OD IN	BHA_ID IN	MAX_OD IN	CUMM_LEN M	CUMM_WT MTON	WEIGHT LB/M	OPE_VOL G/M	CE_VO G/M	SERIAL NUMBER
BIT :	0.330	12.250	0.000	12.250	0.330	0.053	161.775	6.123	6.123	JD0072
SZR :	2.560	8.000	0.300	12.250	2.890	0.493	171.910	2.611	2.608	207ASQ118
PDC :	2.900	8.000	3.000	8.000	5.790	0.923	147.943	2.611	2.244	ASQ8020
SZR :	1.750	8.000	3.000	12.125	7.540	1.181	147.943	2.611	2.244	207A188
ARC5 :	5.820	8.250	2.400	8.250	13.360	1.451	46.300	1.723	0.314	2374
MWD :	8.967	8.410	5.900	8.410	22.327	2.518	119.040	2.777	0.914	ZH-22
NSZR :	0.980	8.250	3.000	8.250	23.307	2.674	158.871	2.777	2.410	8590SS060
SONIC :	6.880	8.250	4.385	8.250	30.187	3.431	110.000	1.724	0.939	42784
SS :	0.320	8.375	4.100	8.375	30.507	3.477	143.453	2.862	2.176	SB04791
ADN :	8.860	9.190	4.385	11.875	39.367	4.658	133.330	2.611	1.827	42709

Sensor Offsets

Tool	Sensor	[to Bit]	[to reference]
ARC5 :	Ga	10.08 M	1.07 M
ARC5 :	Res	10.03 M	1.12 M
ARC5 :	Pres	9.32 M	1.83 M
MWD :	D&I	18.05 M	-2.35 M
SONIC :	ARRAY	27.56 M	-0.40 M
ADN :	HeFar	35.49 M	-1.21 M
ADN :	HeNear	35.34 M	-1.05 M
ADN :	DenLong	33.51 M	0.77 M
ADN :	DenShort	33.60 M	0.69 M
ADN :	ULTRASONIC	33.34 M	0.94 M

Tool	Refpoint	[to Tool Btm]	[to Bit]
ARC5 :	ROP	3.61 M	11.15 M
MWD :	ROP	2.34 M	15.70 M
SONIC :	ROP	3.86 M	27.17 M
ADN :	ROP	3.78 M	34.29 M

D&M SQ S016 - Depth Control Standard												
Depth Tracking Data Sheet for floaters												
Well / Field			Somerset-1				Date in			24-Oct-09		
Client			Woodside				Date out			02-Nov-09		
Hole Section			12.25'				Start Depth			1284 m		
Job Number			09AS00030				End Depth			2912.7 m		
BHA #			2				BHA Length			265.72 m		
Stand #	Single length	Stand Length	DP Length	DP + BHA	Stick-up	Tide Correction	Expected KD Depth	IDEAL KD Depth	Depth Offset	Deeper/Shallower	Date/Time	Comments
			883.91									
1	9.58	28.82	873.49	1139.21			1139.21					
	9.61		883.10	1148.82			1148.82					
	9.63		892.73	1158.45			1158.45					
2	9.58	28.82	902.31	1168.03			1168.03					
	9.63		911.94	1177.66			1177.66					
	9.61		921.55	1187.27		0.20	1187.07	1187.07	0.00	On Depth		SET BIT DEPTH
3	9.63	28.82	931.18	1196.90			1196.90					
	9.62		940.80	1206.52			1206.52					
	9.67		950.47	1216.19			1216.19					
4	9.61	28.88	960.08	1225.80			1225.80					
	9.52		969.60	1235.32			1235.32					
	9.55		979.15	1244.87			1244.87					
5	9.57	28.70	988.72	1254.44			1254.44					
	9.61		998.33	1264.05		0.83	1263.23	1263.50	0.27	Deep	10/25/2009	
	9.52		1007.85	1273.57		0.80	1272.77	1273.00	0.23	Deep	10/25/2009	
6	9.59	28.80	1017.44	1283.16		0.70	1282.46	1282.50	0.04	Deep	10/25/2009 15:37	
	9.60		1027.04	1292.76			1292.76					
	9.61		1036.65	1302.37		0.55	1301.82	1302.22	0.40	Deep	4:33 PM	10/25/2009
7	9.62	28.82	1046.27	1311.99			1311.99					
	9.63		1055.90	1321.62			1321.62					
	9.57		1065.47	1331.19		0.55	1330.64	1330.60	-0.04	Shallow	5:45 PM	10/25/2009
8	9.61	28.79	1075.08	1340.80			1340.80					
	9.57		1084.65	1350.37			1350.37					
	9.61		1094.26	1359.98		0.59	1359.39	1359.14	-0.25	Shallow	6:36 PM	10/25/2009
9	9.65	28.90	1103.91	1369.63			1369.63					
	9.63		1113.54	1379.26			1379.26					
	9.62		1123.16	1388.88		0.07	1388.81	1388.31	-0.50	Shallow	7:23pm	10/25/2009
10	9.60	28.74	1132.76	1398.48			1398.48					
	9.67		1142.43	1408.15			1408.15					
	9.47		1151.90	1417.62		0.06	1417.56	1417.42	-0.14	Shallow		BD+0.3 10/25/2009
11	9.60	28.80	1161.50	1427.22			1427.22					
	9.53		1171.03	1436.75			1436.75					
	9.67		1180.70	1446.42			1446.42					
12	9.62	28.88	1190.32	1456.04			1456.04					
	9.60		1199.92	1465.64		0.20	1465.44	1465.23	-0.21	Shallow	9:32 PM	10/25/2009
	9.66		1209.58	1475.30		0.53	1474.77	1474.29	-0.48	Shallow	10:00 PM	
13	9.56	28.86	1219.14	1484.86			1484.86					
	9.65		1228.79	1494.51			1494.51					
	9.65		1238.44	1504.16		0.30	1503.86	1503.44	-0.42	Shallow	10:43 PM	HD+0.3 on bottom 10/25/2009
14	9.51	28.74	1247.95	1513.67			1513.67					
	9.54		1257.49	1523.21			1523.21					
	9.69		1267.18	1532.90		0.30	1532.60	1532.29	-0.31	Shallow	11:32 PM	10/25/2009
15	9.75	28.91	1276.93	1542.65			1542.65					
	9.56		1286.49	1552.21			1552.21					
	9.60		1296.09	1561.81		0.40	1561.41	1561.33	-0.08	Shallow		HD +0.3 on bottom
16	9.57	28.81	1305.66	1571.38			1571.38					
	9.61		1315.27	1580.99			1580.99					
	9.63		1324.90	1590.62		0.70	1589.92	1589.59	-0.33	Shallow	1:30 AM	10/26/2009 0:00
17	9.64	28.84	1334.54	1600.26			1600.26					
	9.67		1344.21	1609.93			1609.93					
	9.53		1353.74	1619.46		0.50	1618.96	1619.28	0.32	Deep	2:46 AM	10/26/2009
18	9.66	28.83	1363.40	1629.12			1629.12					
	9.56		1372.96	1638.68		0.80	1637.88	1637.68	-0.20	Shallow	3:16 AM	10/26/2009 .(
	9.61		1382.57	1648.29			1648.29					
19	9.57	28.61	1392.14	1657.86			1657.86					
	9.41		1401.55	1667.27			1667.27					
	9.63		1411.18	1676.90			1676.90					
20	9.67	28.85	1420.85	1686.57			1686.57					
	9.57		1430.42	1696.14			1696.14					
	9.61		1440.03	1705.75		0.76	1704.99	1704.35	-0.64	Shallow		

21	9.64	28.88	1449.67	1715.39			1715.39					
	9.60		1459.27	1724.99			1724.99					
	9.64		1468.91	1734.63			1734.63					
22	9.51	28.83	1478.42	1744.14		0.90	1743.24	1743.39	0.15	Deep	6:50 AM	6:50 AM
	9.67		1488.09	1753.81			1753.81					
	9.65		1497.74	1763.46			1763.46					
23	9.55	28.86	1507.29	1773.01			1773.01					
	9.63		1516.92	1782.64			1782.64					
	9.68		1526.60	1792.32		0.80	1791.52	1791.56	0.04	Deep	8:41 AM	10/26/2009
24	9.63	28.83	1536.23	1801.95			1801.95					
	9.60		1545.83	1811.55			1811.55					
	9.60		1555.43	1821.15			1821.15					
25	9.64	28.98	1565.07	1830.79		0.70	1830.09	1829.80	-0.29	Shallow	10:01 AM	10/26/2009
	9.66		1574.73	1840.45			1840.45					
	9.68		1584.41	1850.13			1850.13					
26	9.62	28.75	1594.03	1859.75			1859.75					
	9.54		1603.57	1869.29			1869.29					
	9.59		1613.16	1878.88		0.70	1878.18	1878.18	0.00	On Depth	11:28 AM	10/26/2009
27	9.67	28.92	1622.83	1888.55			1888.55					
	9.63		1632.46	1898.18			1898.18					
	9.62		1642.08	1907.80		0.75	1907.05	1906.86	-0.19	Shallow	12:21 PM	10/26/2009
28	9.65	28.88	1651.73	1917.45			1917.45					
	9.66		1661.39	1927.11			1927.11					
	9.57		1670.96	1936.68			1936.68					
29	9.53	28.81	1680.49	1946.21			1946.21					
	9.62		1690.11	1955.83			1955.83					
	9.66		1699.77	1965.49			1965.49					
30	9.51	28.75	1709.28	1975.00		0.85	1974.15	1973.78	-0.37	Shallow	2:13 PM	10/26/2009
	9.69		1718.97	1984.69			1984.69					
	9.55		1728.52	1994.24			1994.24					
31	9.67	28.89	1738.19	2003.91		0.70	2003.21	2002.79	-0.42	Shallow	3:08 PM	10/26/2009
	9.60		1747.79	2013.51			2013.51					
	9.62		1757.41	2023.13			2023.13					
32	9.50	28.80	1766.91	2032.63			2032.63					
	9.62		1776.53	2042.25		0.70	2041.55	2041.38	-0.17	Shallow	4:02 PM	10/26/2009
	9.48		1786.01	2051.73			2051.73					
33	9.66	28.97	1795.67	2061.39			2061.39					
	9.67		1805.34	2071.06			2071.06					
	9.64		1814.98	2080.70		0.60	2080.10	2079.71	-0.39	Shallow	5:12 PM	10/26/2009
34	9.59	28.80	1824.57	2090.29			2090.29					
	9.60		1834.17	2099.89			2099.89					
	9.61		1843.78	2109.50			2109.50					
35	9.66	28.83	1853.44	2119.16			2119.16					
	9.63		1863.07	2128.79			2128.79					
	9.54		1872.61	2138.33			2138.33					
36	9.57	28.78	1882.18	2147.90			2147.90					
	9.61		1891.79	2157.51			2157.51					
	9.60		1901.39	2167.11		0.56	2166.55	2165.72	-0.83	Shallow	8:09 PM	10/26/2009
37	9.63	28.76	1911.02	2176.74		0.59	2176.15	2175.67	-0.48	Shallow	8:14 PM	HD+0.3 on bottom
	9.53		1920.55	2186.27			2186.27					
	9.60		1930.15	2195.87		0.30	2195.57	2194.99	-0.58	Shallow	20:51	HD+0.3 on bottom
38	9.38	28.47	1939.53	2205.25		0.30	2204.95	2204.73	-0.22	Shallow	9:13 PM	10/26/2009
	9.60		1949.13	2214.85			2214.85					BD+0.22 off bottom
	9.49		1958.62	2224.34		0.30	2224.04	2224.07	0.03	Deep		10/26/2009
39	9.64	28.82	1968.26	2233.98			2233.98					
	9.65		1977.91	2243.63			2243.63					
	9.53		1987.44	2253.16			2253.16					
40	9.68	28.89	1997.12	2262.84		0.30	2262.54	2262.87	0.33	Deep	10:56 PM	10/26/2009
	9.55		2006.67	2272.39			2272.39					
	9.66		2016.33	2282.05			2282.05					
41	9.65	28.80	2025.98	2291.70			2291.70					
	9.51		2035.49	2301.21		0.40	2300.81	2300.87	0.06	Deep	12:32 AM	10/27/2009
	9.64		2045.13	2310.85		0.50	2310.35	2310.42	0.07	Deep	12:57 AM	10/27/2009
42	9.64	28.94	2054.77	2320.49			2320.49					
	9.63		2064.40	2330.12			2330.12					
	9.67		2074.07	2339.79			2339.79					
43	9.58	28.75	2083.65	2349.37		0.60	2348.77	2348.77	0.00	On Depth	2:07 AM	2:07 AM
	9.60		2093.25	2358.97		0.80	2358.17	2358.48	0.31	Deep	2:23 AM	10/27/2009
	9.57		2102.82	2368.54			2368.54					
44	9.56	28.91	2112.38	2378.10			2378.10					
	9.67		2122.05	2387.77		0.70	2387.07	2386.88	-0.19	Shallow	3:19 AM	10/27/2009
	9.68		2131.73	2397.45		0.75	2396.70	2396.65	-0.05	Shallow	3:31 AM	10/27/2009

45	9.51	28.81	2141.24	2406.96			2406.96					
	9.51		2150.75	2416.47			2416.47					
	9.59		2160.34	2426.06			2426.06					
46	9.50	28.75	2169.84	2435.56			2435.56					
	9.60		2179.44	2445.16			2445.16					
	9.65		2189.09	2454.81			2454.81					
47	9.58	28.82	2198.67	2464.39			2464.39					
	9.62		2208.29	2474.01	0.80		2473.21	2473.18	-0.03	Shallow	5:44 AM	10/27/2009
	9.72		2218.01	2483.73			2483.73					
48	9.65	28.78	2227.66	2493.38			2493.38					
	9.57		2237.23	2502.95			2502.95					
	9.56		2246.79	2512.51			2512.51					
49	9.55	28.75	2256.34	2522.06			2522.06					
	9.63		2265.97	2531.69	0.80		2530.89	2531.18	0.29	Deep	7:30 AM	10/27/2009
	9.57		2275.54	2541.26			2541.26					
50	9.46	28.70	2285.00	2550.72			2550.72					
	9.64		2294.64	2560.36			2560.36					
	9.60		2304.24	2569.96			2569.96					
51	9.62	28.82	2313.86	2579.58			2579.58					
	9.61		2323.47	2589.19			2589.19					
	9.59		2333.06	2598.78	0.80		2597.98	2597.88	-0.10	Shallow	9:51 AM	10/27/2009
52	9.58	28.80	2342.64	2608.36			2608.36					
	9.61		2352.25	2617.97			2617.97					
	9.61		2361.86	2627.58	0.70		2626.88	2626.81	-0.07	Shallow	10:44 AM	10/27/2009
53	9.61	28.76	2371.47	2637.19			2637.19					
	9.56		2381.03	2646.75			2646.75					
	9.59		2390.62	2656.34	0.70		2655.64	2655.60	-0.04	Shallow	10/27/2009	11:37 AM
54	9.65	28.70	2400.27	2665.99			2665.99					
	9.50		2409.77	2675.49			2675.49					
	9.55		2419.32	2685.04	0.70		2684.34	2684.31	-0.03	Shallow	12:37 PM	10/27/2009
55	9.60	28.85	2428.92	2694.64			2694.64					
	9.53		2438.45	2704.17			2704.17					
	9.52		2447.97	2713.69			2713.69					
56	9.59	28.73	2457.56	2723.28			2723.28					
	9.59		2467.15	2732.87			2732.87					
	9.55		2476.70	2742.42			2742.42					
57	9.64	28.90	2486.34	2752.06	0.70		2751.36	2751.31	-0.05	Shallow	2:48 PM	10/27/2009
	9.60		2495.94	2761.66			2761.66					
	9.66		2505.60	2771.32			2771.32					
58	9.63	28.73	2515.23	2780.95			2780.95					
	9.59		2524.82	2790.54			2790.54					
	9.51		2534.33	2800.05	0.60		2799.45	2799.35	-0.10	Shallow	5:03 PM	10/27/2009
59	9.64	28.80	2543.97	2809.69			2809.69					
	9.62		2553.59	2819.31			2819.31					
	9.54		2563.13	2828.85			2828.85					
60	9.49	28.81	2572.62	2838.34			2838.34					
	9.62		2582.24	2847.96	0.50		2847.46	2847.44	-0.02	Shallow	7:06 PM	10/27/2009
	9.50		2591.74	2857.46			2857.46					
61	9.67	28.89	2601.41	2867.13	0.40		2866.73	2866.63	-0.10	Shallow	7:49 PM	10/27/2009
	9.65		2611.06	2876.78			2876.78					
	9.57		2620.63	2886.35			2886.35					
62	9.60	28.75	2630.23	2895.95	0.40		2895.55	2895.29	-0.26	Shallow	8:59 PM	10/27/2009
	9.62		2639.85	2905.57			2905.57					
	9.53		2649.38	2915.10			2915.10					WELL CONTROL
63	9.59	28.82	2658.97	2924.69			2924.69					
	9.65		2668.62	2934.34			2934.34					
	9.58		2678.20	2943.92			2943.92					
64	9.59	28.85	2687.79	2953.51			2953.51					
	9.61		2697.40	2963.12			2963.12					
	9.65		2707.05	2972.77			2972.77					

SLB D&M - SQ-S016

Schlumberger

Post-Job Depth Control Report

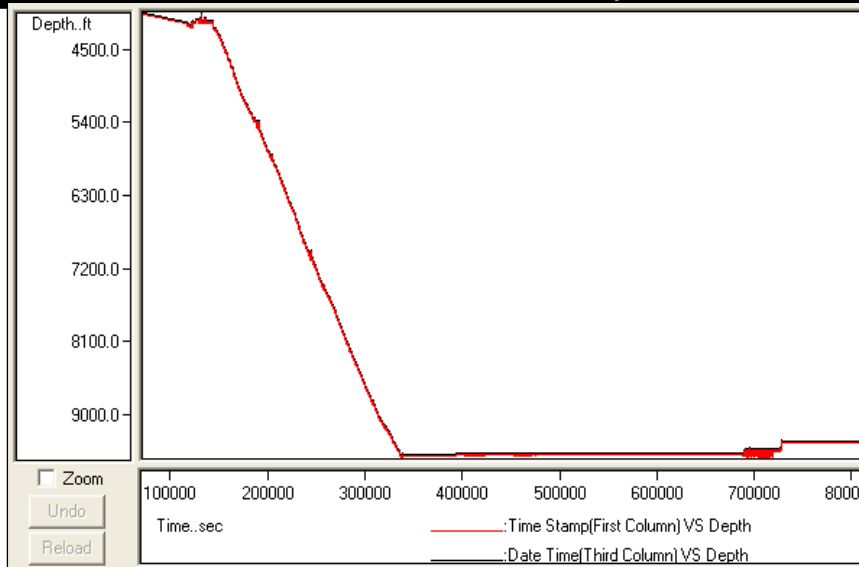
Job Information

Client	Woodside Energy
Well Name / Field	Someset-1
Job no.	09ASQ0030

Hole Section Information

Date	02-Nov-09
Start Depth	1284.0 m
End Depth	2912.7 m

IDEAL DTM Corrected Depth vs. Time Plot



Schlumberger Private

Depth Equipments Used for the Run		
Equipment Type	Serial no.	Remarks
Geograph	2681	
Heave Compensator	09-002	
Drawworks Encoder	-	-
Clamp Line Tensiometer	2007491008	CLT-DA

Editing performed on raw depth and tool dump files

RAW DEPTH VS. TIME FILES		
Run no.	Edited	Editing done
		None

TOOL DUMP FILE		
Run no.	Edited	Editing done
		None

Cell Manager:	Marganda Hasiholan Sihite
Engineer Performing Edits:	-

Depth Acquisition Equipment Details

DEPTH ENCODER SYSTEM (DES): Driven directly by the drawworks drum. For floaters a Heave Compensation Assembly shall be used in addition to the DES. In the event that this can not be done a Geograph may be used after prior approval from Drilling & Measurements management.

DEPTH WIRE CALIBRATOR (DWC): Provides calibration data to correct the DES signal with respect to true block displacement. In the event of such an equipment not available at the rigsite, a manual calibration is performed after prior approval from the Drilling & Measurements management.


CLAMP LINE TENSIO METER (CLT): Used to automate the depth tracking by providing a link between the traveling block motion and the bit motion.

B. Calibration Report

1. Calibration Records

The sensors calibration was performed as per D&M-SQ-S004 Calibration Standard. Below are the calibration records for all the sensors.

Run 1



SLB D&M SQ-S004 - Calibration; D&M SQ S016 - Depth Control

Hookload Sensor Calibration

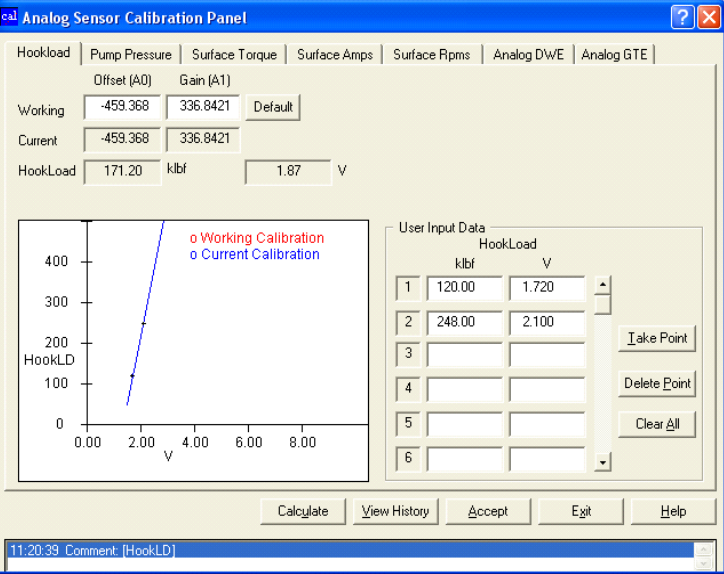
Job Information

Date	20/10/2009	Client	Woodside Energy
Job no.	09ASQ0030	Well Name	Somerset-1

Hookload Calibration Information

Hookload Sensor Type	CLT-DA
Hookload Sensor Serial Number	2007491008
Date of Calibration	20/10/2009

Hookload Calibration to be performed as often as required while drilling is going on.



The screenshot shows the 'Analog Sensor Calibration Panel' with the following data:

Hookload	Pump Pressure	Surface Torque	Surface Amps	Surface Rpm	Analog DWE	Analog GTE
Offset (A0)	Gain (A1)					Default
Working	-459.368	336.8421				
Current	-459.368	336.8421				
HookLoad	171.20	klbf	1.87	V		

The graph shows HookLD (0 to 400) vs V (0.00 to 8.00). It includes a legend for Working Calibration (red line) and Current Calibration (blue line). The User Input Data table is as follows:

	HookLoad (klbf)	V (V)
1	120.00	1.720
2	248.00	2.100
3		
4		
5		
6		

Buttons: Calculate, View History, Accept, Exit, Help

11:20:39 Comment: [HookLD]

computer

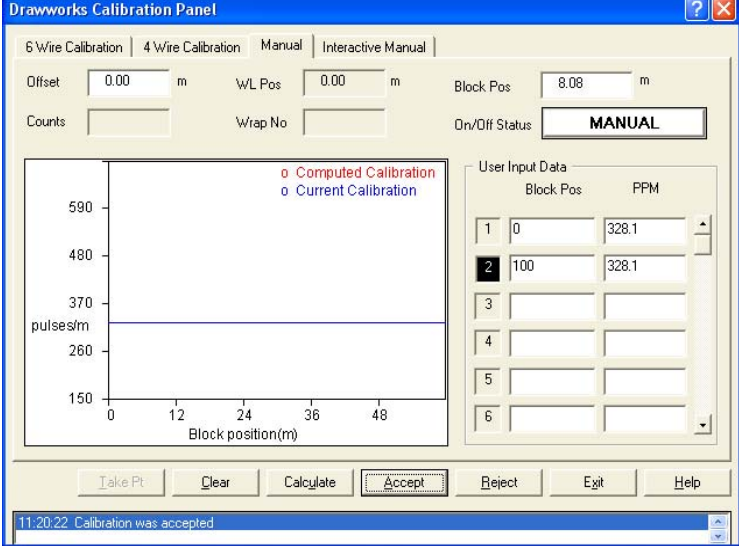
Depth Sensor Calibrations

Procedure Document: D&M-SQ-S016 D&M Depth Control Standard

Job Information

Date	20-Oct-09	Client	Woodside Energy
Job no.	09ASQ0030	Well Name	Somerset-1

Depth Calibration Screen Shot



	2681
	Valid

computer

Exemption Request Reference

Fill out an exemption request on QUEST and give its reference in this section if any of the following is true:

1. Depth reference is not Driller's Pipe Tally
2. Depth measurement data is obtained from third party for any reason.
3. If block height calibration system is using any method other than DWC calibrator.

Run 2



SLB D&M SQ-S004 - Calibration; D&M SQ S016 - Depth Control

Hookload Sensor Calibration

Job Information

Date	24/10/2009	Client	Woodside Energy
Job no.	09ASQ0030	Well Name	Somerset-1

Hookload Calibration Information

Hookload Sensor Type	CLT-DA
Hookload Sensor Serial Number	2007491008
Date of Calibration	20/10/2009

Hookload Calibration to be performed as often as required while drilling is going on.

Analogue Sensor Calibration Panel

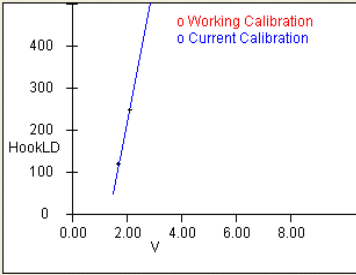
Hookload | Pump Pressure | Surface Torque | Surface Amps | Surface Rpm's | Analog DWE | Analog GTE

Offset (A0) Gain (A1)

Working -459.368 336.8421

Current -459.368 336.8421

HookLoad 171.20 kbf 1.87 V



User Input Data

	HookLoad kbf	V
1	120.00	1.720
2	248.00	2.100
3		
4		
5		
6		

11:20:39 Comment: [HookLD]

computer

Schlumberger

Depth Sensor Calibrations

Procedure Document: D&M-SQ-S016 D&M Depth Control Standard

Job Information

Date	20-Oct-09	Client	Woodside Energy
Job no.	09ASQ0030	Well Name	Somerset-1

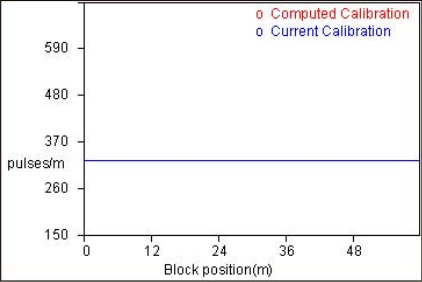
Depth Calibration Screen Shot

Drawworks Calibration Panel ? X

6 Wire Calibration | 4 Wire Calibration | Manual | Interactive Manual

Offset: m WL Pos: m Block Pos: m

Counts: Wrap No: On/Off Status: **MANUAL**



User Input Data

	Block Pos	PPM
1	0	328.1
2	100	328.1
3		
4		
5		
6		

11:20:22 Calibration was accepted

	2681
	Valid

computer

Exemption Request Reference

Fill out an exemption request on QUEST and give its reference in this section if any of the following is true:

1. Depth reference is not Driller's Pipe Tally
2. Depth measurement data is obtained from third party for any reason.
3. If block height calibration system is using any method other than DWC calibrator.

C. SQ Issues

1. SQ Issues

FAILURE DESCRIPTION

Both the primary and secondary sets of tools were loaded with good batteries and extender checks were performed (i.e. Resistance & Go-no-go check). We found out that the all tools post loading batteries had good resistances. However on the adnVISION (NDDC-CA 42707), the extender was out by about 2mm. To be on the safe side, we decided to adjust the extender such that it's within the go-no-go limit. After the adjustment the extender was checked for continuity and re-loaded back onto the tool. Extender checks were re-done and all passed without any issues.

24th October, the BHA was made up and the 1st SHT was done at 15:00hrs. On the utility frame we noticed ADNSTAT = 63, on the repeating frames all the other values were maxed out indicative of a LTB comms issue. Pumps were recycled however the status word remained the same. The BHA was disconnected at the adnVISION/sonicVISION connection and the resistance checks were re-done on the rig floor and the sonicVISION uphole extender was also checked to preclude any failures. Summary of results as follows:

- adnVISION – Go-no-go check passed
- adnVISION – resistance check passed = 390kOhmm
- sonicVISION – Go-no-go check passed
- sonicVISION – resistance check FAILED = open connection (not the expected 120kOhm)

Both the adnVISION & sonicVISION were laid out on the pipe deck and the backups were picked up. The SHT for the second BHA passed without any issues.

Back on the pipe deck, we rechecked the extenders once more. Still the sonic was reading infinite resistance. However the tool was still “clicking” indicating battery power was being supplied to the tool. The extender was washed and cleaned however no improvement in the readings. The battery magnet was put in the tool failed tool and the crew continued to work on the BHA that was currently being RIH. At 19:00hrs the crew rechecked the extender and the resistance was now reading the expected 120kOhm as seen during the pre-job checks. We removed the battery carrier, the continuity and resistances were checked from “dry stab” to “wet stab” as well as the resistances from dry stab to mass, wet stab to mass. All multimeter tests passed without any issues (we did not however have megameter to perform the complete test)

Installing the battery carrier back into the tool, sonic started its “clicking” and the extender resistances were once again within specifications. At this stage we cannot fully conclude the cause of failure, as it seems to be unrelated to the extender adjustments done on the ADN

Below are the details of the tools and time breakdown of the incident.

Tool Serial Numbers

- adnVISION (Primary) → NDDC-CA 42707
- adnVISION(Secondary) → NDDC-CA 43225
- sonicVISION(Primary) →SD8D-42784
- sonicVISION(Secondary) → SD8D-E1620-1

15:00 → Conduct First SHT with quod combo

15:12 → ADNSTAT = 63 and all ADN dpoints maxed out (pumps recycled)

15:16 → Second SHT also failed – disconnected ADN/SONIC connection and commence extender checks on rig floor

15:30 → Layout both sonic & ADN (prepare backups)

16:29 → Make up back up Sonic

16:50 → Make up back up ADN

17:05 → Second SHT with new tool string (Good Outcome)

Total SLB recorded NPT = 1hr 45mins

Schlumberger

VISION* Density Neutron
12.25" Section
1:1000m MDRT

Company: Woodside Energy Ltd

Well: Somerset-1

Field: T34P

Rig Name: Ocean Patriot

State: Tasmania

Country: Australia

Latitude: 39° 20' 36.76" S Northing: N 5,643,640.360m

Longitude: 142° 44' 56.14" E Easting: E 650,712.400m

Block: n.a

FL: Otway Basin

FL1:

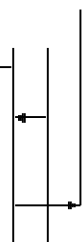
FL2:

UWID: n.a

Rig Name: Ocean Patriot

Rig Type: Semi-Submersible

Log Measured From - Drill Floor: 21.5 m
Reference Datum - Mean Sea Level
Permanent Datum - Least Astronomic Tide: 0.6 m



Ground Level: 503.0 m

Acquisition Dates: 24 Oct 09 to 02 Nov 09

Print Interval: 1275.0(m) to 2912.5(m)

Index Types: Measured Depth

Index Scales: 1:1000

Depth Source: Driller's Depth

Depth Sensor: DES

Conveyance: Drill Pipe

Print Type: Field

Spud Date: 19-Oct-2009

Other Services:

PERFORM Drilling

Directional Surveys

Shock & Vibrations

Annular Pressure & Temperature

Disclaimer

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Well Sketch

Driller(m)		Feature	OD(in)
524.50		BS	36
524.50		CSG	30
529.00		CSG	13.375
570.60			
572.50		BS	17.5
1279.00		BS	12.25
1284.00			

2912.00

Borehole Size/Casing Record

Bit					
Bit Size (in)	36	17.5	12.25		
Bottom Driller (m)	572.5	1284	2912		
Casing					
Size (in)	30	13.375			
Weight (kg/m)	169.64	71.92			
Inner Diameter (in)	29.296	12.696			
Grade	H40	N80			
Top Driller (m)	524.5	529			
Bottom Driller (m)	570.6	1279			

Operational Run Summary

Parameter (unit)	Run 2				
Date Log Started	24-Oct-2009				
Time Log Started	13:36:13				
Date Log Finished	02-Nov-2009				
Time Log Finished	09:45:09				
Bit Size (in)	12.250				
Bit Start Depth (m)	1274.72				
Bit Stop Depth (m)	2912.69				
Top Log Interval (m)	1279.00				
Bottom Log Interval (m)	2903.38				
Max Hole Deviation (deg)	1.54				
Azimuth of Max Deviation (deg)	198.58				
Logging Unit Number	OLU-KC-0702				
Logging Unit Location					
Recorded By	Marganda/Mewan/Russell				
Witnessed By	David/Todd				
Service Order Number	09ASQ0030				

Borehole Fluids

Parameter (unit)	Run 2				
Type Fluid	Water				
Max Recorded Temperature (degC)	109				
Source of Sample	Active Tank				
Salinity (ppm)	Zoned				
Density (g/cm ³)	Zoned				

Density (g/cm3)	Zoned					
Viscosity (s)						
Fluid Loss (cm3)						
pH	Zoned					
Source Rmf						
Source Rmc	Pressed					
Rm @ Meas Temp (ohm.m@degC)	Zoned					
Rmf @ Meas Temp (ohm.m@degC)	Zoned					
Rmc @ Meas Temp (ohm.m@degC)	Zoned					
Rm @ BHT (ohm.m@degC)	Zoned					
Rmf @ BHT (ohm.m@degC)	Zoned					
Rmc @ BHT (ohm.m@degC)	Zoned					

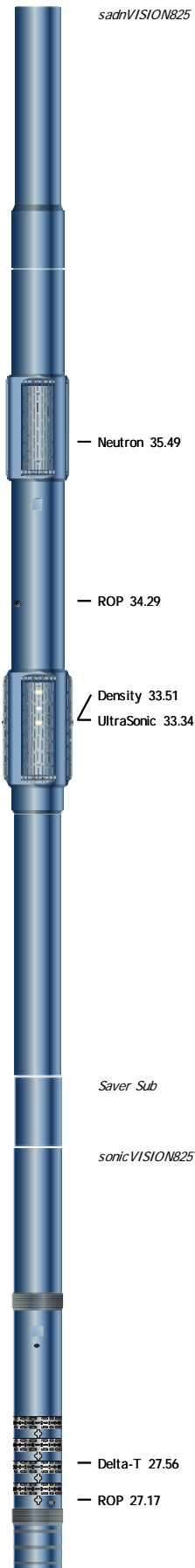
Zoned Borehole Fluids

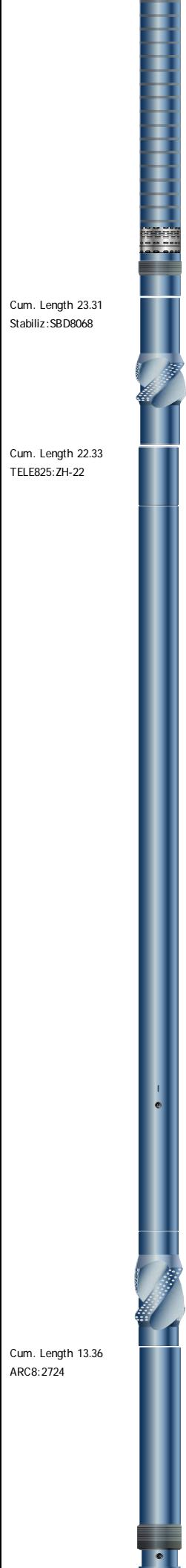
Run 2

Parameter	Value	Start
Salinity	70000	10/24/2009 1:36:13 PM
Salinity	65000	10/25/2009 8:14:10 AM
Salinity	52000	10/26/2009 4:24:53 AM
Salinity	56000	10/27/2009 5:09:59 AM
Density	1.29	10/24/2009 1:36:13 PM
Density	1.26	10/26/2009 2:52:31 AM
Density	1.3	10/27/2009 5:10:29 AM
pH	8.5	10/24/2009 1:36:13 PM
pH	10.2	10/25/2009 8:14:10 AM
pH	10	10/26/2009 2:52:07 AM
pH	9	10/26/2009 4:24:53 AM
Meas Temp	19.4	10/24/2009 1:36:13 PM
Meas Temp	18.8	10/26/2009 4:24:53 AM
Meas Temp	20	10/27/2009 1:55:15 AM
Meas Temp	19.4	10/24/2009 1:36:13 PM
Meas Temp	18.9	10/26/2009 4:24:53 AM
Meas Temp	19.7	10/27/2009 1:55:15 AM
Rm @ Meas Temp	0.08 @ 19.4	10/24/2009 1:36:13 PM
Rm @ Meas Temp	0.09 @ 18.8	10/26/2009 4:24:53 AM
Rm @ Meas Temp	0.10 @ 20	10/27/2009 1:55:15 AM
Rmf @ Meas Temp	0.06 @ 19.4	10/24/2009 1:36:13 PM
Rmf @ Meas Temp	0.08 @ 18.9	10/26/2009 4:24:53 AM
Rmf @ Meas Temp	0.08 @ 19.7	10/27/2009 1:55:15 AM
Rmc @ Meas Temp	0.09 @ 20	10/24/2009 1:36:13 PM
Rmc @ Meas Temp	0.14 @ 20	10/26/2009 4:24:53 AM
Rmc @ Meas Temp	0.18 @ 20	10/27/2009 1:55:15 AM
Rm @ BHT	0.04 @ 62	10/24/2009 1:36:13 PM
Rm @ BHT	0.06 @ 62	10/26/2009 4:24:53 AM
Rm @ BHT	0.10 @ 62	10/27/2009 1:52:45 AM
Rm @ BHT	0.07 @ 62	10/27/2009 1:55:15 AM
Rmf @ BHT	0.03 @ 62	10/24/2009 1:36:13 PM
Rmf @ BHT	0.05 @ 62	10/26/2009 4:24:53 AM
Rmf @ BHT	0.08 @ 62	10/27/2009 1:53:02 AM
Rmf @ BHT	0.06 @ 62	10/27/2009 1:55:15 AM

Rmc @ BHT	0.00 @ 62	10/27/2009 1:55:15 AM
Rmc @ BHT	0.04 @ 62	10/24/2009 1:36:13 PM
Rmc @ BHT	0.13 @ 62	10/26/2009 4:24:53 AM
Rmc @ BHT	0.18 @ 62	10/27/2009 1:46:10 AM
Rmc @ BHT	0.12 @ 62	10/27/2009 1:55:15 AM

Remarks and Equipment Summary

Run 2: Toolstring	Run 2: Remarks	
<p>Cum. Length 39.36 SADN8:42709</p>  <p style="text-align: right;">— Neutron 35.49</p> <p style="text-align: right;">— ROP 34.29</p> <p style="text-align: right;">Density 33.51 UltraSonic 33.34</p> <p style="text-align: right;">Cum. Length 30.51 Svr Sub::OSS0809</p> <p style="text-align: right;">Saver Sub</p> <p style="text-align: right;">Cum. Length 30.19 SONICVISIO:E1620</p> <p style="text-align: right;">sonicVISION825</p> <p style="text-align: right;">— Delta-T 27.56</p> <p style="text-align: right;">— ROP 27.17</p>		



ILS

TeleScope825

— D&I 18.05

— Vibration 17.05

— ROP 15.70

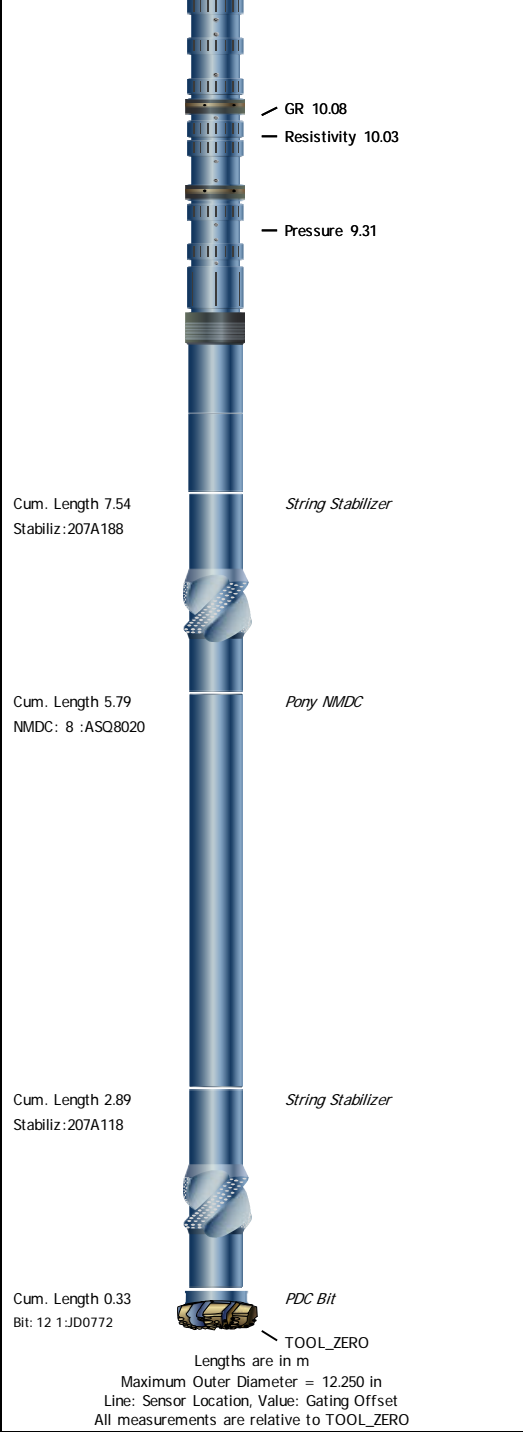
arcVISION825

— ROP 11.15

Cum. Length 23.31
Stabiliz:SBD8068

Cum. Length 22.33
TELE825:ZH-22

Cum. Length 13.36
ARC8:2724



Survey Record

Survey Calculation

Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	Grid North	Total Correction Formula :	Magnetic Dec - Grid Convergence
Grid Convergence :	-1.11 deg		

Rig Location

Latitude :	39° 20' 36.76" S	Longitude :	142° 44' 56.14" E
------------	------------------	-------------	-------------------

Tie In Point

Measured Depth:	0.00 m	Inclination:	0.00 deg	Azimuth:	0.00 deg
True Vertical Depth:	0.00 m	North Displacement:	0.00 m	East Displacement:	0.00 m
N-S VSec Origin:	0.00 m	E-W VSec Origin:	0.00 m	Vertical Section Azimuth:	0.00 deg

D&I Inits Computed and Values Used - Run 2

Geomagnetic Model :	BGGM 2009	Geomagnetic Date :	24-Oct-2009
Computed Location B :	61074.62 nT +/- 300.00nT	Used Location B :	61074.62 nT +/- 300.00nT
Computed Location G :	999.45 mgn +/- 2.50mgn	Used Location G :	999.45 mgn +/- 2.50mgn

Computed Magnetic Dip :	-70.38 deg +/- 0.45deg	Used Magnetic Dip :	-70.38 deg +/- 0.45deg
Computed Magnetic Dec :	11.03 deg	Used Magnetic Dec :	11.03 deg
Computed Total Correction :	12.14 deg	Used Total Correction :	12.14 deg

Survey Quality Index
10 : DMAG-Corrected

Seq	MD (m)	Incl (deg)	Azim (deg)	Course (m)	TVD (m)	V Sec (m)	N/ -S (m)	E/ -W (m)	Closure (m)	at Azi (deg)	DLS deg/30m	Tool Type	QI	CI
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP		
2	524.50	0.00	0.00	524.50	524.50	0.00	0.00	0.00	0.00	90.00	0.00	Manual	10	
3	599.08	0.58	120.59	74.58	599.08	-0.19	-0.19	0.32	0.38	120.59	0.23	Manual	10	
4	684.35	0.43	120.90	85.27	684.35	-0.58	-0.58	0.97	1.13	120.68	0.05	Manual	10	
5	713.04	0.53	133.63	28.69	713.03	-0.72	-0.72	1.16	1.37	121.94	0.15	Manual	10	
6	972.34	0.91	95.08	259.30	972.31	-1.73	-1.73	4.08	4.43	113.02	0.07	Manual	10	
7	1001.37	0.91	84.18	29.03	1001.34	-1.73	-1.73	4.54	4.86	110.87	0.18	Manual	10	
8	1059.78	0.95	75.47	58.41	1059.74	-1.56	-1.56	5.47	5.69	105.94	0.08	Manual	10	
9	1090.08	0.78	51.04	30.30	1090.04	-1.37	-1.37	5.87	6.03	103.12	0.40	Manual	10	
10	1117.31	0.70	46.36	27.23	1117.27	-1.14	-1.14	6.14	6.24	100.50	0.11	Manual	10	
11	1203.66	0.94	59.46	86.35	1203.61	-0.41	-0.41	7.13	7.14	93.32	0.11	Manual	10	
12	1251.88	0.96	60.07	48.22	1251.82	-0.01	-0.01	7.82	7.82	90.08	0.01	Manual	10	
13	1395.50	0.46	85.91	143.62	1395.43	0.63	0.63	9.44	9.46	86.18	0.12	Manual	10	
14	1423.48	0.37	96.26	27.98	1423.41	0.63	0.63	9.64	9.66	86.27	0.13	Manual	10	
15	1450.69	0.34	103.29	27.21	1450.62	0.60	0.60	9.80	9.82	86.49	0.06	Manual	10	
16	1739.63	0.23	147.23	288.94	1739.56	-0.08	-0.08	10.95	10.95	90.44	0.02	Manual	10	
17	1885.00	0.40	189.10	145.37	1884.92	-0.83	-0.83	11.03	11.06	94.31	0.06	Manual	10	
18	2029.52	0.77	194.71	144.52	2029.44	-2.27	-2.27	10.70	10.94	101.96	0.08	Manual	10	
19	2086.65	0.83	198.58	57.13	2086.56	-3.03	-3.03	10.47	10.90	106.14	0.04	Manual	10	
20	2201.88	0.95	193.38	115.23	2201.78	-4.75	-4.75	9.99	11.06	115.44	0.04	Manual	10	
21	2288.48	0.98	181.58	86.60	2288.37	-6.19	-6.19	9.80	11.59	122.28	0.07	Manual	10	
22	2316.76	1.03	184.29	28.28	2316.64	-6.69	-6.69	9.77	11.84	124.37	0.07	Manual	10	
23	2345.02	1.10	185.02	28.26	2344.90	-7.21	-7.21	9.73	12.11	126.53	0.08	Manual	10	
24	2374.64	1.28	185.91	29.62	2374.51	-7.82	-7.82	9.67	12.44	128.96	0.18	Manual	10	
25	2403.54	1.36	187.90	28.90	2403.40	-8.48	-8.48	9.59	12.80	131.48	0.10	Manual	10	
26	2518.96	1.54	189.36	115.42	2518.78	-11.37	-11.37	9.15	14.60	141.17	0.05	Manual	10	
27	2546.16	1.43	188.77	27.20	2545.98	-12.07	-12.07	9.04	15.08	143.15	0.12	Manual	10	
28	2604.71	1.38	184.64	58.55	2604.51	-13.49	-13.49	8.87	16.15	146.67	0.06	Manual	10	
29	2661.70	1.39	181.51	56.99	2661.48	-14.87	-14.87	8.80	17.27	149.38	0.04	Manual	10	
30	2691.87	1.33	180.69	30.17	2691.64	-15.58	-15.58	8.78	17.89	150.58	0.06	Manual	10	
31	2719.22	1.31	179.24	27.35	2718.99	-16.21	-16.21	8.79	18.44	151.55	0.04	Manual	10	
32	2748.22	1.24	175.26	29.00	2747.98	-16.86	-16.86	8.82	19.02	152.39	0.12	Manual	10	
33	2776.91	1.12	171.85	28.69	2776.66	-17.44	-17.44	8.88	19.57	153.02	0.15	Manual	10	
34	2806.83	1.09	179.52	29.92	2806.58	-18.02	-18.02	8.92	20.11	153.65	0.15	Manual	10	
35	2834.17	1.10	172.01	27.34	2833.91	-18.54	-18.54	8.96	20.59	154.19	0.16	Manual	10	
36	2863.33	1.17	161.51	29.16	2863.07	-19.10	-19.10	9.10	21.15	154.53	0.23	Manual	10	

Run 2

VISION* Density Neutron 1:1000m MDRT

Software Version

Acquisition System	Version
MaxWell	1.2.8706.0
Framework Patch	FWK-BGC-20090918-1.2.8706.1030
Application Patch	APL-BGC-DnM-1.2.8706.1021

Computation	Description	Version	
ULTRASON_PROC	Ultrasonic Processing, ADN	1.2.8706.0	
NEUTRON_PROC	Neutron Processing, ADN	1.2.8706.0	
ARC8GammaRayComputation	ARC8 Gamma Ray Computation Package for both Real-time and Recorded Mode	1.2.8706.1021	
DENSITY_PROC	Density Processing, ADN	1.2.8706.0	
Tool Elements	Description	Software Version	Firmware Version
ARDC	ARC 8.25 Inch Tool Drilling Collar	1.2.8706.1021	V9.4B
DRILLING_SURFACE	DRILLING_SURFACE	1.2.8706.1030	
ADNP	Azimuth Neutron Detector Package	1.2.8706.0	V8.3A
NDUS	Azimuth Uson Detector Package	1.2.8706.0	V8.3A
ADDP	Azimuth Density Detector Package	1.2.8706.0	V8.3A

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Acquisition Start Date	Acquisition Start Time
Run 2	Drilling	Down	1274.72 m	2912.69 m	24-Oct-2009	19:34:49

All depths are referenced to toolstring zero

Log

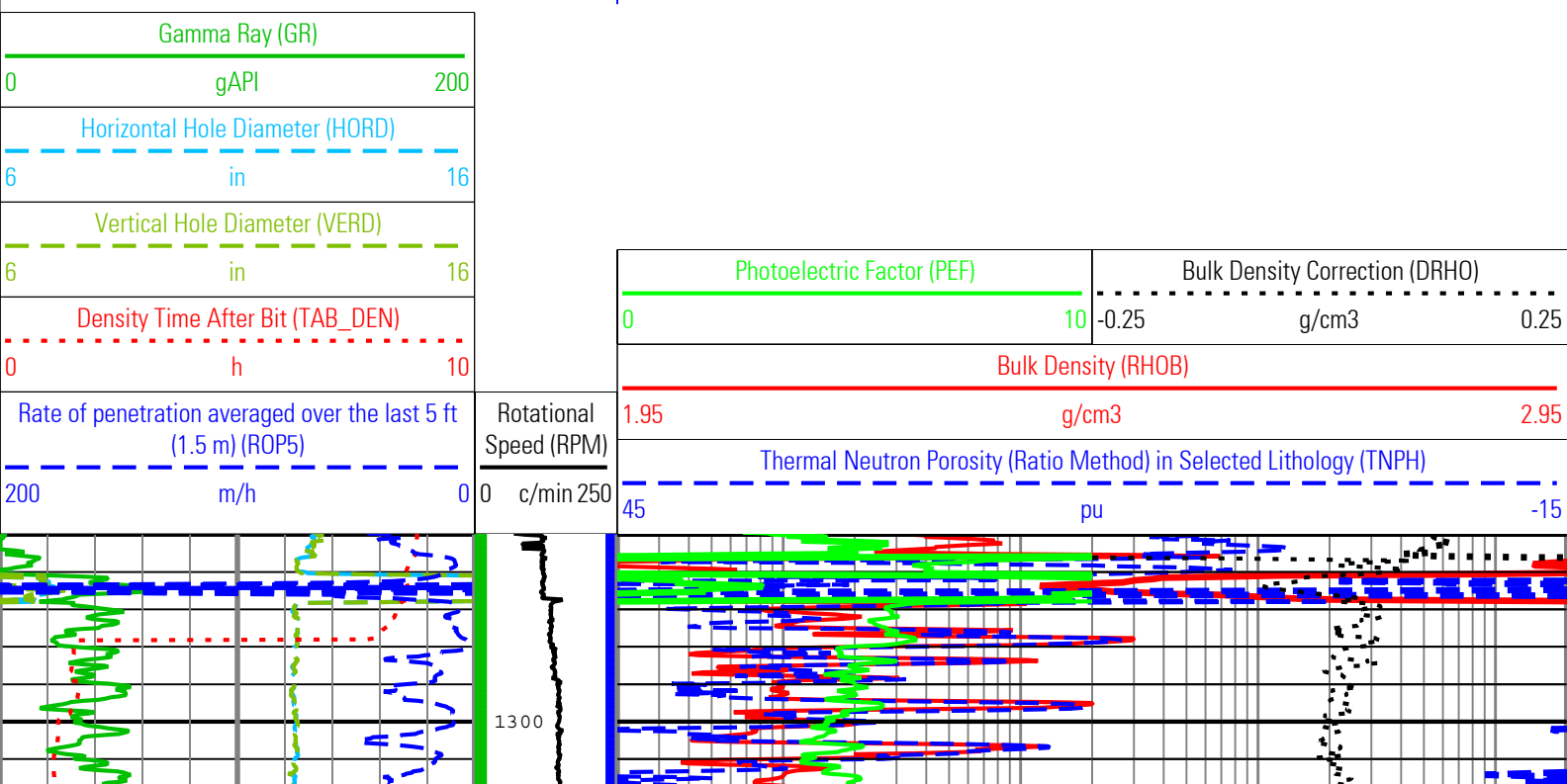
Run 2: Drilling 6A747D0C-F229-4868-B22C-5CDB6B7C6A99

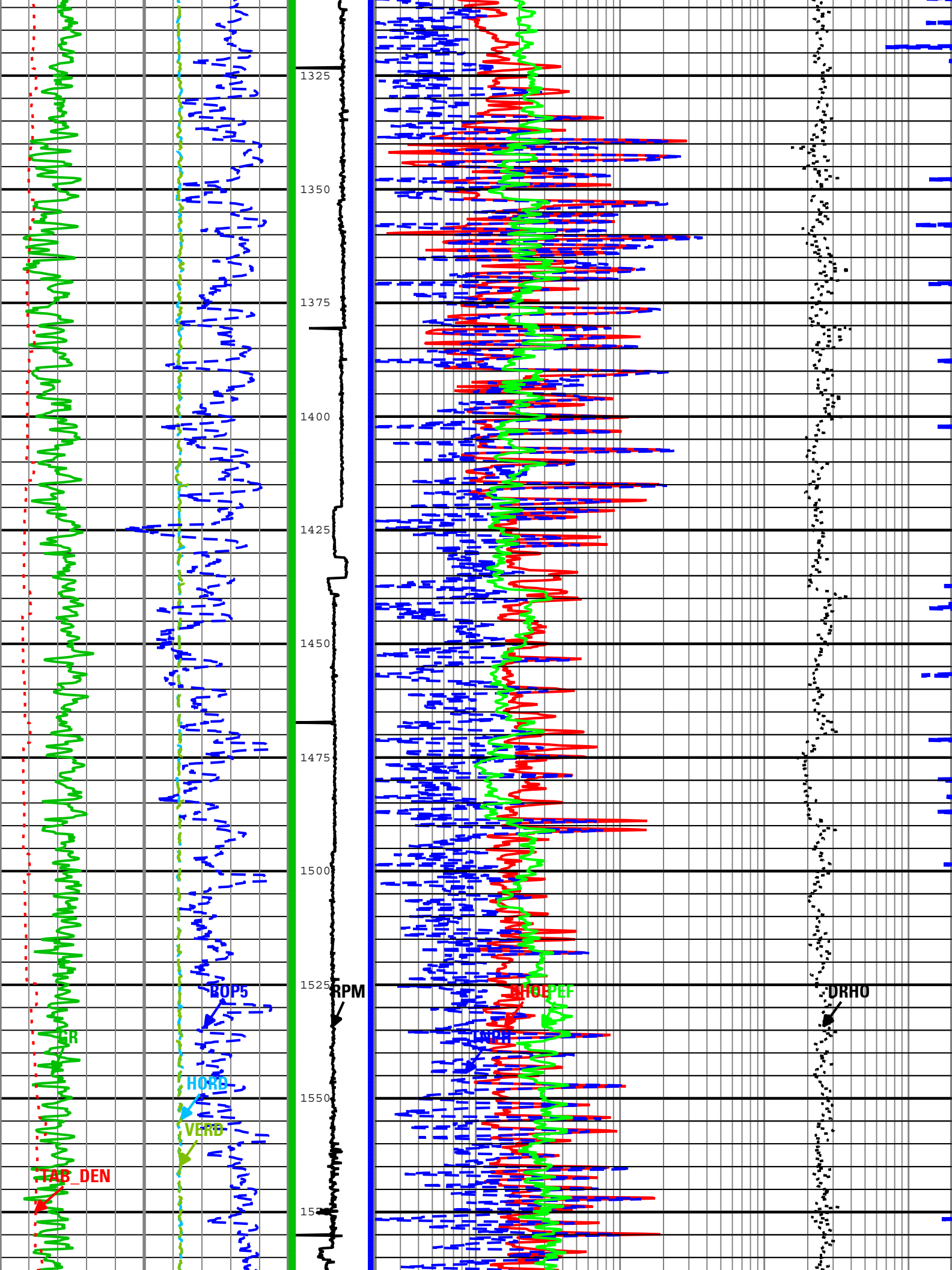
Description: ARC Blended Resistivity RT Format: Log (VISION Dens-Neut RM - Woodside) Index Scale: 1:1000 Index Unit: m Index Type: Measured Depth
 Creation Date: 19-Feb-2010 10:44:32

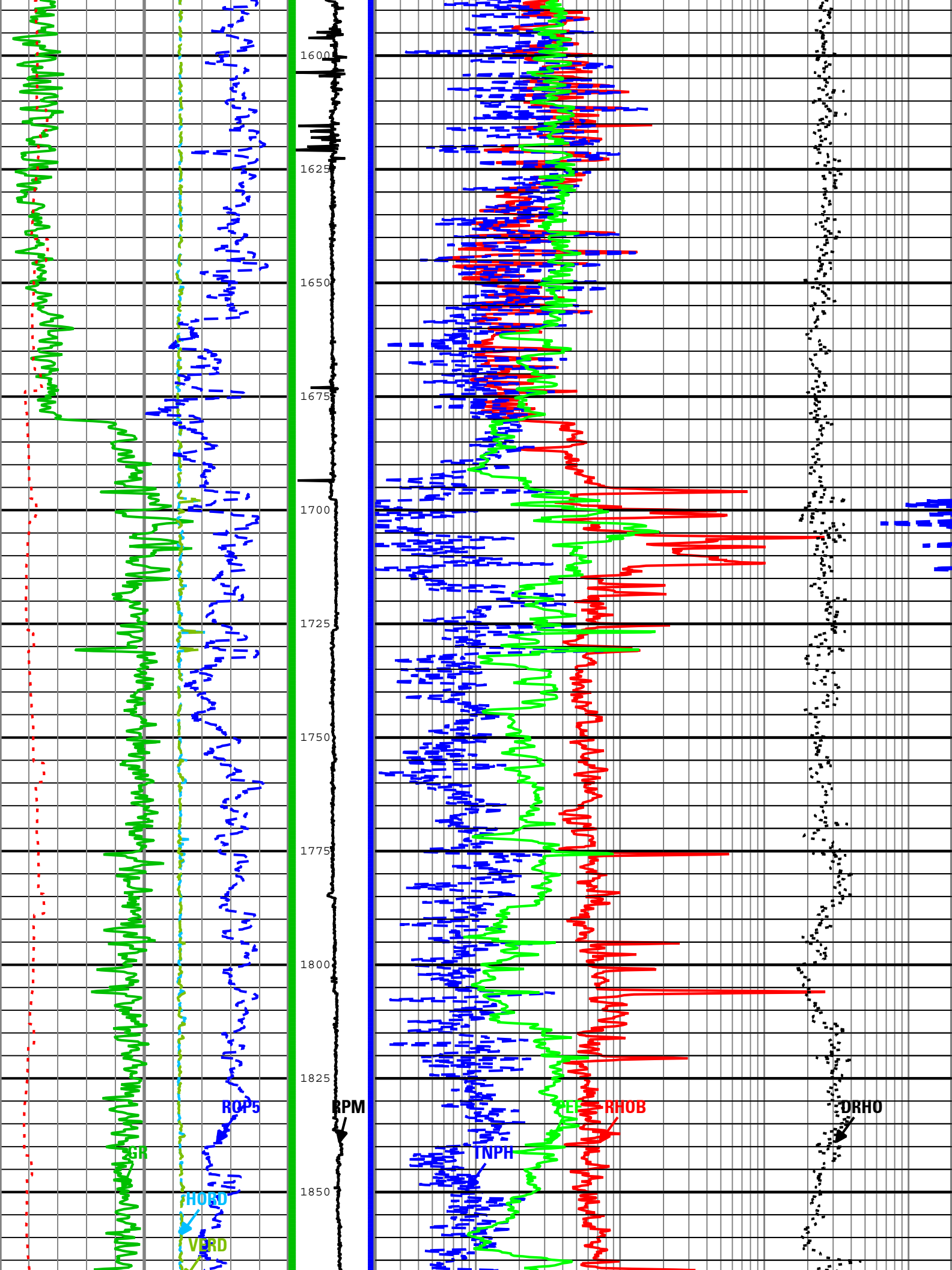
DRHO	SADN8:SADN8:ADDP	6in - RM
GR	ARC8:ARC8:ARDC	6in - RM
HORD	SADN8:SADN8:NDUS	6in - RM
PEF	SADN8:SADN8:ADDP	6in - RM
RHOB	SADN8:SADN8:ADDP	6in - RM
ROP5	DRILLING_SURFACE	6in - RT
RPM	SADN8:SADN8	6in - RM
TAB_DEN	SADN8:SADN8:ADDP	6in
TNPH	SADN8:SADN8:ADNP	6in - RM
VERD	SADN8:SADN8:NDUS	6in - RM

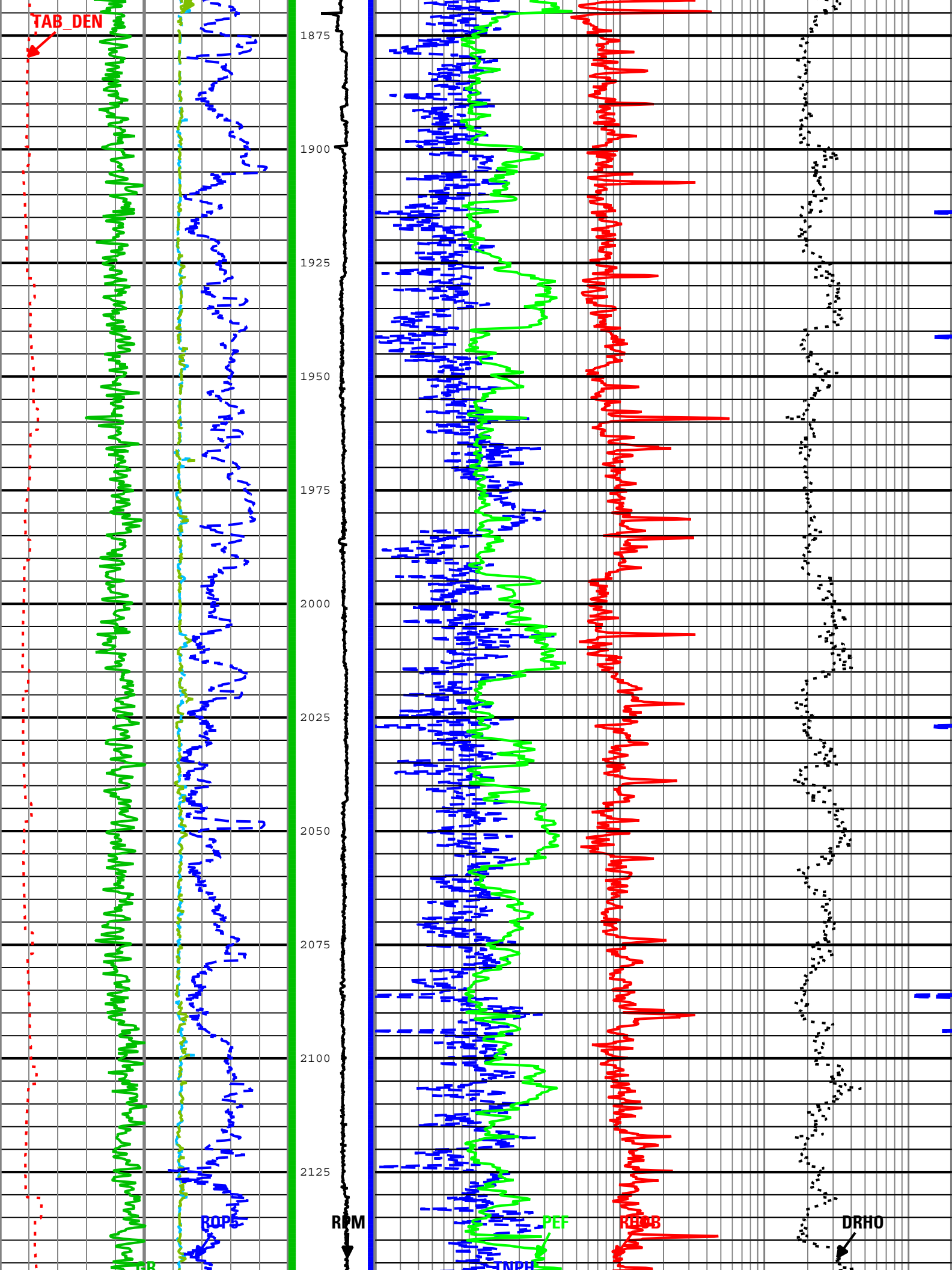
GR - Gamma Ray

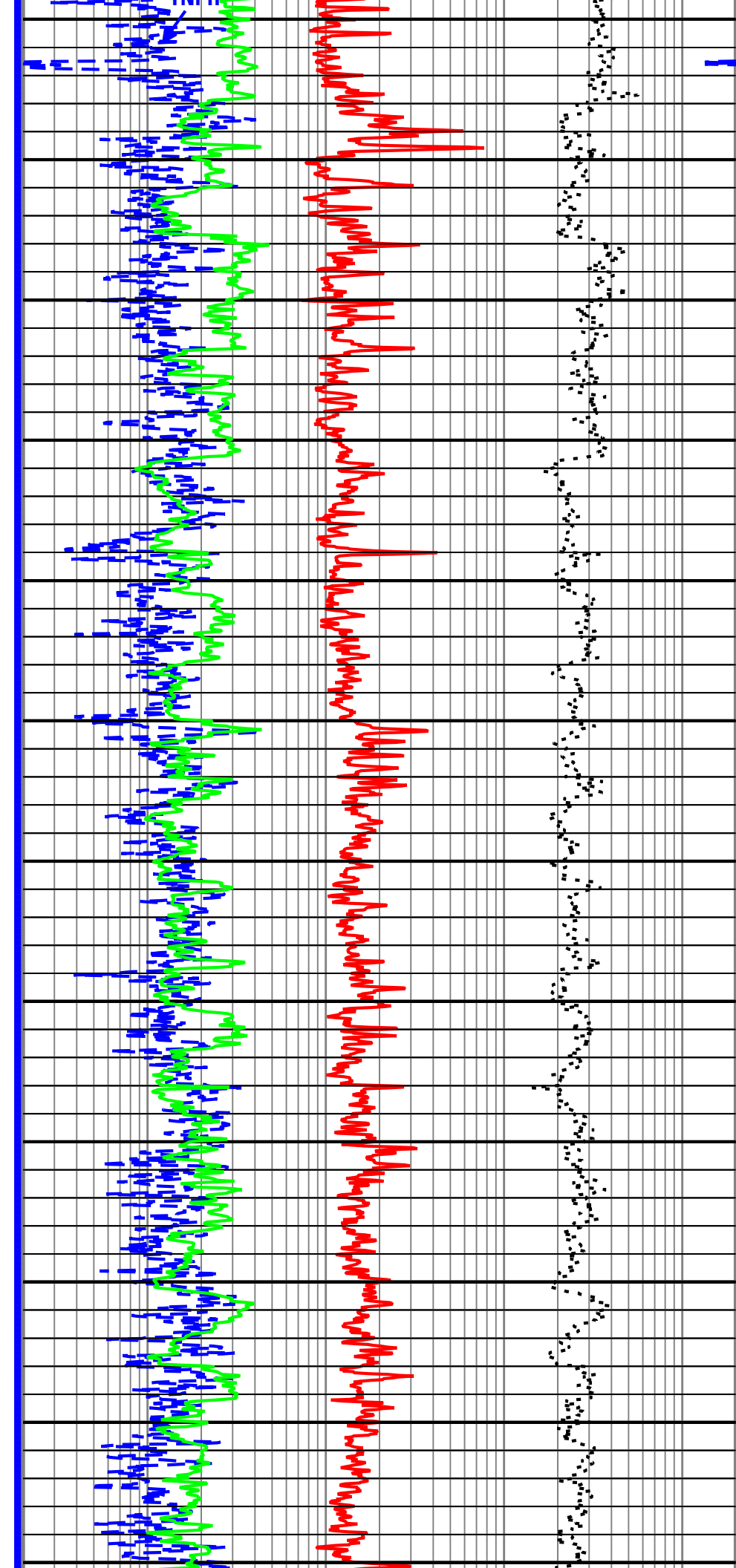
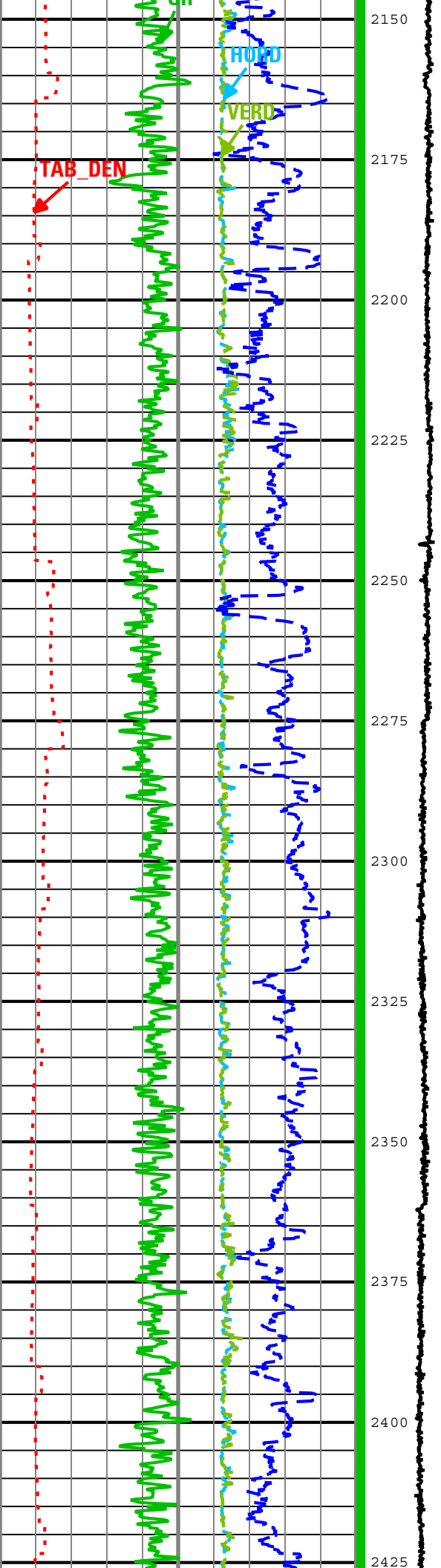
TNPH - Thermal Neutron Porosity (Ratio Method) in Selected Lithology

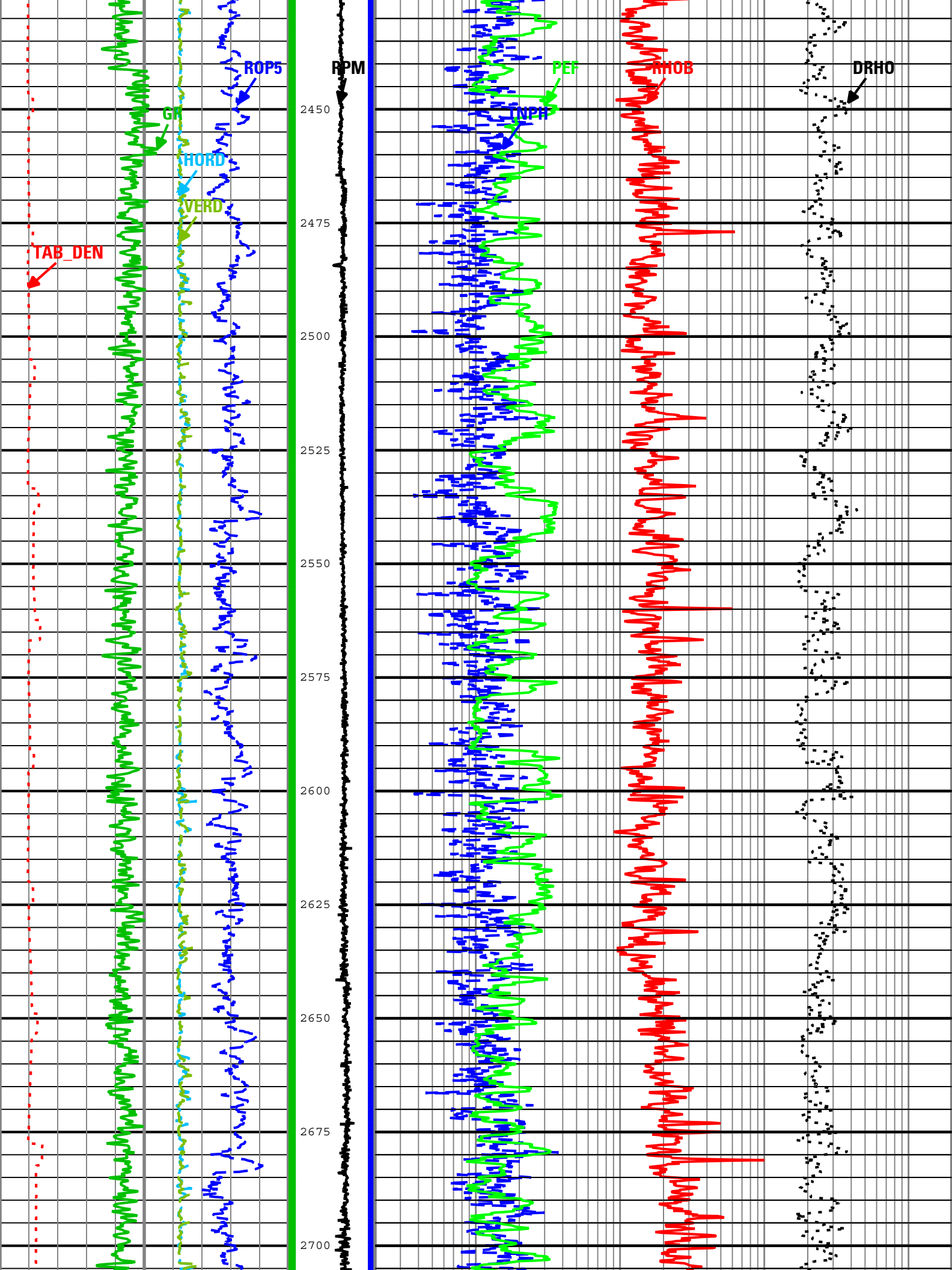


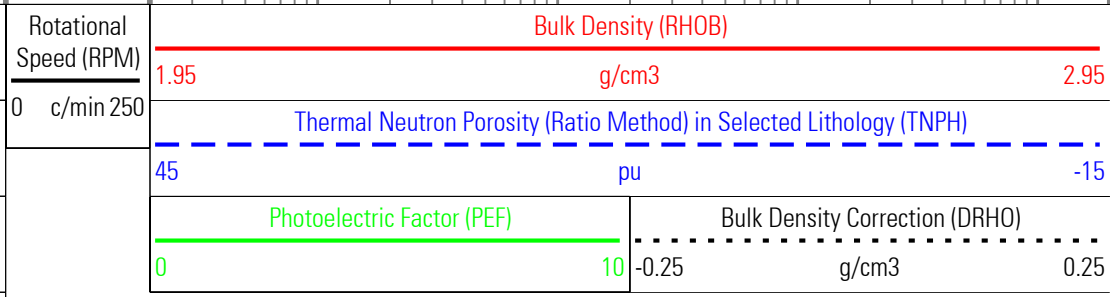
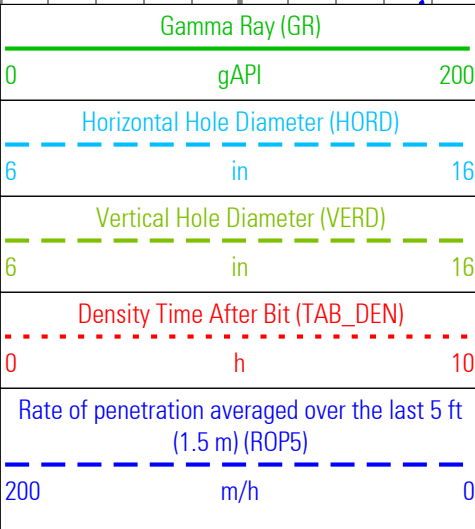
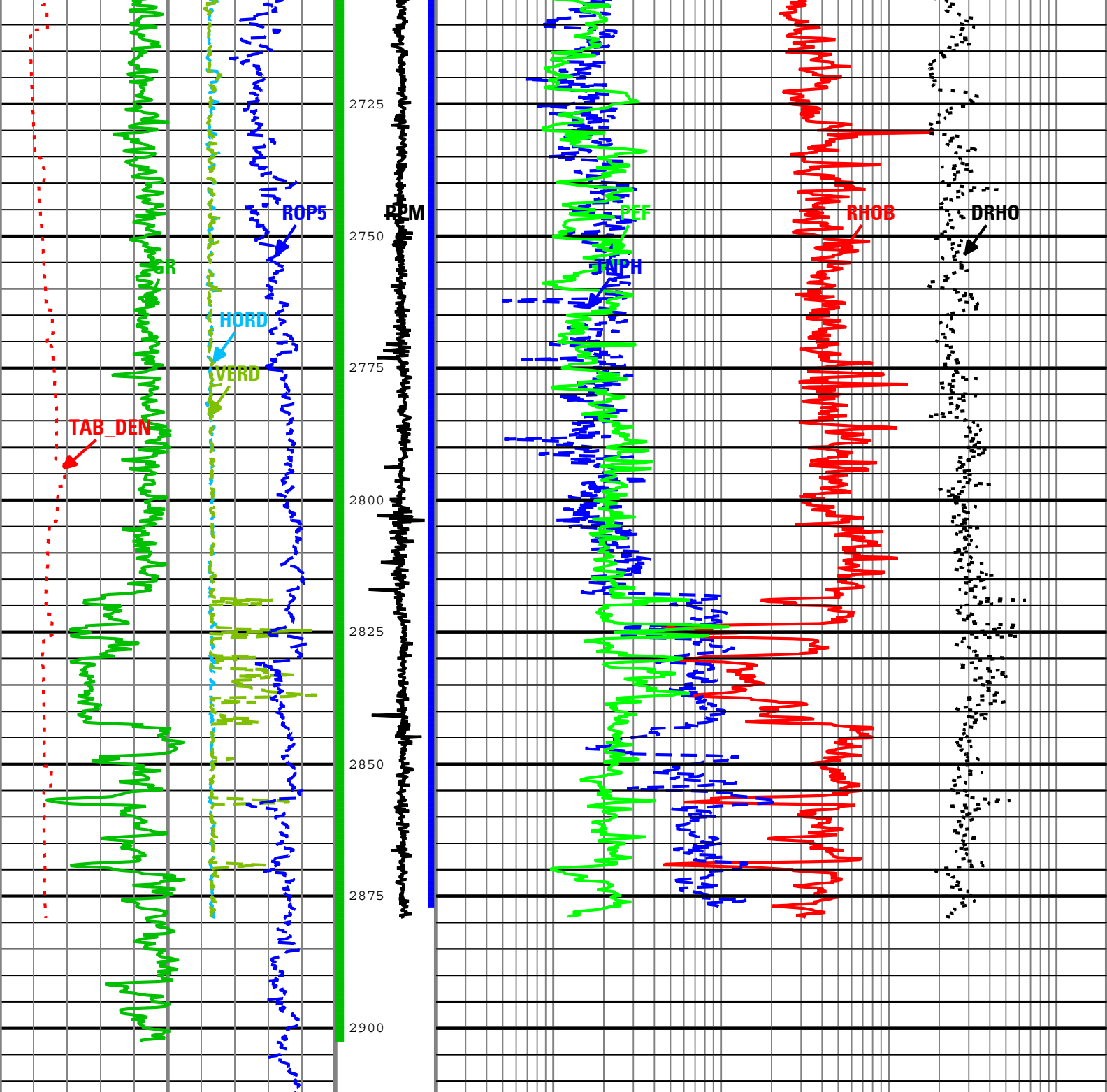












[TNPH] Thermal Neutron Porosity (Ratio Method) in Selected Lithology

Description: ARC Blended Resistivity RT Format: Log (VISION Dens-Neut RM - Woodside) Index Scale: 1:1000 Index Unit: m Index Type: Measured Depth
 Creation Date: 19-Feb-2010 10:44:32

Channel Processing Parameters				
Parameter	Description	ToolPath	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	Time Zoned	%
BHT	Bottom Hole Temperature	Borehole	62	degC
BS	Bit Size	COMPLETION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	Time Zoned	ppm
DFD	Drilling Fluid Density	Borehole	Time Zoned	g/cm3
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	220	us/ft
GGRD	Geothermal Gradient	Borehole	1.1	degF/100ft
GTSE	Generalized Temperature Selection	Borehole	Gradient From Surface	
MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
SHT	Surface Hole Temperature	Borehole	10	degC
TD	Total Measured Depth	Borehole	2912	m

Depth Zone Parameters			
Parameter	Value	Start (m)	Stop (m)
BS	17.5	1275	1284
BS	12.25	1284	2912.52

All depth are actual.

Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
BHK	5.77	24-Oct-2009 19:34:49	25-Oct-2009 08:14:10	1274.72	1278.41
BHK	5.77	25-Oct-2009 08:14:10	27-Oct-2009 05:09:59	1278.41	2451.68
BHK	4.52	27-Oct-2009 05:09:59	02-Nov-2009 09:45:08	2451.68	2912.69
BSAL	70000	24-Oct-2009 19:34:49	25-Oct-2009 08:14:10	1274.72	1278.41
BSAL	65000	25-Oct-2009 08:14:10	26-Oct-2009 04:24:53	1278.41	1673.78
BSAL	52000	26-Oct-2009 04:24:53	27-Oct-2009 05:09:59	1673.78	2451.68
BSAL	56000	27-Oct-2009 05:09:59	02-Nov-2009 09:45:08	2451.68	2912.69
DFD	1.29	24-Oct-2009 19:34:49	26-Oct-2009 02:52:31	1274.72	1626.54
DFD	1.26	26-Oct-2009 02:52:31	27-Oct-2009 05:10:29	1626.54	2451.68
DFD	1.3	27-Oct-2009 05:10:29	02-Nov-2009 09:45:08	2451.68	2912.69

All depth are at tool zero.

Tool Control Parameters				
Parameter	Description	ToolPath	Value	Unit
OFFBTM_TH	Threshold for deciding whether the bit is off bottom	DnMWorkflow	Time Zoned	m


Time Zone Parameters					
Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
OFFBTM_TH	0.6	24-Oct-2009 19:34:49	25-Oct-2009 23:15:02	1274.72	1529.56
OFFBTM_TH	0.5	25-Oct-2009 23:15:02	26-Oct-2009 00:11:46	1529.56	1558.04
OFFBTM_TH	0.4	26-Oct-2009 00:11:46	26-Oct-2009 18:26:10	1558.04	2126.79
OFFBTM_TH	0.5	26-Oct-2009 18:26:10	26-Oct-2009 18:26:39	2126.79	2127.1
OFFBTM_TH	0.6	26-Oct-2009 18:26:39	26-Oct-2009 18:36:19	2127.1	2132.63

OFFBTM_TH	0.4	26-Oct-2009 18:36:19	02-Nov-2009 09:45:08	2132.63	2912.69
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All depth are at tool zero.

Concise Calibration Record


Run 2: ARC8 : Calibration Resistivity

Primary Set Components	Description	Tool Element	Serial Number
	DC without AIM	ARDC	2724
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	05-Oct-2009 02:19:44 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity: Air			
Description	Min/Nominal/Max	Shop	Unit
	All Resistivity: Air Measurements within Tolerance		


Run 2: ARC8 : Calibration Gamma Ray

Primary Set Components	Description	Tool Element	Serial Number
	DC without AIM	ARDC	2724
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	05-Oct-2009 09:57:16 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Gamma Ray: Blanket			
Description	Min/Nominal/Max	Shop	Unit
	All Gamma Ray: Blanket Measurements within Tolerance		

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density LS Window 3 Calibration







Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
	Density Blade	ADBD	
	Retrievable Neutron Gamma Src	RNGS	
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Density: LS Window 3			
Description	Min/Nominal/Max	Shop	Unit
	All Density: LS Window 3 Measurements within Tolerance		

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density SS Window 1 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Density: SS Window 1			
Description	Min/Nominal/Max	Shop	Unit
	All Density: SS Window 1 Measurements within Tolerance		

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density SS Window 3 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type:		Density: SS Window 3		
Description	Min/Nominal/Max	Shop	Unit	
 All Density: SS Window 3 Measurements within Tolerance				
Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 1 Calibration				
Primary Set Components	Description	Tool Element	Serial Number	
	Chassis	ADSE	083	
	Neutron Blade	NDBN		
Calibration Dates	Shop Calibration			
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid			
Calibration Source	Time Frame File			
Calibration Type: Neutron: Far tube 1				
Description	Min/Nominal/Max	Shop	Unit	
 All Neutron: Far tube 1 Measurements within Tolerance				
Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 2 Calibration				
Primary Set Components	Description	Tool Element	Serial Number	
	Chassis	ADSE	083	
Calibration Dates	Shop Calibration			
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid			
Calibration Source	Time Frame File			
Calibration Type: Neutron: Far tube 2				
Description	Min/Nominal/Max	Shop	Unit	
 All Neutron: Far tube 2 Measurements within Tolerance				
Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 3 Calibration				
Primary Set Components	Description	Tool Element	Serial Number	
	Chassis	ADSE	083	
Calibration Dates	Shop Calibration			
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid			
Calibration Source	Time Frame File			
Calibration Type: Neutron: Far tube 3				
Description	Min/Nominal/Max	Shop	Unit	
 All Neutron: Far tube 3 Measurements within Tolerance				
Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 1 Calibration				
Primary Set Components	Description	Tool Element	Serial Number	
	Chassis	ADSE	083	
Calibration Dates	Shop Calibration			
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid			
Calibration Source	Time Frame File			
Calibration Type: Neutron: Near tube 1				
Description	Min/Nominal/Max	Shop	Unit	
 All Neutron: Near tube 1 Measurements within Tolerance				
Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 2 Calibration				
Primary Set Components	Description	Tool Element	Serial Number	
	Chassis	ADSE	083	
Calibration Dates	Shop Calibration			
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid			
Calibration Source	Time Frame File			
Calibration Type: Neutron: Near tube 2				
Description	Min/Nominal/Max	Shop	Unit	
 All Neutron: Near tube 2 Measurements within Tolerance				



All Neutron: Near tube 2 measurements within Tolerance

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 3 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type: Neutron: Near tube 3

Description	Min/Nominal/Max	Shop	Unit
All Neutron: Near tube 3 Measurements within Tolerance			

Company: Woodside Energy Ltd

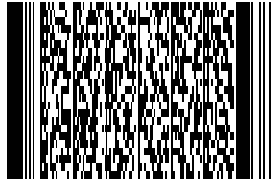
Well: Somerset-1

Field: T34P

Rig Name: Ocean Patriot

State: Tasmania

Country: Australia





VISION* Density Neutron

12.25" Section

1:1000m MDRT

Schlumberger

VISION* Resistivity

12.25" Section

1:1000m MDRT

Company: Woodside Energy Ltd

Well: Somerset-1

Field: T34P

Rig Name: Ocean Patriot

State: Tasmania

Country: Australia

Latitude: 39° 20' 36.76" S Northing: N 5,643,640.360m

Longitude: 142° 44' 56.14" E Easting: E 650,712.400m

Block: n.a

FL: Otway Basin

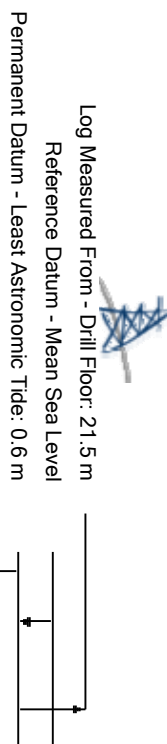
FL1:

FL2:

UWID: n.a

Rig Name: Ocean Patriot

Rig Type: Semi-Submersible



Ground Level: 503.0 m

Acquisition Dates: 24 Oct 09 to 02 Nov 09

Print Interval: 1275.0(m) to 2912.5(m)

Index Types: Measured Depth

Index Scales: 1:1000

Depth Source: Driller's Depth

Depth Sensor: DES

Conveyance: Drill Pipe

Print Type: Final

Spud Date: 19-Oct-2009

Other Services:

PERFORM Drilling

Directional Surveys

Shock & Vibrations

Annular Pressure & Temperature

Disclaimer

THE USE OF AND RELIANCE UPON THIS RECORDED-DATA BY THE HEREIN NAMED COMPANY (AND ANY OF ITS AFFILIATES, PARTNERS, REPRESENTATIVES, AGENTS, CONSULTANTS AND EMPLOYEES) IS SUBJECT TO THE TERMS AND CONDITIONS AGREED UPON BETWEEN SCHLUMBERGER AND THE COMPANY, INCLUDING: (a) RESTRICTIONS ON USE OF THE RECORDED-DATA; (b) DISCLAIMERS AND WAIVERS OF WARRANTIES AND REPRESENTATIONS REGARDING COMPANY'S USE AND RELIANCE UPON THE RECORDED-DATA; AND (c) CUSTOMER'S FULL AND SOLE RESPONSIBILITY FOR ANY INFERENCE DRAWN OR DECISION MADE IN CONNECTION WITH THE USE OF THIS RECORDED-DATA.

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 - 10.4 Parameter Listing
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Well Sketch

Driller(m)		Feature	OD(in)
524.50		BS	36
524.50		CSG	30
529.00		CSG	13.375
570.60		BS	17.5
572.50			
1279.00		BS	12.25
1284.00			

2912.00

Borehole Size/Casing Record

Bit					
Bit Size (in)	36	17.5	12.25		
Bottom Driller (m)	572.5	1284	2912		
Casing					
Size (in)	30	13.375			
Weight (kg/m)	169.64	71.92			
Inner Diameter (in)	29.296	12.696			
Grade	H40	N80			
Top Driller (m)	524.5	529			
Bottom Driller (m)	570.6	1279			

Operational Run Summary

Parameter (unit)	Run 2				
Date Log Started	24-Oct-2009				
Time Log Started	13:36:13				
Date Log Finished	02-Nov-2009				
Time Log Finished	09:45:09				
Bit Size (in)	12.250				
Bit Start Depth (m)	1274.72				
Bit Stop Depth (m)	2912.69				
Top Log Interval (m)	1279.00				
Bottom Log Interval (m)	2903.38				
Max Hole Deviation (deg)	1.54				
Azimuth of Max Deviation (deg)	198.58				
Logging Unit Number	OLU-KC-0702				
Logging Unit Location					
Recorded By	Marganda/Mewan/Russell				
Witnessed By	David/Todd				
Service Order Number	09ASQ0030				

Borehole Fluids

Parameter (unit)	Run 2				
Type Fluid	Water				
Max Recorded Temperature (degC)	109				
Source of Sample	Active Tank				
Salinity (ppm)	Zoned				
Density (g/cm ³)	Zoned				

Density (g/cm3)	Zoned					
Viscosity (s)						
Fluid Loss (cm3)						
pH	Zoned					
Source Rmf						
Source Rmc	Pressed					
Rm @ Meas Temp (ohm.m@degC)	Zoned					
Rmf @ Meas Temp (ohm.m@degC)	Zoned					
Rmc @ Meas Temp (ohm.m@degC)	Zoned					
Rm @ BHT (ohm.m@degC)	Zoned					
Rmf @ BHT (ohm.m@degC)	Zoned					
Rmc @ BHT (ohm.m@degC)	Zoned					


Zoned Borehole Fluids

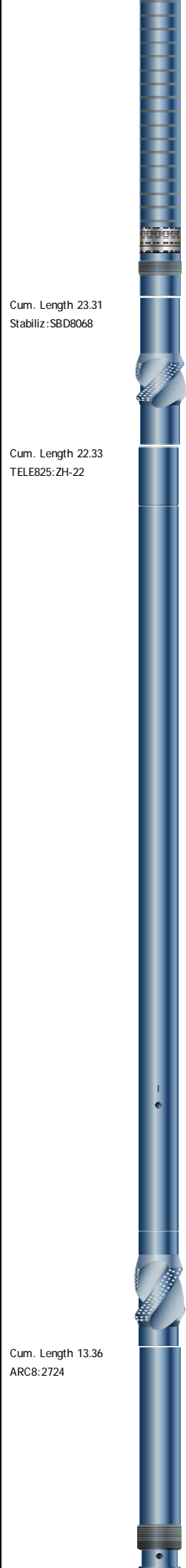
Run 2

Parameter	Value	Start
Salinity	70000	10/24/2009 1:36:13 PM
Salinity	65000	10/25/2009 8:14:10 AM
Salinity	52000	10/26/2009 4:24:53 AM
Salinity	56000	10/27/2009 5:09:59 AM
Density	1.29	10/24/2009 1:36:13 PM
Density	1.26	10/26/2009 2:52:31 AM
Density	1.3	10/27/2009 5:10:29 AM
pH	8.5	10/24/2009 1:36:13 PM
pH	10.2	10/25/2009 8:14:10 AM
pH	10	10/26/2009 2:52:07 AM
pH	9	10/26/2009 4:24:53 AM
Meas Temp	19.4	10/24/2009 1:36:13 PM
Meas Temp	18.8	10/26/2009 4:24:53 AM
Meas Temp	20	10/27/2009 1:55:15 AM
Meas Temp	19.4	10/24/2009 1:36:13 PM
Meas Temp	18.9	10/26/2009 4:24:53 AM
Meas Temp	19.7	10/27/2009 1:55:15 AM
Rm @ Meas Temp	0.08 @ 19.4	10/24/2009 1:36:13 PM
Rm @ Meas Temp	0.09 @ 18.8	10/26/2009 4:24:53 AM
Rm @ Meas Temp	0.10 @ 20	10/27/2009 1:55:15 AM
Rmf @ Meas Temp	0.06 @ 19.4	10/24/2009 1:36:13 PM
Rmf @ Meas Temp	0.08 @ 18.9	10/26/2009 4:24:53 AM
Rmf @ Meas Temp	0.08 @ 19.7	10/27/2009 1:55:15 AM
Rmc @ Meas Temp	0.09 @ 20	10/24/2009 1:36:13 PM
Rmc @ Meas Temp	0.14 @ 20	10/26/2009 4:24:53 AM
Rmc @ Meas Temp	0.18 @ 20	10/27/2009 1:55:15 AM
Rm @ BHT	0.04 @ 62	10/24/2009 1:36:13 PM
Rm @ BHT	0.06 @ 62	10/26/2009 4:24:53 AM
Rm @ BHT	0.10 @ 62	10/27/2009 1:52:45 AM
Rm @ BHT	0.07 @ 62	10/27/2009 1:55:15 AM
Rmf @ BHT	0.03 @ 62	10/24/2009 1:36:13 PM
Rmf @ BHT	0.05 @ 62	10/26/2009 4:24:53 AM
Rmf @ BHT	0.08 @ 62	10/27/2009 1:53:02 AM
Rmf @ BHT	0.06 @ 62	10/27/2009 1:55:15 AM

Rmc @ BHT	0.00 @ 62	10/27/2009 1:55:15 AM
Rmc @ BHT	0.04 @ 62	10/24/2009 1:36:13 PM
Rmc @ BHT	0.13 @ 62	10/26/2009 4:24:53 AM
Rmc @ BHT	0.18 @ 62	10/27/2009 1:46:10 AM
Rmc @ BHT	0.12 @ 62	10/27/2009 1:55:15 AM

Remarks and Equipment Summary

Run 2: Toolstring	Run 2: Remarks	
<p>Cum. Length 39.36 SADN8:42709</p>  <p style="margin-left: 100px;"><i>sadrVISION825</i></p> <p style="margin-left: 100px;">— Neutron 35.49</p> <p style="margin-left: 100px;">— ROP 34.29</p> <p style="margin-left: 100px;">Density 33.51 UltraSonic 33.34</p> <p>Cum. Length 30.51 Svr Sub::OSS0809</p> <p style="margin-left: 100px;"><i>Saver Sub</i></p> <p>Cum. Length 30.19 SONICVISIO:E1620</p> <p style="margin-left: 100px;"><i>sonicVISION825</i></p> <p style="margin-left: 100px;">— Delta-T 27.56</p> <p style="margin-left: 100px;">— ROP 27.17</p>		



ILS

TeleScope825

— D&I 18.05

— Vibration 17.05

— ROP 15.70

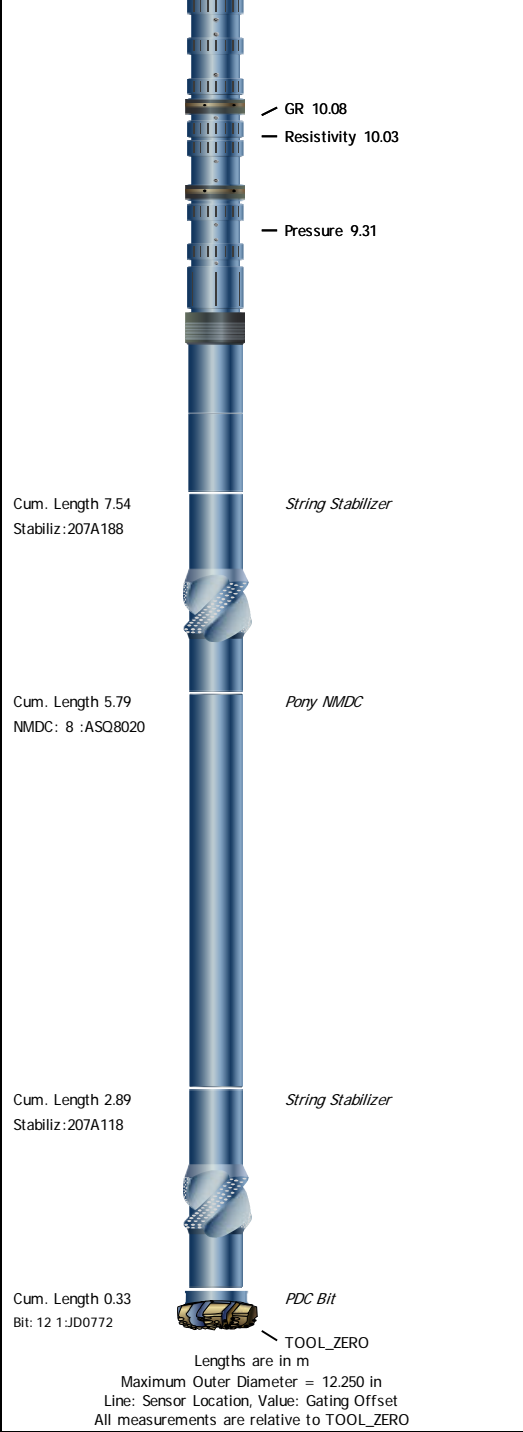
arcVISION825

— ROP 11.15

Cum. Length 23.31
Stabiliz:SBD8068

Cum. Length 22.33
TELE825:ZH-22

Cum. Length 13.36
ARC8:2724



Survey Record

Survey Calculation

Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	Grid North	Total Correction Formula :	Magnetic Dec - Grid Convergence
Grid Convergence :	-1.11 deg		

Rig Location

Latitude :	39° 20' 36.76" S	Longitude :	142° 44' 56.14" E
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Tie In Point

Measured Depth:	0.00 m	Inclination:	0.00 deg	Azimuth:	0.00 deg
True Vertical Depth:	0.00 m	North Displacement:	0.00 m	East Displacement:	0.00 m
N-S VSec Origin:	0.00 m	E-W VSec Origin:	0.00 m	Vertical Section Azimuth:	0.00 deg

D&I Inits Computed and Values Used - Run 2

Geomagnetic Model :	BGGM 2009	Geomagnetic Date :	24-Oct-2009
Computed Location B :	61074.62 nT +/- 300.00nT	Used Location B :	61074.62 nT +/- 300.00nT
Computed Location G :	999.45 mgn +/- 2.50mgn	Used Location G :	999.45 mgn +/- 2.50mgn

Computed Magnetic Dip :	-70.38 deg +/- 0.45deg	Used Magnetic Dip :	-70.38 deg +/- 0.45deg
Computed Magnetic Dec :	11.03 deg	Used Magnetic Dec :	11.03 deg
Computed Total Correction :	12.14 deg	Used Total Correction :	12.14 deg

Survey Quality Index
10 : DMAG-Corrected

Seq	MD (m)	Incl (deg)	Azim (deg)	Course (m)	TVD (m)	V Sec (m)	N/ -S (m)	E/ -W (m)	Closure (m)	at Azi (deg)	DLS deg/30m	Tool Type	QI	CI
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP		
2	524.50	0.00	0.00	524.50	524.50	0.00	0.00	0.00	0.00	90.00	0.00	Manual	10	
3	599.08	0.58	120.59	74.58	599.08	-0.19	-0.19	0.32	0.38	120.59	0.23	Manual	10	
4	684.35	0.43	120.90	85.27	684.35	-0.58	-0.58	0.97	1.13	120.68	0.05	Manual	10	
5	713.04	0.53	133.63	28.69	713.03	-0.72	-0.72	1.16	1.37	121.94	0.15	Manual	10	
6	972.34	0.91	95.08	259.30	972.31	-1.73	-1.73	4.08	4.43	113.02	0.07	Manual	10	
7	1001.37	0.91	84.18	29.03	1001.34	-1.73	-1.73	4.54	4.86	110.87	0.18	Manual	10	
8	1059.78	0.95	75.47	58.41	1059.74	-1.56	-1.56	5.47	5.69	105.94	0.08	Manual	10	
9	1090.08	0.78	51.04	30.30	1090.04	-1.37	-1.37	5.87	6.03	103.12	0.40	Manual	10	
10	1117.31	0.70	46.36	27.23	1117.27	-1.14	-1.14	6.14	6.24	100.50	0.11	Manual	10	
11	1203.66	0.94	59.46	86.35	1203.61	-0.41	-0.41	7.13	7.14	93.32	0.11	Manual	10	
12	1251.88	0.96	60.07	48.22	1251.82	-0.01	-0.01	7.82	7.82	90.08	0.01	Manual	10	
13	1395.50	0.46	85.91	143.62	1395.43	0.63	0.63	9.44	9.46	86.18	0.12	Manual	10	
14	1423.48	0.37	96.26	27.98	1423.41	0.63	0.63	9.64	9.66	86.27	0.13	Manual	10	
15	1450.69	0.34	103.29	27.21	1450.62	0.60	0.60	9.80	9.82	86.49	0.06	Manual	10	
16	1739.63	0.23	147.23	288.94	1739.56	-0.08	-0.08	10.95	10.95	90.44	0.02	Manual	10	
17	1885.00	0.40	189.10	145.37	1884.92	-0.83	-0.83	11.03	11.06	94.31	0.06	Manual	10	
18	2029.52	0.77	194.71	144.52	2029.44	-2.27	-2.27	10.70	10.94	101.96	0.08	Manual	10	
19	2086.65	0.83	198.58	57.13	2086.56	-3.03	-3.03	10.47	10.90	106.14	0.04	Manual	10	
20	2201.88	0.95	193.38	115.23	2201.78	-4.75	-4.75	9.99	11.06	115.44	0.04	Manual	10	
21	2288.48	0.98	181.58	86.60	2288.37	-6.19	-6.19	9.80	11.59	122.28	0.07	Manual	10	
22	2316.76	1.03	184.29	28.28	2316.64	-6.69	-6.69	9.77	11.84	124.37	0.07	Manual	10	
23	2345.02	1.10	185.02	28.26	2344.90	-7.21	-7.21	9.73	12.11	126.53	0.08	Manual	10	
24	2374.64	1.28	185.91	29.62	2374.51	-7.82	-7.82	9.67	12.44	128.96	0.18	Manual	10	
25	2403.54	1.36	187.90	28.90	2403.40	-8.48	-8.48	9.59	12.80	131.48	0.10	Manual	10	
26	2518.96	1.54	189.36	115.42	2518.78	-11.37	-11.37	9.15	14.60	141.17	0.05	Manual	10	
27	2546.16	1.43	188.77	27.20	2545.98	-12.07	-12.07	9.04	15.08	143.15	0.12	Manual	10	
28	2604.71	1.38	184.64	58.55	2604.51	-13.49	-13.49	8.87	16.15	146.67	0.06	Manual	10	
29	2661.70	1.39	181.51	56.99	2661.48	-14.87	-14.87	8.80	17.27	149.38	0.04	Manual	10	
30	2691.87	1.33	180.69	30.17	2691.64	-15.58	-15.58	8.78	17.89	150.58	0.06	Manual	10	
31	2719.22	1.31	179.24	27.35	2718.99	-16.21	-16.21	8.79	18.44	151.55	0.04	Manual	10	
32	2748.22	1.24	175.26	29.00	2747.98	-16.86	-16.86	8.82	19.02	152.39	0.12	Manual	10	
33	2776.91	1.12	171.85	28.69	2776.66	-17.44	-17.44	8.88	19.57	153.02	0.15	Manual	10	
34	2806.83	1.09	179.52	29.92	2806.58	-18.02	-18.02	8.92	20.11	153.65	0.15	Manual	10	
35	2834.17	1.10	172.01	27.34	2833.91	-18.54	-18.54	8.96	20.59	154.19	0.16	Manual	10	
36	2863.33	1.17	161.51	29.16	2863.07	-19.10	-19.10	9.10	21.15	154.53	0.23	Manual	10	

Run 2

VISION* Resistivity 1:1000m MDRT

Software Version

Acquisition System	Version
MaxWell	1.2.8706.0
Framework Patch	FWK-BGC-20090918-1.2.8706.1030
Application Patch	APL-BGC-DnM-1.2.8706.1021

Computation	Description	Version	
ARC8GammaRayComputation	ARC8 Gamma Ray Computation Package for both Real-time and Recorded Mode	1.2.8706.1021	
ARCResistivity	ARC Resistivity Computation Package for ARC Tool Family	1.2.8706.1021	
Tool Elements	Description	Software Version	Firmware Version
ARDC	ARC 8.25 Inch Tool Drilling Collar	1.2.8706.1021	V9.4B
DRILLING_SURFACE	DRILLING_SURFACE	1.2.8706.1030	

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Acquisition Start Date	Acquisition Start Time
Run 2	Drilling	Down	1274.72 m	2912.69 m	24-Oct-2009	19:34:49
All depths are referenced to toolstring zero						

Log

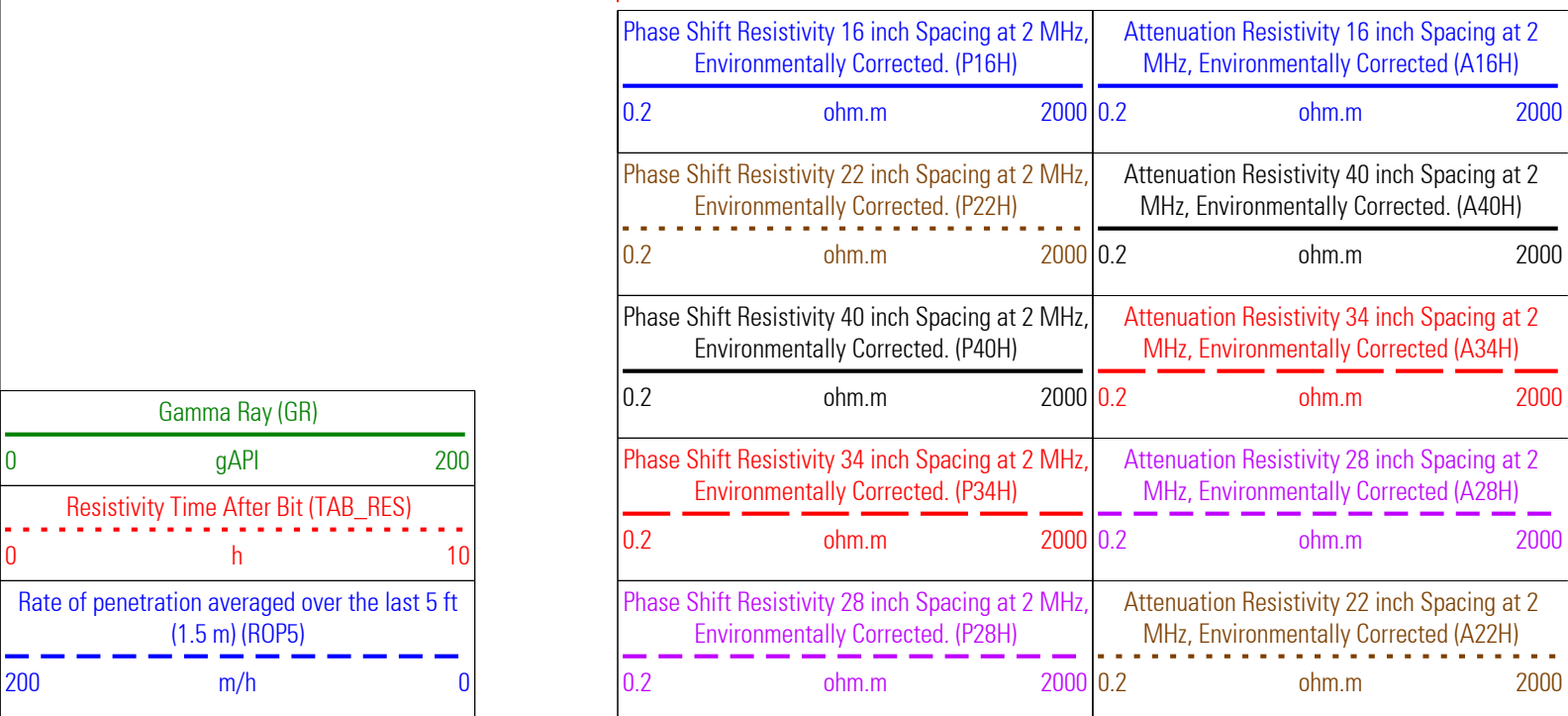
Run 2: Drilling 6A747D0C-F229-4868-B22C-5CDB6B7C6A99

Description: ARC Blended Resistivity 2-Log Format: Log (VISION Resistivity RM - Woodside) Index Scale: 1:1000 Index Unit: m Index Type: Measured Depth
 Creation Date: 19-Feb-2010 10:53:29

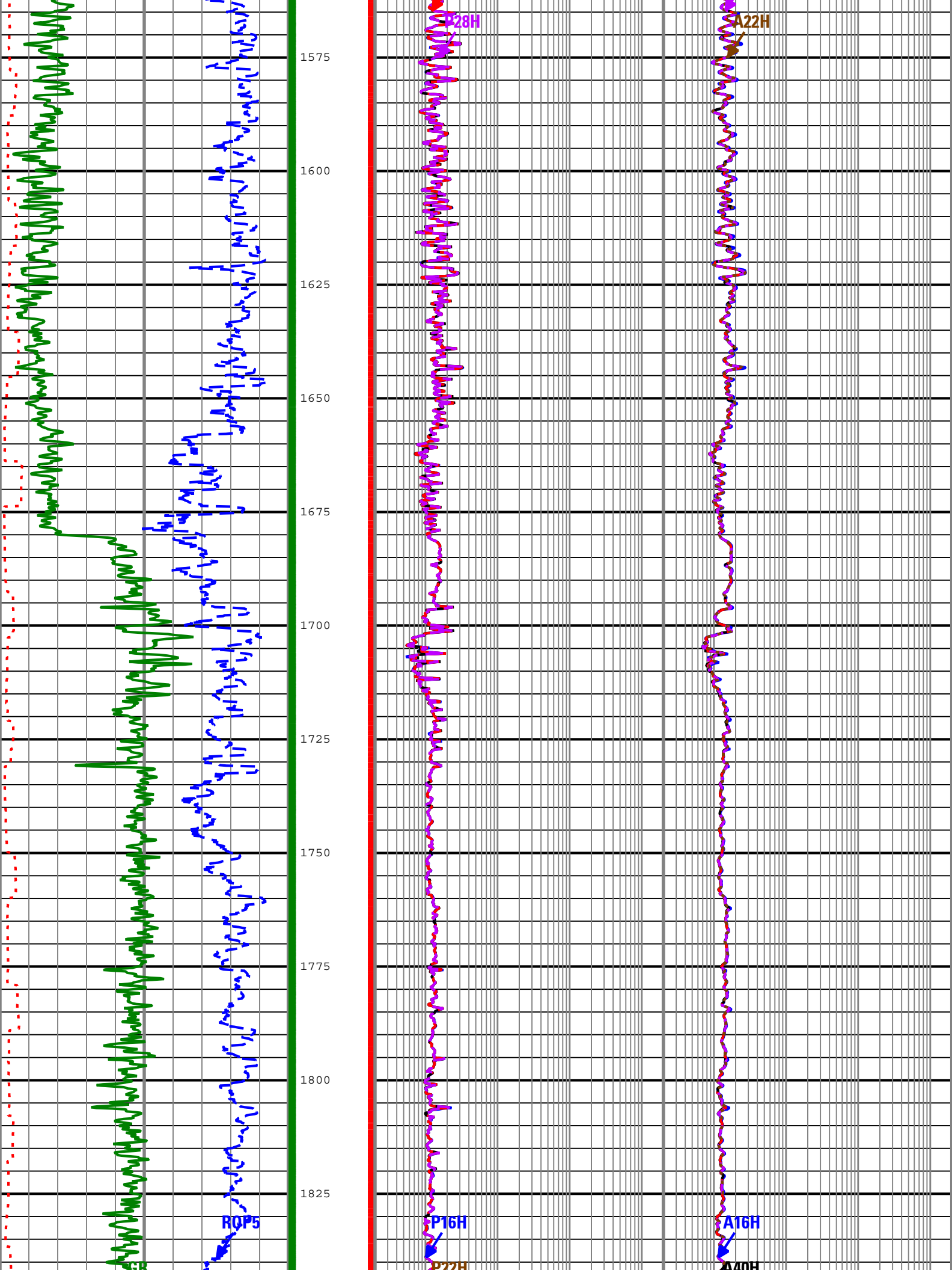
A16H	ARC8:ARC8:ARDC	6in - RM
A22H	ARC8:ARC8:ARDC	6in - RM
A28H	ARC8:ARC8:ARDC	6in - RM
A34H	ARC8:ARC8:ARDC	6in - RM
A40H	ARC8:ARC8:ARDC	6in - RM
GR	ARC8:ARC8:ARDC	6in - RM
P16H	ARC8:ARC8:ARDC	6in - RM
P22H	ARC8:ARC8:ARDC	6in - RM
P28H	ARC8:ARC8:ARDC	6in - RM
P34H	ARC8:ARC8:ARDC	6in - RM
P40H	ARC8:ARC8:ARDC	6in - RM
ROP5	DRILLING_SURFACE	6in - RT
TAB_RES	ARC8:ARC8:ARDC	6in
TICKS_GR	ARC8:ARC8	1in - RM
TICKS_RES	ARC8:ARC8	1in - RM

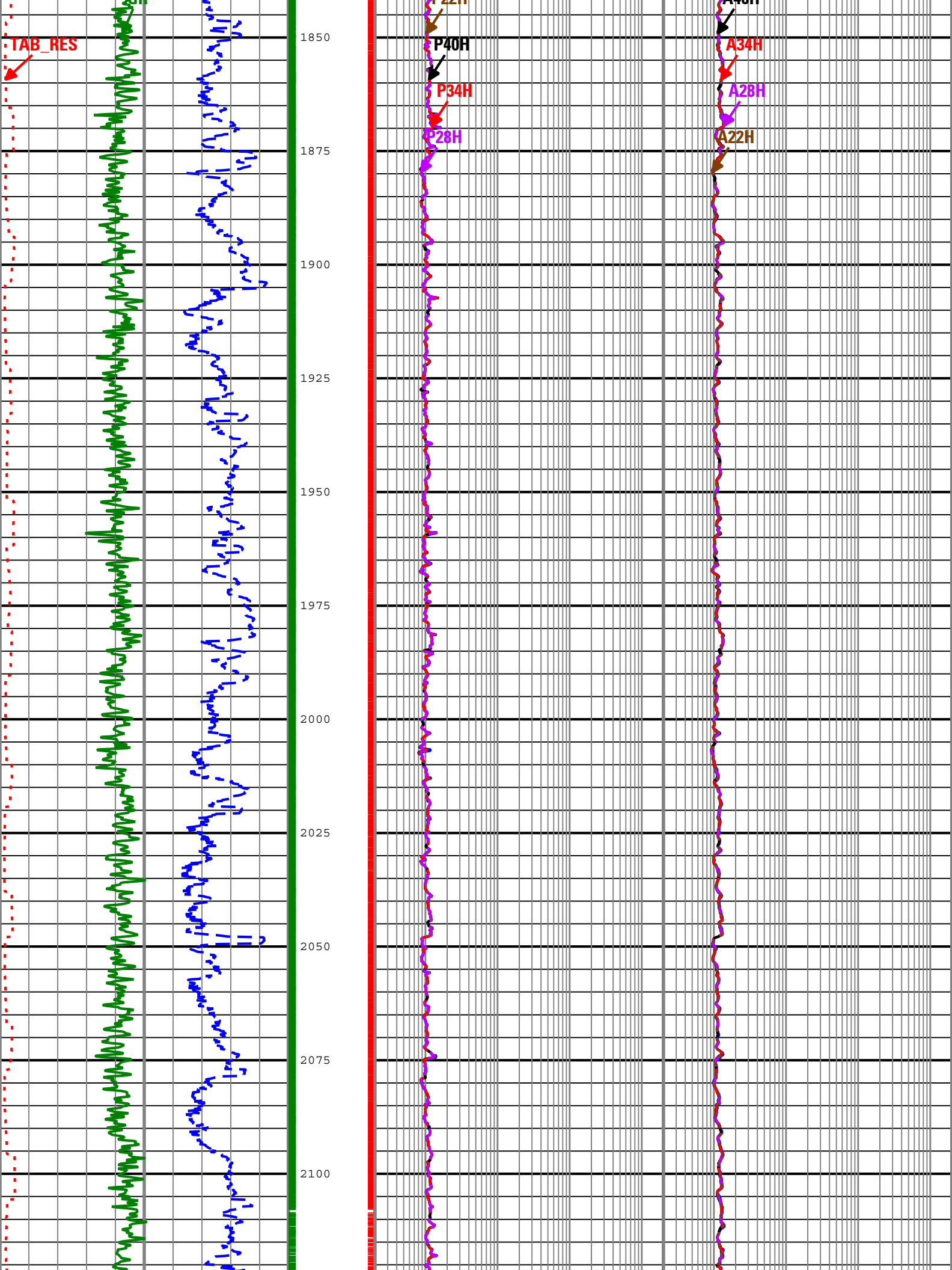
┆ TICKS_GR - Gamma Ray Tick Marks

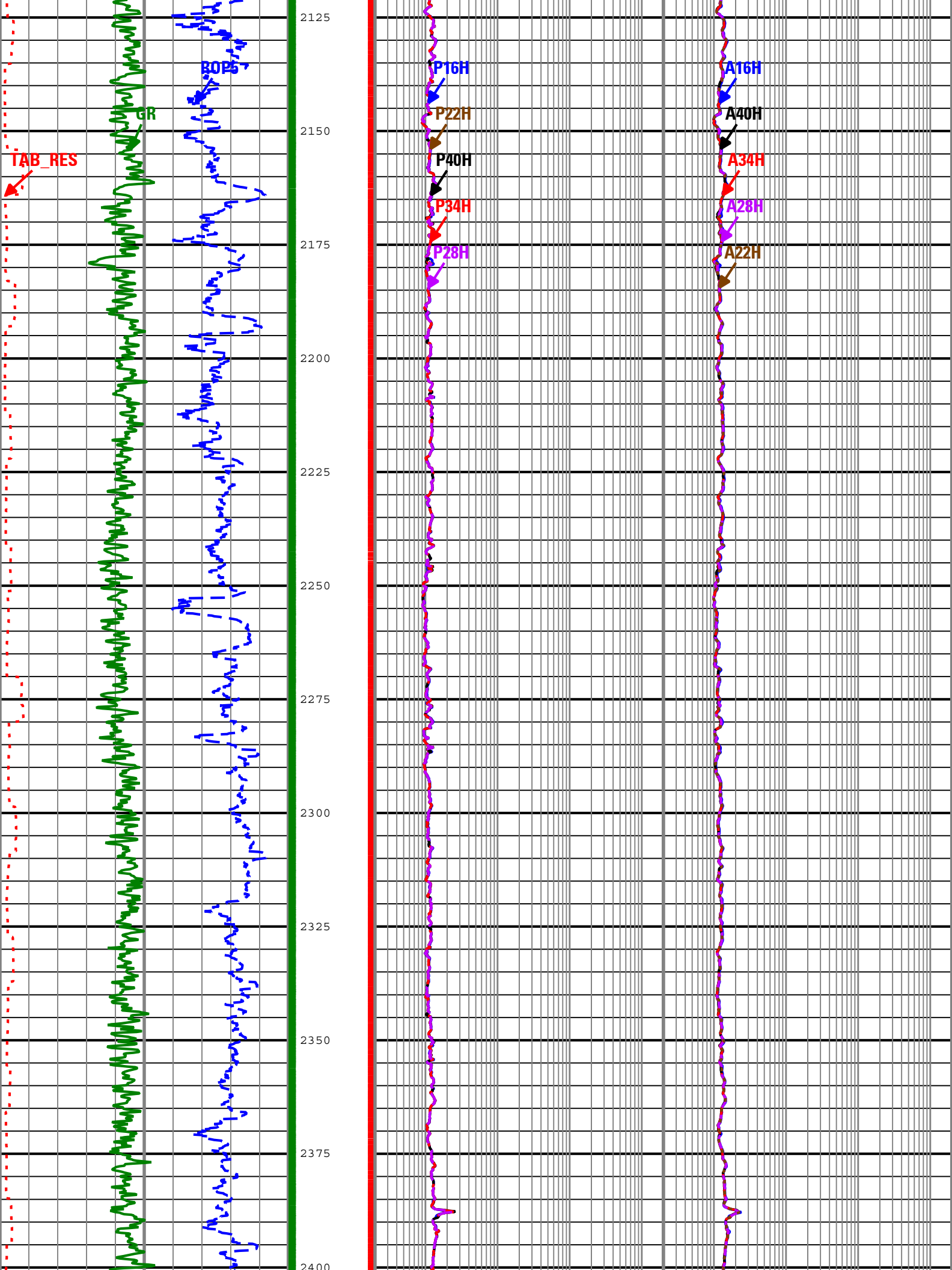
┆ TICKS_RES - Resistivity Tick Marks

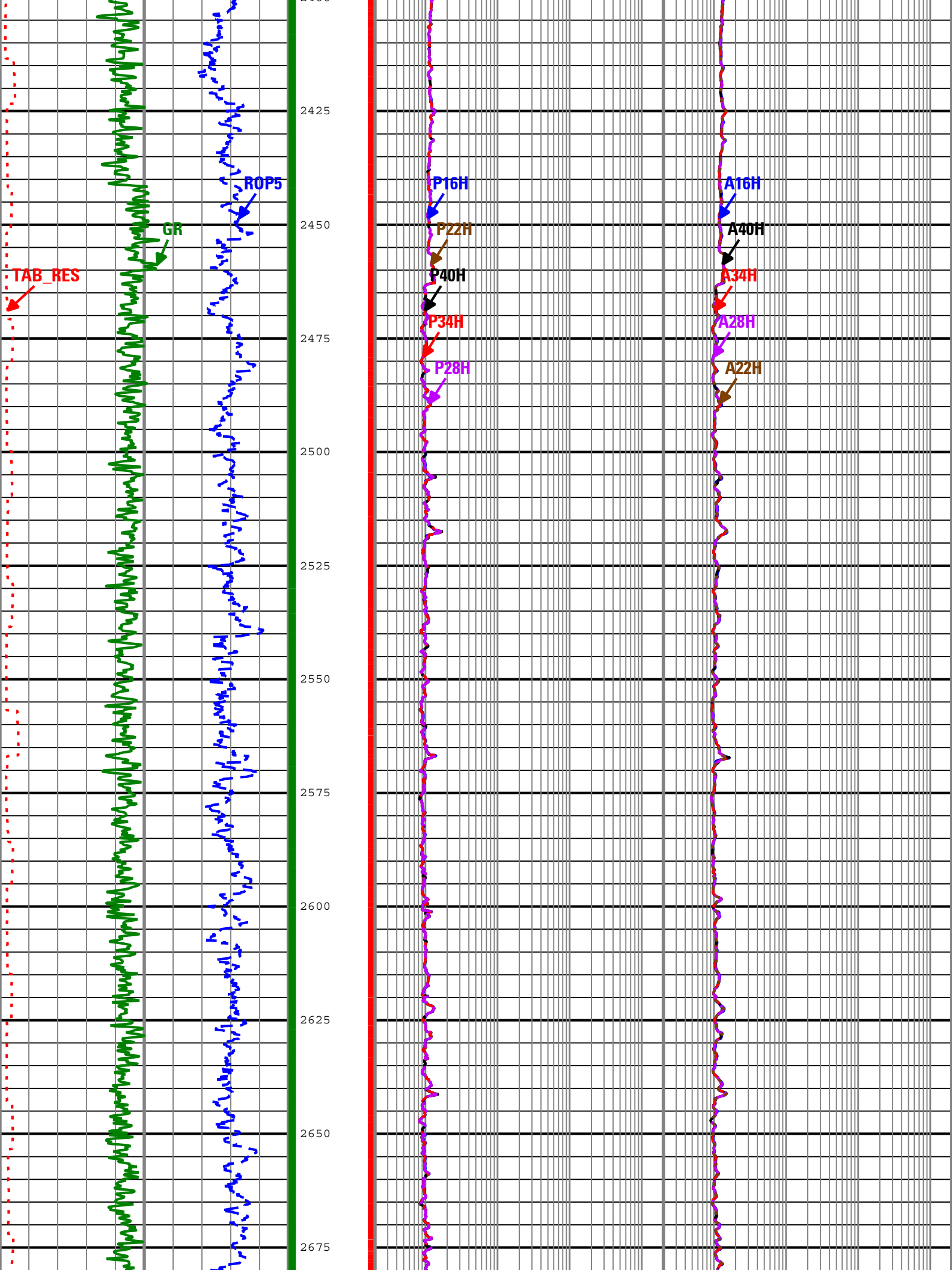


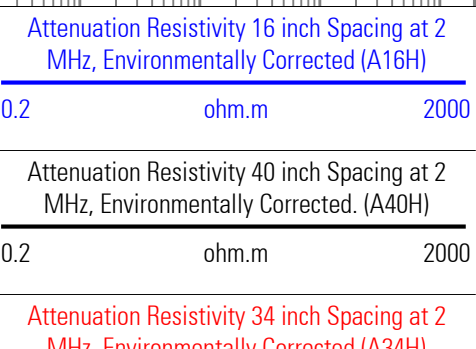
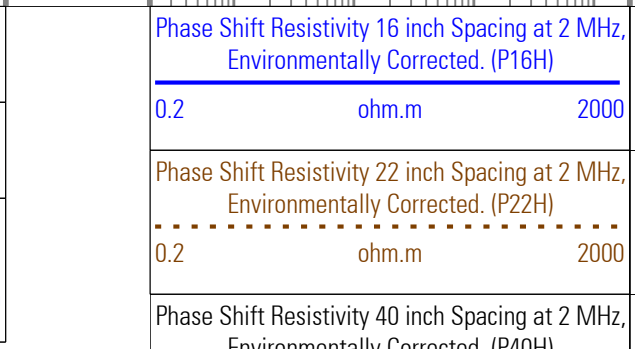
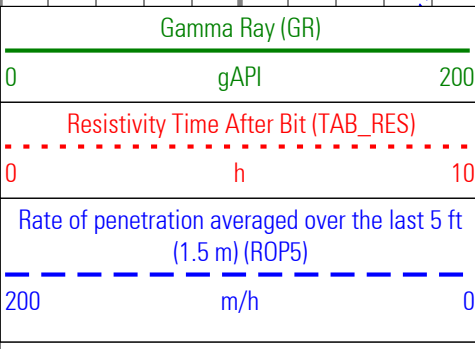
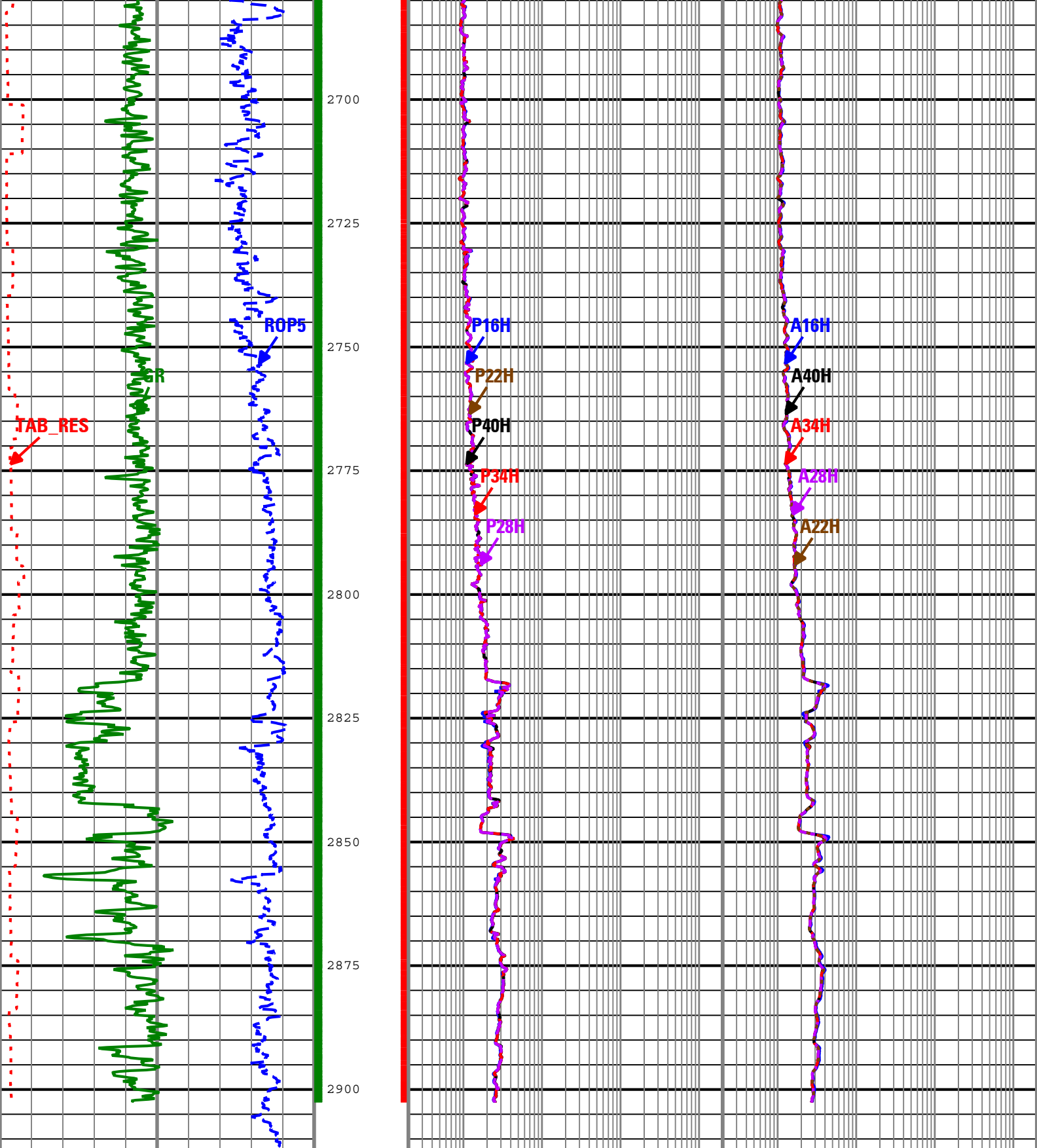












0.2	ohm.m	2000	0.2	ohm.m	2000
Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H)			Attenuation Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected (A28H)		
0.2	ohm.m	2000	0.2	ohm.m	2000
Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H)			Attenuation Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected (A22H)		
0.2	ohm.m	2000	0.2	ohm.m	2000

┆TICKS_RES - Resistivity Tick Marks

┆TICKS_GR - Gamma Ray Tick Marks

Description: ARC Blended Resistivity 2-Log Format: Log (VISION Resistivity RM - Woodside) Index Scale: 1:1000 Index Unit: m Index Type: Measured Depth
 Creation Date: 19-Feb-2010 10:53:29

Channel Processing Parameters

Parameter	Description	ToolPath	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	Time Zoned	%
BHT	Bottom Hole Temperature	Borehole	62	degC
BS	Bit Size	COMPLETION	Depth Zoned	in
DFD	Drilling Fluid Density	Borehole	Time Zoned	g/cm3
DFT	Drilling Fluid Type	Borehole	Water	
GGRD	Geothermal Gradient	Borehole	1.1	degF/100ft
GRSE	Generalized Mud Resistivity Selection	Borehole	Computed (GEN-9)	
GTSE	Generalized Temperature Selection	Borehole	Gradient From Surface	
MST	Mud Sample Temperature	Borehole	Time Zoned	degC
RMS	Resistivity of Mud Sample	Borehole	Time Zoned	ohm.m
SHT	Surface Hole Temperature	Borehole	10	degC
TD	Total Measured Depth	Borehole	2912	m
TEMP_SEL_ARC	ARC Temperature Selection	ARC8:ARC8:ARDC	Annular	

Depth Zone Parameters

Parameter	Value	Start (m)	Stop (m)
BS	17.5	1275	1284
BS	12.25	1284	2912.52

All depth are actual.

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
BHK	5.77	24-Oct-2009 19:34:49	25-Oct-2009 08:14:10	1274.72	1278.41
BHK	5.77	25-Oct-2009 08:14:10	27-Oct-2009 05:09:59	1278.41	2451.68
BHK	4.52	27-Oct-2009 05:09:59	02-Nov-2009 09:45:08	2451.68	2912.69
DFD	1.29	24-Oct-2009 19:34:49	26-Oct-2009 02:52:31	1274.72	1626.54
DFD	1.26	26-Oct-2009 02:52:31	27-Oct-2009 05:10:29	1626.54	2451.68
DFD	1.3	27-Oct-2009 05:10:29	02-Nov-2009 09:45:08	2451.68	2912.69
MST	19.4	24-Oct-2009 19:34:49	26-Oct-2009 04:24:53	1274.72	1673.78
MST	18.8	26-Oct-2009 04:24:53	27-Oct-2009 01:55:15	1673.78	2342.67
MST	20	27-Oct-2009 01:55:15	02-Nov-2009 09:45:08	2342.67	2912.69
RMS	0.08	24-Oct-2009 19:34:49	26-Oct-2009 04:24:53	1274.72	1673.78
RMS	0.09	26-Oct-2009 04:24:53	27-Oct-2009 01:55:15	1673.78	2342.67
RMS	0.1	27-Oct-2009 01:55:15	02-Nov-2009 09:45:08	2342.67	2912.69

All depth are at tool zero.

Tool Control Parameters

Parameter	Description	ToolPath	Value	Unit
OFFBTM_TH	Threshold for deciding whether the bit is off bottom	DnMWorkflow	Time Zoned	m

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
OFFBTM_TH	0.6	24-Oct-2009 19:34:49	25-Oct-2009 23:15:02	1274.72	1529.56
OFFBTM_TH	0.5	25-Oct-2009 23:15:02	26-Oct-2009 00:11:46	1529.56	1558.04
OFFBTM_TH	0.4	26-Oct-2009 00:11:46	26-Oct-2009 18:26:10	1558.04	2126.79
OFFBTM_TH	0.5	26-Oct-2009 18:26:10	26-Oct-2009 18:26:39	2126.79	2127.1
OFFBTM_TH	0.6	26-Oct-2009 18:26:39	26-Oct-2009 18:36:19	2127.1	2132.63
OFFBTM_TH	0.4	26-Oct-2009 18:36:19	02-Nov-2009 09:45:08	2132.63	2912.69


All depth are at tool zero.

Concise Calibration Record

Run 2: ARC8 : Calibration Resistivity

Primary Set Components	Description	Tool Element	Serial Number
	DC without AIM	ARDC	2724
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	05-Oct-2009 02:19:44 PM - Valid		
Calibration Source	Time Frame File		


Calibration Type: Resistivity: Air

Description	Min/Nominal/Max	Shop	Unit
 All Resistivity: Air Measurements within Tolerance			

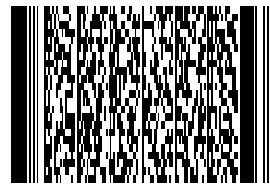
Run 2: ARC8 : Calibration Gamma Ray

Primary Set Components	Description	Tool Element	Serial Number
	DC without AIM	ARDC	2724
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	05-Oct-2009 09:57:16 AM - Valid		
Calibration Source	Time Frame File		

Calibration Type: Gamma Ray: Blanket

Description	Min/Nominal/Max	Shop	Unit
 All Gamma Ray: Blanket Measurements within Tolerance			

Company:	Woodside Energy Ltd
Well:	Somerset-1
Field:	T34P
Rig Name:	Ocean Patriot
State:	Tasmania
Country:	Australia



Schlumberger

VISION* Service
12.25" Section
1:1000m MDRT

Company: Woodside Energy Ltd

Well: Somerset-1

Field: T34P

Rig Name: Ocean Patriot

State: Tasmania

Country: Australia

Latitude: 39° 20' 36.76" S **Northing:** N 5,643,640.360m

Longitude: 142° 44' 56.14" E **Easting:** E 650,712.400m

Block: n.a

FL: Otway Basin

FL1:

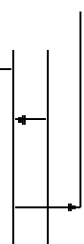
FL2:

UWID: n.a

Rig Name: Ocean Patriot

Rig Type: Semi-Submersible

Log Measured From - Drill Floor: 21.5 m
 Reference Datum - Mean Sea Level
 Permanent Datum - Least Astronomic Tide: 0.6 m



Ground Level: 503.0 m

Acquisition Dates: 24 Oct 09 to 02 Nov 09

Print Interval: 1275.0(m) to 2912.5(m)

Index Types: Measured Depth

Index Scales: 1:1000

Depth Source: Driller's Depth

Depth Sensor: DES

Conveyance: Drill Pipe

Print Type: Final

Spud Date: 19-Oct-2009

Other Services:

PERFORM Drilling

Directional Surveys

Shock & Vibrations

Annular Pressure & Temperature

Disclaimer

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Well Sketch

Driller(m)		Feature	OD(in)
524.50		BS	36
524.50		CSG	30
529.00		CSG	13.375
570.60		BS	17.5
572.50			
1279.00		BS	12.25
1284.00			

2912.00

Borehole Size/Casing Record

Bit					
Bit Size (in)	36	17.5	12.25		
Bottom Driller (m)	572.5	1284	2912		
Casing					
Size (in)	30	13.375			
Weight (kg/m)	169.64	71.92			
Inner Diameter (in)	29.296	12.696			
Grade	H40	N80			
Top Driller (m)	524.5	529			
Bottom Driller (m)	570.6	1279			

Operational Run Summary

Parameter (unit)	Run 2				
Date Log Started	24-Oct-2009				
Time Log Started	13:36:13				
Date Log Finished	02-Nov-2009				
Time Log Finished	09:45:09				
Bit Size (in)	12.250				
Bit Start Depth (m)	1274.72				
Bit Stop Depth (m)	2912.69				
Top Log Interval (m)	1279.00				
Bottom Log Interval (m)	2903.38				
Max Hole Deviation (deg)	1.54				
Azimuth of Max Deviation (deg)	198.58				
Logging Unit Number	OLU-KC-0702				
Logging Unit Location					
Recorded By	Marganda/Mewan/Russell				
Witnessed By	David/Todd				
Service Order Number	09ASQ0030				

Borehole Fluids

Parameter (unit)	Run 2				
Type Fluid	Water				
Max Recorded Temperature (degC)	109				
Source of Sample	Active Tank				
Salinity (ppm)	Zoned				
Density (g/cm ³)	Zoned				

Density (g/cm3)	Zoned					
Viscosity (s)						
Fluid Loss (cm3)						
pH	Zoned					
Source Rmf						
Source Rmc	Pressed					
Rm @ Meas Temp (ohm.m@degC)	Zoned					
Rmf @ Meas Temp (ohm.m@degC)	Zoned					
Rmc @ Meas Temp (ohm.m@degC)	Zoned					
Rm @ BHT (ohm.m@degC)	Zoned					
Rmf @ BHT (ohm.m@degC)	Zoned					
Rmc @ BHT (ohm.m@degC)	Zoned					

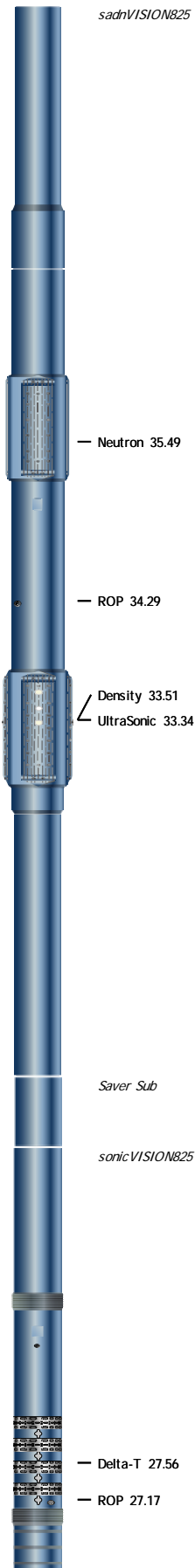
Zoned Borehole Fluids

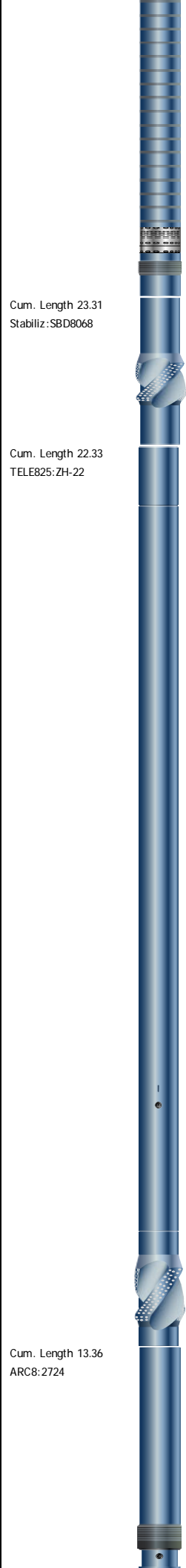
Run 2

Parameter	Value	Start
Salinity	70000	10/24/2009 1:36:13 PM
Salinity	65000	10/25/2009 8:14:10 AM
Salinity	52000	10/26/2009 4:24:53 AM
Salinity	56000	10/27/2009 5:09:59 AM
Density	1.29	10/24/2009 1:36:13 PM
Density	1.26	10/26/2009 2:52:31 AM
Density	1.3	10/27/2009 5:10:29 AM
pH	8.5	10/24/2009 1:36:13 PM
pH	10.2	10/25/2009 8:14:10 AM
pH	10	10/26/2009 2:52:07 AM
pH	9	10/26/2009 4:24:53 AM
Meas Temp	19.4	10/24/2009 1:36:13 PM
Meas Temp	18.8	10/26/2009 4:24:53 AM
Meas Temp	20	10/27/2009 1:55:15 AM
Meas Temp	19.4	10/24/2009 1:36:13 PM
Meas Temp	18.9	10/26/2009 4:24:53 AM
Meas Temp	19.7	10/27/2009 1:55:15 AM
Rm @ Meas Temp	0.08 @ 19.4	10/24/2009 1:36:13 PM
Rm @ Meas Temp	0.09 @ 18.8	10/26/2009 4:24:53 AM
Rm @ Meas Temp	0.10 @ 20	10/27/2009 1:55:15 AM
Rmf @ Meas Temp	0.06 @ 19.4	10/24/2009 1:36:13 PM
Rmf @ Meas Temp	0.08 @ 18.9	10/26/2009 4:24:53 AM
Rmf @ Meas Temp	0.08 @ 19.7	10/27/2009 1:55:15 AM
Rmc @ Meas Temp	0.09 @ 20	10/24/2009 1:36:13 PM
Rmc @ Meas Temp	0.14 @ 20	10/26/2009 4:24:53 AM
Rmc @ Meas Temp	0.18 @ 20	10/27/2009 1:55:15 AM
Rm @ BHT	0.04 @ 62	10/24/2009 1:36:13 PM
Rm @ BHT	0.06 @ 62	10/26/2009 4:24:53 AM
Rm @ BHT	0.10 @ 62	10/27/2009 1:52:45 AM
Rm @ BHT	0.07 @ 62	10/27/2009 1:55:15 AM
Rmf @ BHT	0.03 @ 62	10/24/2009 1:36:13 PM
Rmf @ BHT	0.05 @ 62	10/26/2009 4:24:53 AM
Rmf @ BHT	0.08 @ 62	10/27/2009 1:53:02 AM
Rmf @ BHT	0.06 @ 62	10/27/2009 1:55:15 AM

Rmc @ BHT	0.00 @ 62	10/27/2009 1:55:15 AM
Rmc @ BHT	0.04 @ 62	10/24/2009 1:36:13 PM
Rmc @ BHT	0.13 @ 62	10/26/2009 4:24:53 AM
Rmc @ BHT	0.18 @ 62	10/27/2009 1:46:10 AM
Rmc @ BHT	0.12 @ 62	10/27/2009 1:55:15 AM

Remarks and Equipment Summary

Run 2: Toolstring	Run 2: Remarks	
<p>Cum. Length 39.36 SADN8:42709</p>  <p style="text-align: right;">— Neutron 35.49</p> <p style="text-align: right;">— ROP 34.29</p> <p style="text-align: right;">Density 33.51 UltraSonic 33.34</p> <p style="text-align: right;">Cum. Length 30.51 Svr Sub::OSS0809</p> <p style="text-align: right;">Saver Sub</p> <p style="text-align: right;">Cum. Length 30.19 SONICVISIO:E1620</p> <p style="text-align: right;">— sonicVISION825</p> <p style="text-align: right;">— Delta-T 27.56</p> <p style="text-align: right;">— ROP 27.17</p>		



ILS

TeleScope825

— D&I 18.05

— Vibration 17.05

— ROP 15.70

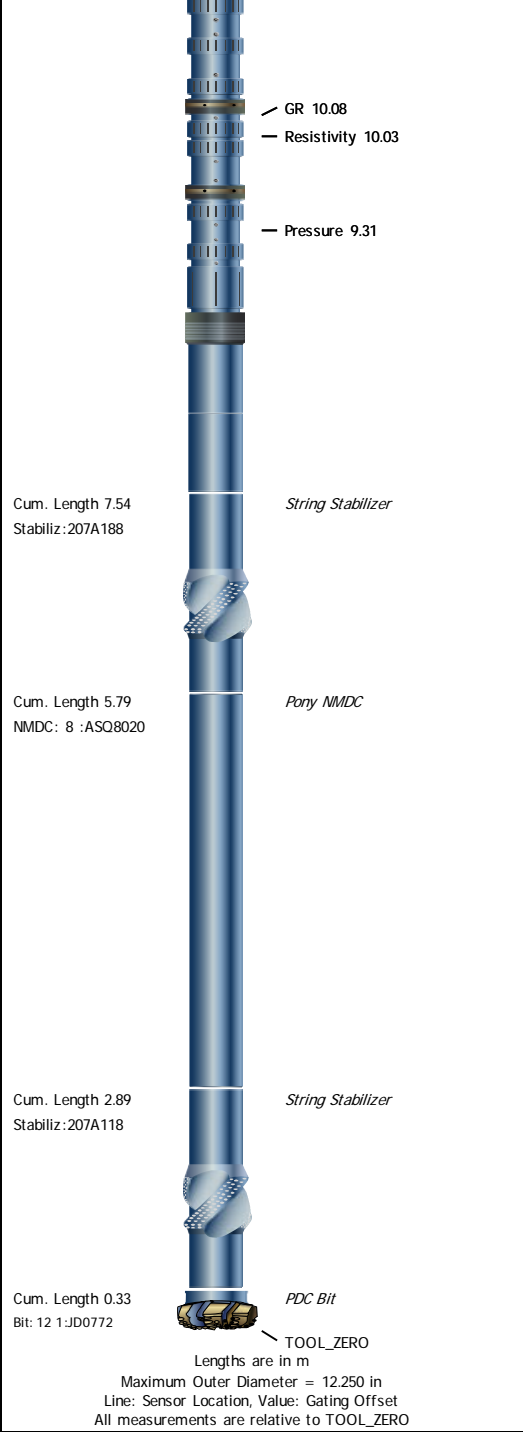
arcVISION825

— ROP 11.15

Cum. Length 23.31
Stabiliz:SBD8068

Cum. Length 22.33
TELE825:ZH-22

Cum. Length 13.36
ARC8:2724



Survey Record

Survey Calculation

Method :	Minimum Radius of Curvature	DLS Method :	Lubinski
North Reference :	Grid North	Total Correction Formula :	Magnetic Dec - Grid Convergence
Grid Convergence :	-1.11 deg		

Rig Location

Latitude :	39° 20' 36.76" S	Longitude :	142° 44' 56.14" E
------------	------------------	-------------	-------------------

Tie In Point

Measured Depth:	0.00 m	Inclination:	0.00 deg	Azimuth:	0.00 deg
True Vertical Depth:	0.00 m	North Displacement:	0.00 m	East Displacement:	0.00 m
N-S VSec Origin:	0.00 m	E-W VSec Origin:	0.00 m	Vertical Section Azimuth:	0.00 deg

D&I Inits Computed and Values Used - Run 2

Geomagnetic Model :	BGGM 2009	Geomagnetic Date :	24-Oct-2009
Computed Location B :	61074.62 nT +/- 300.00nT	Used Location B :	61074.62 nT +/- 300.00nT
Computed Location G :	999.45 mgn +/- 2.50mgn	Used Location G :	999.45 mgn +/- 2.50mgn

Computed Magnetic Dip :	-70.38 deg +/- 0.45deg	Used Magnetic Dip :	-70.38 deg +/- 0.45deg
Computed Magnetic Dec :	11.03 deg	Used Magnetic Dec :	11.03 deg
Computed Total Correction :	12.14 deg	Used Total Correction :	12.14 deg

Survey Quality Index

10 : DMAG-Corrected

Seq	MD (m)	Incl (deg)	Azim (deg)	Course (m)	TVD (m)	V Sec (m)	N/ -S (m)	E/ -W (m)	Closure (m)	at Azi (deg)	DLS deg/30m	Tool Type	QI	CI
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	90.00	0.00	TIP		
2	524.50	0.00	0.00	524.50	524.50	0.00	0.00	0.00	0.00	90.00	0.00	Manual	10	
3	599.08	0.58	120.59	74.58	599.08	-0.19	-0.19	0.32	0.38	120.59	0.23	Manual	10	
4	684.35	0.43	120.90	85.27	684.35	-0.58	-0.58	0.97	1.13	120.68	0.05	Manual	10	
5	713.04	0.53	133.63	28.69	713.03	-0.72	-0.72	1.16	1.37	121.94	0.15	Manual	10	
6	972.34	0.91	95.08	259.30	972.31	-1.73	-1.73	4.08	4.43	113.02	0.07	Manual	10	
7	1001.37	0.91	84.18	29.03	1001.34	-1.73	-1.73	4.54	4.86	110.87	0.18	Manual	10	
8	1059.78	0.95	75.47	58.41	1059.74	-1.56	-1.56	5.47	5.69	105.94	0.08	Manual	10	
9	1090.08	0.78	51.04	30.30	1090.04	-1.37	-1.37	5.87	6.03	103.12	0.40	Manual	10	
10	1117.31	0.70	46.36	27.23	1117.27	-1.14	-1.14	6.14	6.24	100.50	0.11	Manual	10	
11	1203.66	0.94	59.46	86.35	1203.61	-0.41	-0.41	7.13	7.14	93.32	0.11	Manual	10	
12	1251.88	0.96	60.07	48.22	1251.82	-0.01	-0.01	7.82	7.82	90.08	0.01	Manual	10	
13	1395.50	0.46	85.91	143.62	1395.43	0.63	0.63	9.44	9.46	86.18	0.12	Manual	10	
14	1423.48	0.37	96.26	27.98	1423.41	0.63	0.63	9.64	9.66	86.27	0.13	Manual	10	
15	1450.69	0.34	103.29	27.21	1450.62	0.60	0.60	9.80	9.82	86.49	0.06	Manual	10	
16	1739.63	0.23	147.23	288.94	1739.56	-0.08	-0.08	10.95	10.95	90.44	0.02	Manual	10	
17	1885.00	0.40	189.10	145.37	1884.92	-0.83	-0.83	11.03	11.06	94.31	0.06	Manual	10	
18	2029.52	0.77	194.71	144.52	2029.44	-2.27	-2.27	10.70	10.94	101.96	0.08	Manual	10	
19	2086.65	0.83	198.58	57.13	2086.56	-3.03	-3.03	10.47	10.90	106.14	0.04	Manual	10	
20	2201.88	0.95	193.38	115.23	2201.78	-4.75	-4.75	9.99	11.06	115.44	0.04	Manual	10	
21	2288.48	0.98	181.58	86.60	2288.37	-6.19	-6.19	9.80	11.59	122.28	0.07	Manual	10	
22	2316.76	1.03	184.29	28.28	2316.64	-6.69	-6.69	9.77	11.84	124.37	0.07	Manual	10	
23	2345.02	1.10	185.02	28.26	2344.90	-7.21	-7.21	9.73	12.11	126.53	0.08	Manual	10	
24	2374.64	1.28	185.91	29.62	2374.51	-7.82	-7.82	9.67	12.44	128.96	0.18	Manual	10	
25	2403.54	1.36	187.90	28.90	2403.40	-8.48	-8.48	9.59	12.80	131.48	0.10	Manual	10	
26	2518.96	1.54	189.36	115.42	2518.78	-11.37	-11.37	9.15	14.60	141.17	0.05	Manual	10	
27	2546.16	1.43	188.77	27.20	2545.98	-12.07	-12.07	9.04	15.08	143.15	0.12	Manual	10	
28	2604.71	1.38	184.64	58.55	2604.51	-13.49	-13.49	8.87	16.15	146.67	0.06	Manual	10	
29	2661.70	1.39	181.51	56.99	2661.48	-14.87	-14.87	8.80	17.27	149.38	0.04	Manual	10	
30	2691.87	1.33	180.69	30.17	2691.64	-15.58	-15.58	8.78	17.89	150.58	0.06	Manual	10	
31	2719.22	1.31	179.24	27.35	2718.99	-16.21	-16.21	8.79	18.44	151.55	0.04	Manual	10	
32	2748.22	1.24	175.26	29.00	2747.98	-16.86	-16.86	8.82	19.02	152.39	0.12	Manual	10	
33	2776.91	1.12	171.85	28.69	2776.66	-17.44	-17.44	8.88	19.57	153.02	0.15	Manual	10	
34	2806.83	1.09	179.52	29.92	2806.58	-18.02	-18.02	8.92	20.11	153.65	0.15	Manual	10	
35	2834.17	1.10	172.01	27.34	2833.91	-18.54	-18.54	8.96	20.59	154.19	0.16	Manual	10	
36	2863.33	1.17	161.51	29.16	2863.07	-19.10	-19.10	9.10	21.15	154.53	0.23	Manual	10	

Run 2

VISION* Service 1:1000m MDRT

Software Version

Acquisition System	Version
MaxWell	1.2.8706.0
Framework Patch	FWK-BGC-20090918-1.2.8706.1030
Application Patch	APL-BGC-DnM-1.2.8706.1021

Computation	Description	Version	
ULTRASON_PROC	Ultrasonic Processing, ADN	1.2.8706.0	
NEUTRON_PROC	Neutron Processing, ADN	1.2.8706.0	
ARC8GammaRayComputation	ARC8 Gamma Ray Computation Package for both Real-time and Recorded Mode	1.2.8706.1021	
DENSITY_PROC	Density Processing, ADN	1.2.8706.0	
ARC8PressureComputatio	ARC8 Pressure Computation Package for both Real-time and Recorded Mode	1.2.8706.1021	
ARCResistivity	ARC Resistivity Computation Package for ARC Tool Family	1.2.8706.1021	
Tool Elements	Description	Software Version	Firmware Version
ARDC	ARC 8.25 Inch Tool Drilling Collar	1.2.8706.1021	V9.4B
DRILLING_SURFACE	DRILLING_SURFACE	1.2.8706.1030	
ADNP	Azimuth Neutron Detector Package	1.2.8706.0	V8.3A
NDUS	Azimuth Uson Detector Package	1.2.8706.0	V8.3A
ADDP	Azimuth Density Detector Package	1.2.8706.0	V8.3A

Pass Summary

Run Name	Pass Objective	Direction	Top	Bottom	Acquisition Start Date	Acquisition Start Time
Run 2	Drilling	Down	1274.72 m	2912.69 m	24-Oct-2009	19:34:49

All depths are referenced to toolstring zero

Log

Run 2: Drilling 6A747D0C-F229-4868-B22C-5CDB6B7C6A99

Description: ARC + VDN + sonicVISION Format: Log (VISION Service RM - Woodside) Index Scale: 1:1000 Index Unit: m Index Type: Measured Depth
Creation Date: 19-Feb-2010 11:36:08

DHAP	ARC8:ARC8	6in - RM
DHAT	ARC8:ARC8	6in - RM
DRHO	SADN8:SADN8:ADDP	6in - RM
ECD	ARC8:ARC8:ARDC	6in - RM
GR	ARC8:ARC8:ARDC	6in - RM
HORD	SADN8:SADN8:NDUS	6in - RM
P16H	ARC8:ARC8:ARDC	6in - RM
P22H	ARC8:ARC8:ARDC	6in - RM
P28H	ARC8:ARC8:ARDC	6in - RM
P34H	ARC8:ARC8:ARDC	6in - RM
P40H	ARC8:ARC8:ARDC	6in - RM
PEF	SADN8:SADN8:ADDP	6in - RM
RHOB	SADN8:SADN8:ADDP	6in - RM
ROP5	DRILLING_SURFACE	6in - RT
RPM	SADN8:SADN8	6in - RM
TAB_DEN	SADN8:SADN8:ADDP	6in
TICKS_DEN	SADN8:SADN8	1in - RM
TICKS_GR	ARC8:ARC8	1in - RM
TICKS_NEU	SADN8:SADN8	1in - RM
TICKS_RES	ARC8:ARC8	1in - RM
TNPH	SADN8:SADN8:ADNP	6in - RM
VERD	SADN8:SADN8:NDUS	6in - RM

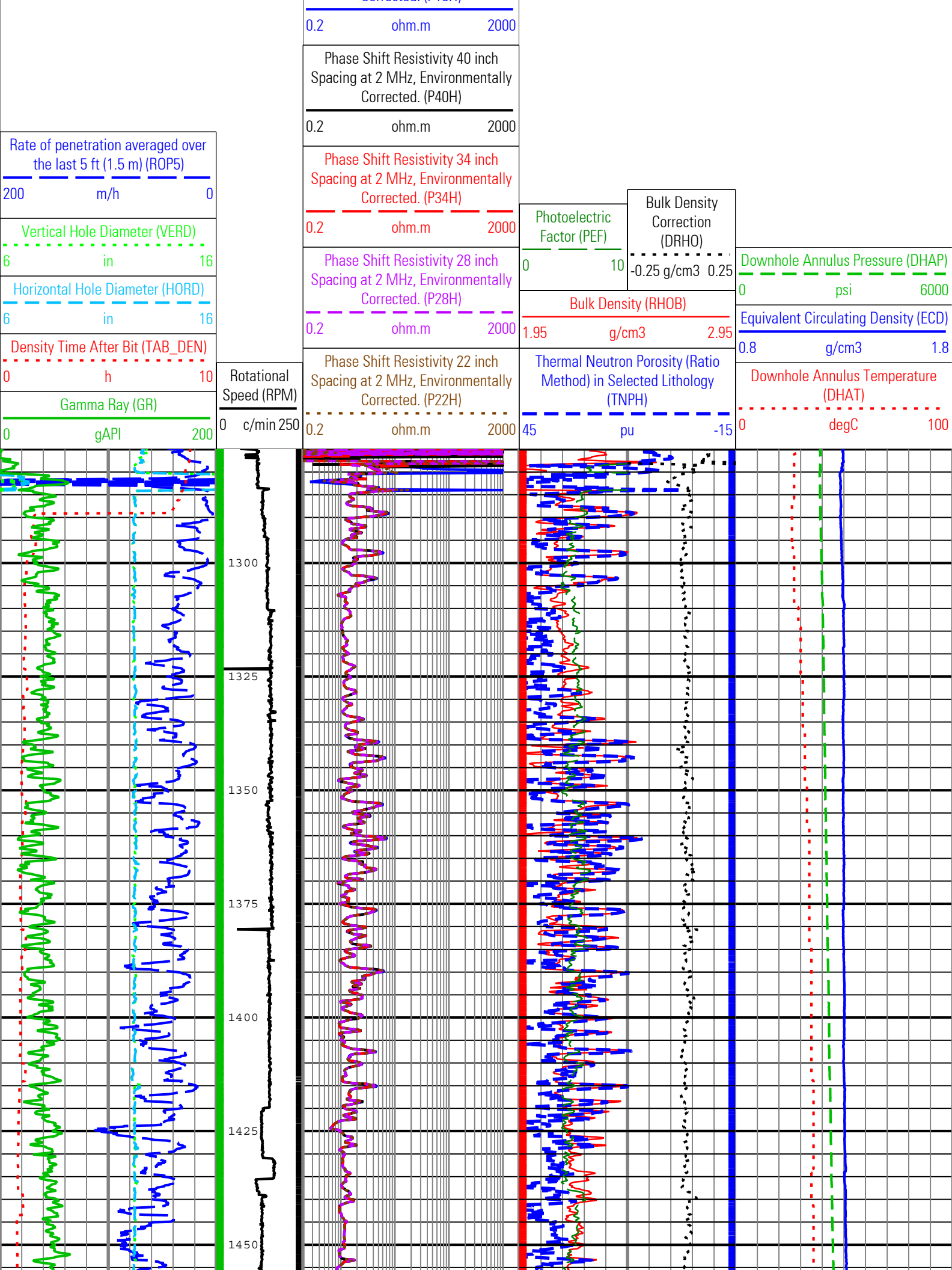
┆TICKS_GR - Gamma Ray Tick Marks

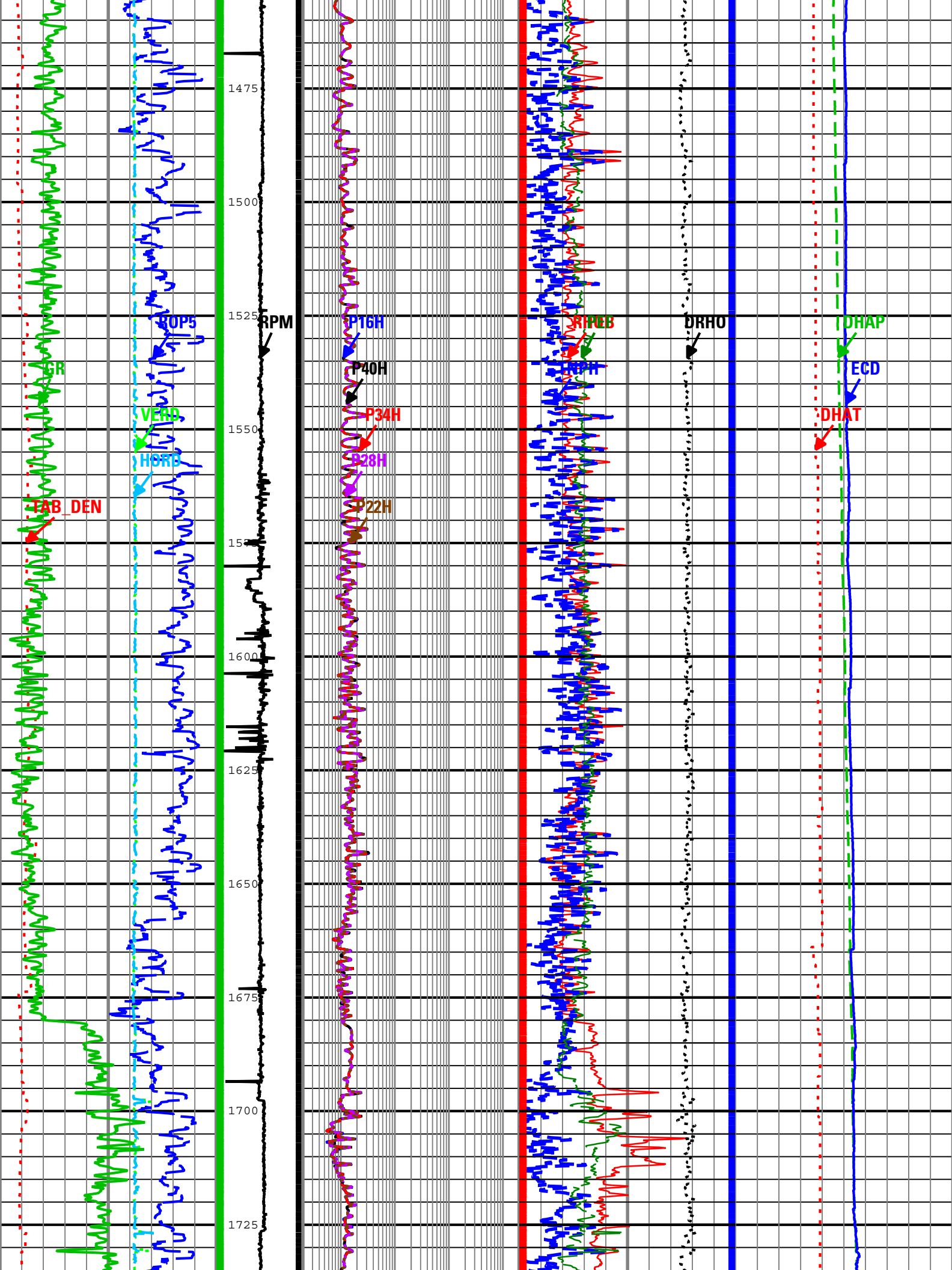
┆TICKS_RES - Resistivity Tick Marks

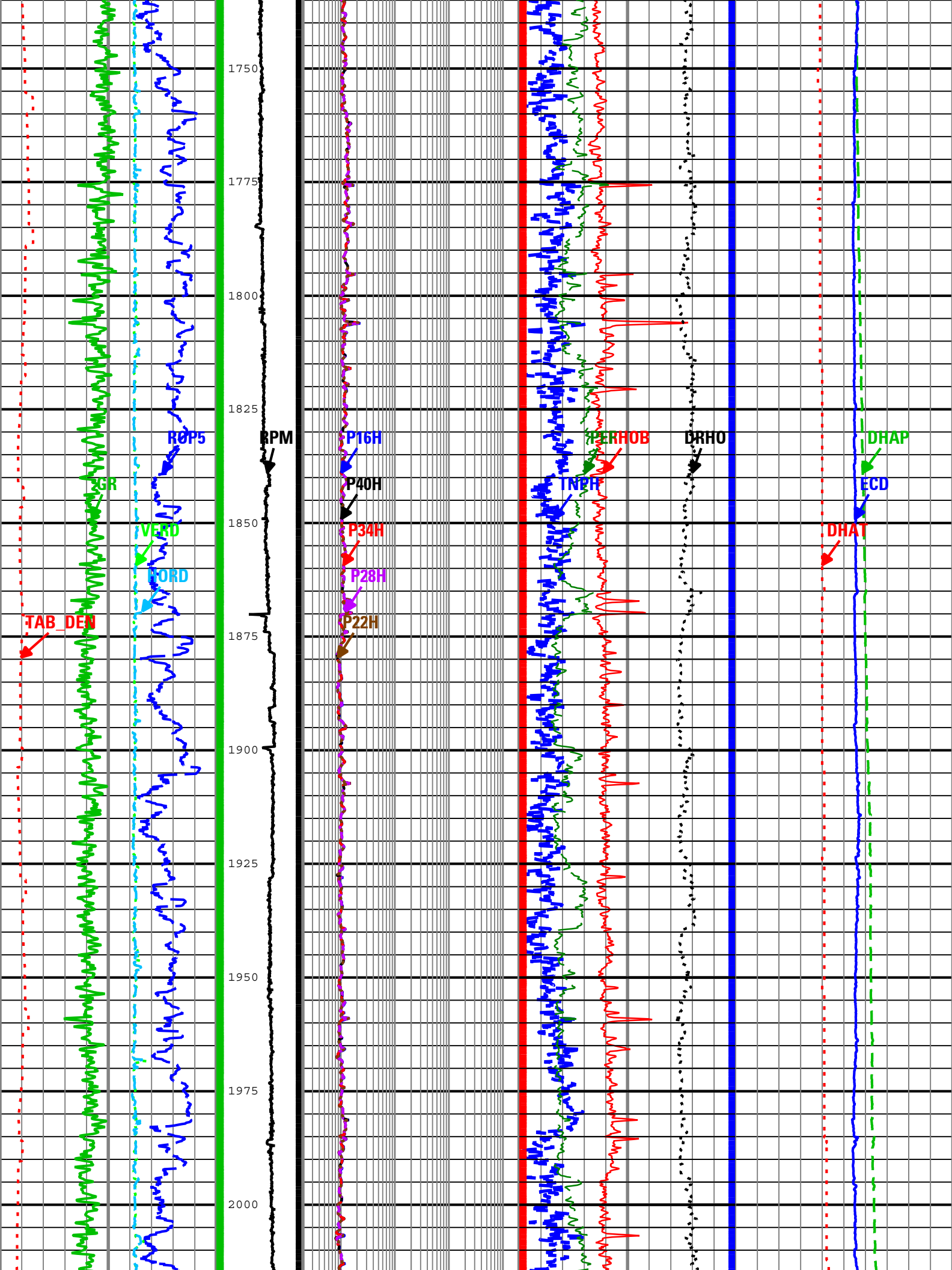
┆TICKS_DEN - Density Tick Marks

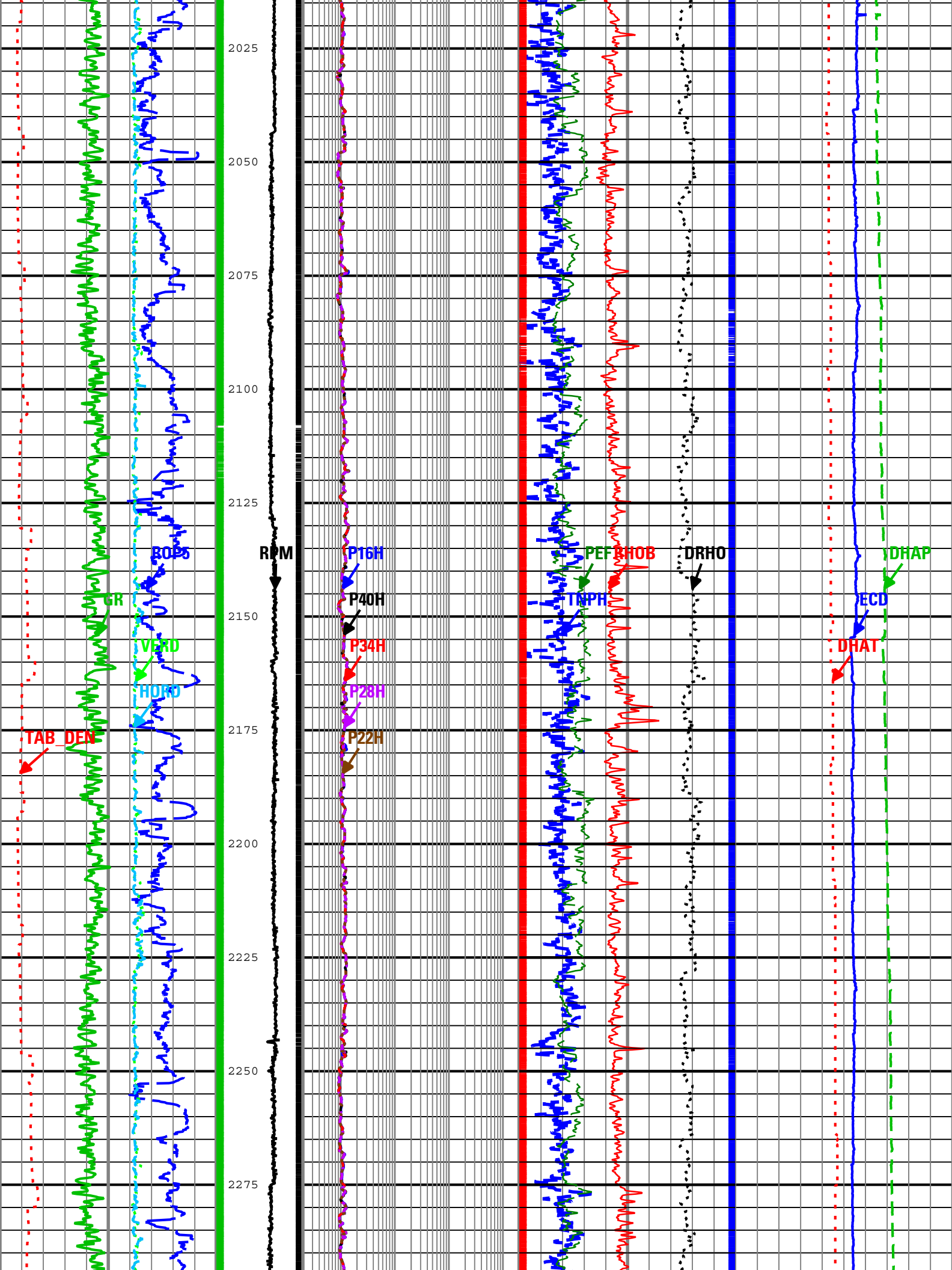
┆TICKS_NEU - Neutron Tick Marks

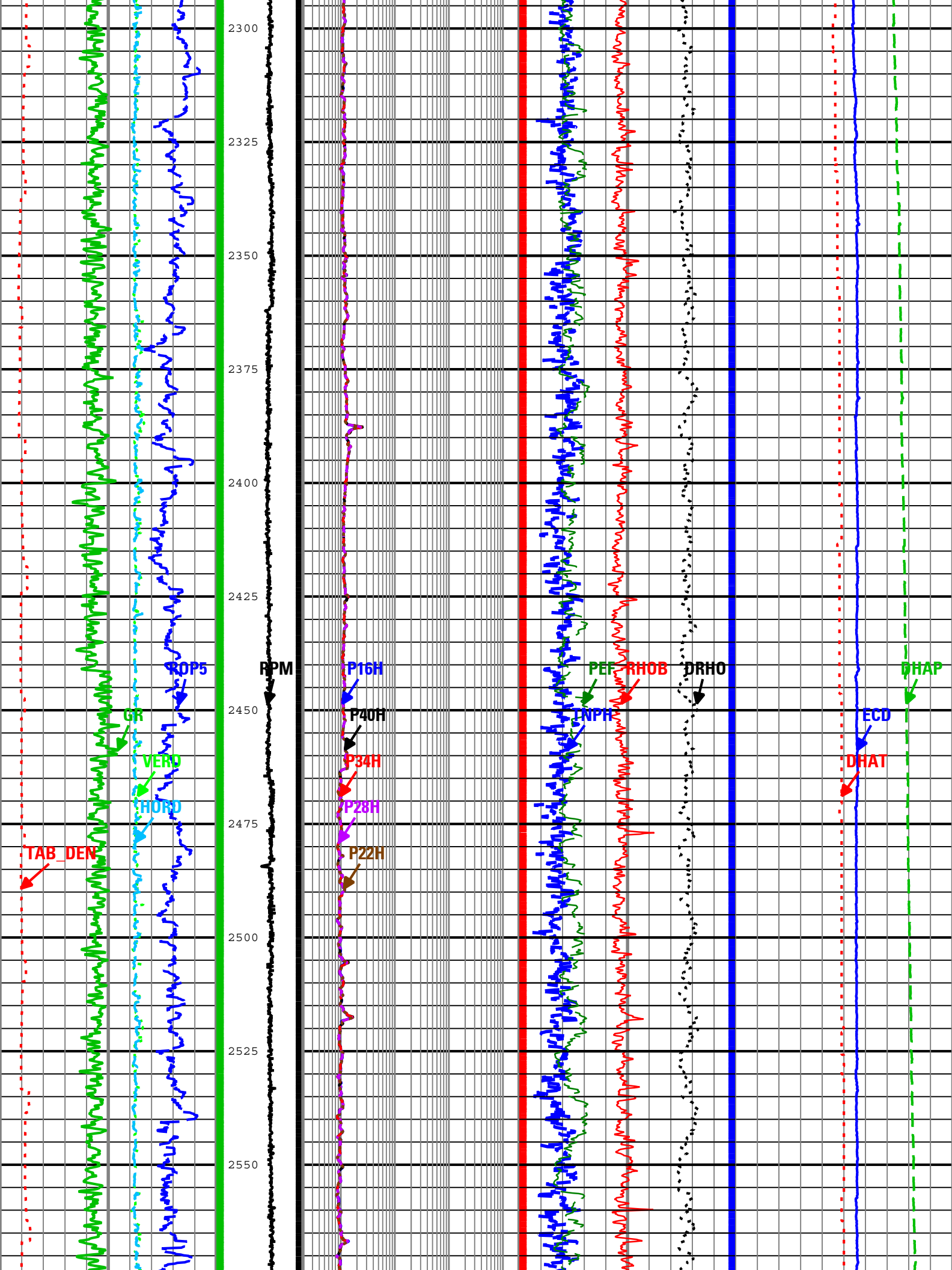
Phase Shift Resistivity 16 inch
Spacing at 2 MHz, Environmentally
Corrected. (P16H)

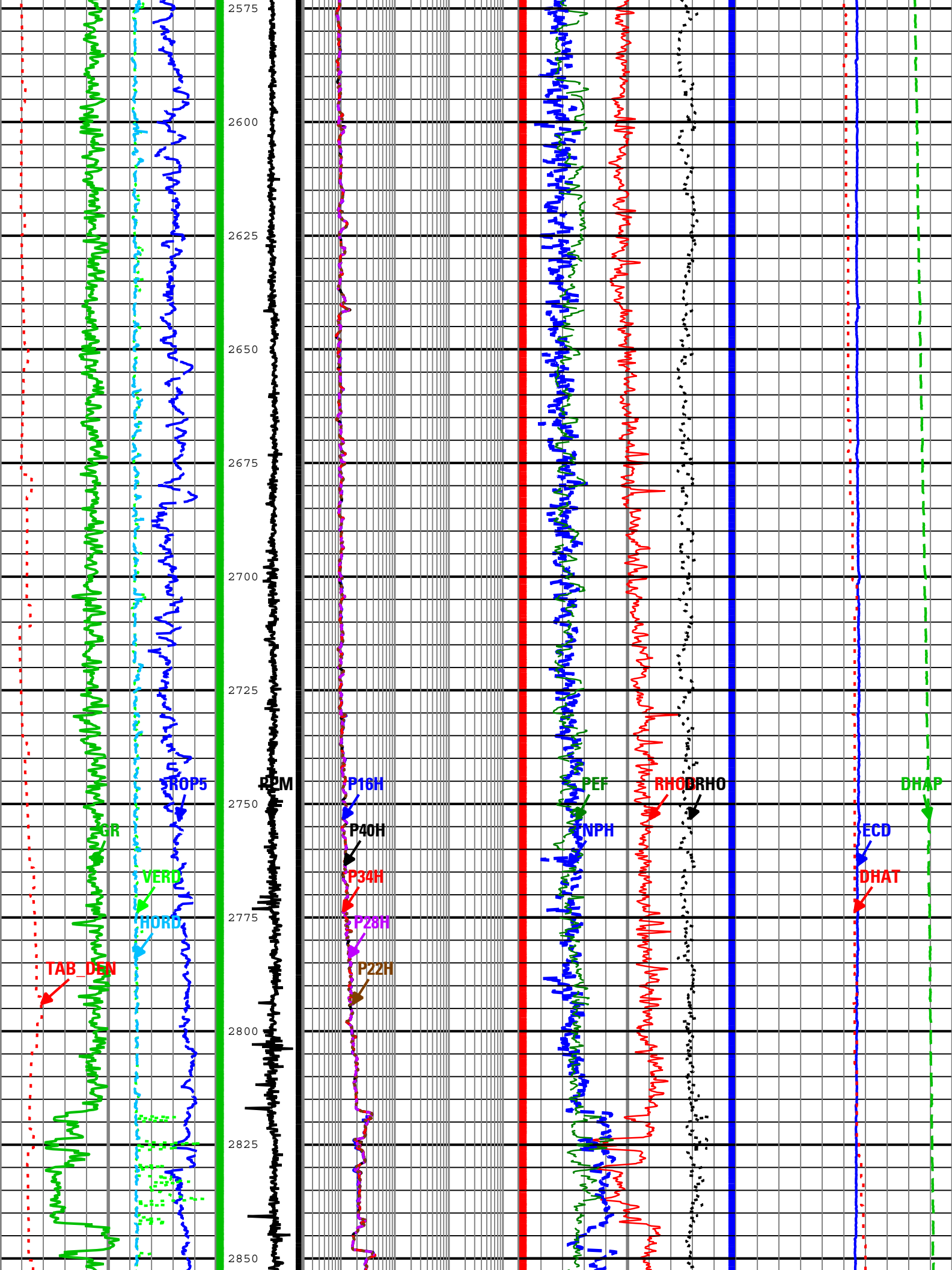


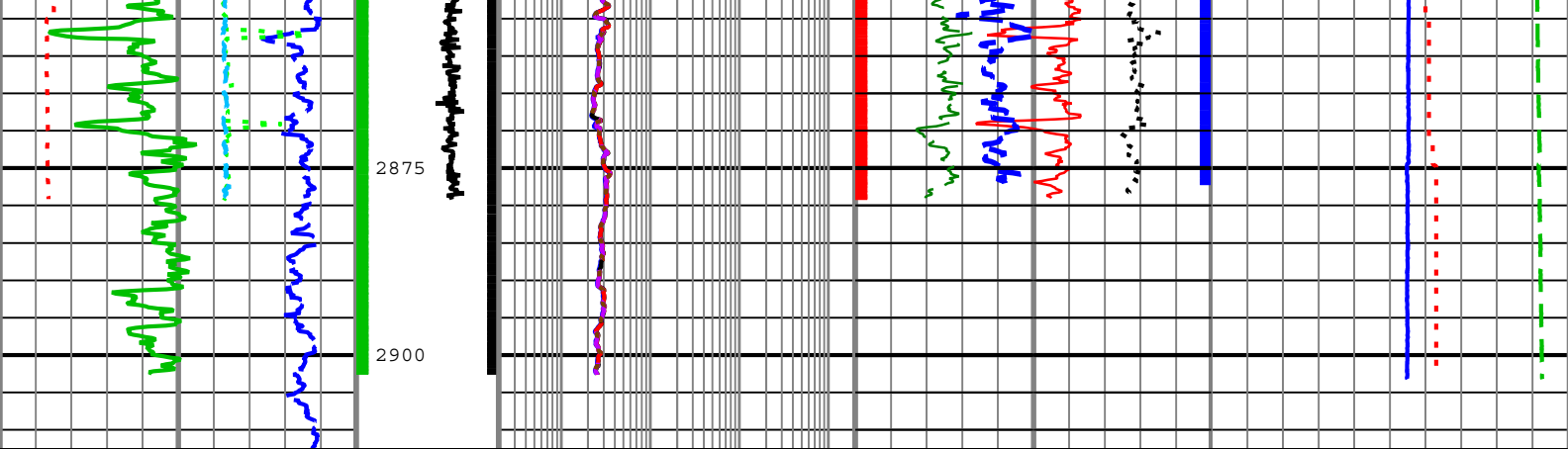












Rate of penetration averaged over the last 5 ft (1.5 m) (ROP5)	Rotational Speed (RPM)
200 m/h 0	0 c/min 250
Vertical Hole Diameter (VERD)	
6 in 16	
Horizontal Hole Diameter (HORD)	
6 in 16	
Density Time After Bit (TAB_DEN)	
0 h 10	
Gamma Ray (GR)	
0 gAPI 200	

Phase Shift Resistivity 16 inch Spacing at 2 MHz, Environmentally Corrected. (P16H)	0.2 ohm.m 2000
Phase Shift Resistivity 40 inch Spacing at 2 MHz, Environmentally Corrected. (P40H)	0.2 ohm.m 2000
Phase Shift Resistivity 34 inch Spacing at 2 MHz, Environmentally Corrected. (P34H)	0.2 ohm.m 2000
Phase Shift Resistivity 28 inch Spacing at 2 MHz, Environmentally Corrected. (P28H)	0.2 ohm.m 2000
Phase Shift Resistivity 22 inch Spacing at 2 MHz, Environmentally Corrected. (P22H)	0.2 ohm.m 2000

Bulk Density (RHOB)	1.95 g/cm3 2.95
Thermal Neutron Porosity (Ratio Method) in Selected Lithology (TNPH)	45 pu -15
Photoelectric Factor (PEF)	0 10
Bulk Density Correction (DRHO)	-0.25 g/cm3 0.25

Downhole Annulus Pressure (DHAP)	0 psi 6000
Equivalent Circulating Density (ECD)	0.8 g/cm3 1.8
Downhole Annulus Temperature (DHAT)	0 degC 100

-|TICKS_NEU - Neutron Tick Marks
 -|TICKS_DEN - Density Tick Marks
 -|TICKS_RES - Resistivity Tick Marks
 -|TICKS_GR - Gamma Ray Tick Marks

Description: ARC + VDN + sonicVISION Format: Log (VISION Service RM - Woodside) Index Scale: 1:1000 Index Unit: m Index Type: Measured Depth
 Creation Date: 19-Feb-2010 11:36:08

Channel Processing Parameters

Parameter	Description	ToolPath	Value	Unit
BHK	Drilling Fluid Potassium Concentration	Borehole	Time Zoned	%
BHT	Bottom Hole Temperature	Borehole	62	degC
BS	Bit Size	COMPLETION	Depth Zoned	in
BSAL	Borehole Salinity	Borehole	Time Zoned	ppm
DFD	Drilling Fluid Density	Borehole	Time Zoned	g/cm3
DFT	Drilling Fluid Type	Borehole	Water	
DTMD	Borehole Fluid Slowness	Borehole	220	us/ft
FLEV	Depth of Drilling Fluid Level to LMF (Log Measured From)	Borehole	2.44	m
GGRD	Geothermal Gradient	Borehole	1.1	degF/100ft
GRSE	Generalized Mud Resistivity Selection	Borehole	Computed (GEN-9)	
GTSE	Generalized Temperature Selection	Borehole	Gradient From Surface	

MATR	Rock Matrix for Neutron Porosity Corrections	Borehole	LIMESTONE	
MST	Mud Sample Temperature	Borehole	Time Zoned	degC
RHO_SEAWATER	Density of the Sea Water	Borehole	1.02	g/cm3
RMS	Resistivity of Mud Sample	Borehole	Time Zoned	ohm.m
SF_FLAG	Mud Return to Sea Floor (No Riser)?	Borehole	No	
SHT	Surface Hole Temperature	Borehole	10	degC
TD	Total Measured Depth	Borehole	2912	m
TEMP_SEL_ARC	ARC Temperature Selection	ARC8:ARC8:ARDC	Annular	

Depth Zone Parameters

Parameter	Value	Start (m)	Stop (m)
BS	17.5	1275	1284
BS	12.25	1284	2912.52

All depth are actual.

Time Zone Parameters

Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
BHK	5.77	24-Oct-2009 19:34:49	25-Oct-2009 08:14:10	1274.72	1278.41
BHK	5.77	25-Oct-2009 08:14:10	27-Oct-2009 05:09:59	1278.41	2451.68
BHK	4.52	27-Oct-2009 05:09:59	02-Nov-2009 09:45:08	2451.68	2912.69
BSAL	70000	24-Oct-2009 19:34:49	25-Oct-2009 08:14:10	1274.72	1278.41
BSAL	65000	25-Oct-2009 08:14:10	26-Oct-2009 04:24:53	1278.41	1673.78
BSAL	52000	26-Oct-2009 04:24:53	27-Oct-2009 05:09:59	1673.78	2451.68
BSAL	56000	27-Oct-2009 05:09:59	02-Nov-2009 09:45:08	2451.68	2912.69
DFD	1.29	24-Oct-2009 19:34:49	26-Oct-2009 02:52:31	1274.72	1626.54
DFD	1.26	26-Oct-2009 02:52:31	27-Oct-2009 05:10:29	1626.54	2451.68
DFD	1.3	27-Oct-2009 05:10:29	02-Nov-2009 09:45:08	2451.68	2912.69
MST	19.4	24-Oct-2009 19:34:49	26-Oct-2009 04:24:53	1274.72	1673.78
MST	18.8	26-Oct-2009 04:24:53	27-Oct-2009 01:55:15	1673.78	2342.67
MST	20	27-Oct-2009 01:55:15	02-Nov-2009 09:45:08	2342.67	2912.69
RMS	0.08	24-Oct-2009 19:34:49	26-Oct-2009 04:24:53	1274.72	1673.78
RMS	0.09	26-Oct-2009 04:24:53	27-Oct-2009 01:55:15	1673.78	2342.67
RMS	0.1	27-Oct-2009 01:55:15	02-Nov-2009 09:45:08	2342.67	2912.69

All depth are at tool zero.

Tool Control Parameters

Parameter	Description	ToolPath	Value	Unit
OFFBTM_TH	Threshold for deciding whether the bit is off bottom	DnMWorkflow	Time Zoned	m

Time Zone Parameters


Parameter	Value	Start Time	Stop Time	Start Depth (m)	Stop Depth (m)
OFFBTM_TH	0.6	24-Oct-2009 19:34:49	25-Oct-2009 23:15:02	1274.72	1529.56
OFFBTM_TH	0.5	25-Oct-2009 23:15:02	26-Oct-2009 00:11:46	1529.56	1558.04
OFFBTM_TH	0.4	26-Oct-2009 00:11:46	26-Oct-2009 18:26:10	1558.04	2126.79
OFFBTM_TH	0.5	26-Oct-2009 18:26:10	26-Oct-2009 18:26:39	2126.79	2127.1
OFFBTM_TH	0.6	26-Oct-2009 18:26:39	26-Oct-2009 18:36:19	2127.1	2132.63
OFFBTM_TH	0.4	26-Oct-2009 18:36:19	02-Nov-2009 09:45:08	2132.63	2912.69

All depth are at tool zero.


Concise Calibration Record

Concise Calibration Record


Run 2: ARC8 : Calibration Resistivity

Primary Set Components	Description	Tool Element	Serial Number
	DC without AIM	ARDC	2724
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	05-Oct-2009 02:19:44 PM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Resistivity: Air			
Description	Min/Nominal/Max	Shop	Unit
 All Resistivity: Air Measurements within Tolerance			


Run 2: ARC8 : Calibration Gamma Ray

Primary Set Components	Description	Tool Element	Serial Number
	DC without AIM	ARDC	2724
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	05-Oct-2009 09:57:16 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Gamma Ray: Blanket			
Description	Min/Nominal/Max	Shop	Unit
 All Gamma Ray: Blanket Measurements within Tolerance			


Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density LS Window 3 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
	Density Blade	ADBDB	
	Retrievable Neutron Gamma Src	RNGS	
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Density: LS Window 3			
Description	Min/Nominal/Max	Shop	Unit
 All Density: LS Window 3 Measurements within Tolerance			


Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density SS Window 1 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Density: SS Window 1			
Description	Min/Nominal/Max	Shop	Unit
 All Density: SS Window 1 Measurements within Tolerance			


Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Density SS Window 3 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Density: SS Window 3			
Description	Min/Nominal/Max	Shop	Unit
 All Density: SS Window 3 Measurements within Tolerance			


Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 1 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
	Neutron Blade	NDBN	
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Neutron: Far tube 1			
Description	Min/Nominal/Max	Shop	Unit
	All Neutron: Far tube 1 Measurements within Tolerance		


Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 2 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Neutron: Far tube 2			
Description	Min/Nominal/Max	Shop	Unit
	All Neutron: Far tube 2 Measurements within Tolerance		


Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Far Tube 3 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Neutron: Far tube 3			
Description	Min/Nominal/Max	Shop	Unit
	All Neutron: Far tube 3 Measurements within Tolerance		

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 1 Calibration


Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Neutron: Near tube 1			
Description	Min/Nominal/Max	Shop	Unit
	All Neutron: Near tube 1 Measurements within Tolerance		

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 2 Calibration

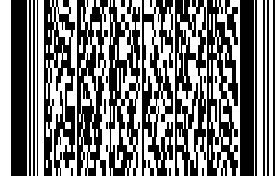
Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Neutron: Near tube 2			
Description	Min/Nominal/Max	Shop	Unit
	All Neutron: Near tube 2 Measurements within Tolerance		

Run 2: SADN8 : 8.25-in. Stabilized Azimuthal Density Neutron Calibration Neutron Near Tube 3 Calibration

Primary Set Components	Description	Tool Element	Serial Number
	Chassis	ADSE	083

	Chassis	ADSE	083
Calibration Dates	Shop Calibration		
Date & Time / Date Validity	29-Aug-2009 12:14:05 AM - Valid		
Calibration Source	Time Frame File		
Calibration Type: Neutron: Near tube 3			
Description	Min/Nominal/Max	Shop	Unit
	All Neutron: Near tube 3 Measurements within Tolerance		

Company: Woodside Energy Ltd
Well: Somerset-1
Field: T34P
Rig Name: Ocean Patriot
State: Tasmania
Country: Australia



	VISION* Service 12.25" Section 1:1000m MDRT
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Palynology Basic Data Report

MORGAN PALAEO ASSOCIATES

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PALYNOLOGY OF

SOMERSET-1

OFFSHORE OTWAY BASIN, AUSTRALIA

PALYNOLOGY REPORT - BASIC DATA

BY

ROGER MORGAN

for **WOODSIDE ENERGY LTD**

March 2010

REF-CAR.SOMERSET-1 BASIC REPORT



PALYNOLOGY OF

SOMERSET-1

PALYNOLOGY REPORT - BASIC DATA

INTRODUCTION

Palynological preparations from 32 cutting samples were examined. Organic yields are extremely low to low. Palynomorph preservation was fair to good. These details are listed on basic data version of [Table 1](#). Quantitative distribution of all taxa are given on the accompanying [range chart](#).

TABLE 1: SUMMARY PALYNOLOGICAL DATA, SOMERSET-1
RT=m

DEPTH [mbRT]	SAMPLE TYPE	ORGANIC YIELD *1	MICROFOSSIL YIELD	PRESERVATION *2	PERCENTAGE			DIVERSITY *3		
					MICROPLANKTON			SPORE-POLLEN	MICROPLANKTON	SPORE-POLLEN
					DINOFLAG.	SPINY AC.	OTHER			
1700 / 20	DC	0.033	MOD	GOOD (3)	13	1	2	84	MOD	V HIGH
1760 / 70	DC	0.020	MOD	GOOD (3)	20	0	1	79	MOD	V HIGH
1820 / 30	DC	0.030	LOW	GOOD (3)	35	<1	1	63	MOD	HIGH
1900 / 10	DC	0.023	MOD	GOOD (3)	7	0	2	91	MOD	V HIGH
1950 / 60	DC	0.023	MOD	GOOD (3)	9	0	0	91	LOW	HIGH
2020 / 30	DC	0.023	MOD	GOOD (3)	2	0	1	97	EX LOW	V HIGH
2090 / 2100	DC	0.033	MOD	FAIR (4)	9	0	0	91	LOW	HIGH
2150 / 60	DC	0.020	MOD	GOOD (3)	8	0	1	91	MOD	V HIGH
2210 / 20	DC	0.010	LOW	GOOD (3)	10	0	1	89	LOW	HIGH
2290 / 30	DC	0.013	MOD	GOOD (3)	15	1	0	84	MOD	V HIGH
2390 / 400	DC	0.010	MOD	GOOD (3)	15	0	2	83	LOW	HIGH
2450 / 60	DC	0.027	MOD	GOOD (3)	26	1	0	73	MOD	HIGH
2500 / 10	DC	0.023	MOD	GOOD (3)	25	1	0	74	LOW	HIGH
2600 / 10	DC	0.010	LOW	GOOD (3)	12	0	7	81	LOW	MOD
2670 / 80	DC	0.013	MOD	GOOD (3)	25	1	5	69	MOD	HIGH
2710 / 20	DC	0.010	MOD	GOOD (3)	21	0	2	77	MOD	HIGH
2740 / 50	DC	0.017	MOD	GOOD (3)	32	0	4	64	MOD	MOD
2760 / 70	DC	0.010	MOD	GOOD (3)	31	0	4	65	LOW	MOD
2780 / 90	DC	0.010	MOD	GOOD (3)	35	2	1	62	MOD	HIGH
2800 / 10	DC	0.013	MOD	GOOD (3)	60	1	4	35	HIGH	MOD
2810 / 15	DC	0.013	LOW	GOOD (3)	62	0	6	32	MOD	LOW
2815 / 20	DC	0.013	MOD	GOOD (3)	58	0	3	39	HIGH	HIGH
2820 / 25	DC	0.013	MOD	GOOD (3)	56	0	2	42	HIGH	MOD
2825 / 30	DC	0.010	MOD	GOOD (3)	46	0	4	50	HIGH	MOD
2840 / 45	DC	0.023	MOD	GOOD (3)	22	<1	2	75	MOD	HIGH
2845 / 50	DC	0.027	LOW	GOOD (3)	51	1	3	45	HIGH	MOD
2850 / 55	DC	0.010	MOD	GOOD (3)	35	2	15	48	HIGH	MOD
2855 / 60	DC	0.033	MOD	GOOD (3)	48	1	10	41	HIGH	MOD
2860 / 65	DC	0.007	MOD	GOOD (3)	67	0	9	24	MOD	MOD
2865 / 70	DC	0.033	LOW	GOOD (3)	33	0	5	62	LOW	MOD
2870 / 75	DC	0.013	MOD	GOOD (3)	54	1	9	36	HIGH	HIGH
2875 / 80	DC	0.020	MOD	GOOD (3)	62	0	4	34	HIGH	HIGH

*1 ORGANIC YLD=VOL(cc)/WGHT(g)	*2 NOTE: PRESERVATION (FRAGMENTATION INDEX)	*3 DIVERSITY
<0.01 : EXTREMELY LOW		V HIGH 30+ SPECIES
0.01 - 0.10 : LOW	1 = SUPERB	HIGH 20-29 SPECIES
0.1 - 0.5 : MODERATE	2 = EXCELLENT	MOD 10-19 SPECIES
>0.5 : HIGH	3 = GOOD	LOW 5-9 SPECIES
	4 = FAIR	EX LOW 1-4 SPECIES
	5 = POOR	

SOMERSET-1

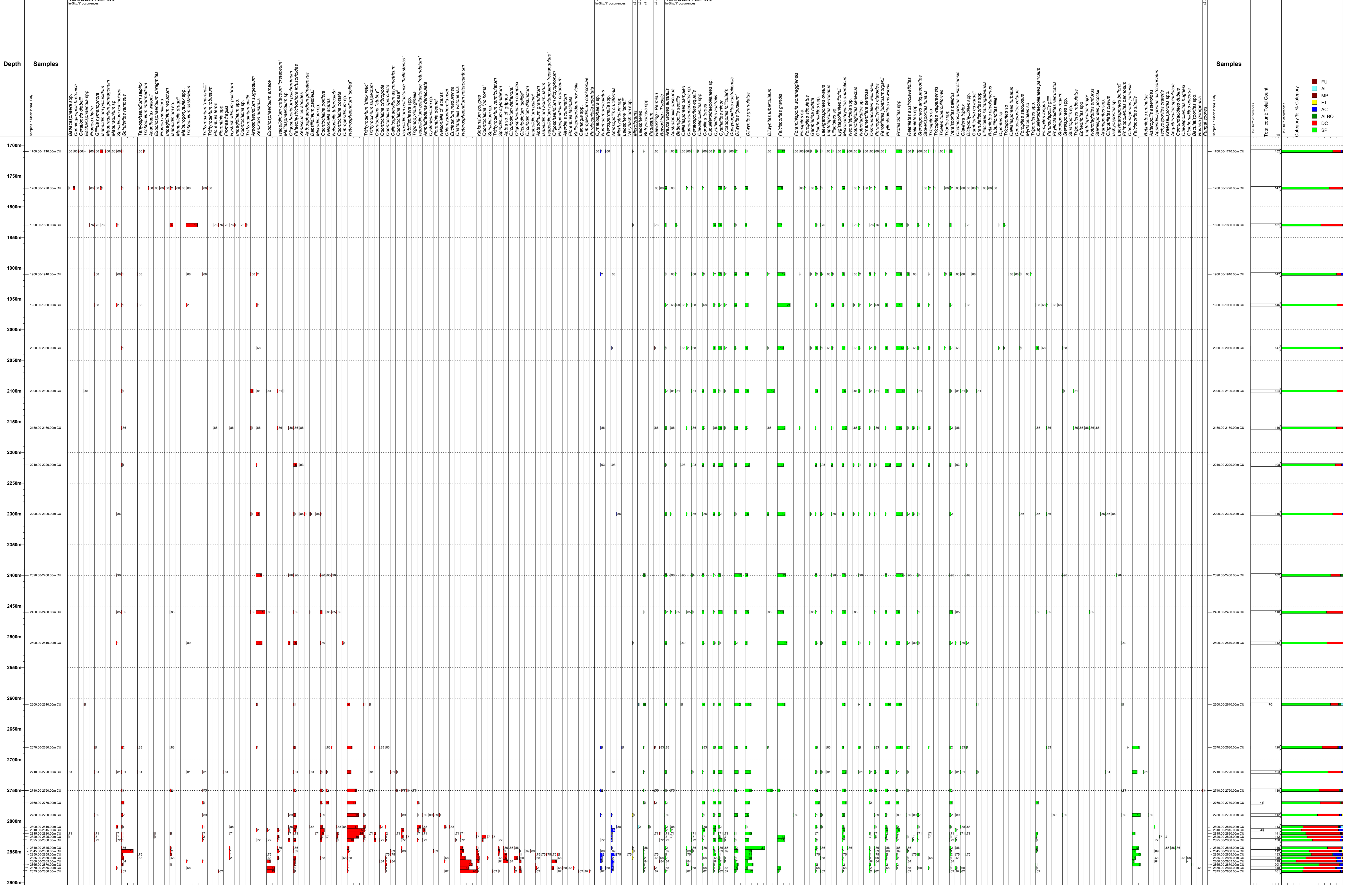
Sampling
Core
Subwell core
Text Keys

Dinoflagellate Cysts

Acritarchs

Spores And Pollen

Total Count % Category



**Geochemistry Source Rock Screening,
Fluid Inclusion Studies,
Vitrinite Reflectance Studies**

GEOCHEMISTRY BASIC DATA

Geotech

Source Rock Data

Analysis of Organic Matter by Rock-Eval Pyrolysis

ANALYSIS OF ORGANIC MATTER BY ROCK-EVAL PYROLYSIS

SOMERSET-1 water washed samples



<i>Upp Depth (m)</i>	<i>Low Depth (m)</i>	<i>Tmax</i>	<i>S1</i>	<i>S2</i>	<i>S3</i>	<i>S1+S2</i>	<i>S2/S3</i>	<i>PI</i>	<i>TOC</i>	<i>HI</i>	<i>OI</i>
1700.0	1710.0	418	0.48	3.30	2.02	3.78	1.63	0.13	1.40	236	144
1790.0	1800.0	419	0.55	3.06	1.74	3.61	1.76	0.15	1.25	245	139
1890.0	1900.0	425	0.65	4.05	1.54	4.70	2.63	0.14	1.54	263	100
1990.0	2000.0	422	0.86	5.03	1.57	5.89	3.20	0.15	1.49	338	105
2090.0	2100.0	421	0.88	4.34	1.54	5.22	2.82	0.17	1.72	252	90
2190.0	2200.0	422	0.66	4.38	2.01	5.04	2.18	0.13	1.51	290	133
2290.0	2300.0	424	1.09	5.06	1.63	6.15	3.10	0.18	1.43	354	114
2400.0	2410.0	426	0.88	5.37	1.50	6.25	3.58	0.14	2.04	263	74
2490.0	2500.0	424	1.26	5.68	1.55	6.94	3.66	0.18	1.74	326	89
2590.0	2600.0	423	1.64	5.87	1.65	7.51	3.56	0.22	1.51	389	109
2700.0	2710.0	408	1.02	5.02	1.40	6.04	3.59	0.17	1.26	398	111
2790.0	2800.0	429	0.60	3.18	1.68	3.78	1.89	0.16	1.33	239	126
2875.0	2878.0	432	0.69	2.43	1.32	3.12	1.84	0.22	1.17	208	113

A TMAX value is not reported if the S2 is <0.2mg/g

TMAX = Max. temperature S2 (°C)

S1+S2 = Potential yield (mg/g rock)

OI = Oxygen Index

S1 = Volatile hydrocarbons (HC) (mg/g rock)

S3 = Organic carbon dioxide (mg/g rock)

TOC = Total organic carbon (wt % of rock)

nd = no data

S2 = HC generating potential (mg/g rock)

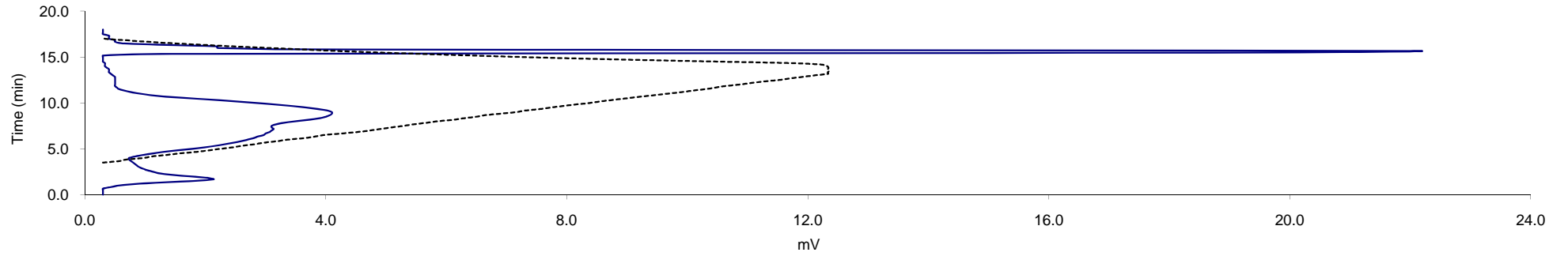
PI = Production index

HI = Hydrogen index

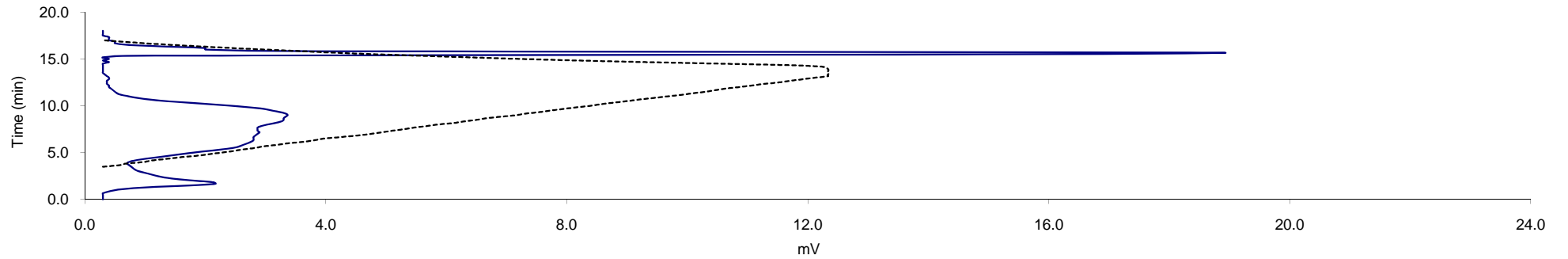
GEOTECHNICAL SERVICES PTY LTD

Somerset-1_RE_pyrograms

DEPTH	DATE	28/05/2010	ANALYSIS CYCLE		1
1700-1710m	QUANTITY	TMAX	S1	S2	S3
	100	418	0.48	3.3	2.02

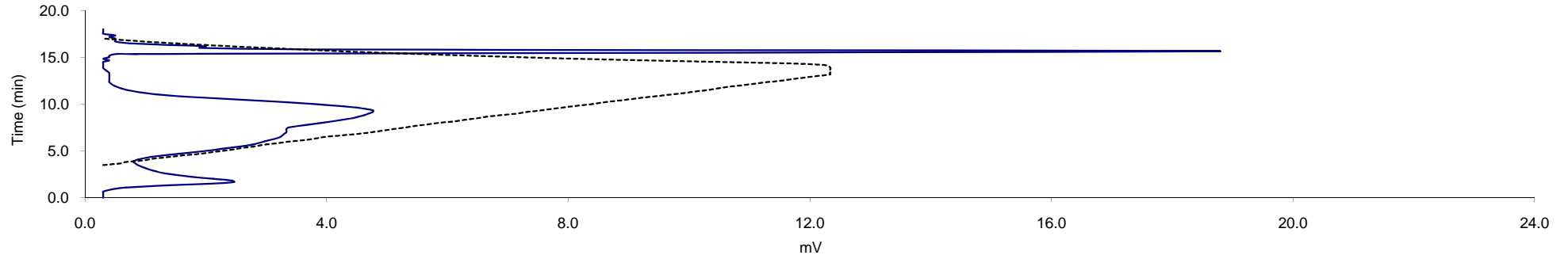


DEPTH	DATE	28/05/2010	ANALYSIS CYCLE		1
1790-1800m	QUANTITY	TMAX	S1	S2	S3
	100	419	0.55	3.06	1.74

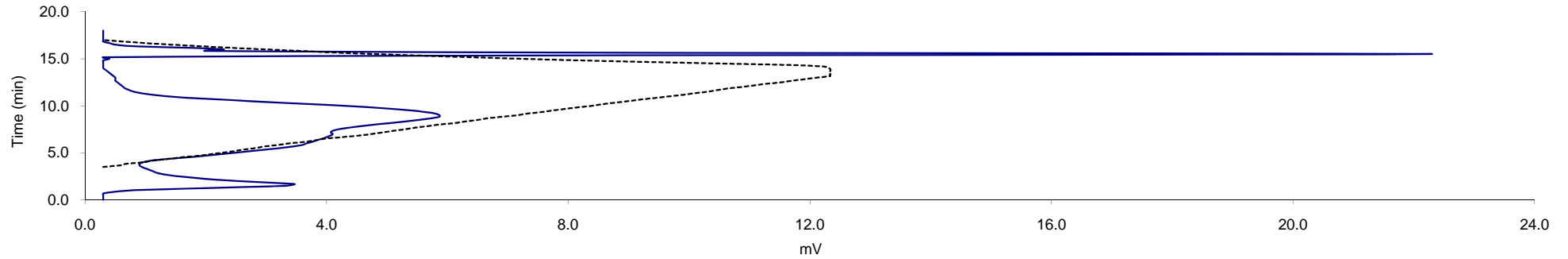


Somerset-1_RE_pyrograms

DEPTH	DATE	28/05/2010	ANALYSIS CYCLE	1	
1890-1900m	QUANTITY	TMAX	S1	S2	S3
	100	425	0.65	4.05	1.54

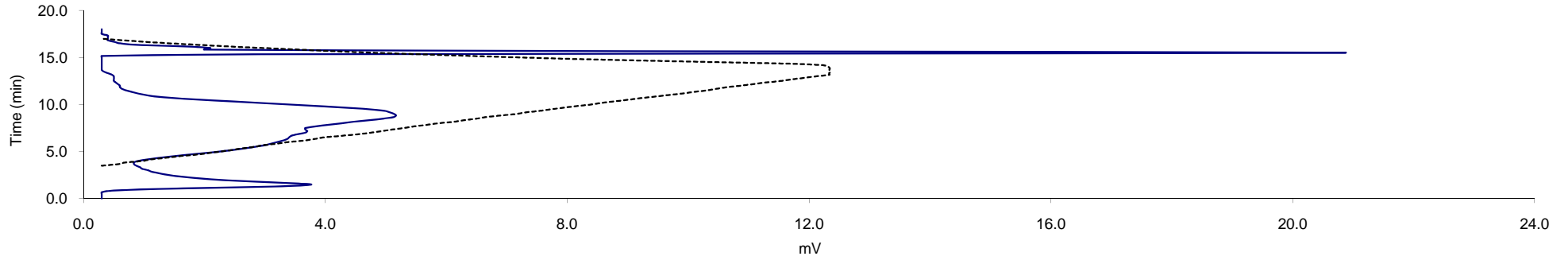


DEPTH	DATE	28/05/2010	ANALYSIS CYCLE	1	
1990-2000m	QUANTITY	TMAX	S1	S2	S3
	100	422	0.86	5.03	1.57

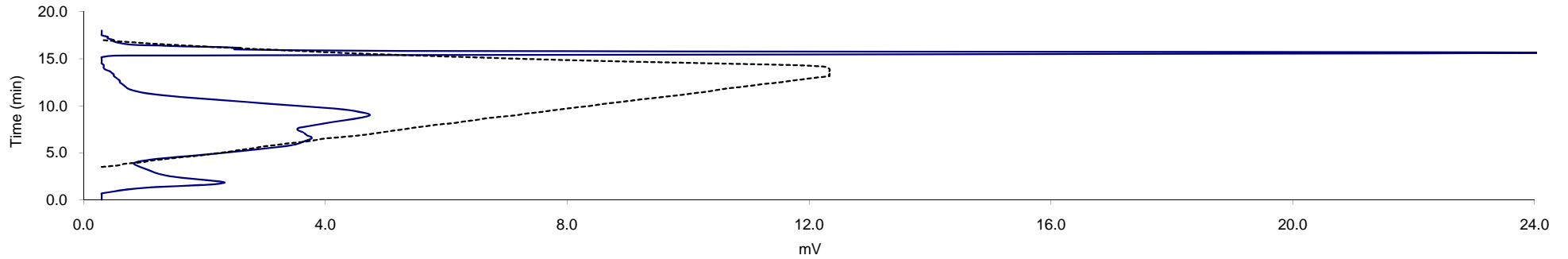


Somerset-1_RE_pyrograms

DEPTH	DATE	28/05/2010	ANALYSIS CYCLE	1	
2090-2100m	QUANTITY	TMAX	S1	S2	S3
	100	421	0.88	4.34	1.54

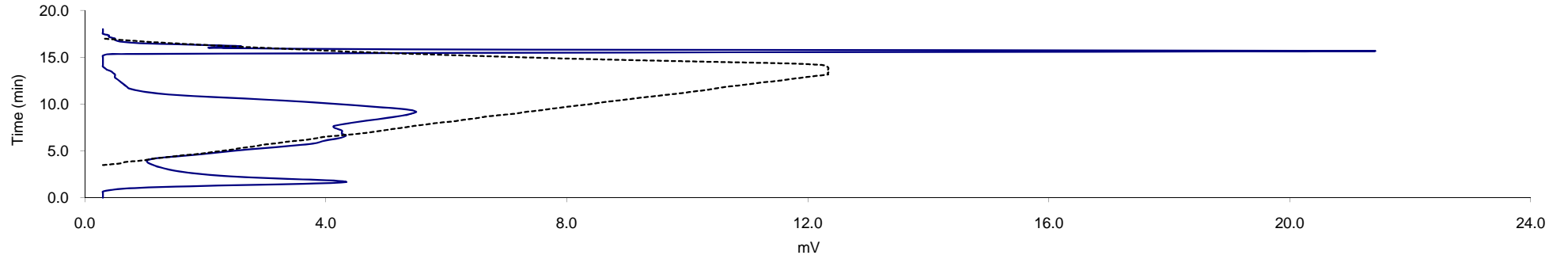


DEPTH	DATE	28/05/2010	ANALYSIS CYCLE	1	
2190-2200m	QUANTITY	TMAX	S1	S2	S3
	100	422	0.66	4.38	2.01

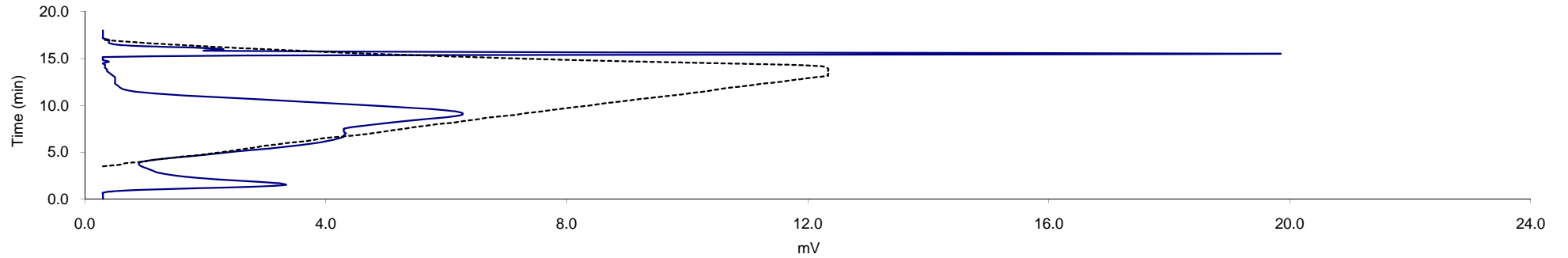


Somerset-1_RE_pyrograms

DEPTH	DATE	28/05/2010	ANALYSIS CYCLE	1	
2290-2300m	QUANTITY	TMAX	S1	S2	S3
	100	424	1.09	5.06	1.63

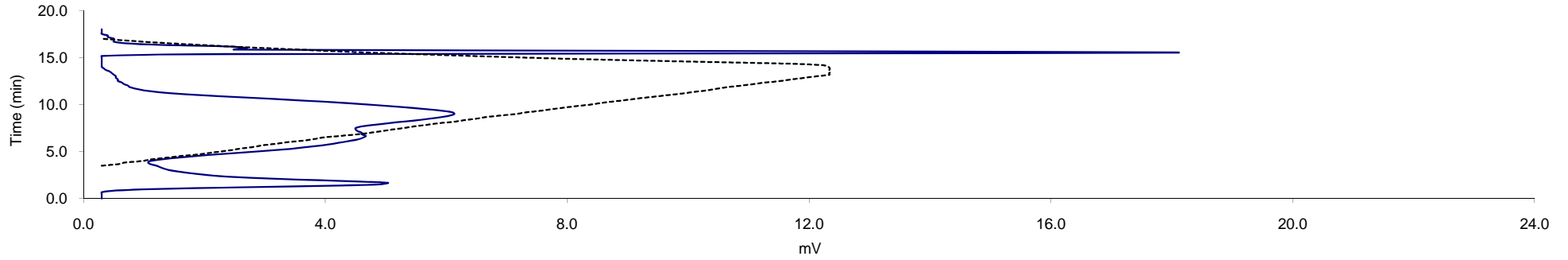


DEPTH	DATE	28/05/2010	ANALYSIS CYCLE	1	
2400-2410m	QUANTITY	TMAX	S1	S2	S3
	100	426	0.88	5.37	1.5

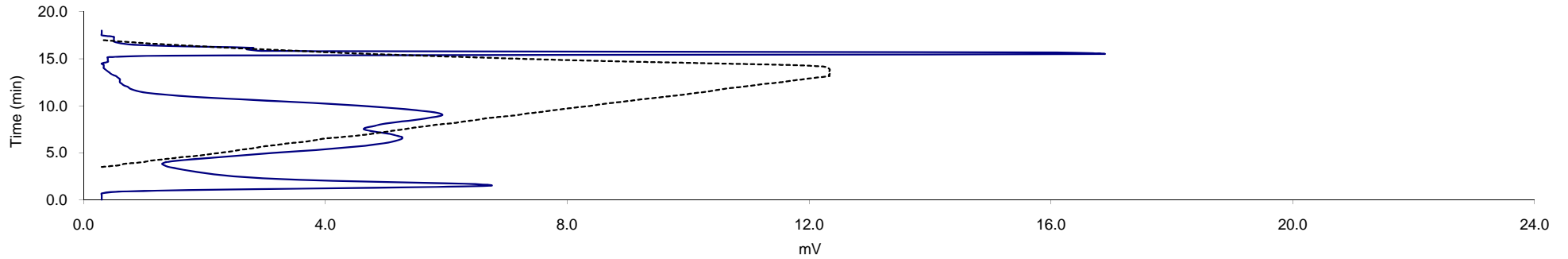


Somerset-1_RE_pyrograms

DEPTH	DATE	28/05/2010	ANALYSIS CYCLE	1	
2490-2500m	QUANTITY	TMAX	S1	S2	S3
	100	424	1.26	5.68	1.55

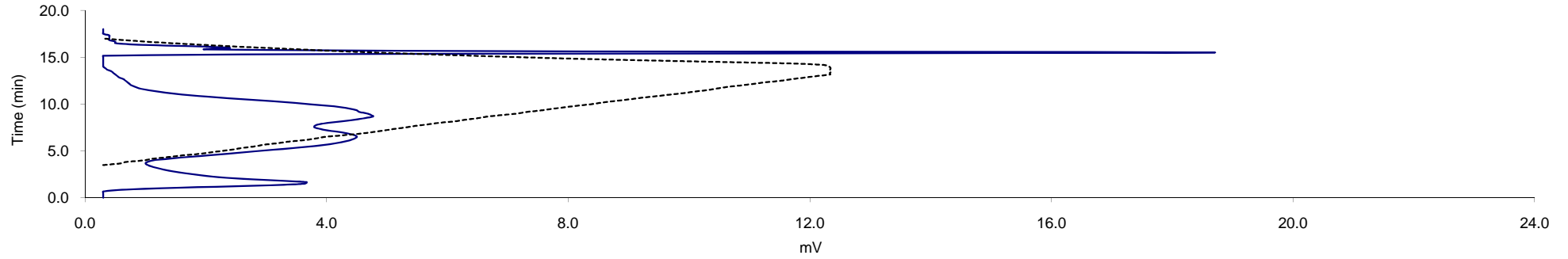


DEPTH	DATE	28/05/2010	ANALYSIS CYCLE	1	
2590-2600m	QUANTITY	TMAX	S1	S2	S3
	100	423	1.64	5.87	1.65

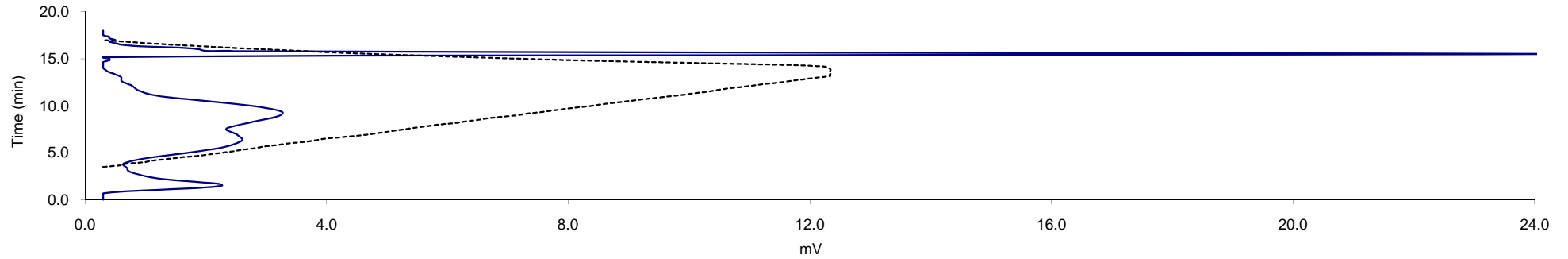


Somerset-1_RE_pyrograms

DEPTH	DATE	28/05/2010	ANALYSIS CYCLE	1	
2700-2710m	QUANTITY	TMAX	S1	S2	S3
	100	408	1.02	5.02	1.4

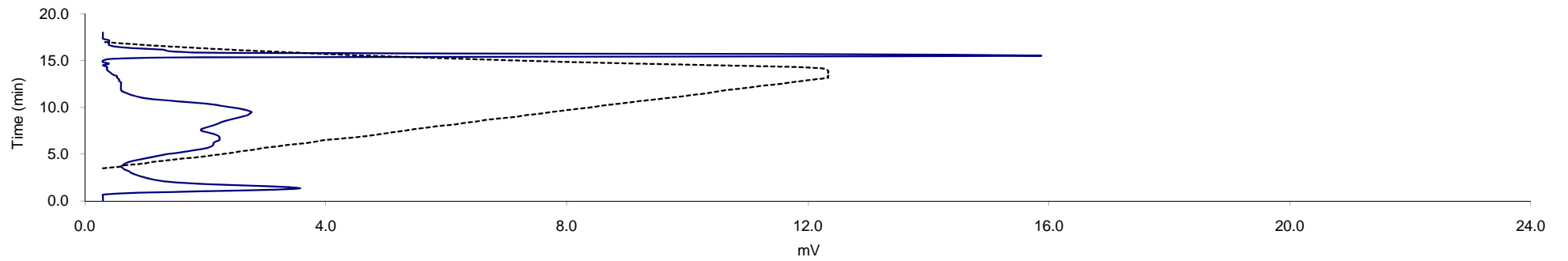


DEPTH	DATE	28/05/2010	ANALYSIS CYCLE	1	
2790-2800m	QUANTITY	TMAX	S1	S2	S3
	100	429	0.6	3.18	1.68



Somerset-1_RE_pyrograms

DEPTH	DATE	28/05/2010	ANALYSIS CYCLE	1	
2875-2878m	QUANTITY	TMAX	S1	S2	S3
	100	432	0.69	2.43	1.32



Fluid Inclusion Studies

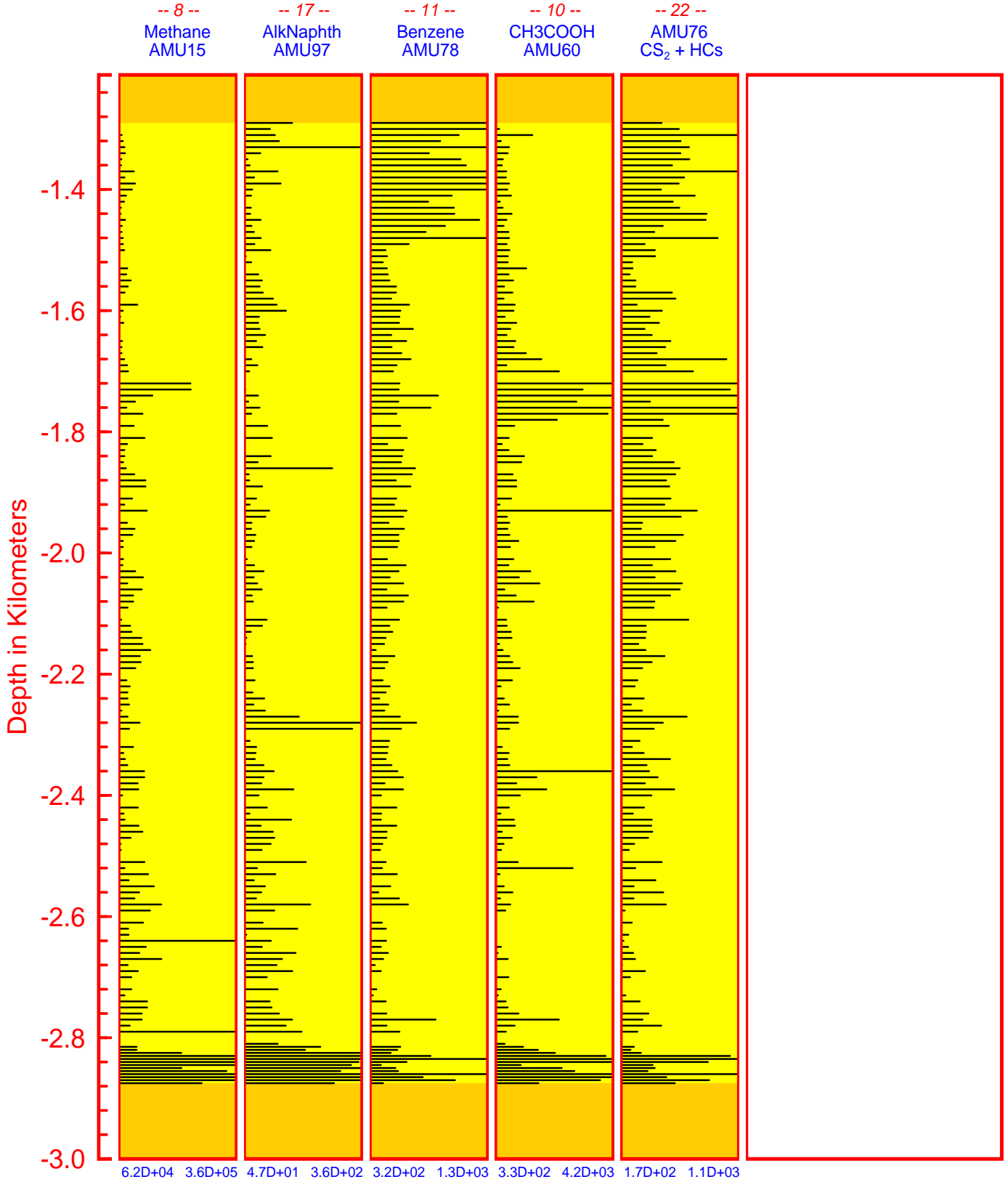


Figure 1: FIS Summary Tracks (see Sect. A for further explanation)

Vitrinite Reflectance Studies

See Interpretive Report for the Vitrinite Reflectance Data