



## Well Completion Report

# Berwyndale 51

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**PL 211**

**Document No: PRJ-WCR-BER-051-01**

**Issued Date:** ' %\$+!&\$%&

Originator:

Haylee Doggart, Wellsite geologist

Approved Geology:

Mark Moore, Manager Subsurface Operations

Approved Drilling:

Alan Ruff, Team Leader Drilling Engineer

**QGC Pty Limited**

A.B.N. 11 089 642 553

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Brisbane QLD 4001

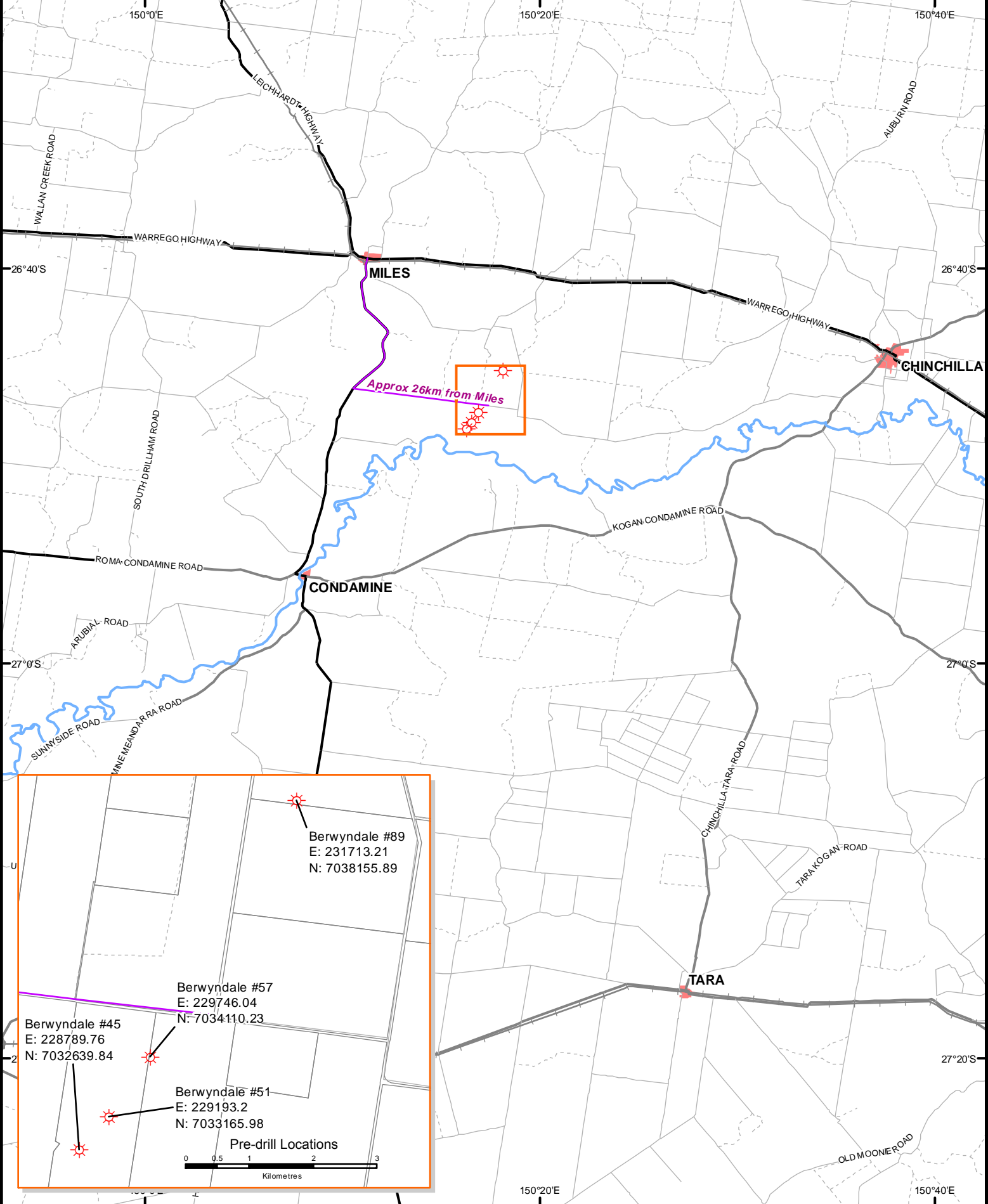
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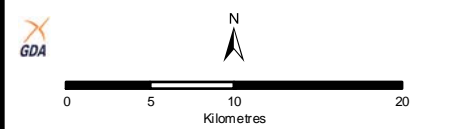
WELL DATA CARD



<b>Well Name</b>	Berwyndale 51		Rig	Weatherford 2			
Well Type	CSG Development		Ground Level	301.21m			
Licence	PL 211		Rotary Table	305.21m			
Joint Venture	BG International		Spud Date	07:00 hours on the 22-06-2011			
Latitude	26° 47' 48.4880" S		Final TD (mRT)	634.77m (Driller) 634.66m (Logger)			
Longitude	150° 16' 33.6828" E		TD Date	22:30 hours on the 23-06-2011			
Easting	229 195.069m E		Rig Release	16:00 hours on the 25-06-2011			
Northing	7 033 166.883m N		Status at Rig Release	Suspended			
Map Zone / Sheet	56 (GDA-94) / Miles (8944)						
<b>Well Summary</b>							
Berwyndale 51 is a coal seam gas development well operated by QGC Pty Limited (QGC), in Petroleum Lease (PL) 211 (Refer <i>Figure 1</i> ). The aim of the well was to target, evaluate and produce coal seam gas out of the Walloon Subgroup Coal Measures. The well was drilled to 634.77mRT and encountered coals in the Walloon Subgroup. One wireline run and under-reaming were performed post drilling. The well was cased and suspended.							
<b>Hole and Casing Design (Drillers Depths)</b>							
<b>Type</b>	<b>Hole</b>	<b>Depth (mRT)</b>	<b>Casing</b>	<b>Shoe (mRT)</b>	<b>Shoe (TVDRT)</b>	<b>Hole Size</b>	<b>Mud Type</b>
Conductor	17"	10.35	14"	10.00	10.00	17"	Not recorded
Surface	12 1/4"	65.57	9 5/8"	64.27	64.27	12 1/4"	Gel Based
Production	8 1/2"	634.77	7"	597.33	597.33	17"	Water and native clays
Refer to Figure 2 for Well Schematic Diagram							
<b>Stratigraphy - Formation Tops (Loggers Depths)</b>							
<b>Formation</b>	<b>Depth</b>			<b>Formation Evaluation</b>		<b>Depth Interval</b>	
	<b>MD (mRT)</b>	<b>TVD (mRT)</b>	<b>TVD (mGL)</b>	<b>Run</b>	<b>Measurement</b>	<b>From</b>	<b>To</b>
Gubberamunda Sandstone	4.00	4.00	0.00	1	GR-MAI-MFE-MSS-MPD-MDN-MML	634.14	5.00
Westbourne Formation	96.76	96.76	92.76				
Norwood Mudstone	182.32	182.32	178.32				
Springbok Sandstone	205.78	205.78	201.78				
Walloon Subgroup Juandah Coal Measures	281.19	281.19	277.19				
Walloon Subgroup Tangalooma Sandstone	482.13	482.13	478.13				
Walloon Subgroup Taroom Coal Measures	513.53	513.53	509.53				
Walloon Subgroup Durabilla Formation	603.85	603.85	599.85				
<b>Mud Logging</b>				<b>Formation Testing</b>			
Cuttings were monitored at 10m intervals from 65m to TD. Samples were not retained.				None			
<b>Coring</b>				<b>Under-Reaming</b>			
None				A total of 27.50m of the Juandah and Taroom Coal Measures were under-reamed with a 16" under-reamer.			
<b>Completion</b>							
Cased with 7" casing from surface to the top of the ECP at 284.50mRT, and 7" plain and pre-perforated casing from the base of the ECP at 287.55mRT.							
<b>Other Information / Remarks</b>							



# Mud Map from Miles to Berwyndale #45, #51, #57 & #89



- Well location
- Route to Town
- Railway
- Principal Road
- Secondary Road
- Minor Road
- Track
- Built Up Area

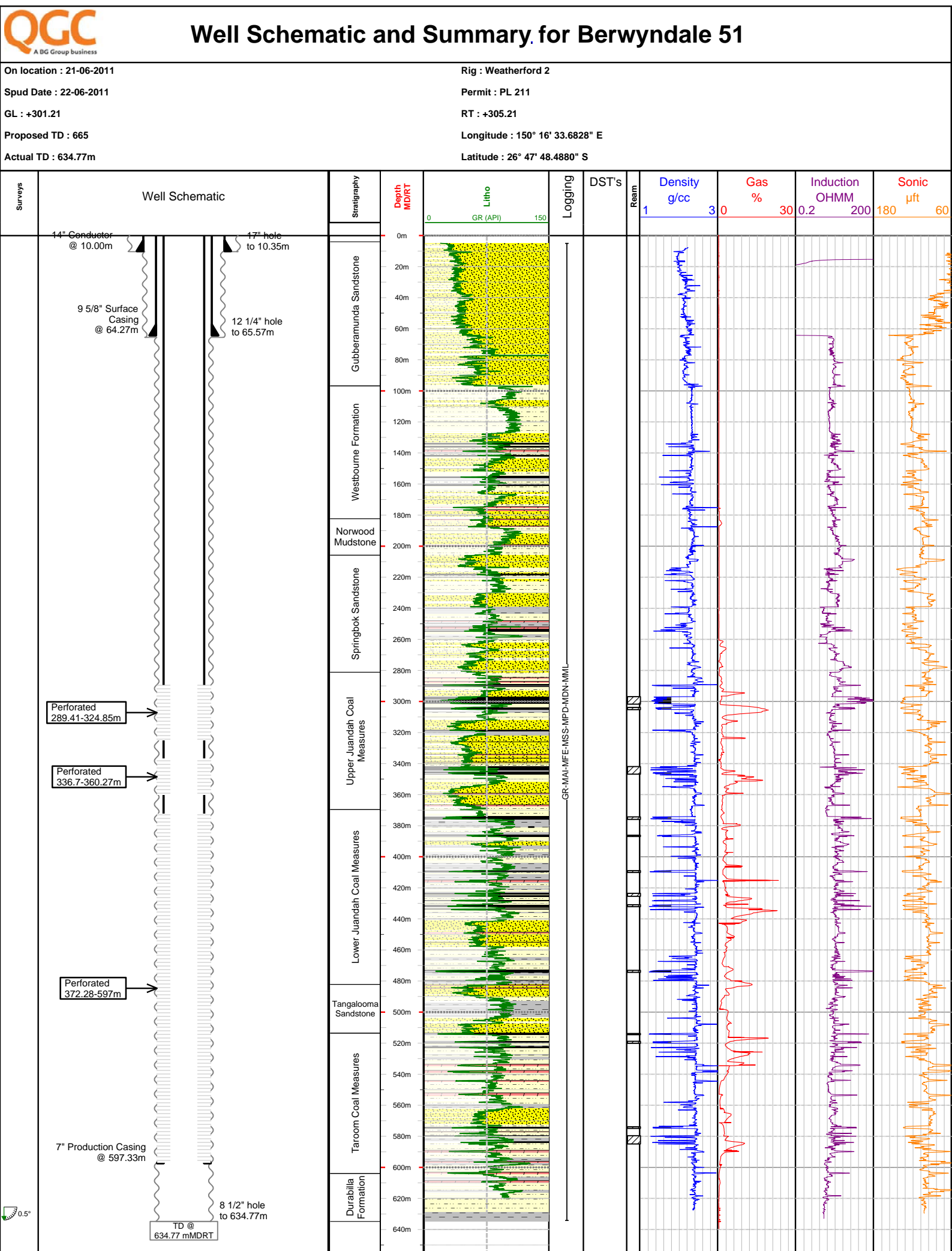


**DATA SOURCE:** DCDB - DERM, Roads, Rivers, Towns - GA  
**PLAN REF:** XXXX-XXXX-XXXX-XXXX Rev A

Note: Every effort has been made to ensure this information is spatially accurate. The location of this information should not be relied on as the exact field location. The user of this data agrees to indemnify the State of Queensland (Department of Environment and Protection Management) 2011. In consideration of this State providing use of this data you acknowledge and agree that the State does not warrant in relation to this data (including accuracy, reliability, completeness, currency or suitability) and accepts no liability (including without limitation, liability in negligence) for any loss, damage or cost (including consequential damage) resulting from any use of this data. Data should not be relied for critical decision making or for use in breach of the privacy laws.

**DATE:** 30/05/2011 **MAP NO:** M\_06792\_01  
**CREATED BY:** MB **MAP TYPE:** v3MUD **REV NO:** A

FIGURE 2 - WELL SCHEMATIC AND SUMMARY



4 DRILLING DATA

4.1 Drill Bit Record

Bit Number	Size	Make	Type	Serial No.	In (mRT)	Out (mRT)	Meters	Hours	ROP (m/hr)	Bit Dull Grading
1	12 1/4"	GeoDiamond	PDC	ER1814	10.35	65.57	55.22	2.50	22.10	1-1-WT-A-X-1-CT-TD
2	8 1/2"	GeoDiamond	PDC	ER20330	65.57	634.77	569.20	18.50	30.80	Not recorded

4.2 Drilling Mud Data

Top (mRT)	Base (mRT)	Bit Size	Mud Type	Mud Weight	Viscosity	Additives
10.35	65.57	12 1/4"	Gel Base	8.5	40	KCL Bentonite
65.57	634.77	8 1/2"	Water and Native Clays	8.7 - 8.9	30 - 34	None

4.3 Deviation / Surveys

Depth	INC	AZI	TVDRT	TVDSS
mMDRT	deg (°)	deg (°)	m	M
625.54	0.50	Not applicable	625.53	634.70

4.4 Under-Reaming

Under-Reaming (mRT)				
Coal Measures	From (m)	To (m)	Diameter	Thickness (m)
Juandah Coal Measures	296.90	301.70	16"	4.80
	303.80	305.20		1.40
	341.90	346.80		4.90
	374.30	375.90		1.60
	386.10	386.90		0.80
	408.90	410.10		1.20
	423.50	425.40		1.90
	430.90	432.10		1.20
	473.10	474.40		1.30
	513.80	514.50		0.70
Taroom Coal Measures	518.80	520.10	1.30	
	573.80	574.90	1.10	
	579.60	584.90	5.30	

4.5 Perforations

Perforations			
Top (m MDRT)	Base (m MDRT)	Net Pay	Comments
289.41	324.85	7.08	Pre-perforated
336.70	360.27	3.43	Pre-perforated
372.28	597.00	16.11	Pre-perforated

4.6 Casing and Cementing

Casing					
Casing Interval	OD	Shoe mMDRT	Wt	Grade	Thread
Conductor	14"	10.00	Not recorded		
Surface	9 5/8"	64.27	36lbs/ft	K55	BTC
Production	7"	597.33	23lbs/ft	K55	BTC

Cementing							
Interval	Class	Slurry Volume (bbls)	Weight (ppg)	Additives	Displacement Water Volume (bbls)	Cement Returns Volume (bbls)	Cemented By
Surface	A	31.45	14.0	Not recorded	14.48	Cement returns observed at surface	Wagners Pty Ltd
Production	A	30.40	15.6	CaCl <sub>2</sub> – 132lbs Defoamer – 1gal	37.5	4.0	Halliburton Pty Ltd

Refer to Appendix 7 for Cementing Report

Cement Plugs
None

5 GEOLOGY AND EVALUATION

5.1 Surat Basin Setting

The Surat Basin is a large intracratonic basin of Mesozoic age covering approximately 300,000km<sup>2</sup> of south-eastern Queensland and northern New South Wales. The basin forms part of the larger Great Australian Basin, and interfingers westward across the Nebine Ridge with the Eromanga Basin, and eastward across the Kumbarilla Ridge with the Clarence-Moreton Basin. Basement blocks consisting of the Central West Fold Belt and the New England Fold Belt limit the basin to the south, while in the north the basin has been eroded and unconformably overlies Triassic and Permian sediments of the Bowen Basin. The Surat Basin contains up to 2500m of sedimentary rocks deposited during the Latest Triassic to Early Cretaceous periods (Figure 3). The Latest Triassic to Earliest Cretaceous succession in the basin consists of five fining-upwards sedimentary cycles dominated by fluvio-lacustrine deposits. The lower part of each cycle typically comprises coarse-grained mature sandstone, grading up into more labile sandstone and siltstone, mudstone and coal in the upper part. In the Cretaceous, inundation of the land through an increase in sea level led to deposition of predominantly coastal plain and shallow marine sediments in two cycles.

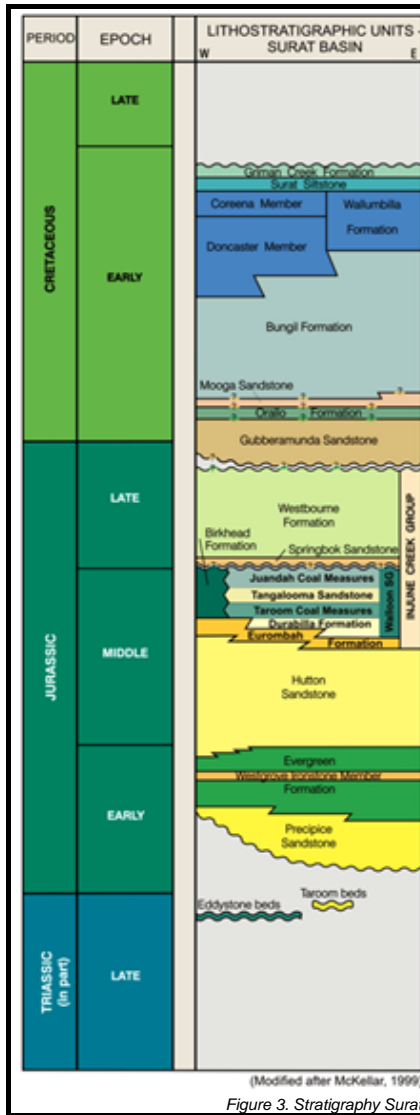


Figure 3. Stratigraphy Surat Basin

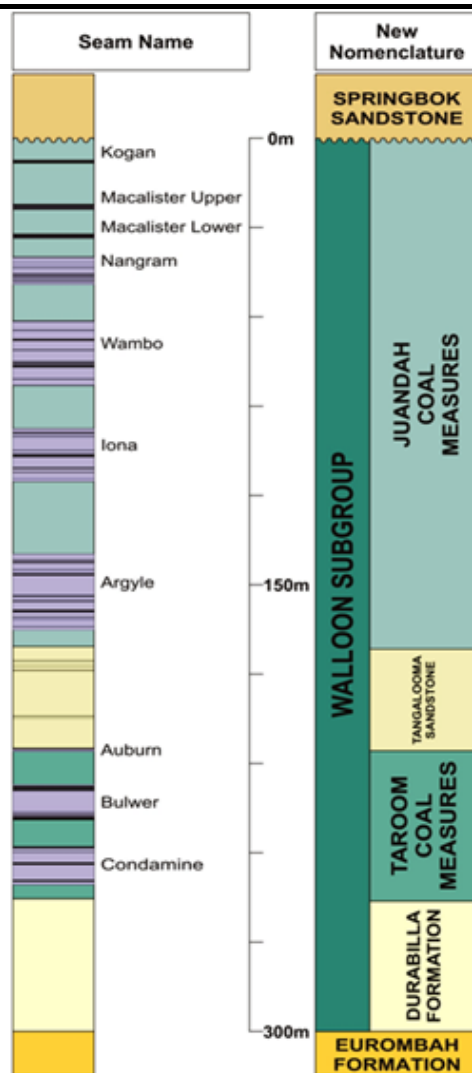


Figure 4. Stratigraphy - Walloon Subgroup

Structurally the Surat Basin is relatively simple, with the area of maximum deposition, the Mimosa Syncline, overlying the thickest Permian-Triassic rocks in the Taroom Trough of the underlying Bowen Basin. Major faulting within the basin predominantly mirrors basal boundary faults of the underlying Bowen Basin. There is substantial folding across the basin, which is due to compaction and draping, as well as some rejuvenation of older pre-Jurassic structures and faults. Formations outcrop along the northern erosional boundary and dip gently to the south and southwest at less than 5°.

The middle Jurassic Walloon Subgroup forms part of the Injune Creek Group and is developed throughout the Surat Basin, ranging in thickness from less than 50m to greater than 700m. It comprises very-fine to medium grained, argillaceous sandstone, siltstone, mudstone and coal with minor calcareous sandstone, impure limestone and ironstone. In the northeast Surat Basin, the formation divided into the Taroom Coal Measures, Tangalooma Sandstone and Juandah Coal Measures.

The Juandah Coal Measures generally comprises six named coal groups or seams. In descending stratigraphic order these are the Kogan, Macalister, Nangram, Wamba, Iona and Argyle Seams (Figure 4). The Macalister Seam can occur as two distinctive intervals and have been informally referred to as the Macalister Upper and Macalister Lower Seams by QGC. The Taroom Coal Measures generally comprises three coal groups or seams, informally referred to by QGC as the Auburn, Bulwer and Condamine Seams. The section of the Walloon Subgroup beneath the Taroom Coal Measures is defined by QGC as the Durabilla Formation, from exploration work by QGC.

#### References

SCOTT, S., ANDERSON, B., CROSDALE, P., DINGWALL, J. AND LEBLANG G., 2004: Revised geology and coal seam gas characteristics of the Walloon Subgroup - Surat Basin, Queensland. In: Boulton, P.J., Johns, D.R. and Lang, S.C. (Eds), Eastern Australasian Basins Symposium II, Petroleum Exploration Society of Australia, Special Publication, 345-355.

## 5.2 Stratigraphic Units Drilled

Stratigraphic Units Drilled					
Age	Unit	Depth (m MDRT)	Depth (m TVDSS)	Thickness (m)	Net Coal (m)
Late Jurassic	Gubberamunda Sandstone	4.00	305.21	92.76	0.00
Late Jurassic	Westbourne Formation	96.76	212.45	85.56	1.54
Late Jurassic	Norwood Mudstone	182.32	126.89	23.46	0.00
Late Jurassic	Springbok Sandstone	205.78	103.43	75.41	2.76
Middle Jurassic	Walloon Subgroup Juandah Coal Measures	281.19	28.02	200.94	20.74
Middle Jurassic	Walloon Subgroup Tangalooma Sandstone	482.13	-172.92	31.40	0.12
Middle Jurassic	Walloon Subgroup Taroom Coal Measures	513.53	-204.32	90.32	5.76
Middle Jurassic	Walloon Subgroup Durabilla Formation	603.85	-294.64	-	0.00
TD		634.77	-325.56		

## 5.3 Mudlogging

Ditch gas was monitored and recorded constantly from a gas trap via a Pason gas detection system. The Pason data is recorded and presented in the Wellsite Lithology Log (Appendix 5) and Final Composite Log (Appendix 4). Ditch cuttings were monitored from 65mRT to total depth and described as required. Washed and dried samples were not retained. Cuttings descriptions are recorded in the Wellsite Lithology Log (Appendix 5) and Final Composite Log (Appendix 4).

## 5.4 Wireline Logs

Run	Date	Measurement	From (mRT)	To (mRT)	Max Rec. Temp °c	Contractor
1	24-06-2011	GR-MAI-MFE-MSS-MPD-MDN-MML	634.14	5.00	41°C BHT, 5 hours 10 minutes after last circulation	Weatherford

## 5.5 Formation Test

None



## **LIST OF APPENDICES**

- Appendix 1      Survey Location Plan
  - Appendix 2      Daily Drilling Reports
  - Appendix 3      Daily Geological Reports
  - Appendix 4      Composite Log
  - Appendix 5      Lithology Log
  - Appendix 6      Pason Log
  - Appendix 7      Cementing Report
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## **LIST OF ENCLOSURES**

- Enclosure 1      Wireline Log Data (LAS Format)
- Enclosure 2      Wireline Log Prints

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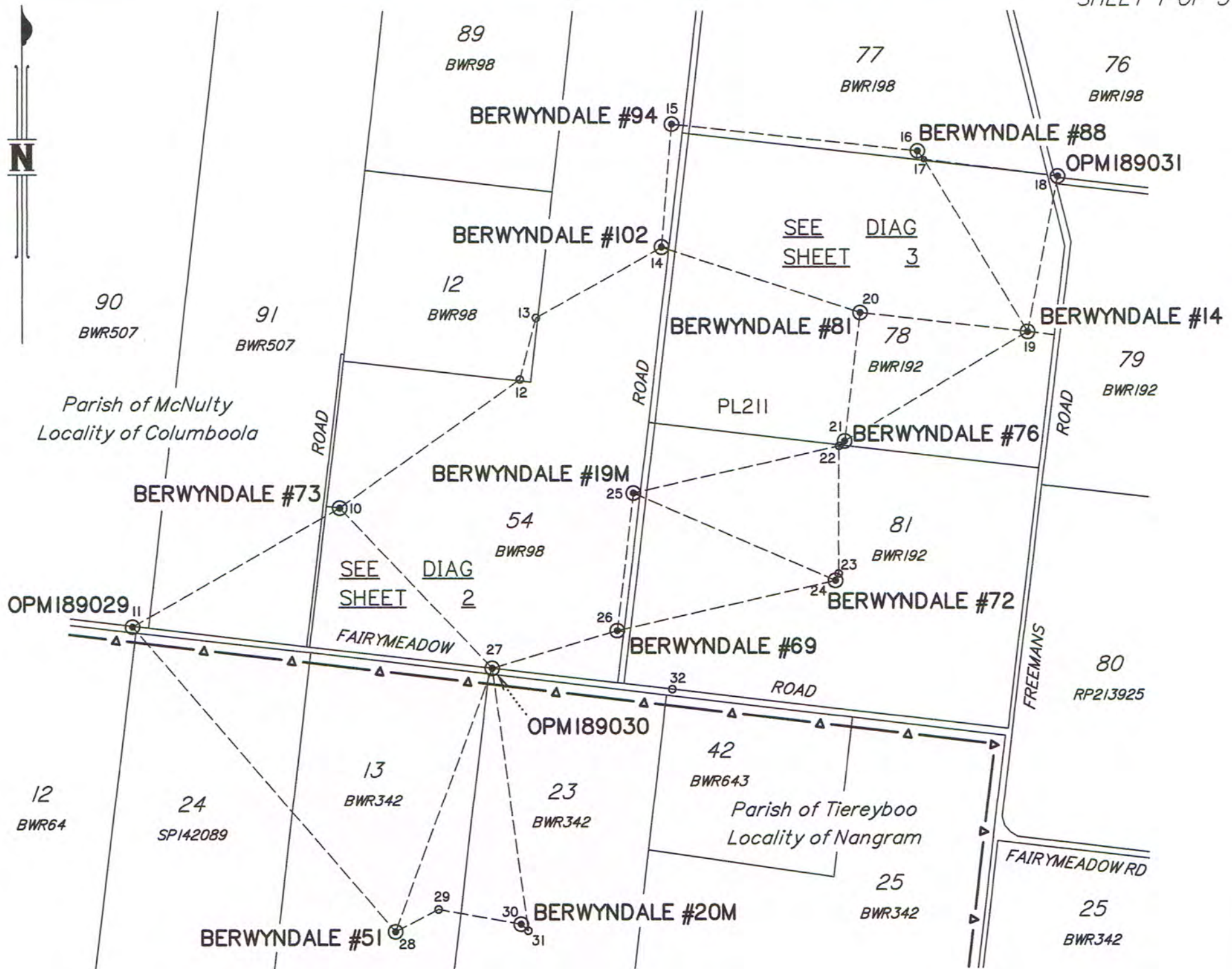
**APPENDIX 1**

**SURVEY LOCATION PLAN**

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DISTANCES ARE GRID.

Co-ordinates and Levels obtained by RTK GPS traverse from OPMI89029

Bench Marks are deep driven Iron Star Pickets with Witness posts

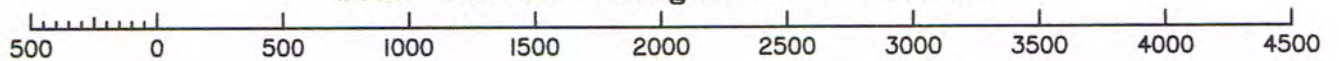
DERIVED M.G.A. CO-ORDINATES (GDA-94)

STN	DESCRIPTION	EASTING	NORTHING	ZONE
10	BERWYNDALE #73	228 850.722	7 035 838.991	56
11	OPMI89029	227 551.726	7 035 090.748	56
12	BERWYNDALE #73 BMI	229 981.172	7 036 649.011	56
13	BERWYNDALE #102 BMI	230 083.081	7 037 037.219	56
14	BERWYNDALE #102	230 870.339	7 037 481.684	56
15	BERWYNDALE #94	230 935.074	7 038 259.013	56
16	BERWYNDALE #88	232 474.911	7 038 088.096	56
17	BERWYNDALE #88 BMI	232 516.145	7 038 034.997	56
18	OPMI89031	233 353.777	7 037 928.76	56
19	BERWYNDALE #14	233 162.74	7 036 950.552	56
20	BERWYNDALE #81	232 115.14	7 037 070.744	56
21	BERWYNDALE #76	232 014.632	7 036 263.312	56
22	BERWYNDALE #76 BMI	231 978.371	7 036 232.181	56
23	BERWYNDALE #72 BMI	231 974.58	7 035 425.839	56
24	BERWYNDALE #72	231 955.344	7 035 382.498	56
25	BERWYNDALE #19M	230 690.489	7 035 932.296	56
26	BERWYNDALE #69	229 522.373	7 035 063.377	56
27	OPMI89030	229 805.349	7 034 824.879	56
28	BERWYNDALE #51	229 195.069	7 033 166.883	56
29	BERWYNDALE #51 BMI	229 463.678	7 033 306.441	56
30	BERWYNDALE #20M	229 981.456	7 033 213.472	56
31	BERWYNDALE #20M BMI	230 026.014	7 033 171.9	56

GEOGRAPHIC CO-ORDINATES (GDA-94)

STN	DESCRIPTION	LATITUDE	LONGITUDE
10	BERWYNDALE #73	S 26°46'21.4928"	E 150°16'23.2997"
14	BERWYNDALE #102	S 26°45'29.5601"	E 150°17'37.6170"
15	BERWYNDALE #94	S 26°45'04.3668"	E 150°17'40.5563"
16	BERWYNDALE #88	S 26°45'10.9764"	E 150°18'36.1140"
19	BERWYNDALE #14	S 26°45'48.3823"	E 150°19'00.1220"
20	BERWYNDALE #81	S 26°45'43.7606"	E 150°18'22.3232"
21	BERWYNDALE #76	S 26°46'09.9071"	E 150°18'18.0689"
24	BERWYNDALE #72	S 26°46'38.4644"	E 150°18'15.2486"
25	BERWYNDALE #19M	S 26°46'19.7406"	E 150°17'29.9185"
26	BERWYNDALE #69	S 26°46'47.8816"	E 150°17'25.5547"
28	BERWYNDALE #51	S 26°47'48.4880"	E 150°16'33.6828"
30	BERWYNDALE #20M	S 26°47'47.5223"	E 150°17'02.1695"

Scale 1:30000 - Lengths are in Metres.



Corners and boundaries have not been reinstated. Connections have been made to the marks shown on this plan only

I, Craig Allen Scutchings hereby certify that I have/We Company has surveyed the location of the petroleum well as shown on this plan, that the survey was performed in accordance with the Petroleum and Gas (Production and Safety) Act 2004 and associated Regulations and Standards and achieves the accuracies of the Standards and the survey was completed on 21/08/2011.

Signature of Surveyor: *[Signature]* Date: 16/9/2011

LOCALITY NANGRAM & COLUMBOOLA		MINING RESOURCES PLAN OF P.WLS of BERWYNDALE #14, 19M, 20M, 51, 69, 72, 73, 76, 81, 88, 94 & 102	
Approx. LAT. S 26°46'38" LONG. E 150°18'15"		PARISH TIEREYBOO & MCNULTY	
FIELD NOTES LODGED		COUNTY Bulwer	
DRAWN BY AL		MINING DISTRICT Dalby	
MERIDIAN		SCALE	MP
41056-3-1 to 41056-15-1		1:30000	
MGA Zone 56 By GPS			

CATALOGUED APPROVED REGISTERED Chief Surveyor

MP

MP

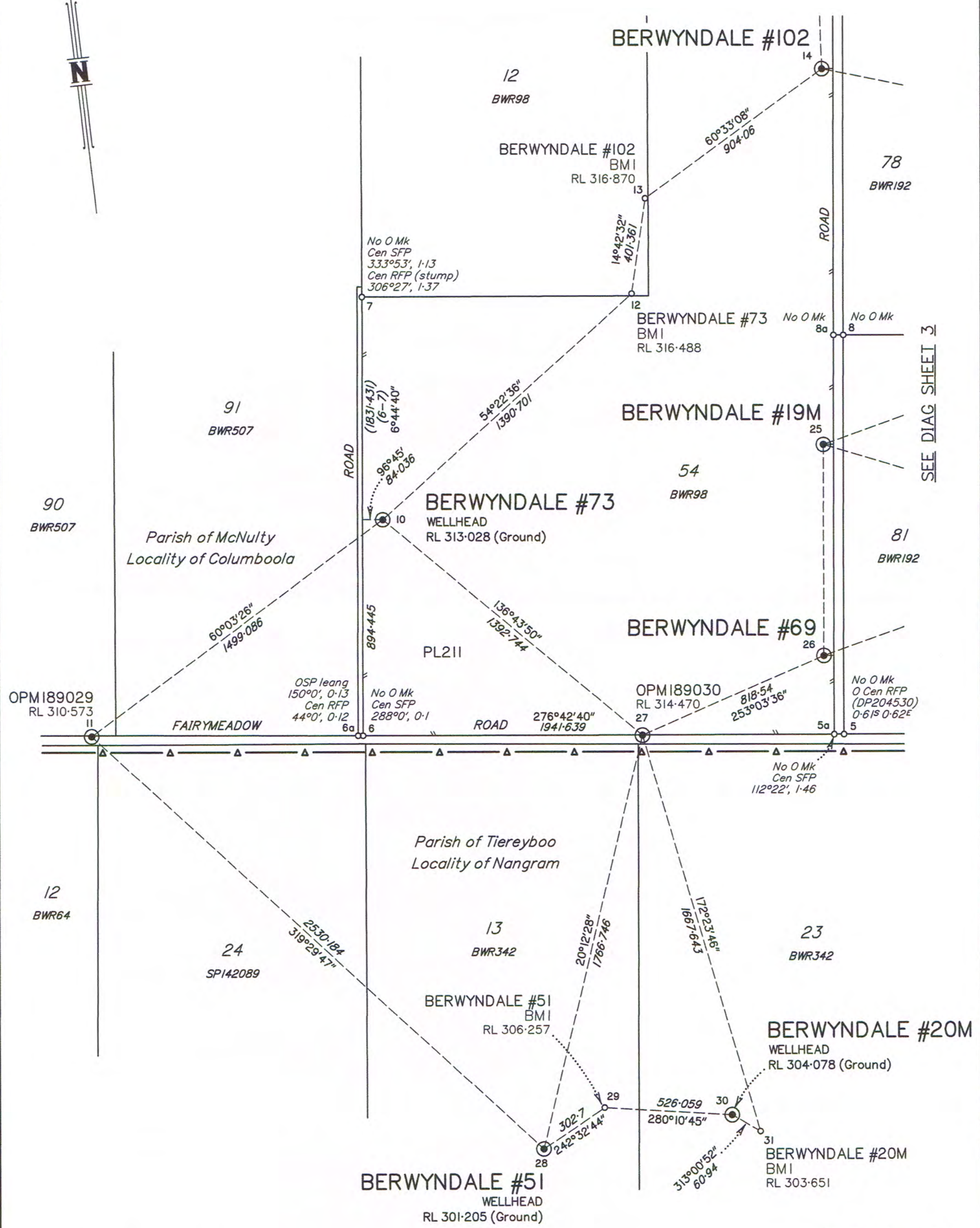


DIAGRAM  
Not to Scale

SHEET 2 OF 3

MP

MP

MP

TRAVERSES ETC

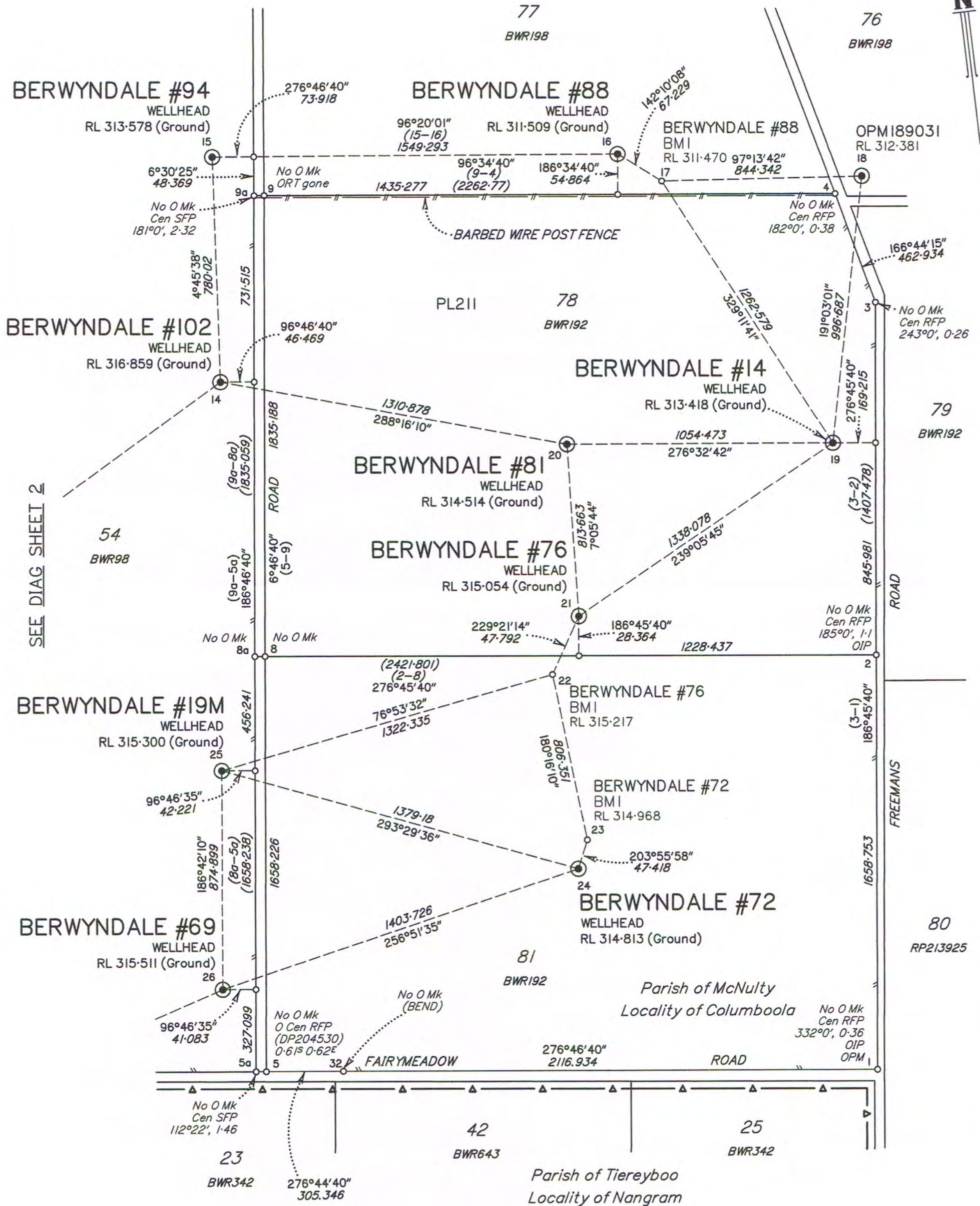
LINE	BEARING	DISTANCE
5-5a	276°44'40"	40.251
6-6a	276°45'40"	20.126
8-8a	276°45'40"	40.251
9-9a	276°34'40"	40.251

REFERENCE MARKS

STN	TO	ORIGIN	BEARING	DIST
1	OIP	IS206353	87°06'	1.099
2	OIP	RP213925	109°32'40"	1.22
9	ORT gone	BWR192	101°23'	9.499

PERMANENT MARKS

PM	ORIGIN	BEARING	DIST	NO
1-OPM	IS206353	213°55'	0.403	168603



SEE DIAG SHEET 2

DIAGRAM  
Not to Scale

MP

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**APPENDIX 2**  
**DAILY DRILLING REPORTS**

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**DAILY DRILLING REPORT**  
Berwyndale\_51

**TRC: 1491.00**  
Report Start Date: 20/06/2011  
Report #: 1  
Days From Spud: -1.29

UWI 100000718516	Well PID BER_WH051	Tenure PL 211	Field Name Berwyndale	State/Province Queensland	Country AUS
Well Type Development	Well Configuration Type Vertical	Spud Date 22/06/2011 07:00	Rig Release Date 25/06/2011 16:00	Job Start Date 20/06/2011 07:00	Job End Date 26/06/2011 07:00

<b>JOB DETAILS</b>					
AFE Number 01	Total AFE + Supp Amount (Cost) 767,448.00	Daily Field Est Total (Cost) 162,200.05	Cum Field Est To Date (Cost) 162,200.05	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
Target Formation	Cum Time Log Days (days) 0.71	Problem Time Hours (hr) 6.00	Cum Problem Time Hours (hr) 6.00	Percent Problem Time (%) 35.29	Cum Percent Problem Time (%) 35.29

<b>DAILY OPERATIONS</b>					
Most Likely Duration (no plan ch...) 4.35	Original KB/RT Elevation (m) 312.00	Ground Elevation (m) 308.00	KB-Ground Distance (m) 4.00	Latitude (°) 26° 47' 48.516" S	Longitude (°) 150° 16' 33.614" E
Rig (Names) Weatherford 2	Planned TD (mKB) 665.00	TD (max) (mKB) 634.77	End Depth (m...) 0.00	Depth Progress (m)	Weather Fine / Sunny

<b>HSSE</b>	
Days Since Lost Time Incident (days) 1491.00	Days Since Recordable Incident (days) 10.00
Type	Number of Reports

<b>SAFETY CHECK SUMMARY</b>			
Type	Last Date	Days Last Chk (days)	Next Date
BOP Drill			
Camp Move Safety Meeting	20/06/2011	0	6/07/2011
Hazard Hunt			
Pre move safety Meeting			
Pre Spud Safety Meeting			
Pre Tour safety Meeting			
Pre Tour Safety Meeting			
Rig Move Safety Meeting			
Toolbox Talk	20/06/2011	0	21/06/2011
Weekly safety meeting			

<b>DAILY CONTACTS</b>		
Contact Name	Title	Mobile
Paul Kuhn	DSV	0408 766 652

<b>POB</b>		
Company	Job Title	Count

**DAILY REPORT**  
Last 24hr Op's Summary  
Load out camp & wash each load prior to loading onto trailer for weed hygiene, Camp move is 99.4Km's Shool bus route curfew 07:00 to 09:00hrs, spot and rig up camp on Berwyndale #51 site, Wait on Daylight  
Summary 00:00 - 06:00  
Waiting on daylight  
Planned Op's  
Hold Pre-move safety meeting with mansells transport to move Rig from Jammat #5 to Berwyndale #51

<b>HOURLY OPERATIONS SUMMARY 00:00 TO 24:00</b>							
Start Time	End Time	Dur (hr)	Class	NPT (hr)	Phase	Op	Act Desc
07:00	18:00	11.00	P		RMI	RM	Load out camp & wash each load prior to loading onto trailer for weed hygiene, Camp move is 99.4Km's Shool bus route curfew 07:00 to 09:00hrs, spot and rig up camp on Berwyndale #51 site, Wait on Daylight
18:00	00:00	6.00	TP	6.00	RMI	WOD	Wait on daylight (Waiting for location to be completed, cellar installed with conductor drilled and cemented)

<b>CASING STRINGS</b>		
Csg Des	OD (in)	SD (mKB)
Conductor	14	10.00

<b>MUD PROPERTIES</b>				
Mud Type	Time	Depth (mKB)	Weight (lb/gal)	Funnel Viscosity (s/qt)

<b>MUD USED</b>						
Des	Units	Vendor	Rec	Consumed	On Loc	Daily Field Est (Cost)
Bentonite	sacks	BG Group	74.0	0.0	74.0	
Potassaim Chloride	sacks	BG Group	48.0	0.0	48.0	

<b>MUD PUMP</b>			
<b># 1, Oilwell, 214-P</b>			
Pump Rating (hp) 500.0	Rod Diameter (in) 2.2441	Stroke Length (in) 14.02	
Liner Size (in) 6 1/2	Volume Per Stroke Override (bbl/stk)		0.177
Pressure (psi)	Slow Speed Check?	Strokes (spm)	Volumetric Efficiency (%)



**DAILY DRILLING REPORT**  
Berwyndale\_51

**TRC: 1491.00**  
Report Start Date: 20/06/2011  
Report #: 1  
Days From Spud: -1.29

FORMATIONS (LAST 5)		
Formation Name	Prog Top MD (mKB)	Drill Top MD (mKB)

JOB SUPPLIES						
Supply Item Des	Unit Label	Loc	Vendor	Received	Consumed	Cum On Loc
Diesel Fuel	L	Rig	Caltex	7,230.0	0.0	7,230.0
Potable Water	L	Rig	Dan Cross	1,850.0	0.0	1,850.0
Rig Water	L	Rig	Mansells Transport	5,000.0	0.0	5,000.0

DRILL STRING AND BIT INFORMATION						
BHA #<stringno>, <des>						
Bit Run	Size (in)	Make	Model	IADC Codes	Serial Number	Length (m)
Nozzles (1/32")		Bit Total Fluid Area (nozzles) (in²)		IADC Bit Dull		
Drill String Length (m)		BHA Weight in Air (1000lbf)		BHA ROP (m/hr)		
String Components						

DRILLING PARAMETERS							
Wellbore	Start Depth (mKB)	End Depth (mKB)	Cum Depth Drilled (m)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (m/hr)	Flow Rate (gpm)
Weight on Bit (1000lbf)	Surface RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque (ft•lb)	Off Bottom Torque (ft•lb)

ANNULAR VELOCITIES (DP & DC)							
Inner Bound	Sz Inner Bound (in)	Outer Boundary	Sz Outer Bound (in)	Top (mKB)	Btm (mKB)	AV (m/min)	

SURVEY DATA				
Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)

UNDERREAMING INTERVALS			
Top (mKB)	Btm (mKB)	OD (in)	Com





# DAILY DRILLING REPORT

Berwyndale\_51

**TRC: 1492.00**

Report Start Date: 21/06/2011

Report #: 2

Days From Spud: -0.29

UWI 100000718516	Well PID BER_WH051	Tenure PL 211	Field Name Berwyndale	State/Province Queensland	Country AUS
Well Type Development	Well Configuration Type Vertical	Spud Date 22/06/2011 07:00	Rig Release Date 25/06/2011 16:00	Job Start Date 20/06/2011 07:00	Job End Date 26/06/2011 07:00

<b>JOB DETAILS</b>					
AFE Number 01	Total AFE + Supp Amount (Cost) 767,448.00	Daily Field Est Total (Cost) 33,188.44	Cum Field Est To Date (Cost) 195,388.49	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost)
Target Formation	Cum Time Log Days (days) 1.71	Problem Time Hours (hr) 12.50	Cum Problem Time Hours (hr) 18.50	Percent Problem Time (%) 52.08	Cum Percent Problem Time (%) 45.12

<b>DAILY OPERATIONS</b>					
Most Likely Duration (no plan ch...) 4.35	Original KB/RT Elevation (m) 312.00	Ground Elevation (m) 308.00	KB-Ground Distance (m) 4.00	Latitude (°) 26° 47' 48.516" S	Longitude (°) 150° 16' 33.614" E
Rig (Names) Weatherford 2	Planned TD (mKB) 665.00	TD (max) (mKB) 634.77	End Depth (m...) 0.00	Depth Progress (m)	Weather Fine / Sunny

<b>HSSE</b>					
Days Since Lost Time Incident (days) 1492.00			Days Since Recordable Incident (days) 11.00		
Type				Number of Reports	

<b>SAFETY CHECK SUMMARY</b>			
Type	Last Date	Days Last Chk (days)	Next Date
BOP Drill			
Camp Move Safety Meeting	20/06/2011	1	6/07/2011
Hazard Hunt			
Pre move safety Meeting			
Pre Spud Safety Meeting			
Pre Tour safety Meeting	21/06/2011	0	22/06/2011
Pre Tour Safety Meeting			
Rig Move Safety Meeting	21/06/2011	0	26/06/2011
Toolbox Talk	21/06/2011	0	22/06/2011
Weekly safety meeting			

<b>DAILY CONTACTS</b>		
Contact Name	Title	Mobile
Paul Kuhn	DSV	0408 766 652

<b>POB</b>		
Company	Job Title	Count

**DAILY REPORT**  
Last 24hr Op's Summary  
Wait on daylight, Hold Pre-move safety meeting with Mansells transport drivers, Weatherford personnel & QGC Rep,

Wash down and load out forklift, Sub-base, pony base, Rig Toilet, cement blocks x 4, Co-mans shack, fuel trailer, mud tank, 3 x light plants, dog house, mud pump, pipe racks, 1 x light plant, Rig mangers office, Rig managers shack, 4 x QGC baskets, 4 x pallets chemicals, 2 x Junk skid, mechanic shack, tool shack, Casing, drill collars, day tank, loader Bucket First load left Jammatt #5 @ 09:00hrs due to shool bus curfew

Last load arrived Berwyndale #51 @ 16:00hrs, Spotted sub-base @ 10:45hrs, spotted pony base, mud tank, drive carrier on, raised mast, spot dog house, mud pump, co-mans shack, rig managers shack, rig managers office, mechanic shack, tool shack, 4 x QGC baskets, rig toilet, Gen trailer, pipe trailer, day tank, rig up rig floor.

Crews out of hours crew will be back @ 00:00hrs

Summary 00:00 - 06:00  
Continue to rig up in preparation to spud, rig up koomey control lines, mud tank, mud pump, Gen trailer, run air lines, ESD cables, electric cables, fill mud tank with water & mix spud mud, load drill collars, instal riser & flow line strap BHA, strap 9 5/8" casing,

Planned Op's  
Drill 12 1/4" hole to 66m, circulate hole clean, Wiper trip, POOH to run 9 5/8" casing, cement casing with wagners

<b>HOURLY OPERATIONS SUMMARY 00:00 TO 24:00</b>							
Start Time	End Time	Dur (hr)	Class	NPT (hr)	Phase	Op	Act Desc
00:00	06:30	6.50	TP	6.50	RMI	WOD	Wait on daylight
06:30	07:00	0.50	P		RMI	SM	Hold Pre-move safety meeting with Mansells transport drivers, Weatherford personnel & QGC Rep
07:00	14:00	7.00	P		RMI	RM	Wash down and load out forklift, Sub-base, pony base, Rig Toilet, cement blocks x 4, Co-mans shack, fuel trailer, mud tank, 3 x light plants, dog house, mud pump, pipe racks, 1 x light plant, Rig mangers office, Rig managers shack, 4 x QGC baskets, 4 x pallets chemicals, 2 x Junk skid, mechanic shack, tool shack, Casing, drill collars, day tank, loader Bucket First load left Jammatt #5 @ 09:00hrs due to shool bus curfew,
14:00	18:00	4.00	P		RMI	RU	Last load arrived Berwyndale #51 @ 16:00hrs, Spotted sub-base @ 10:45hrs, spotted pony base, mud tank, drive carrier on, raised mast, spot dog house, mud pump, co-mans shack, rig managers shack, rig managers office, mechanic shack, tool shack, 4 x QGC baskets, rig toilet, Gen trailer, pipe trailer, day tank, rig up rig floor.
18:00	00:00	6.00	TP	6.00	RMI	WOP	Crews out of hours crew will be back @ 00:00hrs

<b>CASING STRINGS</b>		
Csg Des	OD (in)	SD (mKB)
Conductor	14	10.00



**DAILY DRILLING REPORT**  
Berwyndale\_51

**TRC: 1492.00**  
Report Start Date: 21/06/2011  
Report #: 2  
Days From Spud: -0.29

MUD PROPERTIES				
Mud Type	Time	Depth (mKB)	Weight (lb/gal)	Funnel Viscosity (s/qt)

MUD USED						
Des	Units	Vendor	Rec	Consumed	On Loc	Daily Field Est (Cost)
Bentonite	sacks	BG Group	96.0	0.0	170.0	
Potassaim Chloride	sacks	BG Group	48.0	0.0	96.0	

MUD PUMP			
<b># 1, Oilwell, 214-P</b>			
Pump Rating (hp)	500.0	Rod Diameter (in)	2.2441
Liner Size (in)	6 1/2	Stroke Length (in)	14.02
Pressure (psi)		Volume Per Stroke Override (bbl/stk)	0.177
Slow Speed Check?		Strokes (spm)	Volumetric Efficiency (%)

FORMATIONS (LAST 5)		
Formation Name	Prog Top MD (mKB)	Drill Top MD (mKB)

JOB SUPPLIES						
Supply Item Des	Unit Label	Loc	Vendor	Received	Consumed	Cum On Loc
Diesel Fuel	L	Rig	Caltex	0.0	0.0	7,230.0
Potable Water	L	Rig	Dan Cross	2,500.0	150.0	4,200.0
Rig Water	L	Rig	Mansells Transport	75,000.0	5,000.0	75,000.0

DRILL STRING AND BIT INFORMATION						
BHA #<stringno>, <des>						
Bit Run	Size (in)	Make	Model	IADC Codes	Serial Number	Length (m)
Nozzles (1/32")		Bit Total Fluid Area (nozzles) (in <sup>2</sup> )		IADC Bit Dull		
Drill String Length (m)		BHA Weight in Air (1000lbf)		BHA ROP (m/hr)		
String Components						

DRILLING PARAMETERS							
Wellbore	Start Depth (mKB)	End Depth (mKB)	Cum Depth Drilled (m)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (m/hr)	Flow Rate (gpm)
Weight on Bit (1000lbf)	Surface RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque (ft•lb)	Off Bottom Torque (ft•lb)

ANNULAR VELOCITIES (DP & DC)							
Inner Bound	Sz Inner Bound (in)	Outer Boundary	Sz Outer Bound (in)	Top (mKB)	Btm (mKB)	AV (m/min)	

SURVEY DATA				
Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)

UNDERREAMING INTERVALS			
Top (mKB)	Btm (mKB)	OD (in)	Com



**DAILY DRILLING REPORT**  
Berwyndale\_51

**TRC: 1493.00**  
Report Start Date: 22/06/2011  
Report #: 3  
Days From Spud: 0.71

UWI 100000718516	Well PID BER_WH051	Tenure PL 211	Field Name Berwyndale	State/Province Queensland	Country AUS
Well Type Development	Well Configuration Type Vertical	Spud Date 22/06/2011 07:00	Rig Release Date 25/06/2011 16:00	Job Start Date 20/06/2011 07:00	Job End Date 26/06/2011 07:00

<b>JOB DETAILS</b>					
AFE Number 01	Total AFE + Supp Amount (Cost) 767,448.00	Daily Field Est Total (Cost) 35,180.01	Cum Field Est To Date (Cost) 230,568.50	Daily Mud Field Est (Cost) 2,894.40	Cum Mud Field Est (Cost) 2,894.40
Target Formation	Cum Time Log Days (days) 2.71	Problem Time Hours (hr) 2.00	Cum Problem Time Hours (hr) 20.50	Percent Problem Time (%) 8.33	Cum Percent Problem Time (%) 31.54

<b>DAILY OPERATIONS</b>					
Most Likely Duration (no plan ch...) 4.35	Original KB/RT Elevation (m) 312.00	Ground Elevation (m) 308.00	KB-Ground Distance (m) 4.00	Latitude (°) 26° 47' 48.516" S	Longitude (°) 150° 16' 33.614" E
Rig (Names) Weatherford 2	Planned TD (mKB) 665.00	TD (max) (mKB) 634.77	End Depth (m...) 65.57	Depth Progress (m) 55.22	Weather Fine / Sunny

<b>HSSE</b>	
Days Since Lost Time Incident (days) 1493.00	Days Since Recordable Incident (days) 12.00
Type	Number of Reports

<b>SAFETY CHECK SUMMARY</b>			
Type	Last Date	Days Last Chk (days)	Next Date
BOP Drill			
Camp Move Safety Meeting	20/06/2011	2	6/07/2011
Hazard Hunt	22/06/2011	0	29/06/2011
Pre move safety Meeting			
Pre Spud Safety Meeting	22/06/2011	0	29/06/2011
Pre Tour safety Meeting	22/06/2011	0	23/06/2011
Pre Tour Safety Meeting	22/06/2011	0	23/06/2011
Rig Move Safety Meeting	21/06/2011	1	26/06/2011
Toolbox Talk	22/06/2011	0	27/06/2011
Weekly safety meeting			

<b>DAILY CONTACTS</b>		
Contact Name	Title	Mobile
Paul Kuhn	DSV	0408 766 652

<b>POB</b>		
Company	Job Title	Count

**DAILY REPORT**  
Last 24hr Op's Summary  
Continue to rig up in preparation to spud, rig up koomey control lines, mud tank, mud pump, Gen trailer, run air lines, ESD cables, electric cables, fill mud tank with water & mix spud mud, load drill collars, instal riser & flow line strap BHA, strap 9 5/8" casing, M/U 12 1/4" BHA, test mud pump, fill conductor check for leaks (ok). Pre-spud inpection, test ESD's (ok), Hazard hunt, Pre-spud safety meeting, Spud Berwyndale #51 Drill 12 1/4" hole f/- 10.35mkb to 18mKB, Stop drilling flow line blocked due to heavy clays, attempt to clean out, remove flow line clean out, extend riser for more slope, re-installed riser & flow line. Drill 12 1/4" hole f/- 18mKB to 65.57mKB, Circulate Hole clean, PJSM-Flow check, POOH for wiper trip, RIH to 65.57mKB (No Fill), Circulate hole clean, PJSM-Hoist to run 9 5/8" casing, PJSM-R/U run 9 5/8" casing, PJSM-RIH with 9 5/8" casing to 64.27mKB, PJSM-Cement 9 5/8" casing with Wagners, pump 31.45 bbls slurry @ 14ppg / 36sacks, displace with 82stks/14.48 bbls, 8.5ppg mud, cement returns observed before finishing pumping cement. Wait on cement, PJSM - Lay out landing joint, riser, install braden head, N/U BOP's, Function test, perform draw down test and pressure test (connection test only) 200psi/500psi 5mins/10mins, test surface lines 200psi/1200psi 5mins/10mins

Summary 00:00 - 06:00  
PJSM - Test surface lines 200psi/1200psi 5mins/10mins, Rig down pressure test equipment, M/U 8 1/2" BHA, RIH to 49.11m, wash down tag TOC @ 60.30mKB, PJSM - Drill cement shoe track f/- 60.30m to 65.57m, (tag shoe @ 64.27mKB), Drill 8 1/2" hole from 65.57m to 124.84m

Planned Op's  
Drill 8 1/2" hole to 665mKB +/-, Wiper trip, log, under ream, run 7" casing, cement casing, rig move

<b>HOURLY OPERATIONS SUMMARY 00:00 TO 24:00</b>							
Start Time	End Time	Dur (hr)	Class	NPT (hr)	Phase	Op	Act Desc
00:00	06:00	6.00	P		RMI	RU	Continue to rig up in preparation to spud, rig up koomey control lines, mud tank, mud pump, Gen trailer, run air lines, ESD cables, electric cables, fill mud tank with water & mix spud mud, load drill collars, instal riser & flow line strap BHA, strap 9 5/8" casing, M/U 12 1/4" BHA, test mud pump, fill conductor check for leaks (ok).
06:00	07:00	1.00	P		RMI	SM	Pre-spud inpection, test ESD's (ok), Hazard hunt, Pre-spud safety meeting
07:00	07:30	0.50	P		SH	RDR	Spud Berwyndale #51 Drill 12 1/4" hole f/- 10.35mkb to 18mKB
07:30	09:30	2.00	TP	2.00	SH	RO	Stop drilling flow line blocked due to heavy clays, attempt to clean out, remove flow line clean out, extend riser for more slope, re-installed riser & flow line.
09:30	11:30	2.00	P		SH	RDR	Drill 12 1/4" hole f/- 18mKB to 65.57mKB
11:30	11:45	0.25	P		SH	CIC	Circulate Hole clean
11:45	12:15	0.50	P		SH	WT	PJSM-Flow check, POOH for wiper trip, RIH to 65.57mKB (No Fill)
12:15	12:30	0.25	P		SH	CIC	Circulate hole clean
12:30	13:00	0.50	P		SC	TO	PJSM-Hoist to run 9 5/8" casing
13:00	13:30	0.50	P		SC	RRC	PJSM-R/U run 9 5/8" casing
13:30	14:00	0.50	P		SC	RC	PJSM-RIH with 9 5/8" casing to 64.27mKB



**DAILY DRILLING REPORT**  
Berwyndale\_51

**TRC: 1493.00**  
Report Start Date: 22/06/2011  
Report #: 3  
Days From Spud: 0.71

**HOURLY OPERATIONS SUMMARY 00:00 TO 24:00**

Start Time	End Time	Dur (hr)	Class	NPT (hr)	Phase	Op	Act Desc
14:00	14:45	0.75	P		SC	CMC	PJSM-Cement 9 5/8" casing with Wagners, pump 31.45 bbls slurry @ 14ppg / 36sacks, displace with 82stks/14.48 bbls, 8.5ppg mud, cement returns observed before finishing pumping cement.
14:45	18:45	4.00	P		SC	WOC	Wait on cement
18:45	20:00	1.25	P		BOP	RRC	PJSM - Salck off, Lay out landing joint, riser, install braden head
20:00	00:00	4.00	P		BOP	BOP	N/U BOP's, Function test, perform draw down test and pressure test (connection test only) 200psi/500psi 5mins/10mins

**CASING STRINGS**

Csg Des	OD (in)	SD (mKB)
Conductor	14	10.00
Surface Casing	9 5/8	64.27

**MUD PROPERTIES**

Mud Type	Time	Depth (mKB)	Weight (lb/gal)	Funnel Viscosity (s/qt)
Gel Base	10:30	37.63	8.50	40

**MUD USED**

Des	Units	Vendor	Rec	Consumed	On Loc	Daily Field Est (Cost)
Bentonite	sacks	BG Group	0.0	30.0	140.0	485.40
Potassaim Chloride	sacks	BG Group	0.0	60.0	36.0	2,409.00

**MUD PUMP**  
**# 1, Oilwell, 214-P**

Pump Rating (hp)	Rod Diameter (in)	Stroke Length (in)
500.0	2.2441	14.02
Liner Size (in)	Volume Per Stroke Override (bbl/stk)	
6 1/2	0.177	
Pressure (psi)	Slow Speed Check?	Strokes (spm)
		Volumetric Efficiency (%)

**FORMATIONS (LAST 5)**

Formation Name	Prog Top MD (mKB)	Drill Top MD (mKB)

**JOB SUPPLIES**

Supply Item Des	Unit Label	Loc	Vendor	Received	Consumed	Cum On Loc
Diesel Fuel	L	Rig	Caltex	0.0	1,480.0	5,750.0
Potable Water	L	Rig	Dan Cross	0.0	150.0	4,050.0
Rig Water	L	Rig	Mansells Transport	75,000.0	75,000.0	75,000.0

**DRILL STRING AND BIT INFORMATION**  
**BHA #1, Surface Hole**

Bit Run	Size (in)	Make	Model	IADC Codes	Serial Number	Length (m)
RR 1	12 1/4	GeoDiamond	MG066	S519	ER1814	0.25
Nozzles (1/32")	Bit Total Fluid Area (nozzles) (in²)	IADC Bit Dull				
24/24/24/24/24/24	3.09	1-1-WT-A-X-1-CT-TD				
Drill String Length (m)	BHA Weight in Air (1000lbf)	BHA ROP (m/hr)				
65.13	14	22.1				
String Components GeoDiamond MG066, Bit Sub w/Float, Drill Collar						

**DRILLING PARAMETERS**

Wellbore	Start Depth (mKB)	End Depth (mKB)	Cum Depth Drilled (m)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (m/hr)	Flow Rate (gpm)
Original Hole	10.35	65.57	55.22	2.50	2.50	22.1	482
Weight on Bit (1000lbf)	Surface RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque (ft*lb)	Off Bottom Torque (ft*lb)
3	120	240.0	32	32	32	1,560	120

**ANNULAR VELOCITIES (DP & DC)**

Inner Bound	Sz Inner Bound (in)	Outer Boundary	Sz Outer Bound (in)	Top (mKB)	Btm (mKB)	AV (m/min)

**SURVEY DATA**

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
22/06/2011 07:00	0.00	0.00	0.00	0.00

**UNDERREAMING INTERVALS**

Top (mKB)	Btm (mKB)	OD (in)	Com



**DAILY DRILLING REPORT**  
Berwyndale\_51

**TRC: 1494.00**  
Report Start Date: 23/06/2011  
Report #: 4  
Days From Spud: 1.71

UWI 100000718516	Well PID BER_WH051	Tenure PL 211	Field Name Berwyndale	State/Province Queensland	Country AUS
Well Type Development	Well Configuration Type Vertical	Spud Date 22/06/2011 07:00	Rig Release Date 25/06/2011 16:00	Job Start Date 20/06/2011 07:00	Job End Date 26/06/2011 07:00

<b>JOB DETAILS</b>					
AFE Number 01	Total AFE + Supp Amount (Cost) 767,448.00	Daily Field Est Total (Cost) 45,877.21	Cum Field Est To Date (Cost) 276,445.71	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost) 2,894.40
Target Formation	Cum Time Log Days (days) 3.71	Problem Time Hours (hr) 0.00	Cum Problem Time Hours (hr) 20.50	Percent Problem Time (%) 0.00	Cum Percent Problem Time (%) 23.03

<b>DAILY OPERATIONS</b>					
Most Likely Duration (no plan ch...) 4.35	Original KB/RT Elevation (m) 312.00	Ground Elevation (m) 308.00	KB-Ground Distance (m) 4.00	Latitude (°) 26° 47' 48.516" S	Longitude (°) 150° 16' 33.614" E
Rig (Names) Weatherford 2	Planned TD (mKB) 665.00	TD (max) (mKB) 634.77	End Depth (m...) 634.77	Depth Progress (m) 569.20	Weather Fine / Sunny

<b>HSSE</b>	
Days Since Lost Time Incident (days) 1494.00	Days Since Recordable Incident (days) 13.00
Type	Number of Reports

<b>SAFETY CHECK SUMMARY</b>			
Type	Last Date	Days Last Chk (days)	Next Date
BOP Drill	23/06/2011	0	24/06/2011
Camp Move Safety Meeting	20/06/2011	3	6/07/2011
Hazard Hunt	22/06/2011	1	29/06/2011
Pre move safety Meeting			
Pre Spud Safety Meeting	22/06/2011	1	29/06/2011
Pre Tour safety Meeting	22/06/2011	1	23/06/2011
Pre Tour Safety Meeting	23/06/2011	0	24/06/2011
Rig Move Safety Meeting	21/06/2011	2	26/06/2011
Toolbox Talk	23/06/2011	0	24/06/2011
Weekly safety meeting			

<b>DAILY CONTACTS</b>		
Contact Name	Title	Mobile
Paul Kuhn	DSV	0408 766 652

<b>POB</b>		
Company	Job Title	Count

**DAILY REPORT**  
Last 24hr Op's Summary  
PJSM - Test surface lines 200psi/1200psi 5mins/10mins, Rig down pressure test equipment  
M/U 8 1/2" BHA, RIH to 49.11m, wash down tag TOC @ 60.30mKB  
PJSM - Drill cement shoe track f/- 60.30m to 65.57m, (tag shoe @ 64.27mKB)  
PJSM - Drill 8 1/2" hole f/- 65.57m to 570.70mKB, BOP Drill  
Drill 8 1/2" hole f/- 570.70mKB to 634.77mKB  
Circulate 1.5times bottoms up, while reciprocating string  
PJSM - Pull back 1 single, flow check, run wireline survey @ 625.54mKB (0.5 Degrees), PJSM - Rig Service

Summary 00:00 - 06:00  
PJSM, Hoist for wiper trip f/- 634.68m to 95.42mKB flow check  
Hoist with BHA to 60m, RIH with BHA to 95.42m,  
RIH with DP f/- 95.42m to 616.49m,  
Wash last 2 singles down to 634.77m (3m fill)  
Circulate hole clean, flow check  
Hoist f/- 634.77m to 95.42mKB

Planned Op's  
Trip out, log, under ream, run 7" casing, cement casing, rig move

<b>HOURLY OPERATIONS SUMMARY 00:00 TO 24:00</b>							
Start Time	End Time	Dur (hr)	Class	NPT (hr)	Phase	Op	Act Desc
00:00	00:30	0.50	P		BOP	BOP	PJSM - Test surface lines 200psi/1200psi 5mins/10mins, Rig down pressure test equipment
00:30	01:00	0.50	P		PH1	HBH	M/U 8 1/2" BHA, RIH to 49.11m, wash down tag TOC @ 60.30mKB
01:00	03:30	2.50	P		PH1	DC	PJSM - Drill cement shoe track f/- 60.30m to 65.57m (Tag shoe @ 64.27mKB)
03:30	20:00	16.50	P		PH1	RDR	PJSM - Drill 8 1/2" hole f/- 65.57m to 570.70mKB
20:00	20:30	0.50	P		PH1	SM	BOP Drill
20:30	22:30	2.00	P		PH1	RDR	Drill 8 1/2" hole f/- 570.70mKB to 634.77mKB
22:30	23:00	0.50	P		PH1	CIC	Circulate 1.5times bottoms up, while reciprocating string
23:00	23:30	0.50	P		PH1	SRY	PJSM - Pull back 1 single, flow check, run wireline survey @ 625.54mKB (0.5 Degrees)
23:30	00:00	0.50	P		PH1	RS	PJSM - Rig Service

<b>CASING STRINGS</b>		
Csg Des	OD (in)	SD (mKB)
Conductor	14	10.00
Surface Casing	9 5/8	64.27



# DAILY DRILLING REPORT

Berwyndale\_51

TRC: 1494.00

Report Start Date: 23/06/2011

Report #: 4

Days From Spud: 1.71

MUD PROPERTIES				
Mud Type	Time	Depth (mKB)	Weight (lb/gal)	Funnel Viscosity (s/qt)
Water & Native Clays	05:00	100.00	8.70	31
Water & Native Clays	06:00	124.00	8.70	30
Water & Native Clays	07:55	186.00	8.70	30
Water & Native Clays	10:00	265.00	8.80	30
Water & Native Clays	12:00	330.00	8.80	30
Water & Native Clays	14:00	381.00	8.80	32
Water & Native Clays	16:00	448.00	8.90	34
Water & Native Clays	20:00	567.00	8.90	34
Water & Native Clays	22:30	634.00	8.90	34

MUD USED						
Des	Units	Vendor	Rec	Consumed	On Loc	Daily Field Est (Cost)
Bentonite	sacks	BG Group	0.0	0.0	140.0	
Potassaim Chloride	sacks	BG Group	0.0	0.0	36.0	

MUD PUMP						
# 1, Oilwell, 214-P						
Pump Rating (hp)	Rod Diameter (in)	Stroke Length (in)	Volume Per Stroke Override (bbl/stk)	Pressure (psi)	Slow Speed Check?	Strokes (spm)
500.0	2.2441	14.02		366.0	Yes	34
Liner Size (in)	6 1/2		0.177			
						Volumetric Efficiency (%)
						98

FORMATIONS (LAST 5)		
Formation Name	Prog Top MD (mKB)	Drill Top MD (mKB)
Springbok Sandstone	230.00	200.00
Juandah Coal Measures	327.00	301.00
Tangalooma	480.40	483.00
Taroom Coal Measures	548.00	506.00
Durabilla		595.00

JOB SUPPLIES						
Supply Item Des	Unit Label	Loc	Vendor	Received	Consumed	Cum On Loc
Diesel Fuel	L	Rig	Caltex	10,340.0	1,810.0	14,280.0
Potable Water	L	Rig	Dan Cross	0.0	150.0	3,900.0
Rig Water	L	Rig	Mansells Transport	75,000.0	55,000.0	95,000.0

### DRILL STRING AND BIT INFORMATION

BHA #2, Packed Hole						
Bit Run	Size (in)	Make	Model	IADC Codes	Serial Number	Length (m)
RR 2	8 1/2	GeoDiamond	MD1716LBPX	S232	ER20330	0.28
Nozzles (1/32")	22/22/22/22/22	Bit Total Fluid Area (nozzles) (in <sup>2</sup> )	1.86	IADC Bit Dull	-----	
Drill String Length (m)	652.96	BHA Weight in Air (1000lbf)	51	BHA ROP (m/hr)		30.8
String Components GeoDiamond MD1716LBPX, Stabilizer - Near Bit, Drill Collar, Stabilizer, Drill Collar, XO Sub, Drill Pipe						

DRILLING PARAMETERS							
Wellbore	Start Depth (mKB)	End Depth (mKB)	Cum Depth Drilled (m)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (m/hr)	Flow Rate (gpm)
Original Hole	65.57	634.77	569.20	18.50	18.50	30.8	459
Weight on Bit (1000lbf)	8	Surface RPM (rpm)	125	SPP (psi)	1,150.0	Drill Str Wt (1000lbf)	48
		PU Str Wt (1000lbf)	51	SO Str Wt (1000lbf)	45	Drilling Torque (ft•lb)	3,000
		Off Bottom Torque (ft•lb)					1,080

ANNULAR VELOCITIES (DP & DC)						
Inner Bound	Sz Inner Bound (in)	Outer Boundary	Sz Outer Bound (in)	Top (mKB)	Btm (mKB)	AV (m/min)
Drill Pipe	4.500	Casing	8.921	0.00	64.27	57.8
Drill Pipe	4.500	Wellbore	12 1/4	64.27	65.57	26.4
Drill Pipe	4.500	Wellbore	8 1/2	65.57	539.35	65.9

SURVEY DATA				
Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)
23/06/2011 23:00	625.54	0.50	0.00	625.53

UNDERREAMING INTERVALS			
Top (mKB)	Btm (mKB)	OD (in)	Com



# DAILY DRILLING REPORT

Berwyndale\_51

**TRC: 1495.00**

Report Start Date: 24/06/2011

Report #: 5

Days From Spud: 2.71

UWI 100000718516	Well PID BER_WH051	Tenure PL 211	Field Name Berwyndale	State/Province Queensland	Country AUS
Well Type Development	Well Configuration Type Vertical	Spud Date 22/06/2011 07:00	Rig Release Date 25/06/2011 16:00	Job Start Date 20/06/2011 07:00	Job End Date 26/06/2011 07:00

JOB DETAILS					
AFE Number 01	Total AFE + Supp Amount (Cost) 767,448.00	Daily Field Est Total (Cost) 31,964.21	Cum Field Est To Date (Cost) 308,409.92	Daily Mud Field Est (Cost) 64.72	Cum Mud Field Est (Cost) 2,959.12
Target Formation	Cum Time Log Days (days) 4.71	Problem Time Hours (hr) 0.00	Cum Problem Time Hours (hr) 20.50	Percent Problem Time (%) 0.00	Cum Percent Problem Time (%) 18.14

DAILY OPERATIONS					
Most Likely Duration (no plan ch...) 4.35	Original KB/RT Elevation (m) 312.00	Ground Elevation (m) 308.00	KB-Ground Distance (m) 4.00	Latitude (°) 26° 47' 48.516" S	Longitude (°) 150° 16' 33.614" E
Rig (Names) Weatherford 2	Planned TD (mKB) 665.00	TD (max) (mKB) 634.77	End Depth (m...) 634.77	Depth Progress (m)	Weather Fine / Sunny

HSSE	
Days Since Lost Time Incident (days) 1495.00	Days Since Recordable Incident (days) 14.00
Type	Number of Reports

SAFETY CHECK SUMMARY			
Type	Last Date	Days Last Chk (days)	Next Date
BOP Drill	23/06/2011	1	24/06/2011
Camp Move Safety Meeting	20/06/2011	4	6/07/2011
Hazard Hunt	22/06/2011	2	29/06/2011
Pre move safety Meeting			
Pre Spud Safety Meeting	22/06/2011	2	29/06/2011
Pre Tour safety Meeting	22/06/2011	2	23/06/2011
Pre Tour Safety Meeting	24/06/2011	0	25/06/2011
Rig Move Safety Meeting	21/06/2011	3	26/06/2011
Toolbox Talk	24/06/2011	0	25/06/2011
Weekly safety meeting			

DAILY CONTACTS		
Contact Name	Title	Mobile
Paul Kuhn	DSV	0408 766 652

POB		
Company	Job Title	Count

**DAILY REPORT**  
 Last 24hr Op's Summary  
 PJSM, Hoist for wiper trip f/- 634.68m to 95.42mKB flow check  
 Hoist with BHA to 60m, RIH with BHA to 95.42m,  
 RIH with DP f/- 95.42m to 616.49m,  
 Wash last 2 singles down to 634.77m (3m fill)  
 Circulate hole clean, flow check  
 Hoist f/- 634.77m to 95.42mKB, Hoist with BHA f/- 95.42m to 13m, L/D stabs & bit  
 PJSM with Weatherford wireline, crew & QGC Rep, R/U wire line equipment, P/U tools run #1 SUPERCOMBO Load Radio-Active Source, RIH with Run #1 to Bottom, log out, tools to surface @1200hrs, B/O & L/O tools from run #1, R/D Weatherford wireline equipment  
 PJSM - P/U & M/U 16" underreaming Assy. & RIH to 58.03mKB (surface tested reamer opened @ 40psi - Closed @ 15psi)  
 Rig & TDS service, RIH on DP to first underream section @ 579.6mKB  
 PJSM - Underream as per geologist's request

Summary 00:00 - 06:00  
 Continue under reaming intervals  
 PJSM - Flow check Hoist from 301.7m to surface laying down string stab, Bit sub, Under reamer & bit.  
 Clean and clear rig floor, PJSM - R/U to run 7" casing, PJSM - RIH with 7" casing to 120m

Planned Op's  
 Under ream as per geologist's request, Run 7" casing with ACP, cement casing, Prepare to rig move, Wait on cellar to be installed.

HOURLY OPERATIONS SUMMARY 00:00 TO 24:00							
Start Time	End Time	Dur (hr)	Class	NPT (hr)	Phase	Op	Act Desc
00:00	04:00	4.00	P		PH1	WT	PJSM - Hoist for wiper trip f/- 634.77m to 95.42m flow check hoist with BHA to 60m, RIH to 616m, wash to 634.77m (3m Fill)
04:00	04:30	0.50	P		PH1	CIC	Circulate hole clean, flow check
04:30	06:15	1.75	P		PH1	TO	PJSM - Hoist to log with weatherford, f/- 634.77m to 95.42m Flow Check
06:15	07:00	0.75	P		PH1	HBH	Hoist with BHA f/- 95.42m to 13m, L/D stabs & bit
07:00	07:30	0.50	P		PH1	RU	PJSM with Weatherford wireline, crew & QGC Rep, R/U wire line equipment,
07:30	08:00	0.50	P		PH1	HT	P/U tools run #1 SUPERCOMBO Load Radio-Active Source
08:00	12:00	4.00	P		ELS	LOG	RIH with Run #1 to Bottom, log out tools to surface @1200hrs
12:00	12:30	0.50	P		ELS	HT	B/O & L/O tools from run #1
12:30	13:00	0.50	P		ELS	RD	R/D Weatherford wireline equipment
13:00	14:00	1.00	P		PH2	HBH	PJSM - P/U & M/U 16" underreaming Assy. & RIH to 58.03mKB (surface tested reamer opened @ 40psi - Closed @ 15psi)
14:00	14:30	0.50	P		PH2	RS	Rig & TDS service
14:30	16:00	1.50	P		PH2	TI	RIH on DP to first underream section @ 579.6mKB



**DAILY DRILLING REPORT**  
Berwyndale\_51

**TRC: 1495.00**  
Report Start Date: 24/06/2011  
Report #: 5  
Days From Spud: 2.71

**HOURLY OPERATIONS SUMMARY 00:00 TO 24:00**

Start Time	End Time	Dur (hr)	Class	NPT (hr)	Phase	Op	Act Desc
16:00	00:00	8.00	P		PH2	RW	PJSM - Underream as per geologist's request

**CASING STRINGS**

Csg Des	OD (in)	SD (mKB)
Conductor	14	10.00
Surface Casing	9 5/8	64.27

**MUD PROPERTIES**

Mud Type	Time	Depth (mKB)	Weight (lb/gal)	Funnel Viscosity (s/qt)
Water & Native Clays	03:00	634.68	9.00	33

**MUD USED**

Des	Units	Vendor	Rec	Consumed	On Loc	Daily Field Est (Cost)
Bentonite	sacks	BG Group	0.0	4.0	136.0	64.72
Potassaim Chloride	sacks	BG Group	0.0	0.0	36.0	

**MUD PUMP**

**# 1, Oilwell, 214-P**

Pump Rating (hp)	Rod Diameter (in)	Stroke Length (in)
500.0	2.2441	14.02
Liner Size (in)	Volume Per Stroke Override (bbl/stk)	
6 1/2	0.177	
Pressure (psi)	Slow Speed Check?	Strokes (spm)
		Volumetric Efficiency (%)

**FORMATIONS (LAST 5)**

Formation Name	Prog Top MD (mKB)	Drill Top MD (mKB)
Springbok Sandstone	230.00	200.00
Juandah Coal Measures	327.00	301.00
Tangalooma	480.40	483.00
Taroom Coal Measures	548.00	506.00
Durabilla		595.00

**JOB SUPPLIES**

Supply Item Des	Unit Label	Loc	Vendor	Received	Consumed	Cum On Loc
Diesel Fuel	L	Rig	Caltex	0.0	2,240.0	12,040.0
Potable Water	L	Rig	Dan Cross	0.0	150.0	3,750.0
Rig Water	L	Rig	Mansells Transport	0.0	40,000.0	55,000.0

**DRILL STRING AND BIT INFORMATION**

**BHA #3, Under Reaming Assy**

Bit Run	Size (in)	Make	Model	IADC Codes	Serial Number	Length (m)
RR3	8 1/2	GeoDiamond	MD1716LBPX	S232	ER20330	0.28
Nozzles (1/32")	Bit Total Fluid Area (nozzles) (in²)	IADC Bit Dull				
22/22/22/22/22	1.86	-----				
Drill String Length (m)	BHA Weight in Air (1000lbf)	BHA ROP (m/hr)				
653.32	51					

String Components  
GeoDiamond MD1716LBPX, Reamer, Bit Sub w/Float, Drill Collar, Stabilizer, Drill Collar, XO Sub, Drill Pipe

**DRILLING PARAMETERS**

Wellbore	Start Depth (mKB)	End Depth (mKB)	Cum Depth Drilled (m)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (m/hr)	Flow Rate (gpm)
Original Hole			0.00	8.00	8.00	0.0	185
Weight on Bit (1000lbf)	Surface RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque (ft•lb)	Off Bottom Torque (ft•lb)
2	60	495.0	44	44	44	1,080	0

**ANNULAR VELOCITIES (DP & DC)**

Inner Bound	Sz Inner Bound (in)	Outer Boundary	Sz Outer Bound (in)	Top (mKB)	Btm (mKB)	AV (m/min)

**SURVEY DATA**

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)

**UNDERREAMING INTERVALS**

Top (mKB)	Btm (mKB)	OD (in)	Com
386.10	386.90	16	Under-ream from 8 1/2" to 16"
408.90	410.10	16	Under-ream from 8 1/2" to 16"
423.50	425.40	16	Under-ream from 8 1/2" to 16"
430.90	432.10	16	Under-ream from 8 1/2" to 16"
473.10	474.40	16	Under-ream from 8 1/2" to 16"
513.80	514.50	16	Under-ream from 8 1/2" to 16"
518.80	520.10	16	Under-ream from 8 1/2" to 16"
573.80	574.90	16	Under-ream from 8 1/2" to 16"
579.60	584.90	16	Under-ream from 8 1/2" to 16"





**DAILY DRILLING REPORT**  
Berwyndale\_51

**TRC: 1496.00**  
Report Start Date: 25/06/2011  
Report #: 6  
Days From Spud: 3.71

UWI 100000718516	Well PID BER_WH051	Tenure PL 211	Field Name Berwyndale	State/Province Queensland	Country AUS
Well Type Development	Well Configuration Type Vertical	Spud Date 22/06/2011 07:00	Rig Release Date 25/06/2011 16:00	Job Start Date 20/06/2011 07:00	Job End Date 26/06/2011 07:00

<b>JOB DETAILS</b>					
AFE Number 01	Total AFE + Supp Amount (Cost) 767,448.00	Daily Field Est Total (Cost) 103,219.60	Cum Field Est To Date (Cost) 411,629.52	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost) 2,959.12
Target Formation	Cum Time Log Days (days) 5.71	Problem Time Hours (hr) 4.00	Cum Problem Time Hours (hr) 24.50	Percent Problem Time (%) 16.67	Cum Percent Problem Time (%) 17.88

<b>DAILY OPERATIONS</b>					
Most Likely Duration (no plan ch...) 4.35	Original KB/RT Elevation (m) 312.00	Ground Elevation (m) 308.00	KB-Ground Distance (m) 4.00	Latitude (°) 26° 47' 48.516" S	Longitude (°) 150° 16' 33.614" E
Rig (Names) Weatherford 2	Planned TD (mKB) 665.00	TD (max) (mKB) 634.77	End Depth (m...) 634.77	Depth Progress (m)	Weather Fine /Sunny

<b>HSSE</b>	
Days Since Lost Time Incident (days) 1496.00	Days Since Recordable Incident (days) 15.00
Type	Number of Reports

<b>SAFETY CHECK SUMMARY</b>			
Type	Last Date	Days Last Chk (days)	Next Date
BOP Drill	23/06/2011	2	24/06/2011
Camp Move Safety Meeting	20/06/2011	5	6/07/2011
Hazard Hunt	22/06/2011	3	29/06/2011
Pre move safety Meeting			
Pre Spud Safety Meeting	22/06/2011	3	29/06/2011
Pre Tour safety Meeting	22/06/2011	3	23/06/2011
Pre Tour Safety Meeting	25/06/2011	0	26/06/2011
Rig Move Safety Meeting	21/06/2011	4	26/06/2011
Toolbox Talk	25/06/2011	0	26/06/2011
Weekly safety meeting	25/06/2011	0	2/07/2011

<b>DAILY CONTACTS</b>		
Contact Name	Title	Mobile
Paul Kuhn	DSV	0408 766 652

<b>POB</b>		
Company	Job Title	Count

**DAILY REPORT**  
Last 24hr Op's Summary  
Continue under reamering intervals  
PJSM - Flow check Hoist from 301.7m to surface laying down string stab, Bit sub, Under reamer & bit.  
PJSM - R/U to run 7" casing, PJSM - RIH with 7" casing to 597.33m, PJSM - R/U & circulate 1.5 times Annular volume, PJSM with Halliburton, Weatherford personell & QGC Rep, R/U cement head & surface lines. pre load plugs, Pump 5bbls water spacer, pressure test surface lines 3000psi/5mins, pump water at 4bpm /324psi to inflate packer reduce to 2bpm after 30bbls displacement land shut off dart with 500psi, increase pressure in 250psi increments stopping for 1min each stage, packer opened at 1300psi increase pressure to 1500psi hold for 5mins, bleed back to 500psi/0.015bbl returned, bleed back to zero, open stage tool at 2214psi, pump 3bbl spacer to confirm circulation, pump 30.4bbls cement slurry 15.6ppg/141sacks, flush lines with 3bbls, launch top plug & displace cement with 37.5bbls water cement returns after 33.5bbls / 4bbls good cement to sump, bump plug with 500psi increase pressure 2000psi / 5mins to test casing, bleed off 0.5bbl returns plugs holding. Wait on cement, PJSM - Slack off lay out landing joint, lay bell nipple, N/D BOP's, remove Braden Head. Rig Released @ 16:00Hrs, Rigged Down, Rig floor, sub-base, Drive carrier off, pony base, mud pump, dog house, gen trailer, SBWC, wait on Berwyndale #45 construction to be completed

Summary 00:00 - 06:00  
SBWC wait on daylight to move to Berwyndale #45

Planned Op's  
Move to Berwyndale #45, Drill 12 1/2" hole, run casing, cement casing with Wagners, WOC, Nipple up BOP's

<b>HOURLY OPERATIONS SUMMARY 00:00 TO 24:00</b>							
Start Time	End Time	Dur (hr)	Class	NPT (hr)	Phase	Op	Act Desc
00:00	02:15	2.25	P		PH2	RW	Continue under reamering intervals
02:15	03:00	0.75	P		PH2	TO	PJSM - Flow check Hoist from 301.7m to 95.85mKB
03:00	04:00	1.00	P		PH2	HBH	Flow check, PJSM- Hoist f/- 95.82mto surface, laying down string stab, Bit sub, Under reamer & bit.
04:00	05:00	1.00	P		PC1	RRC	PJSM - R/U to run 7" casing,
05:00	08:00	3.00	P		PC1	RC	PJSM - RIH with 7" casing to 597.33mKB
08:00	09:00	1.00	P		PC1	CIC	PJSM - R/U & circulate 1.5 times Annular volume
09:00	11:00	2.00	P		PC1	CMC	PJSM with Halliburton, Weatherford personell & QGC Rep, R/U cement head & surface lines. pre load plugs, Pump 5bbls water spacer, pressure test surface lines 3000psi/5mins, pump water at 4bpm /324psi to inflate packer reduce to 2bpm after 30bbls displacement land shut off dart with 500psi, increase pressure in 250psi increments stopping for 1min each stage, packer opened at 1300psi increase pressure to 1500psi hold for 5mins, bleed back to 500psi/0.015bbl returned, bleed back to zero, open stage tool at 2214psi, pump 3bbl spacer to confirm circulation, pump 30.4bbls cement slurry 15.6ppg/141sacks, flush lines with 3bbls, launch top plug & displace cement with 37.5bbls water cement returns after 33.5bbls / 4bbls good cement to sump, bump plug with 500psi increase pressure 2000psi / 5mins to test casing, bleed off 0.5bbl returns plugs holding.



# DAILY DRILLING REPORT

Berwyndale\_51

**TRC: 1496.00**

Report Start Date: 25/06/2011

Report #: 6

Days From Spud: 3.71

**HOURLY OPERATIONS SUMMARY 00:00 TO 24:00**

Start Time	End Time	Dur (hr)	Class	NPT (hr)	Phase	Op	Act Desc
11:00	14:00	3.00	P		PC1	WOC	Wait on cement
14:00	16:00	2.00	P		RMO	BOP	PJSM - Slack off lay out landing joint, lay bell nipple, N/D BOP's, remove Braden Head. Rig Released @ 16:00Hrs
16:00	20:00	4.00	P		RMO	RD	Rigged Down, Rig floor, sub-base, Drive carrier off, pony base, mud pump, dog house, gen trailer,
20:00	00:00	4.00	TP	4.00	RMO	WOI	SBWC, wait on Berwyndale #45 construction to be completed

**CASING STRINGS**

Csg Des	OD (in)	SD (mKB)
Conductor	14	10.00
Surface Casing	9 5/8	64.27
Production Casing/Liner (1)	7	597.33

**MUD PROPERTIES**

Mud Type	Time	Depth (mKB)	Weight (lb/gal)	Funnel Viscosity (s/qt)

**MUD USED**

Des	Units	Vendor	Rec	Consumed	On Loc	Daily Field Est (Cost)
Bentonite	sacks	BG Group	0.0	0.0	136.0	
Potassaim Chloride	sacks	BG Group	0.0	0.0	36.0	

**MUD PUMP**

**# 1, Oilwell, 214-P**

Pump Rating (hp)	500.0	Rod Diameter (in)	2.2441	Stroke Length (in)	14.02
Liner Size (in)	6 1/2	Volume Per Stroke Override (bbl/stk)			0.177
Pressure (psi)		Slow Speed Check?	Strokes (spm)		Volumetric Efficiency (%)

**FORMATIONS (LAST 5)**

Formation Name	Prog Top MD (mKB)	Drill Top MD (mKB)
Springbok Sandstone	230.00	200.00
Juandah Coal Measures	327.00	301.00
Tangalooma	480.40	483.00
Taroom Coal Measures	548.00	506.00
Durabilla		595.00

**JOB SUPPLIES**

Supply Item Des	Unit Label	Loc	Vendor	Received	Consumed	Cum On Loc
Diesel Fuel	L	Rig	Caltex	0.0	1,630.0	10,410.0
Potable Water	L	Rig	Dan Cross	0.0	150.0	3,600.0
Rig Water	L	Rig	Mansells Transport	25,000.0	40,000.0	40,000.0

**DRILL STRING AND BIT INFORMATION**

**BHA #<stringno>, <des>**

Bit Run	Size (in)	Make	Model	IADC Codes	Serial Number	Length (m)
Nozzles (1/32")			Bit Total Fluid Area (nozzles) (in <sup>2</sup> )		IADC Bit Dull	
Drill String Length (m)			BHA Weight in Air (1000lbf)		BHA ROP (m/hr)	
String Components						

**DRILLING PARAMETERS**

Wellbore	Start Depth (mKB)	End Depth (mKB)	Cum Depth Drilled (m)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (m/hr)	Flow Rate (gpm)
Weight on Bit (1000lbf)	Surface RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque (ft•lb)	Off Bottom Torque (ft•lb)

**ANNULAR VELOCITIES (DP & DC)**

Inner Bound	Sz Inner Bound (in)	Outer Boundary	Sz Outer Bound (in)	Top (mKB)	Btm (mKB)	AV (m/min)

**SURVEY DATA**

Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)

**UNDERREAMING INTERVALS**

Top (mKB)	Btm (mKB)	OD (in)	Com
296.90	301.70	16	Under-ream from 8 1/2" to 16"
303.80	305.20	16	Under-ream from 8 1/2" to 16"
341.90	346.80	16	Under-ream from 8 1/2" to 16"
374.30	375.90	16	Under-ream from 8 1/2" to 16"



**DAILY DRILLING REPORT**  
Berwyndale\_51

**TRC: 1496.00**  
Report Start Date: 25/06/2011  
Report #: 6  
Days From Spud: 3.71

UNDERREAMING INTERVALS				
Top (mKB)	Btm (mKB)	OD (in)	Com	
386.10	386.90	16	Under-ream from 8 1/2" to 16"	
408.90	410.10	16	Under-ream from 8 1/2" to 16"	
423.50	425.40	16	Under-ream from 8 1/2" to 16"	
430.90	432.10	16	Under-ream from 8 1/2" to 16"	
473.10	474.40	16	Under-ream from 8 1/2" to 16"	
513.80	514.50	16	Under-ream from 8 1/2" to 16"	
518.80	520.10	16	Under-ream from 8 1/2" to 16"	
573.80	574.90	16	Under-ream from 8 1/2" to 16"	
579.60	584.90	16	Under-ream from 8 1/2" to 16"	



**DAILY DRILLING REPORT**  
Berwyndale\_51

**TRC: 1497.00**  
Report Start Date: 26/06/2011  
Report #: 7  
Days From Spud: 4.00

UWI 100000718516	Well PID BER_WH051	Tenure PL 211	Field Name Berwyndale	State/Province Queensland	Country AUS
Well Type Development	Well Configuration Type Vertical	Spud Date 22/06/2011 07:00	Rig Release Date 25/06/2011 16:00	Job Start Date 20/06/2011 07:00	Job End Date 26/06/2011 07:00

<b>JOB DETAILS</b>					
AFE Number 01	Total AFE + Supp Amount (Cost) 767,448.00	Daily Field Est Total (Cost) 12,515.38	Cum Field Est To Date (Cost) 424,144.90	Daily Mud Field Est (Cost)	Cum Mud Field Est (Cost) 2,959.12
Target Formation	Cum Time Log Days (days) 6.00	Problem Time Hours (hr) 7.00	Cum Problem Time Hours (hr) 31.50	Percent Problem Time (%) 100.00	Cum Percent Problem Time (%) 21.88

<b>DAILY OPERATIONS</b>					
Most Likely Duration (no plan ch...) 4.35	Original KB/RT Elevation (m) 312.00	Ground Elevation (m) 308.00	KB-Ground Distance (m) 4.00	Latitude (°) 26° 47' 48.516" S	Longitude (°) 150° 16' 33.614" E
Rig (Names)	Planned TD (mKB) 665.00	TD (max) (mKB) 634.77	End Depth (m...) 634.77	Depth Progress (m)	Weather

<b>HSSE</b>					
Days Since Lost Time Incident (days) 1497.00			Days Since Recordable Incident (days) 16.00		
Type				Number of Reports	

<b>SAFETY CHECK SUMMARY</b>					
Type	Last Date	Days Last Chk (days)	Next Date		
BOP Drill	23/06/2011	2	25/06/2011		
Camp Move Safety Meeting	20/06/2011	5	7/07/2011		
Hazard Hunt	22/06/2011	3	30/06/2011		
Pre move safety Meeting	26/06/2011	0	27/06/2011		
Pre Spud Safety Meeting	22/06/2011	3	30/06/2011		
Pre Tour safety Meeting	22/06/2011	3	24/06/2011		
Pre Tour Safety Meeting	25/06/2011	0	27/06/2011		
Rig Move Safety Meeting	21/06/2011	4	27/06/2011		
Toolbox Talk	25/06/2011	0	27/06/2011		
Weekly safety meeting	25/06/2011	0	3/07/2011		

<b>DAILY CONTACTS</b>					
Contact Name	Title	Mobile			
Paul Kuhn	DSV	0408 766 652			

<b>POB</b>					
Company	Job Title	Count			

**DAILY REPORT**  
Last 24hr Op's Summary  
SBWC wait on daylight to move to Berwyndale #45 ( Due to cellar & conductor being install @ 1600hrs 25/06/2011, Hold pre -move safety meeting with Mansell Drivers, Weatherford personnel & QGC Rep.  
Summary 00:00 - 06:00  
Planned Op's

<b>HOURLY OPERATIONS SUMMARY 00:00 TO 24:00</b>							
Start Time	End Time	Dur (hr)	Class	NPT (hr)	Phase	Op	Act Desc
00:00	06:30	6.50	TP	6.50	RMO	WOI	SBWC wait on daylight to move to Berwyndale #45 ( Due to cellar & conductor being install @ 1600hrs 25/06/2011
06:30	07:00	0.50	TP	0.50	RMO	SM	Hold pre -move safety meeting with Mansell Drivers, Weatherford personnel & QGC Rep.

<b>CASING STRINGS</b>					
Csg Des	OD (in)	SD (mKB)			
Conductor	14	10.00			
Surface Casing	9 5/8	64.27			
Production Casing/Liner (1)	7	597.33			

<b>MUD PROPERTIES</b>					
Mud Type	Time	Depth (mKB)	Weight (lb/gal)	Funnel Viscosity (s/qt)	

<b>MUD USED</b>						
Des	Units	Vendor	Rec	Consumed	On Loc	Daily Field Est (Cost)
Bentonite	sacks	BG Group	0.0	0.0	136.0	
Potassaim Chloride	sacks	BG Group	0.0	0.0	36.0	

<b>MUD PUMP</b>					
<b># 1, Oilwell, 214-P</b>					
Pump Rating (hp)	Rod Diameter (in)	Stroke Length (in)			
500.0		2.2441	14.02		
Liner Size (in)	Volume Per Stroke Override (bbl/stk)				
	6 1/2	0.177			
Pressure (psi)	Slow Speed Check?	Strokes (spm)	Volumetric Efficiency (%)		



**DAILY DRILLING REPORT**  
Berwyndale\_51

**TRC: 1497.00**  
Report Start Date: 26/06/2011  
Report #: 7  
Days From Spud: 4.00

FORMATIONS (LAST 5)		
Formation Name	Prog Top MD (mKB)	Drill Top MD (mKB)
Springbok Sandstone	230.00	200.00
Juandah Coal Measures	327.00	301.00
Tangalooma	480.40	483.00
Taroom Coal Measures	548.00	506.00
Durabilla		595.00

JOB SUPPLIES						
Supply Item Des	Unit Label	Loc	Vendor	Received	Consumed	Cum On Loc
Diesel Fuel	L	Rig	Caltex	0.0	0.0	10,410.0
Potable Water	L	Rig	Dan Cross	0.0	0.0	3,600.0
Rig Water	L	Rig	Mansells Transport	0.0	20,000.0	20,000.0

DRILL STRING AND BIT INFORMATION						
BHA #<stringno>, <des>						
Bit Run	Size (in)	Make	Model	IADC Codes	Serial Number	Length (m)
Nozzles (1/32")		Bit Total Fluid Area (nozzles) (in <sup>2</sup> )		IADC Bit Dull		
Drill String Length (m)		BHA Weight in Air (1000lbf)		BHA ROP (m/hr)		
String Components						

DRILLING PARAMETERS							
Wellbore	Start Depth (mKB)	End Depth (mKB)	Cum Depth Drilled (m)	Drilling Time (hr)	Cum Drilling Time (hr)	Interval ROP (m/hr)	Flow Rate (gpm)
Weight on Bit (1000lbf)	Surface RPM (rpm)	SPP (psi)	Drill Str Wt (1000lbf)	PU Str Wt (1000lbf)	SO Str Wt (1000lbf)	Drilling Torque (ft•lb)	Off Bottom Torque (ft•lb)

ANNULAR VELOCITIES (DP & DC)							
Inner Bound	Sz Inner Bound (in)	Outer Boundary	Sz Outer Bound (in)	Top (mKB)	Btm (mKB)	AV (m/min)	

SURVEY DATA					
Date	MD (mKB)	Incl (°)	Azm (°)	TVD (mKB)	

UNDERREAMING INTERVALS				
Top (mKB)	Btm (mKB)	OD (in)	Com	
296.90	301.70	16	Under-ream from 8 1/2" to 16"	
303.80	305.20	16	Under-ream from 8 1/2" to 16"	
341.90	346.80	16	Under-ream from 8 1/2" to 16"	
374.30	375.90	16	Under-ream from 8 1/2" to 16"	
386.10	386.90	16	Under-ream from 8 1/2" to 16"	
408.90	410.10	16	Under-ream from 8 1/2" to 16"	
423.50	425.40	16	Under-ream from 8 1/2" to 16"	
430.90	432.10	16	Under-ream from 8 1/2" to 16"	
473.10	474.40	16	Under-ream from 8 1/2" to 16"	
513.80	514.50	16	Under-ream from 8 1/2" to 16"	
518.80	520.10	16	Under-ream from 8 1/2" to 16"	
573.80	574.90	16	Under-ream from 8 1/2" to 16"	
579.60	584.90	16	Under-ream from 8 1/2" to 16"	

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**APPENDIX 3**  
**DAILY GEOLOGY REPORTS**

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Juanda

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# Daily Geological Report #2 for 22-06-2011

**Berwyndale 51 Basin**  
CSG Development well

GEOLOGIST :

P Baynes

**MIDNIGHT DEPTH :**  
65.57m

**CURRENT DEPTH :**  
100m @ 05:15

On location : 21-06-2011

Spud Date : 22-06-2011

GL : +308m

Proposed TD : 665m

Rig : Weatherford #2

Permit : PL211

RT : +312m

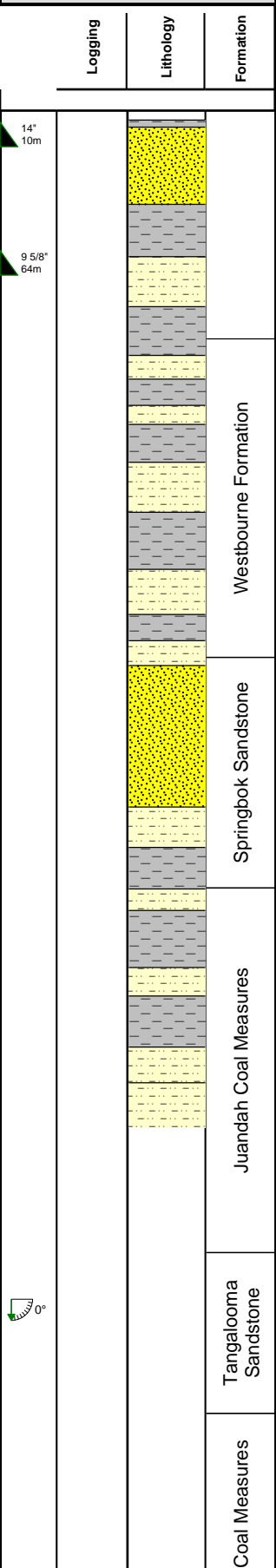
Longitude : 150° 16' 33" E

Latitude : -26° 47' 48" S

## PROGNOSIS

## ACTUAL

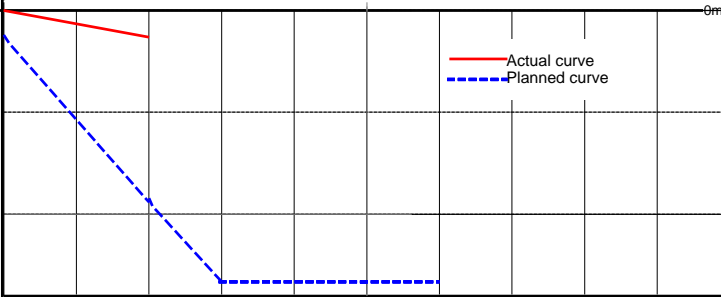
Actual TD : m



Litho	Ream	Formation	Unit	Total Gas	ROP	Casing Surveys
				%	m/hr	
				0	100	0

## PROGRESS CHART

DAYS



PROGRESS SINCE MIDNIGHT :

34.43m

### SUMMARY OF LAST 24 HOURS :

Complete wiper trip, rig up and run 9 5/8" casing, perform cement job with cement from Wagners, wait on cement, nipple up BOP, pressure test, make up 8 1/2" BHA, RIH and tag cement, drill cement and shoe, drill ahead new formation.

### CURRENT OPERATION :

Drill ahead

### 24 HOUR FORECAST :

Drill ahead to TD, circulate bottoms up POOH, rig up Weatherford wireline.

### COMMENTS :

Weatherford wireline crew will be contacted this morning and informed of operation progress.

### LOG RUNS

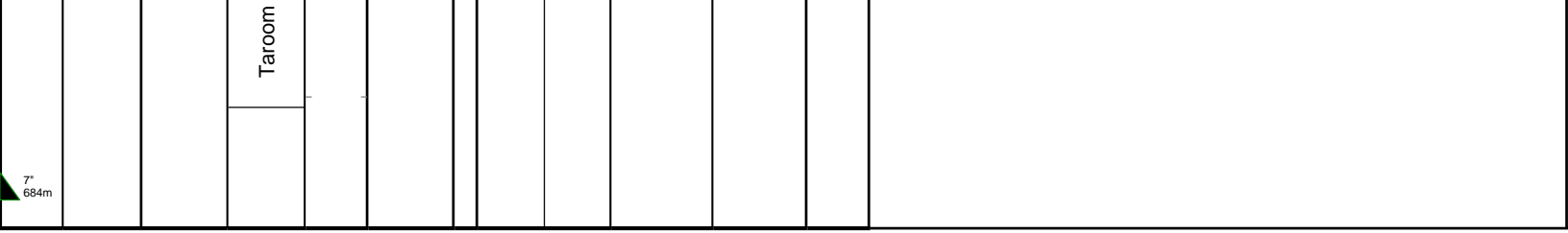
Run	Log suite	Start	End
1	GR-MAI-MDN-MPD-MSS-CMI	m	m

### DST

Test #	Unit/Seam Tested	From (mRT)	To (mRT)	Shut In Time (mins)	Flow Time (min)	Surface Flow Descriptions	Recovery (Formation Fluid)
-	No DST Programmed			-	-	-	-

7'  
684m

Taroom



# Daily Geological Report #3 for 23-06-2011

**Berwyndale 51 Basin**  
CSG Development well

GEOLOGIST :

P Baynes

MIDNIGHT DEPTH :

634.77m

CURRENT DEPTH :

634.77m @ 06:30

On location : 21-06-2011

Spud Date : 22-06-2011

GL : +308m

Proposed TD : 665m

Rig : Weatherford #2

Permit : PL211

RT : +312m

Longitude : 150° 16' 33" E

Latitude : -26° 47' 48" S

## PROGNOSIS

## ACTUAL

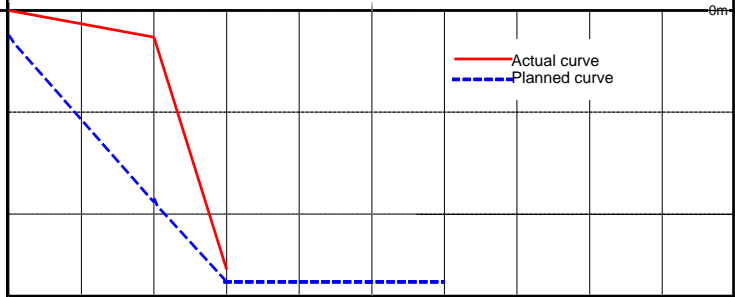
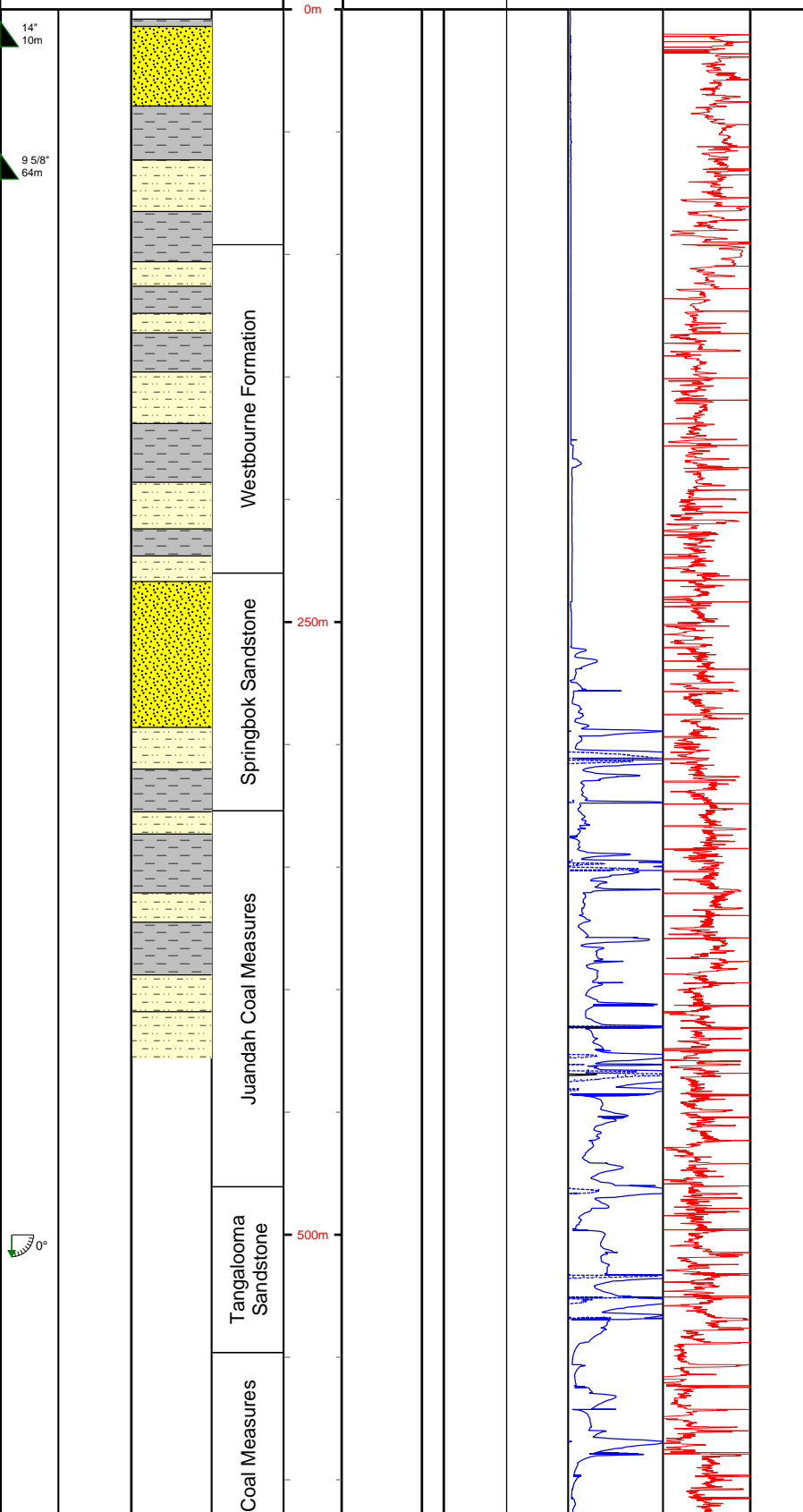
Actual TD : m

Logging  
Lithology  
Formation

Depth MD/RT  
Litho  
Ream  
Formation  
Unit  
Total Gas %  
ROP m/hr  
Casing Surveys

## PROGRESS CHART

DAYS



PROGRESS SINCE MIDNIGHT :

0m

### SUMMARY OF LAST 24 HOURS :

Drill ahead to TD, circulate bottoms up POOH, rig up Weatherford wireline.

### CURRENT OPERATION :

Handling BHA

### 24 HOUR FORECAST :

Rig up Weatherford wireline, perform logs in one run (GR-MAI-MDN-MPD-MSS), rig down wireline, make up reaming BHA, RIH and ream selected intervals, circulate clean, rig up and run 7" production casing and cement same using Haliburton.

### COMMENTS :

Loggers on site calibrating and function testing tools.

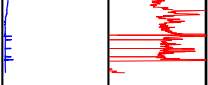
### LOG RUNS

Run	Log suite	Start	End
1	GR-MAI-MDN-MPD-MSS-CMI	m	m

### DST

Test #	Unit/Seam Tested	From (mRT)	To (mRT)	Shut In Time (mins)	Flow Time (min)	Surface Flow Descriptions	Recovery (Formation Fluid)
-	No DST Programmed			-	-	-	-

Taroom



7'  
684m

# Daily Geological Report #4 for 24-06-2011

**Berwyndale 51 Basin**  
CSG Development well

GEOLOGIST :  
P Baynes

MIDNIGHT DEPTH :  
634.77m

CURRENT DEPTH :  
634.77m @ 06:30

On location : 21-06-2011

Rig : Weatherford #2

Spud Date : 22-06-2011

Permit : PL211

GL : +308m

RT : +312m

Proposed TD : 665m

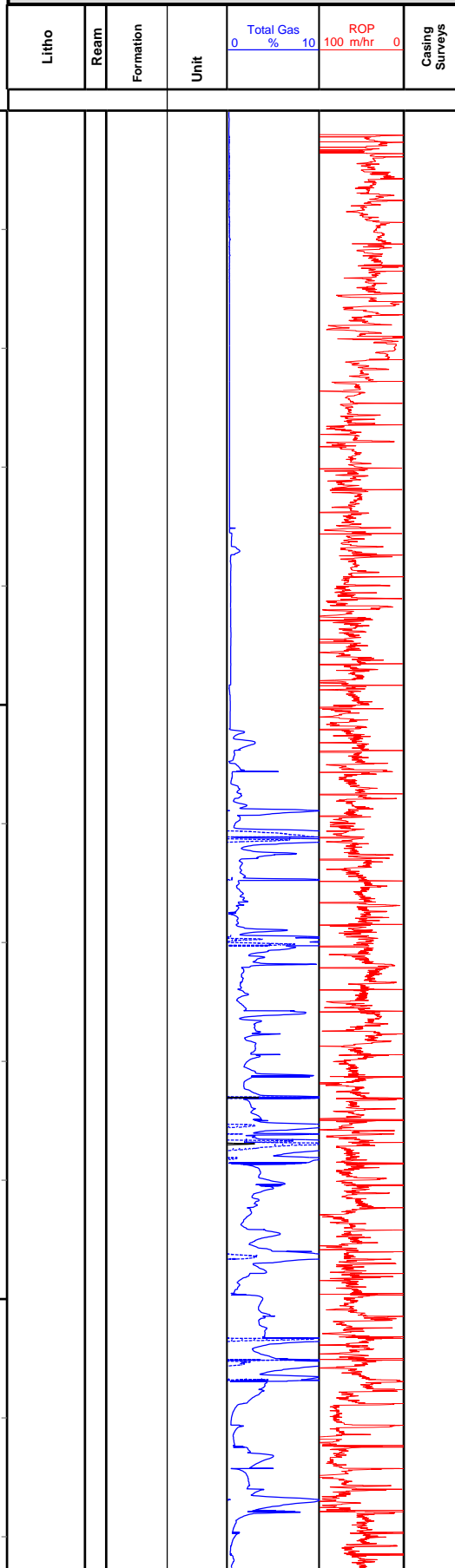
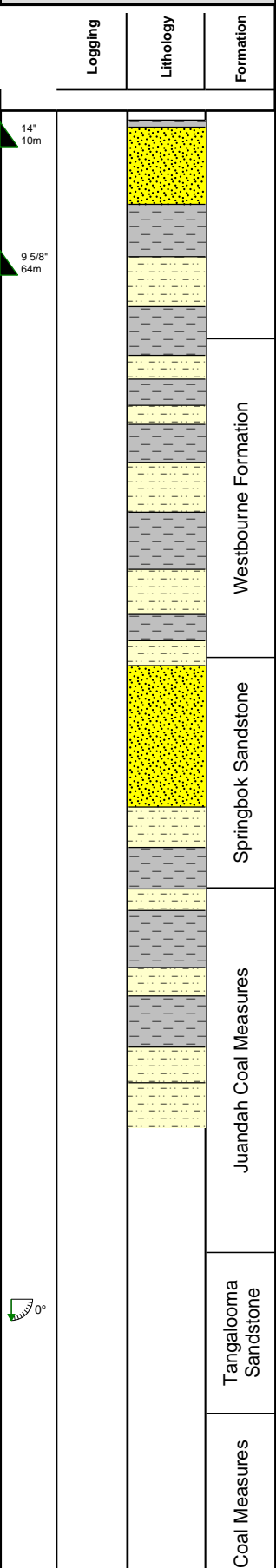
Longitude : 150° 16' 33" E

Latitude : -26° 47' 48" S

## PROGNOSIS

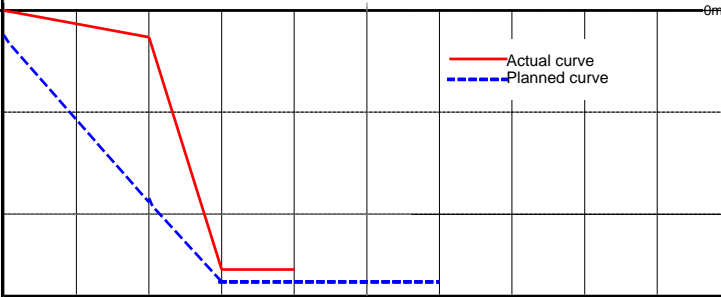
## ACTUAL

Actual TD : m



## PROGRESS CHART

DAYS



PROGRESS SINCE MIDNIGHT :

0m

### SUMMARY OF LAST 24 HOURS :

Rig up Weatherford wireline, perform logs in one run (GR-MAI-MDN-MPD-MSS), rig down wireline, make up reaming BHA, RIH and ream selected intervals, circulate clean, rig up and run 7" production casing.

### CURRENT OPERATION :

Running casing.

### 24 HOUR FORECAST :

Finish running casing and cement same using Haliburton, wait on cement, slack off, nipple down, release rig, prepare rig for rig move.

### COMMENTS :

Cellar and top hole at next location to be started this afternoon, rig move dependant on completion of this.

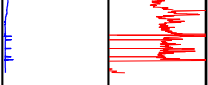
### LOG RUNS

Run	Log suite	Start	End
1	GR-MAI-MDN-MPD-MSS-CMI	634.14m	5m

### DST

Test #	Unit/Seam Tested	From (mRT)	To (mRT)	Shut In Time (mins)	Flow Time (min)	Surface Flow Descriptions	Recovery (Formation Fluid)
-	No DST Programmed			-	-	-	-

Taroom



7'  
684m

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**APPENDIX 4**  
**COMPOSITE LOG**

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# Berwyndale 51

## QGC

## Composite Well Log

### Well Data

**Well Name:** Berwyndale 51  
**Status:** Suspended  
**Area:** Berwyndale  
**Basin:** Surat  
**Location:** South East Queensland  
**Rig:** Weatherford 2  
**Latitude:** 26° 47' 48.4880" S 7 033 166.883m N  
**Longitude:** 150° 16' 33.6828" E 229 195.069m E  
**Spud Date:** 22-06-2011  
**TD Date:** 23-06-2011  
**Rig Release Date:** 25-06-2011  
**Depth Datum:** RT  
**RT Elevation:** 305.21m  
**GL Elevation:** 301.21m  
**Total Depth:** 634.77 m MDRT, (Driller)  
 634.66 m MDRT, (Logger)

### Partners, Contractors etc.

**Partners:**  
 BG International  
  
**Contractors:**  
 Drilling Weatherford Ltd  
 Wireline Weatherford Ltd  
 Cement Halliburton Pty Ltd  
 Cement Wagners Pty Ltd

### Wellsite Geologists:

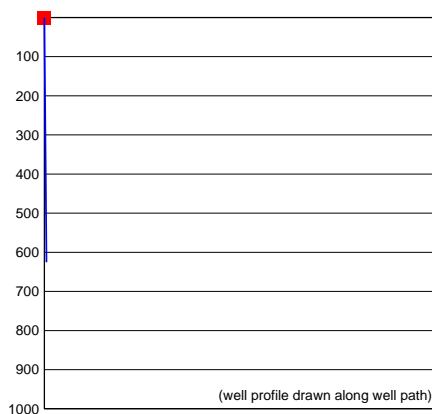
P Baynes

### Prepared by:

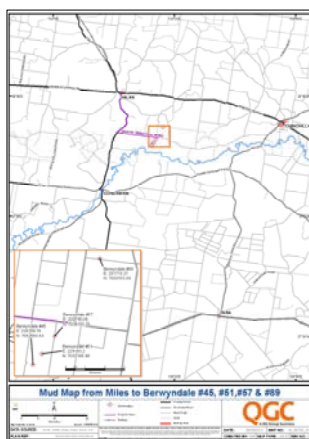
C Harrison

### Check:

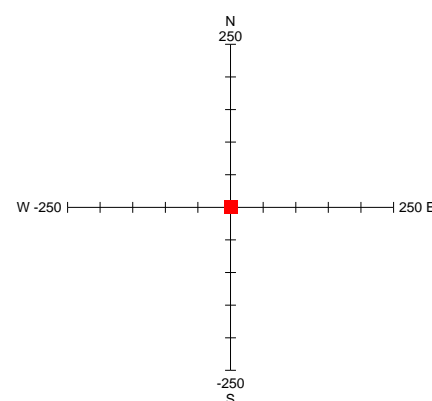
### Profile View of Well Path



### Location Map



### Plan View of Well Path



### Well Configuration

#### Hole and Casing Details

Bit Size (Inch)	Hole depth (mMDRT)	Casing Size (Inch)	Shoe depth (mMDRT)	Hanger (mMDRT)	Comments
17"	10.35	14"	10.00		
12 1/4"	65.57	9 5/8"	64.27		
8 1/2"	634.77	7"	597.33		

#### Wireline Logging Summary

Run	Hole/Casing Size	Suite	Date(s)	Interval m MD	Max Temp	Comments
1	8 1/2"	GR-MAI-MFE-MSS-MPD-MDN-MML	24-06-2011	634.14 5	41°C BHT, 5hours 10 minutes after last circulation	Performed by Weatherford

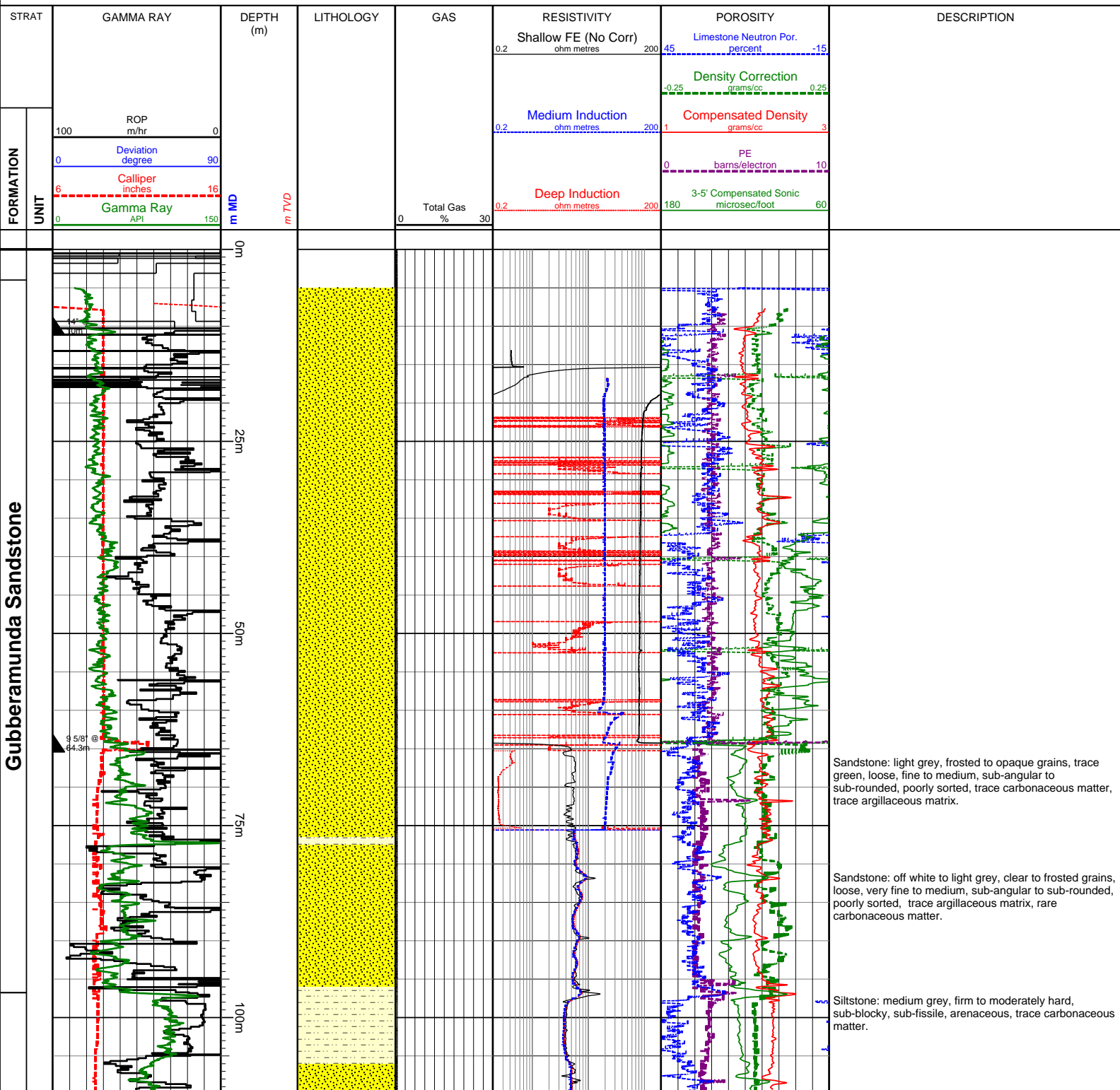


**Key**

	Breccia		Limestone		Boundstone		Carbonaceous		Cored Interval (wireline depths) (no recovery)		DST
	Conglomerate		Dolomitic Limestone		Grainstone		Bituminous		Cored Interval (drilled depths) (no recovery)		Perforated Interval
	Sand/Sandstone		Dolomite		Mudstone		Oolitic		Sidewall Core		RCI
	Silt/Siltstone		Calcareous Dolomite		Packstone		Chalky		Casing Shoe		(failed)
	Clay/Claystone		Chert		Wackestone		Glauconitic		Liner Hanger		(sample taken)
	Marl		Anhydrite		Silty		Micaceous		Bridge Plug		Survey Point
	Shale		Halite		Argillaceous		Pyritic		Lost Circulation		Cement Plug
	Tuff		Polyhalite		Calcareous		Spicules				
	Volcanics		Coal/Lignite		Dolomitic		Fossils				
					Brecciated LMST		Silicified LMST				

Scale 1:500

Date: 30/07/2012

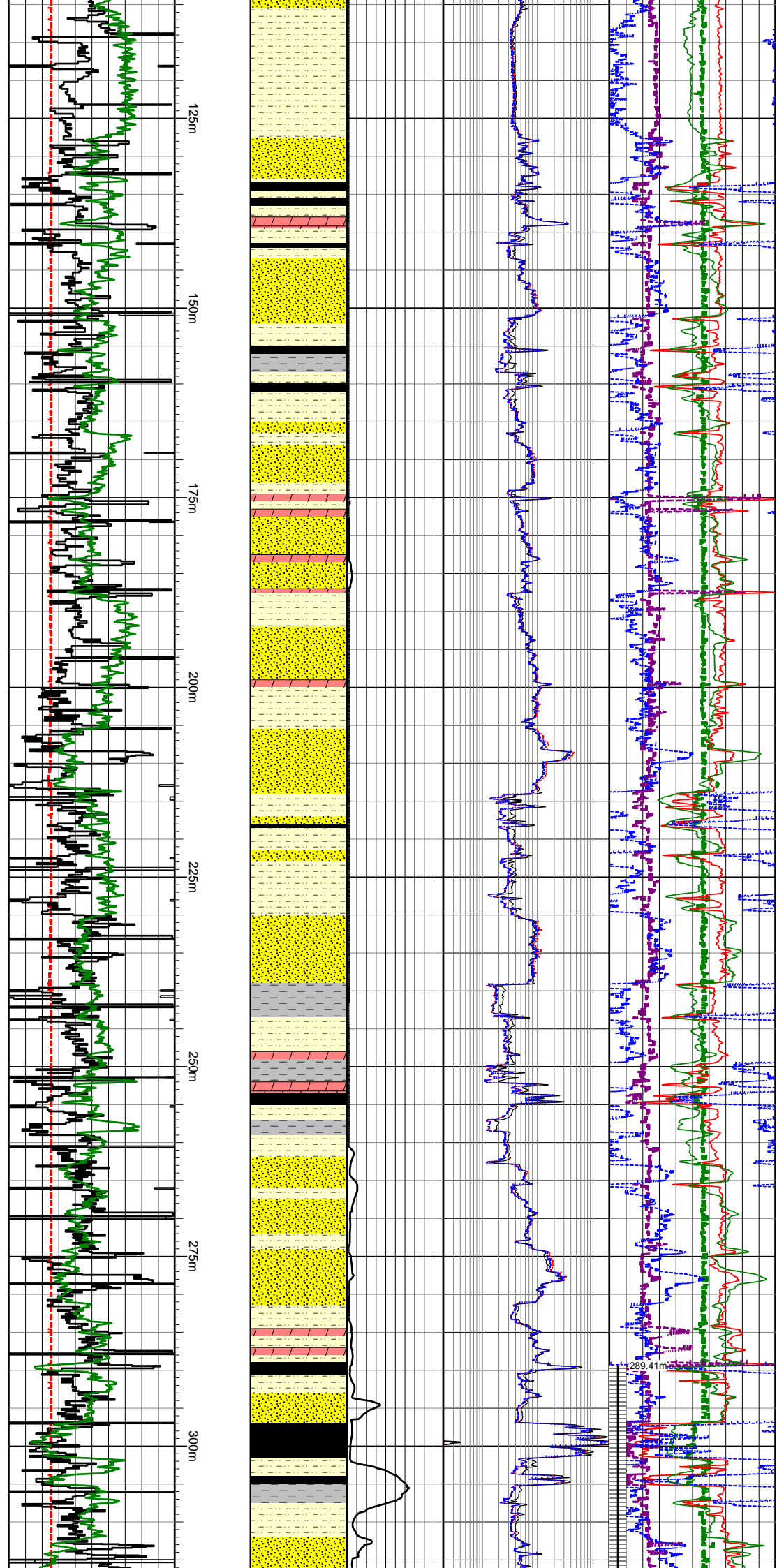


Westbourne Formation

Norwood Mudstone

Springbok Sandstone

Measures



Coal: black, sub-fissile to fissile, firm, dull to sub-vitreous.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Sandstone: off white, clear to frosted grains, loose with common moderately hard aggregates, very fine, angular to sub-rounded, poorly sorted, moderate to strong siliceous cement.

Claystone: medium to dark grey, firm to moderately hard, sub-blocky, sub-fissile.

Siltstone: light grey, firm, sub-blocky, sub-fissile, arenaceous, trace carbonaceous matter.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Sandstone: off white to light grey, clear to frosted grains, loose with common friable to moderately hard aggregates, very fine to medium, sub-angular to sub-rounded, poorly sorted, common argillaceous matrix, common carbonaceous matter.

Coal: black, hard, sub-fissile, sub-vitreous.

Siltstone: medium grey, firm, sub-blocky, sub-fissile, arenaceous in parts, common carbonaceous matter.

Claystone: light to medium grey, blueish grey in parts, firm, sub-blocky, sub-fissile, trace carbonaceous matter.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Coal: black, hard, sub-fissile, sub-vitreous.

Siltstone: light to medium grey, dark grey in parts, firm to moderately hard, sub-blocky to blocky, sub-fissile to fissile, abundant carbonaceous matter.

Sandstone: off white to light grey, translucent to frosted grains, loose with common friable to moderately hard aggregates, very fine to medium, sub-angular to sub-rounded, poorly sorted, weak siliceous cement, common carbonaceous matter.

289.41m

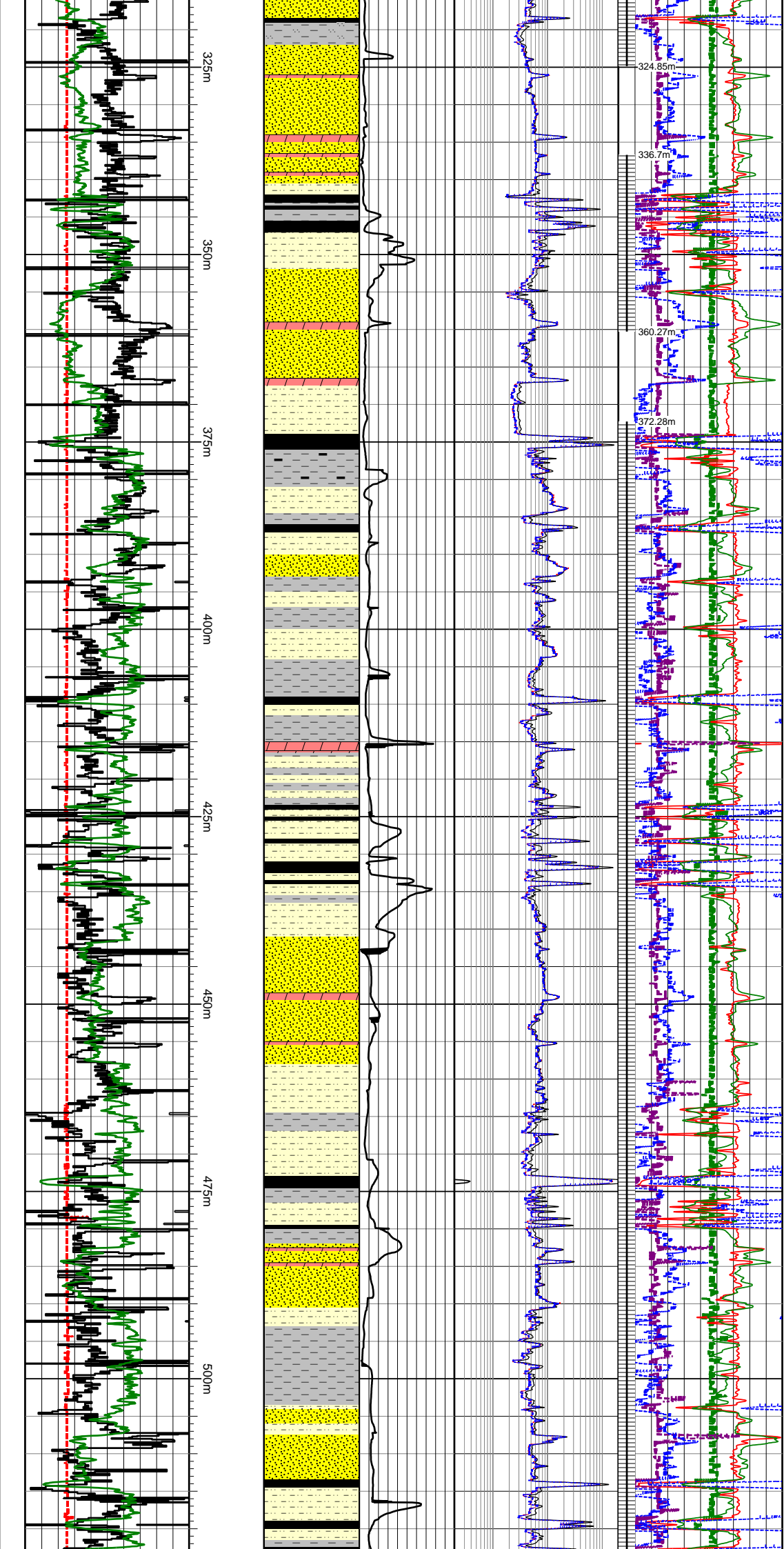
Coal: black, hard, sub-fissile, sub-vitreous.

Claystone: light to medium grey, firm, sub-blocky, sub-fissile.

Upper Juandah Coal Measures

Lower Juandah Coal Measures

Tangalooma Sandstone



Arenaceous Claystone: off white to light grey, soft, sticky, amorphous, common carbonaceous matter.

Sandstone: off white to medium grey, clear to frosted grains, loose with common friable aggregates, fine to medium, sub-angular to sub-rounded, moderately sorted, common carbonaceous matter, trace silty matrix.

Coal: black, hard, sub-fissile, sub-vitreous.

Siltstone: medium grey, firm to moderately hard, sub-blocky, sub-fissile.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Carbonaceous Claystone: dark brown, soft to firm, blocky, fissile.

Coal: black, hard, sub-fissile, sub-vitreous.

Claystone: light to medium grey, firm, sub-blocky, sub-fissile.

Coal: black, hard, sub-fissile, sub-vitreous.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Coal: black, hard, sub-fissile, sub-vitreous.

Sandstone: off white to light grey, clear to frosted grains, loose to unconsolidated, fine, sub-angular to sub-rounded, moderately sorted, abundant argillaceous matrix, abundant carbonaceous matter.

Coal: black, hard, sub-fissile, sub-vitreous.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Siltstone: light to medium grey, soft to firm, sub-blocky, sub-fissile, trace carbonaceous matter.

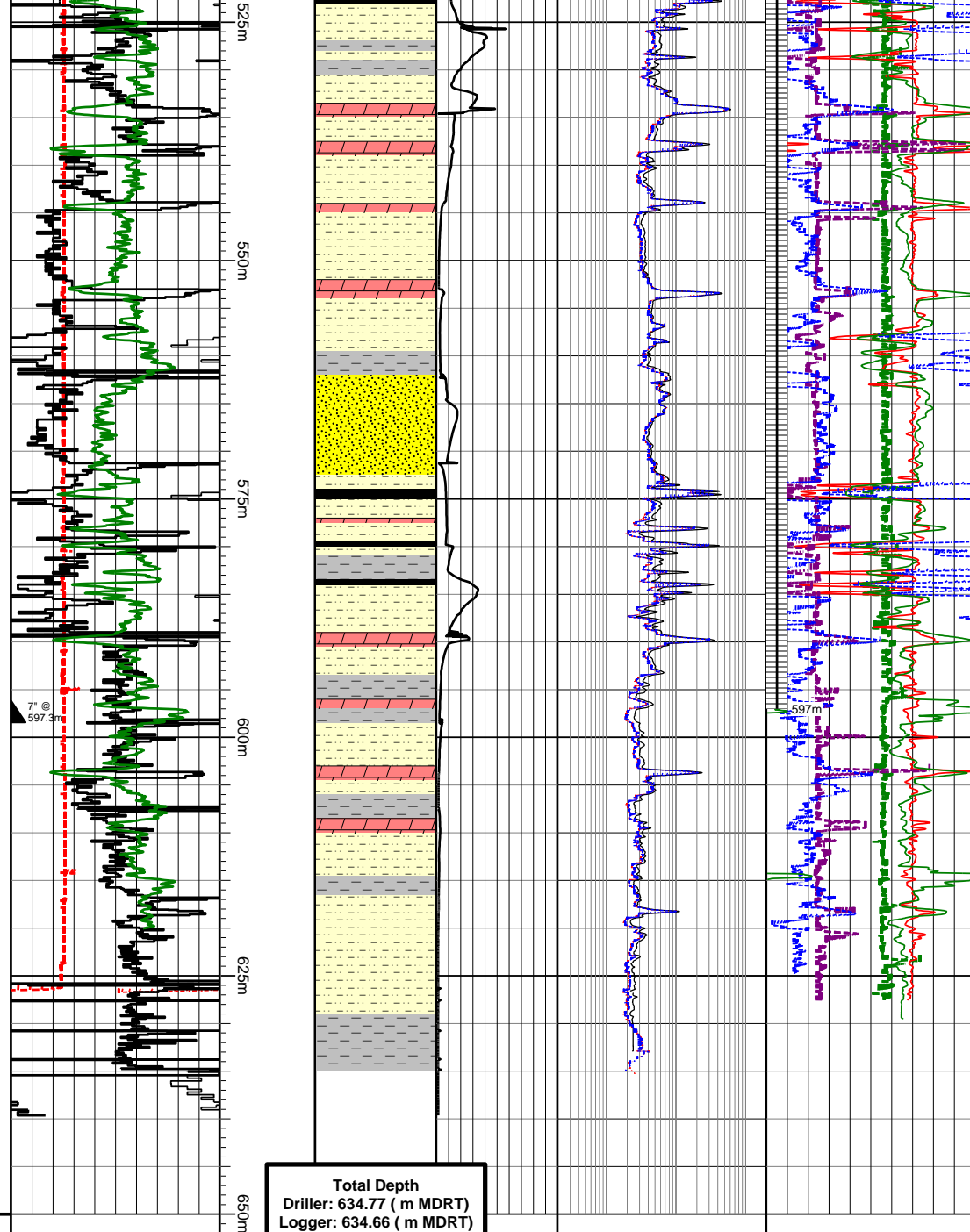
Claystone: light grey, soft, amorphous.

Coal: black, hard, sub-fissile, sub-vitreous.

Siltstone: light to medium grey, firm, sub-blocky, sub-fissile, arenaceous in parts, common carbonaceous matter.

**Taroom Coal Measures**

**Durabilla Formation**



Claystone: medium grey, firm to moderately hard, sub-blocky, sub-fissile, silty in parts.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Sandstone: light to medium grey, clear to frosted grains, loose, trace moderately hard aggregates, very fine to fine, sub-angular to sub-rounded, poorly sorted, common carbonaceous matter.

Coal: black, hard, sub-fissile, sub-vitreous.

Siltstone: light to medium grey, firm, sub-blocky, sub-fissile, common carbonaceous matter.

Claystone: light olive grey to medium grey, soft to firm, sub-blocky to blocky, sub-fissile to fissile.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

**Total Depth**  
**Driller: 634.77 (m MDRT)**  
**Logger: 634.66 (m MDRT)**

Gamma Ray API 0 150	Total Gas % 0 30	Deep Induction ohm metres 0.2 200 45	Limestone Neutron Por. percent -15
Calliper inches 6 16		Medium Induction ohm metres 0.2 200 -0.25	Density Correction grams/cc 0.25
Deviation degree 0 90		Shallow FE (No Corr) ohm metres 0.2 200 1	Compensated Density grams/cc 3
ROP m/hr 100 0			PE barns/electron 0 10
			3-5' Compensated Sonic microsec/foot 180 60

**Berwyndale 51**

**DST**

Test#	Unit Seam Tested	From (mRT)	To (mRT)	Initial Shut In (Time/Pressure)	Final Shut In (Time/Pressure)	Surface Flow Descriptions	Recovery (Formation Fluid)
-	No DST Programmed			-	-	-	-

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**APPENDIX 5**  
**LITHOLOGY LOG**

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# Wellsite Lithology Log (MD)



## Berwyndale 51

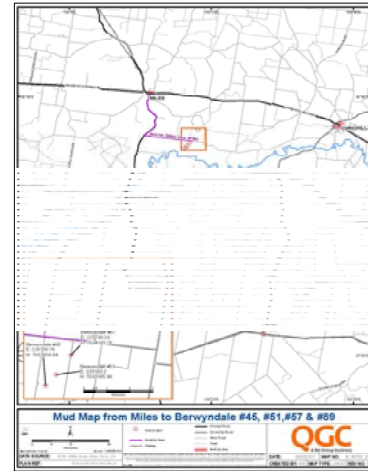
**PARTNERS**  
BG International

**PERMIT**  
PL 211  
**OPERATOR**  
QGC

### GENERAL WELL DATA

DRILLING RIG : Weatherford 2	GL :	301.21m
DATE ON LOC : 21-06-2011	RT :	305.21m
SPUD DATE : 22-06-2011	TARGET DEPTH :	665m
RELEASE DATE : 25-06-2011	DRILLER DEPTH :	634.77m
LAT : 26° 47' 48.4880" S	LOGGER DEPTH :	634.66m
LONG : 150° 16' 33.6828" E		
LAT (DEC) : 26.79681° S	WELLSITE GEO :	Phill Baynes
LONG (DEC) : 150.276004° E	OPERATIONS GEO :	Imanto Sadik
BASIN : Surat		

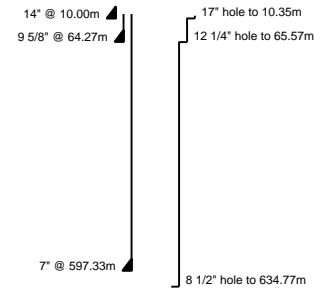
### LOCATION MAP



### HOLE AND CASING DATA

Hole Size	Hole TD (m)		Casing Diameter	Shoe Depth (m)		External Casing (m)		Comments
	Driller	TVD		MD	TVD	MD	TVD	
17"	10.35		14"	10.00				
12 1/4"	65.57		9 5/8"	64.27				
8 1/2"	634.77		7"	597.33				

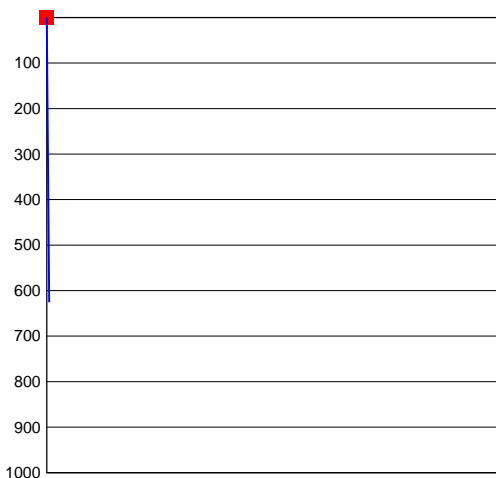
### WELL STRUCTURE



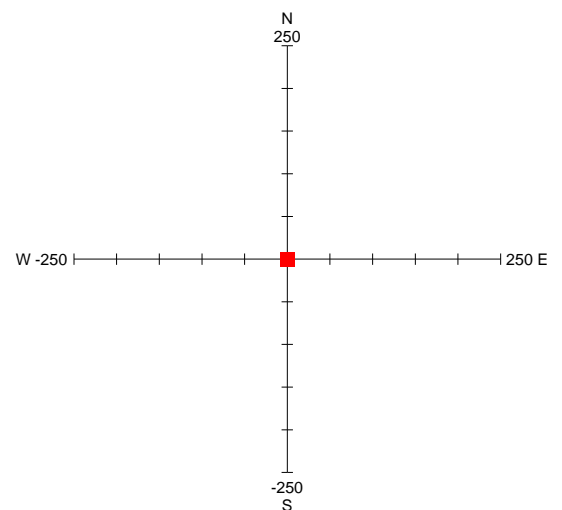
### CONTRACTORS

Drilling	Weatherford Ltd
Wireline	Weatherford Ltd
Cement	Halliburton Pty Ltd
Cement	Wagners Pty Ltd

### Well Profile view



### Plan view



VERTICAL SCALE 1:500

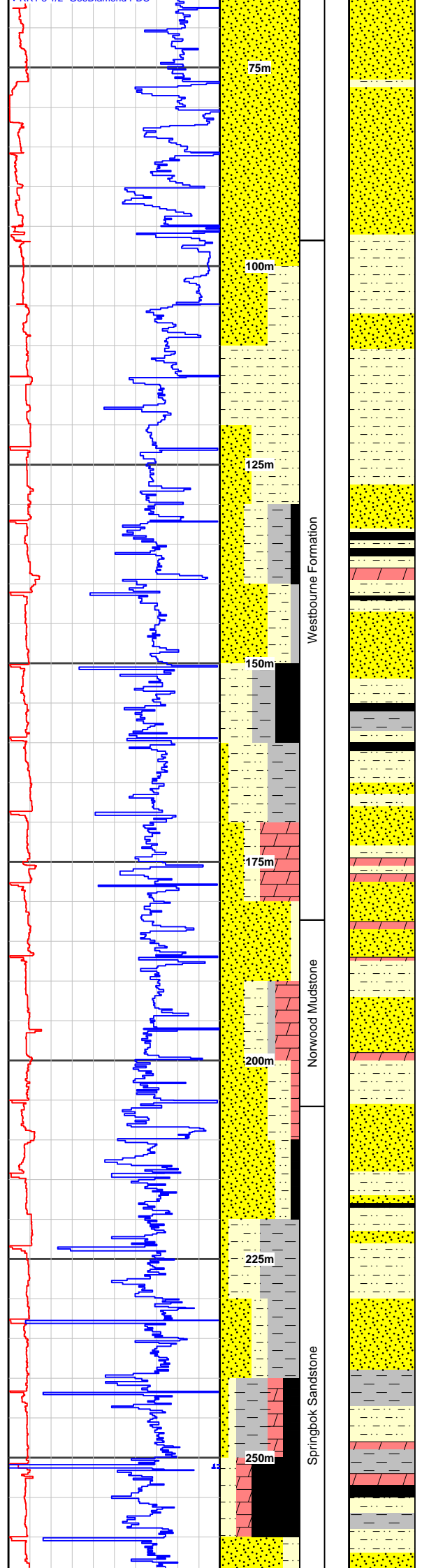
Log created using Winlog 6.7.0.6. Print date: 30/07/2012

### Events and Remarks

Date(s)	Depth(s)	Event / Remark
22-06-2011	10.35	Spud 12 1/4" Section
22-06-2011	65.57	Run 9 5/8" Casing
22-06-2011	65.57	Nipple up BOP
22-06-2011	65.57	Pressure test
23-06-2011	65.57	PIH with 8 1/2" BHA



Dens: 1.6-1.8  
 Visc: 10-30 cP  
 O/W:   
 Eq. NaCl:   
 CaCl2:   
 PH:



Sandstone: light grey, frosted to opaque grains, trace green, loose, fine to medium, sub-angular to sub-rounded, poorly sorted, trace carbonaceous matter, trace argillaceous matrix.

Sandstone: off white to light grey, clear to frosted grains, loose, very fine to medium, sub-angular to sub-rounded, poorly sorted, trace argillaceous matrix, rare carbonaceous matter.

Siltstone: medium grey, firm to moderately hard, sub-blocky, sub-fissile, arenaceous, trace carbonaceous matter.

Coal: black, sub-fissile to fissile, firm, dull to sub-vitreous.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Sandstone: off white, clear to frosted grains, loose with common moderately hard aggregates, very fine, angular to sub-rounded, poorly sorted, moderate to strong siliceous cement.

Claystone: medium to dark grey, firm to moderately hard, sub-blocky, sub-fissile.

Siltstone: light grey, firm, sub-blocky, sub-fissile, arenaceous, trace carbonaceous matter.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Sandstone: off white to light grey, clear to frosted grains, loose with common friable to moderately hard aggregates, very fine to medium, sub-angular to sub-rounded, poorly sorted, common argillaceous matrix, common carbonaceous matter.

Coal: black, hard, sub-fissile, sub-vitreous.

Siltstone: medium grey, firm, sub-blocky, sub-fissile, arenaceous in parts, common carbonaceous matter.

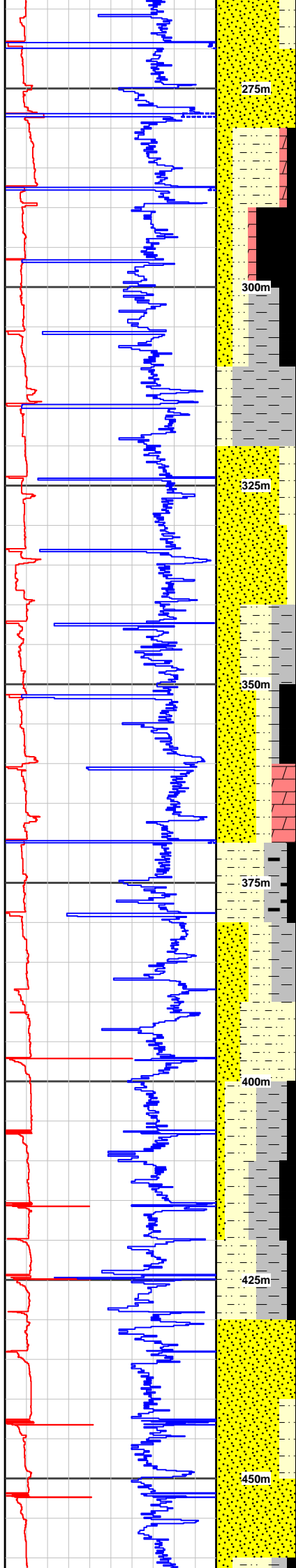
Claystone: light to medium grey, blueish grey in parts, firm, sub-blocky, sub-fissile, trace carbonaceous matter.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Coal: black, hard, sub-fissile, sub-vitreous.

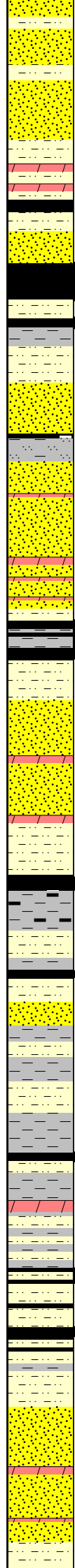
Siltstone: light to medium grey, dark grey in parts, firm to moderately hard, sub-blocky to blocky.





Upper Juandah Coal Measures

Lower Juandah Coal Measures



sub-fissile to fissile, abundant carbonaceous matter.

Sandstone: off white to light grey, translucent to frosted grains, loose with common friable to moderately hard aggregates, very fine to medium, sub-angular to sub-rounded, poorly sorted, weak siliceous cement, common carbonaceous matter.

Coal: black, hard, sub-fissile, sub-vitreous.

Claystone: light to medium grey, firm, sub-blocky, sub-fissile.

Arenaceous Claystone: off white to light grey, soft, sticky, amorphous, common carbonaceous matter.

Sandstone: off white to medium grey, clear to frosted grains, loose with common friable aggregates, fine to medium, sub-angular to sub-rounded, moderately sorted, common carbonaceous matter, trace silty matrix.

Coal: black, hard, sub-fissile, sub-vitreous.

Siltstone: medium grey, firm to moderately hard, sub-blocky, sub-fissile.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Carbonaceous Claystone: dark brown, soft to firm, blocky, fissile.

Coal: black, hard, sub-fissile, sub-vitreous.

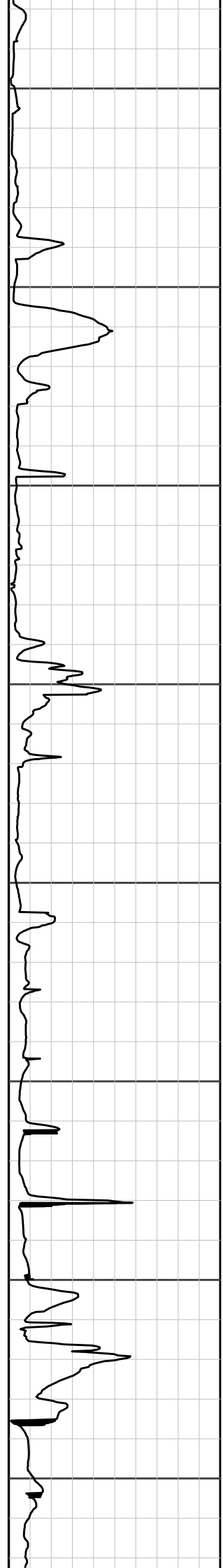
Claystone: light to medium grey, firm, sub-blocky, sub-fissile.

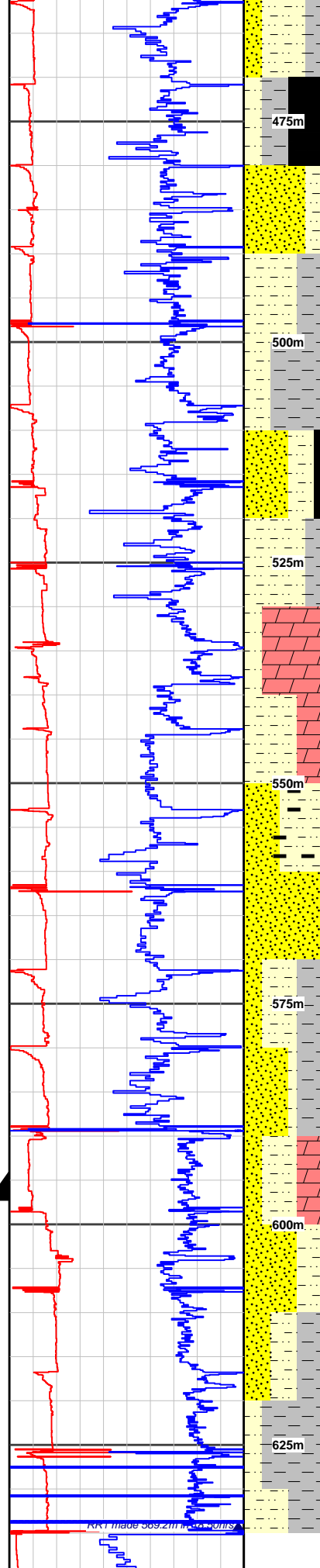
Coal: black, hard, sub-fissile, sub-vitreous.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Coal: black, hard, sub-fissile, sub-vitreous.

Sandstone: off white to light grey, clear to frosted grains, loose to unconsolidated, fine, sub-angular to sub-rounded, moderately sorted, abundant argillaceous matrix, abundant carbonaceous matter.





Tangalooma Sandstone

Taroom Coal Measures

Durabilla Formation

475m  
500m  
525m  
550m  
575m  
600m  
625m

Coal: black, hard, sub-fissile, sub-vitreous.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

Siltstone: light to medium grey, soft to firm, sub-blocky, sub-fissile, trace carbonaceous matter.

Claystone: light grey, soft, amorphous.

Coal: black, hard, sub-fissile, sub-vitreous.

Siltstone: light to medium grey, firm, sub-blocky, sub-fissile, arenaceous in parts, common carbonaceous matter.

Claystone: medium grey, firm to moderately hard, sub-blocky, sub-fissile, silty in parts.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.

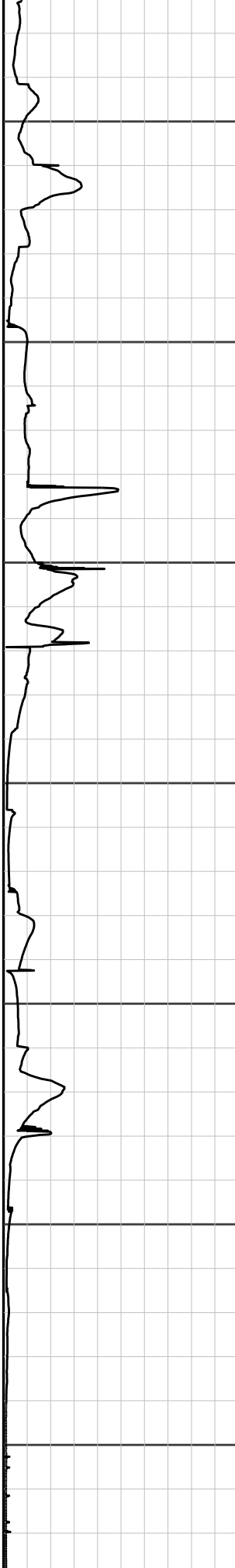
Sandstone: light to medium grey, clear to frosted grains, loose, trace moderately hard aggregates, very fine to fine, sub-angular to sub-rounded, poorly sorted, common carbonaceous matter.

Coal: black, hard, sub-fissile, sub-vitreous.

Siltstone: light to medium grey, firm, sub-blocky, sub-fissile, common carbonaceous matter.

Claystone: light olive grey to medium grey, soft to firm, sub-blocky to blocky, sub-fissile to fissile.

Sideritic Claystone: tan to brownish orange, moderately hard to hard, brittle, sub-blocky, sub-fissile.



7" Shoe @ 597.33m

RRT made 509.21m in 200m

625.540m  
625.53m TVDBRT  
Inc: 0.5°  
Azi: 0°

634.77

8 1/2"

200 ROP m/hr 0

0 Total Gas % 40

WOB  
kibs

0 50

DRILLING PARAMETERS

GAS

## Berwyndale 51

### BIT SUMMARY TABLE

BHA No	BIT No	BIT STATUS	MAKE	TYPE	SIZE	TFA / JETS	DEPTH IN (m)	PROGRESS MADE	ROTATING HOURS	AVERAGE ROP	GRADING	REMARKS
1	1	RR	GeoDiamond	PDC	12 1/4"	7x24	10.35	55.22	2.5	22.1	1-1-WT-A-X-1-CT-TD	-
2	1	RR	GeoDiamond	PDC	8 1/2"	5x022	65.57	569.2	18.50	30.8	Not recorded	-

### LOGS SUMMARY

No.	Suites	Dates	Hole Size	Start Depth	End Depth	Max Temperature	Comments
1	GR-MAI-MFE-MSS-MPD-MDN-MML	24-06-2011	8 1/2"	634.14	5	41°C BHT, 5hours 10 minutes after last circulation	Performed by Weatherford

### DST

No.	Top MD	Base MD	Top TVDBRT	Base TVDBRT	Comments
					No DST Programmed

### UNDER REAMING

Coal Measures	Ream From MD	Ream To MD	Diameter	Thickness
Juandah Coal Measures	296.9	301.7	16"	4.8
Juandah Coal Measures	303.8	305.2	16"	1.4
Juandah Coal Measures	341.9	346.8	16"	4.9
Juandah Coal Measures	374.3	375.9	16"	1.6
Juandah Coal Measures	386.1	386.9	16"	0.8
Juandah Coal Measures	408.9	410.1	16"	1.2
Juandah Coal Measures	423.5	425.4	16"	1.9
Juandah Coal Measures	430.9	432.1	16"	1.2
Juandah Coal Measures	473.1	474.4	16"	1.3
Juandah Coal Measures	513.8	514.5	16"	0.7
Taroom Coal Measures	518.8	520.1	16"	1.3
Taroom Coal Measures	573.8	574.9	16"	1.1
Taroom Coal Measures	579.6	584.9	16"	5.3

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**APPENDIX 6**

**PASON LOG**

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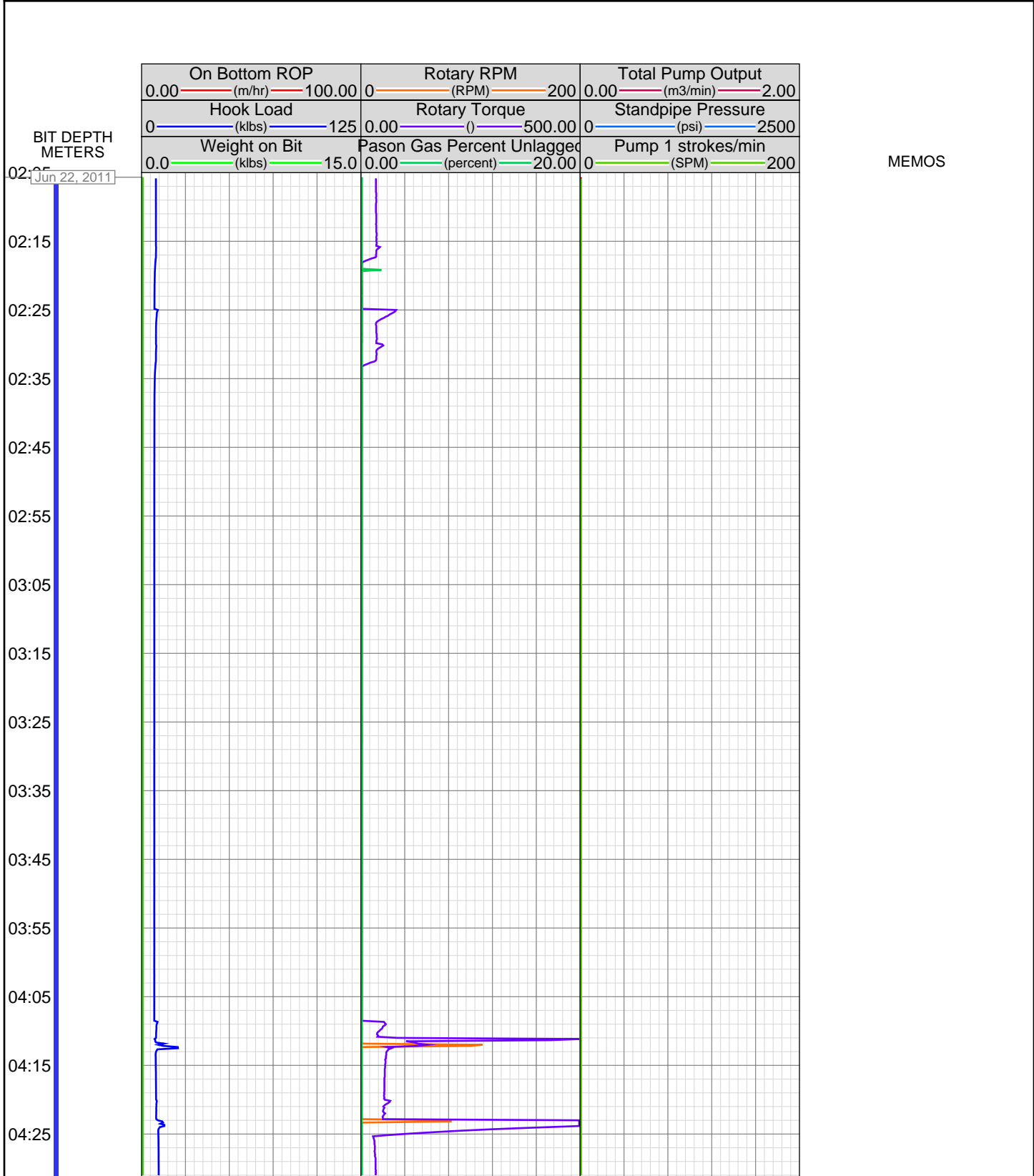
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# DataHub EDR Log

Sun Jun 26, 2011 06:36:58  
Well Dossier 3190588  
Nestor Fernandes

<b>OPERATOR:</b> Queensland Gas Company	<b>CONTRACTOR:</b> Des Caling Pty Ltd
<b>WELL:</b> BERWYNDALE #51 WEATHERFORD RIG #2	<b>UNIQUE WELL ID:</b>
<b>FIELD:</b>	<b>SPUD DATE:</b>
<b>LOCATION:</b>	<b>RELEASE DATE:</b>
<b>COUNTRY:</b> Australia Metric	<b>FROM DATE:</b> Jun 22, 2011 00:00
<b>RIG:</b> Des Caling Pty 2	<b>TO DATE:</b> Jun 25, 2011 23:59



04:35  
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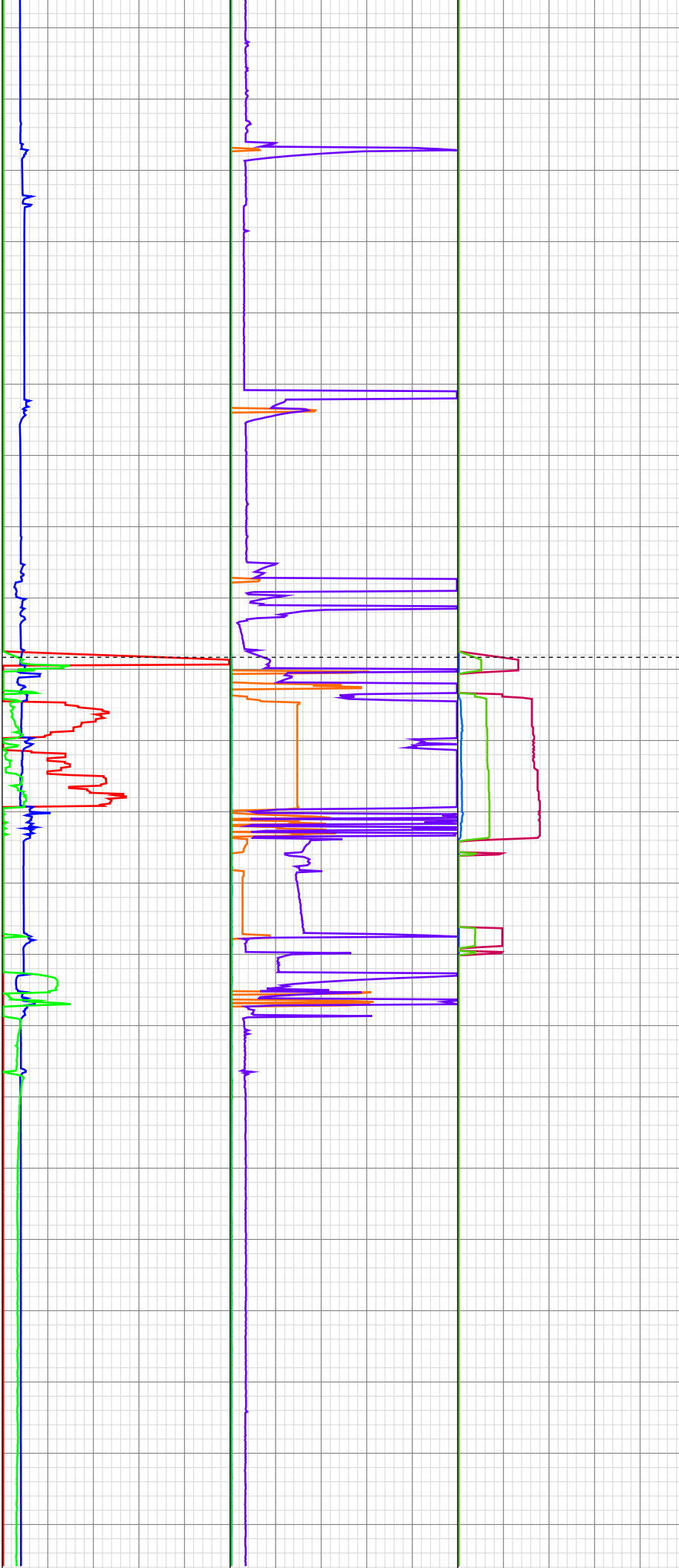
12  
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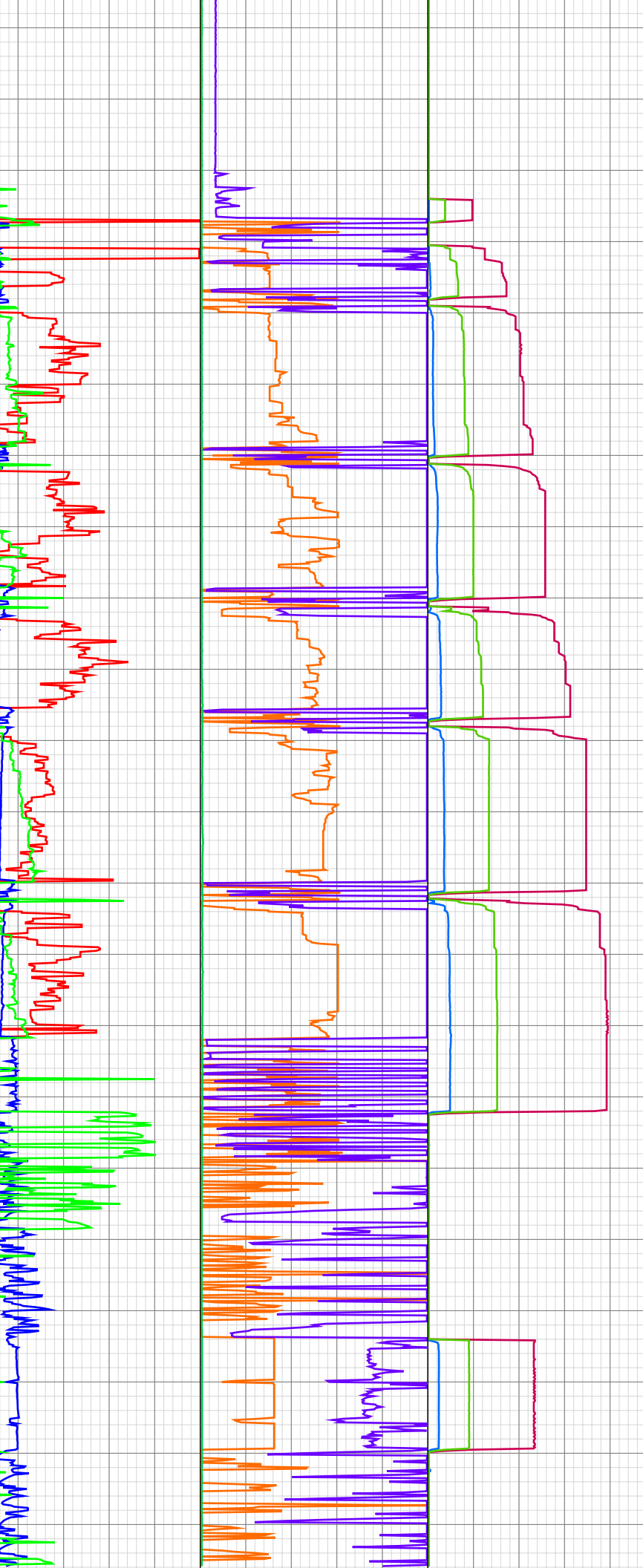
06/22 07:01:00: Connection at 10.29

06/22 07:07:00: TAG NEW  
FORMATION AT 10.35M

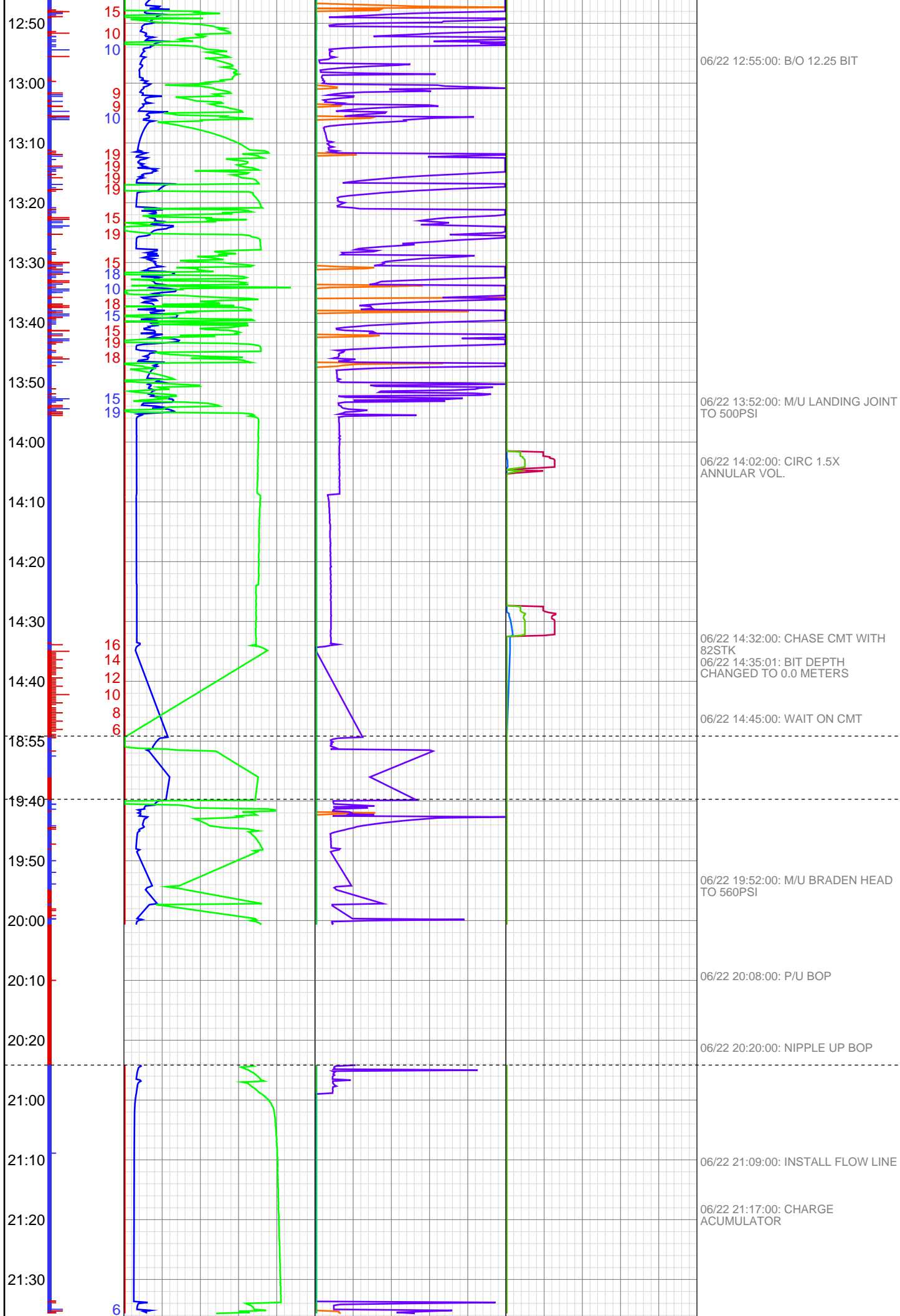


09:10  
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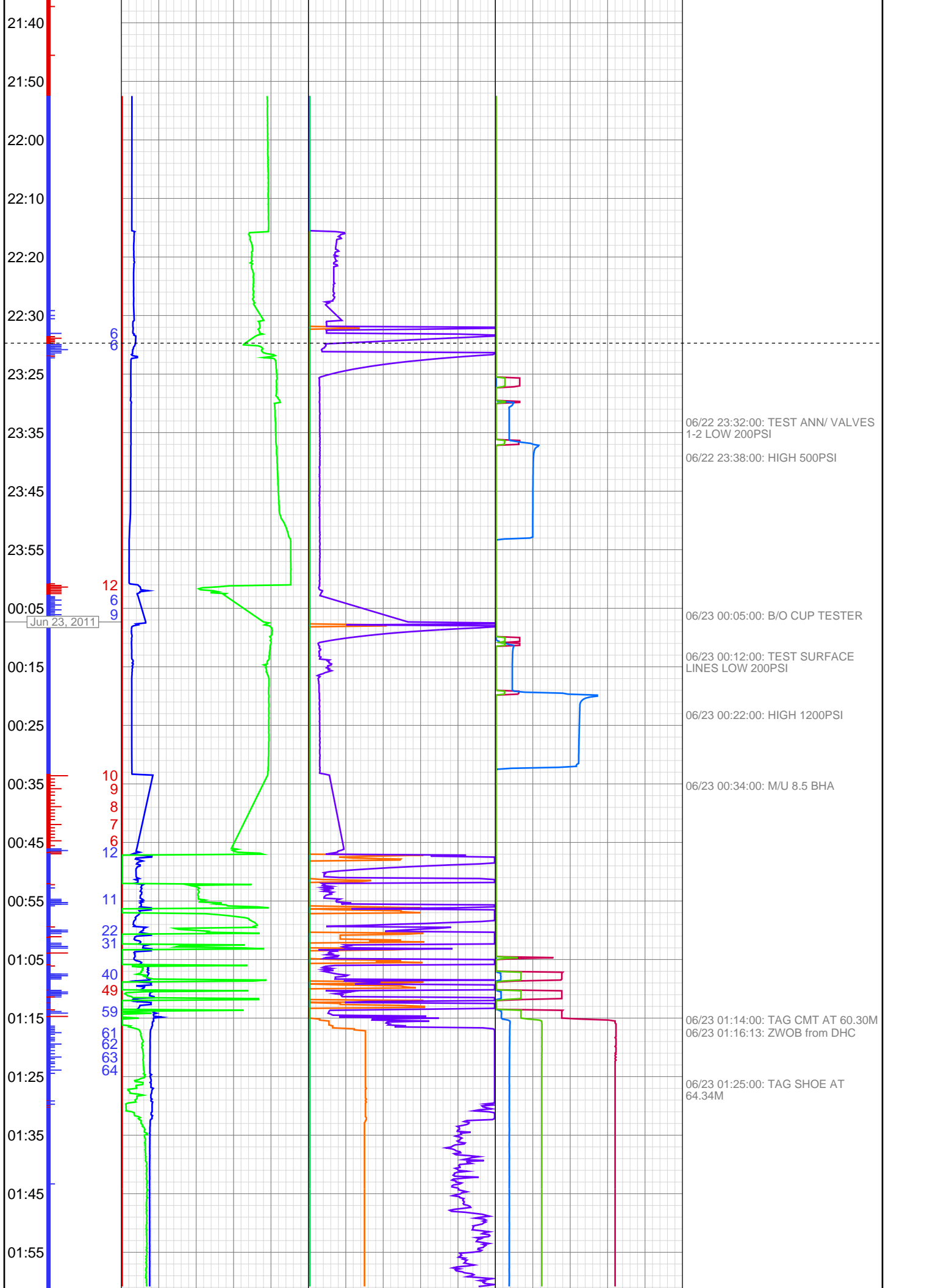
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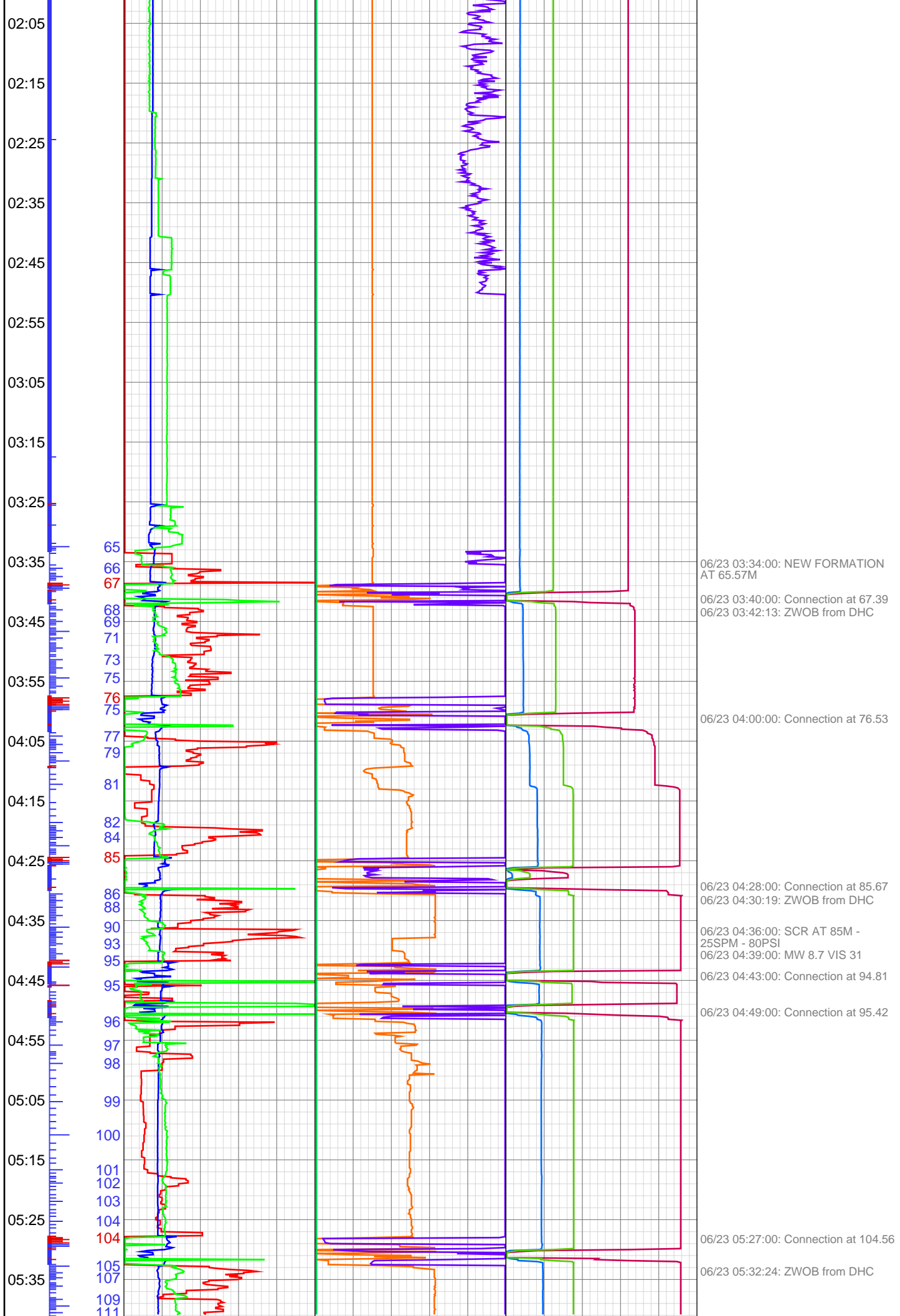


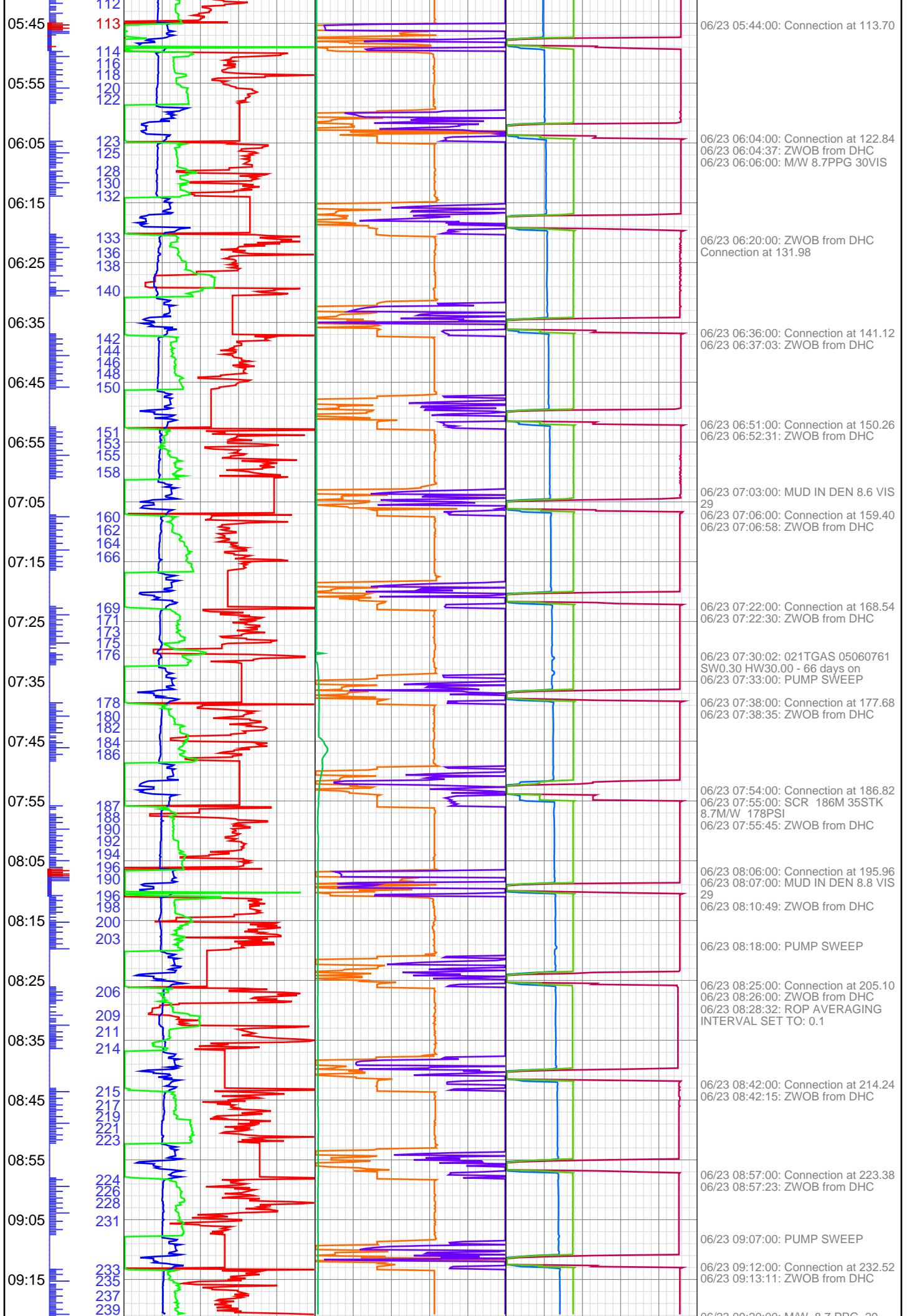
06/22 09:39:33: BIT DEPTH  
CHANGED TO 10.29 METERS  
06/22 09:40:25: HOLE DEPTH  
CHANGED TO 10.29 METERS  
06/22 09:46:00: Connection at 19.43  
06/22 09:49:51: ZWOB from DHC  
06/22 10:10:00: Connection at 28.57  
06/22 10:30:00: Connection at 37.71  
06/22 10:47:00: Connection at 46.85  
06/22 10:48:49: ZWOB from DHC  
06/22 11:11:00: Connection at 55.99  
06/22 11:33:00: CIRCULATE  
06/22 11:42:00: POOH  
06/22 11:57:00: CLEAN AND  
INSPECT BIT.  
06/22 11:59:29: BIT DEPTH  
CHANGED TO 10.29 METERS  
06/22 12:14:00: NO FILL CIRC  
06/22 12:29:00: POOH BHA

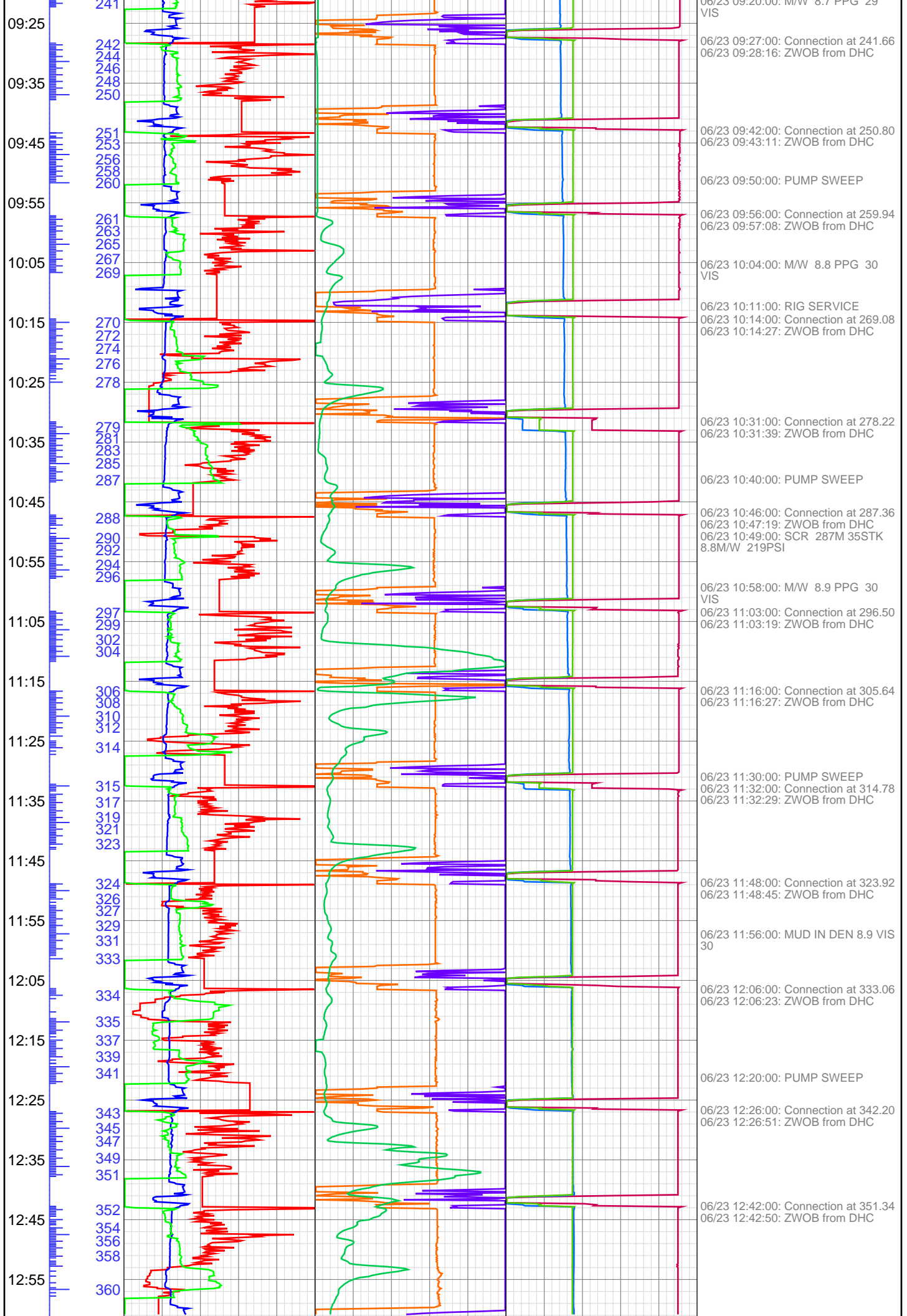


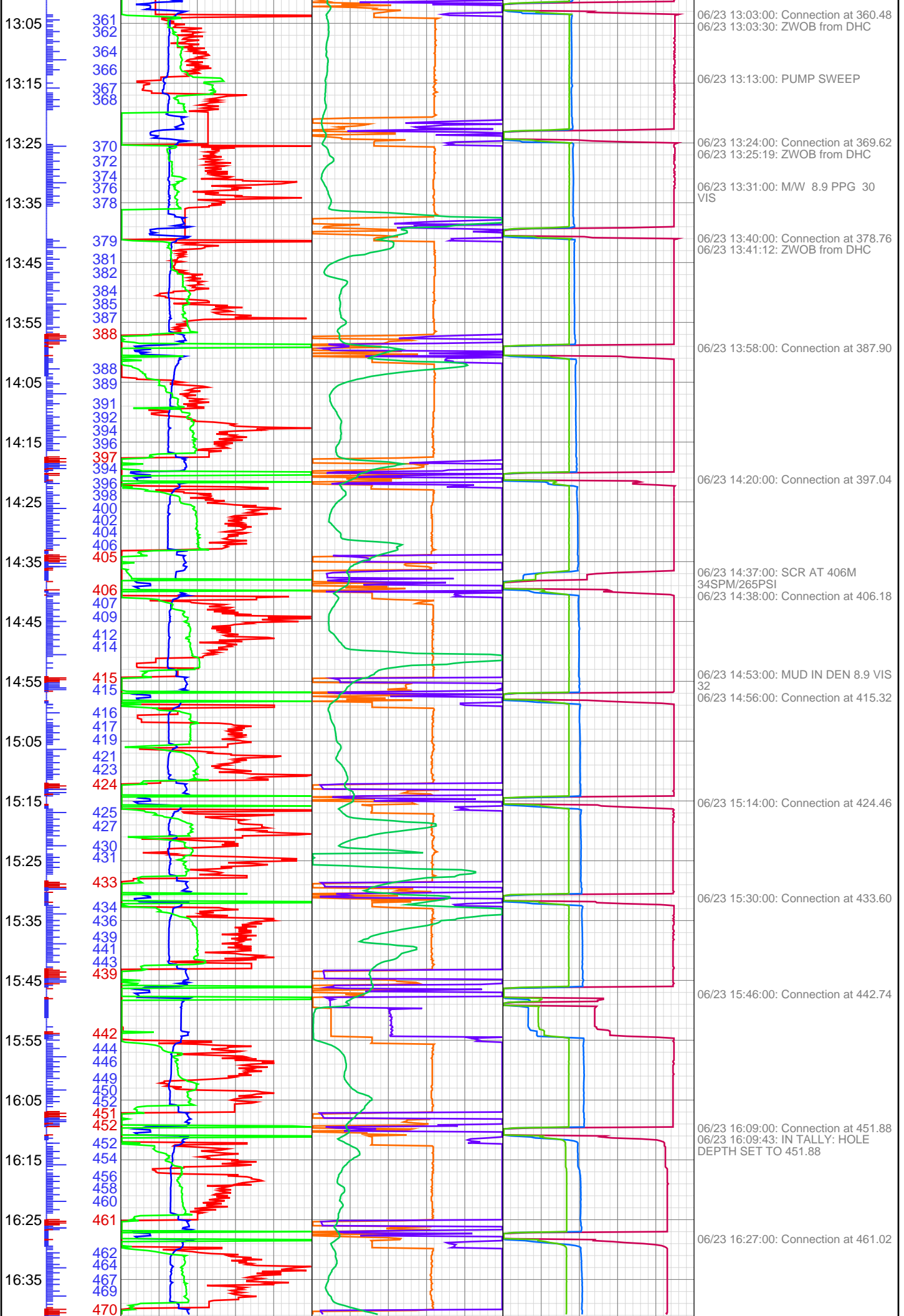


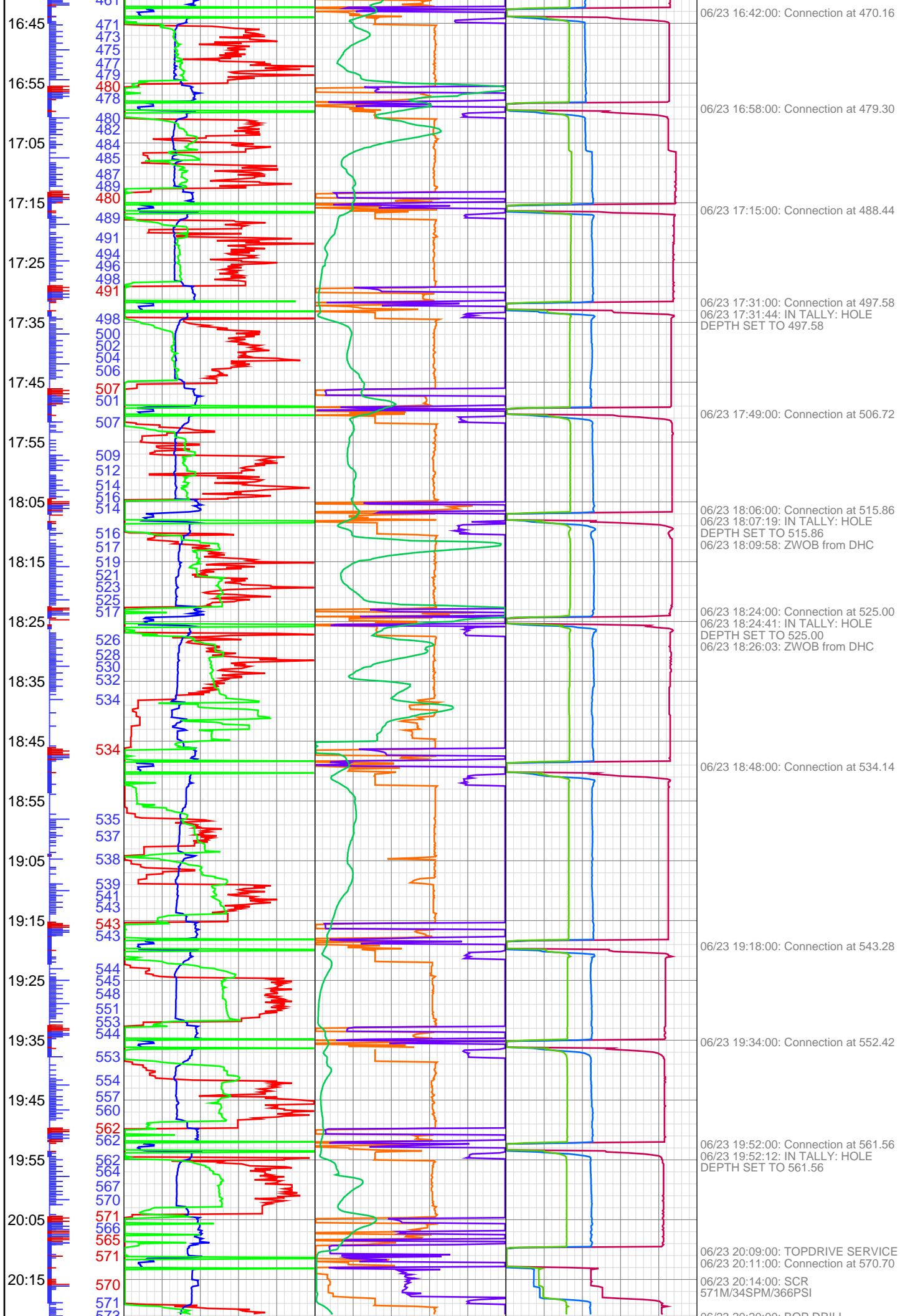


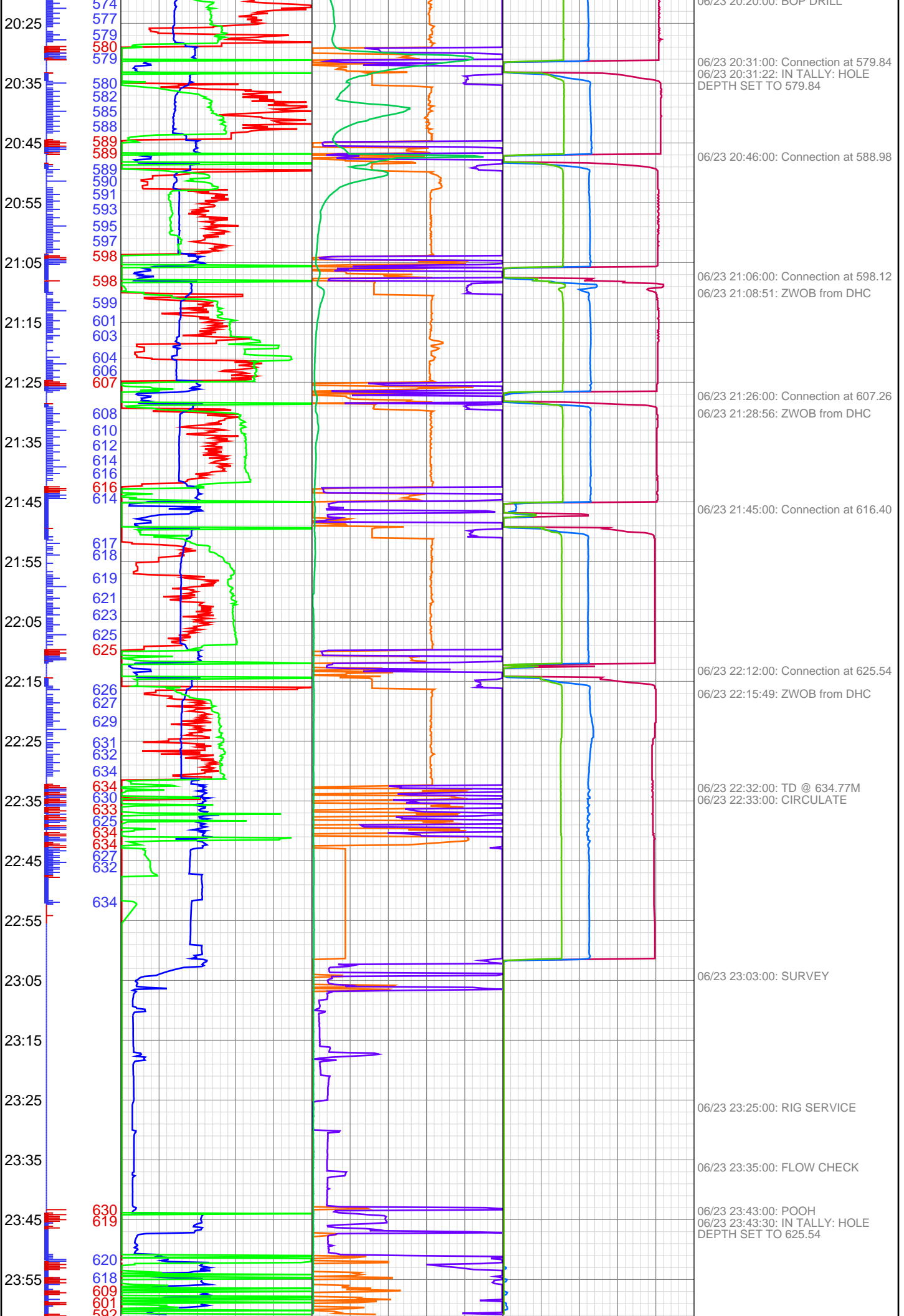


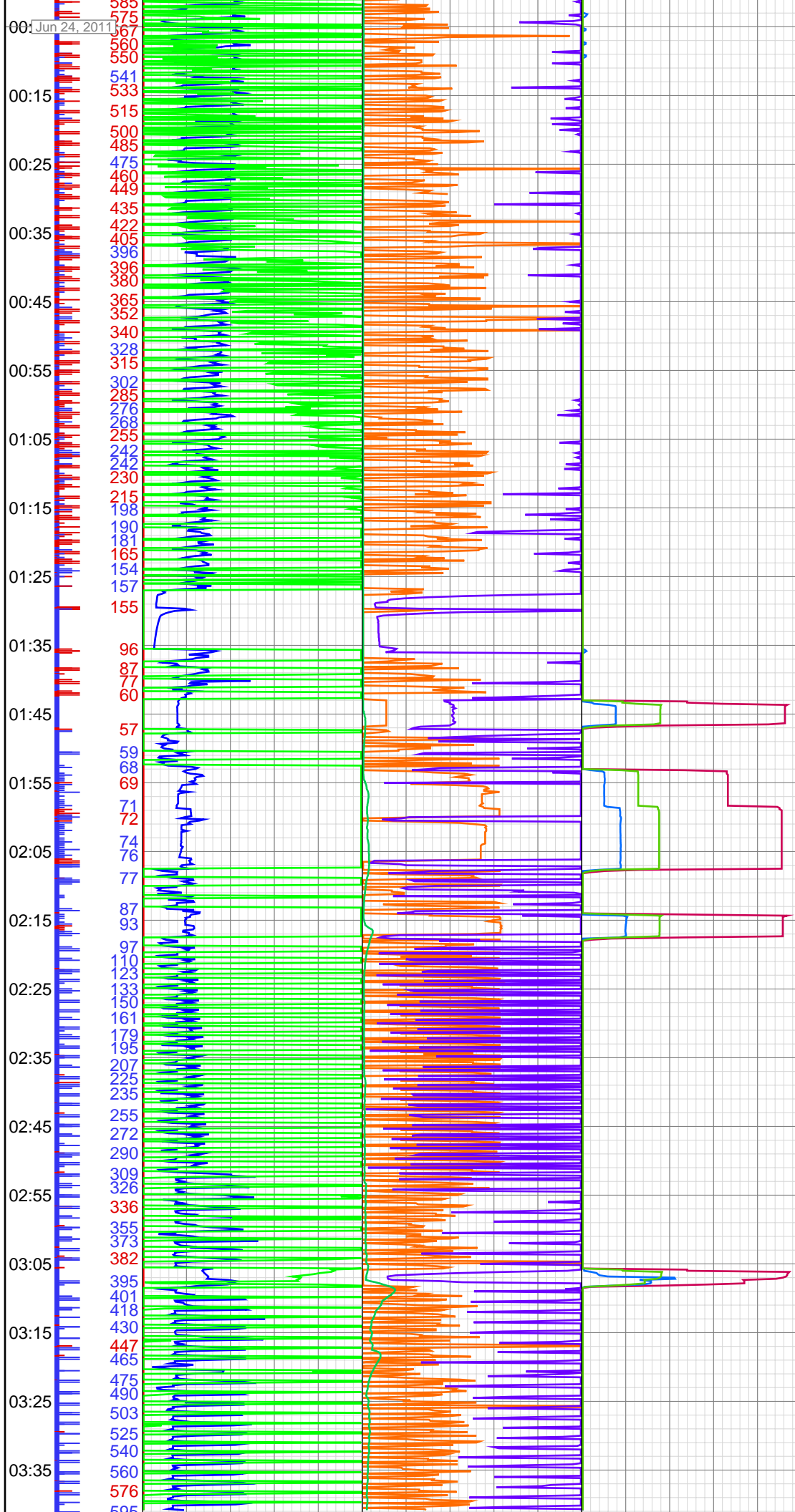












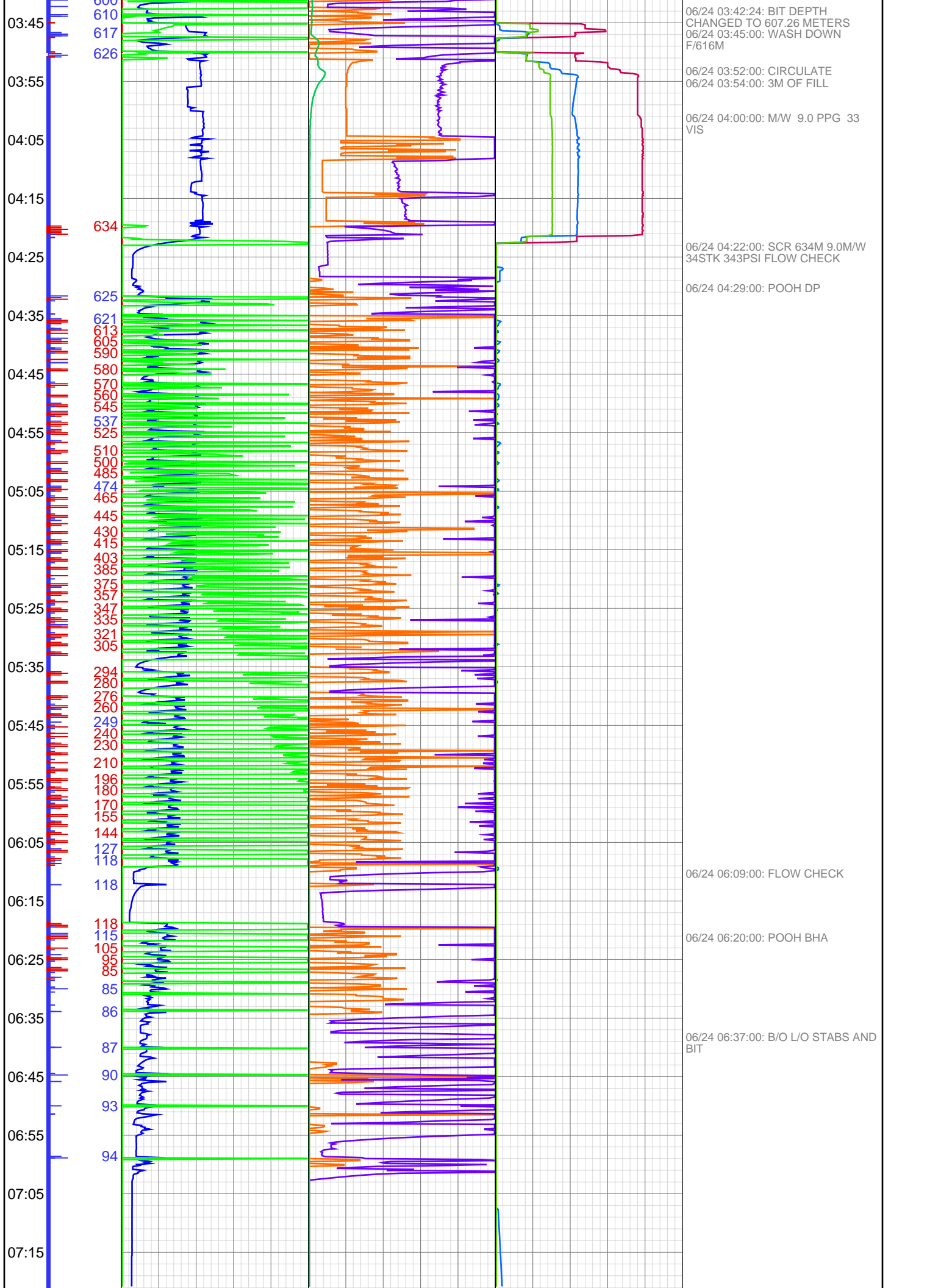
06/24 01:27:00: FLOW CHECK  
06/24 01:29:38: BIT DEPTH  
CHANGED TO 95.0 METERS

06/24 01:44:00: FLUSH STABS AND  
BIT.

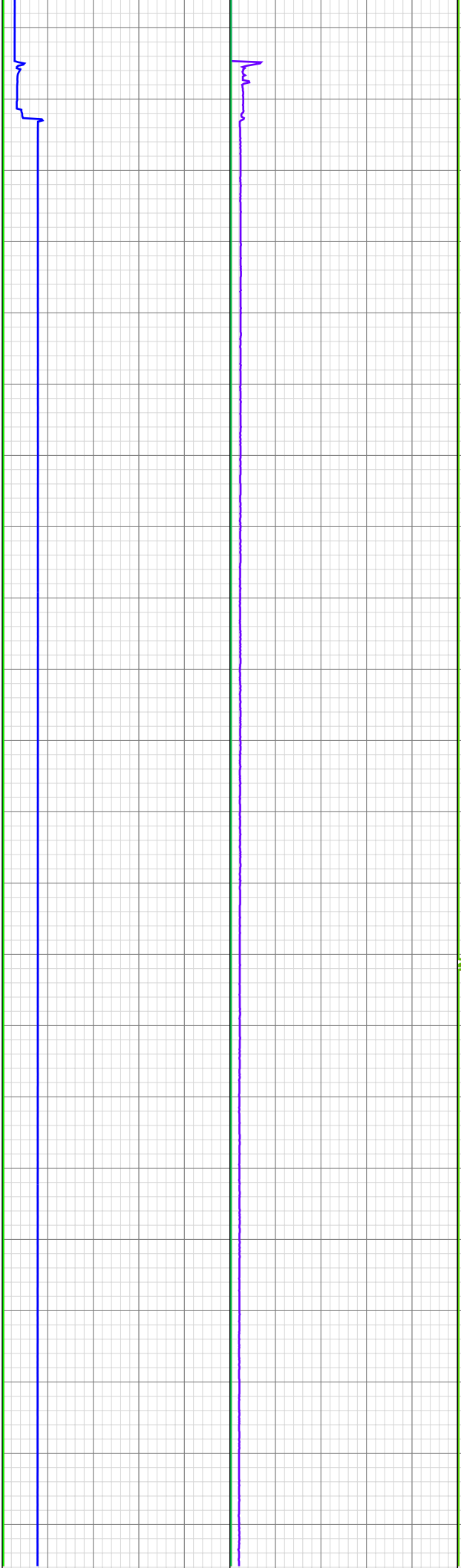
06/24 01:51:00: RIH WIPER RUN

06/24 03:05:00: FILL PIPE

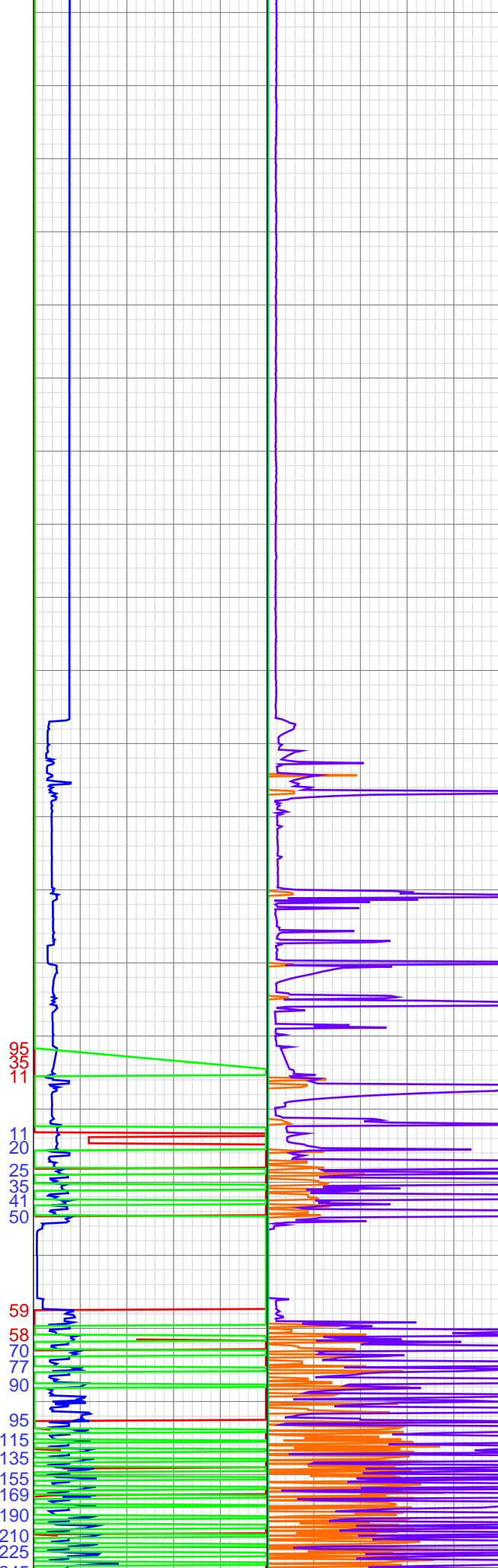




07:25  
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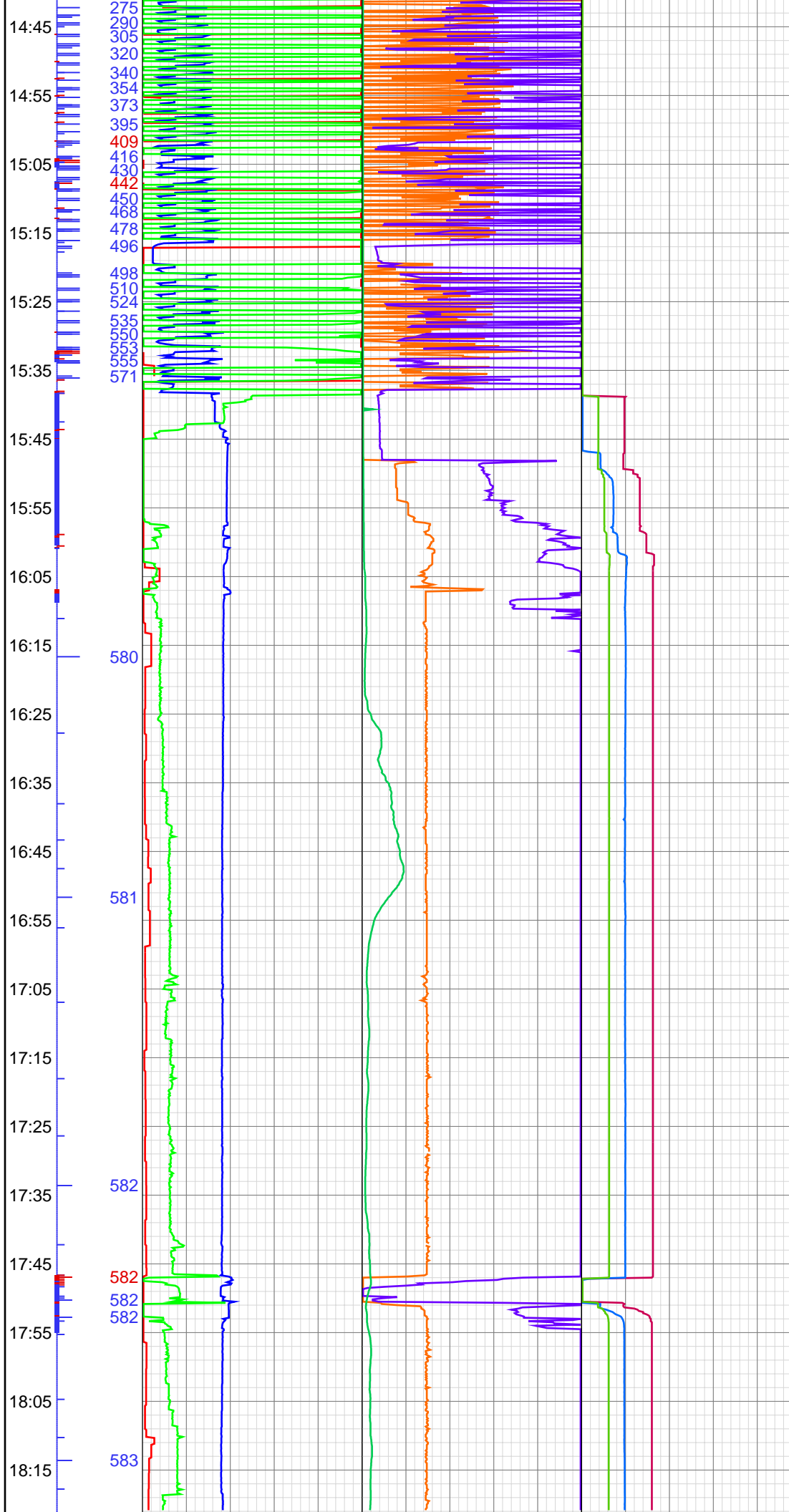


06/24 13:21:00: TEST REAMER  
 06/24 13:24:00: OPENED 40PSI  
 06/24 13:26:55: BIT DEPTH  
 CHANGED TO 0.0 METERS  
 06/24 13:30:40: IN TALLY: HOLE  
 DEPTH SET TO 10.36  
 06/24 13:34:00: RIH

06/24 13:50:00: TOPDRIVE  
 SERVICE/RIG SERVICE

06/24 14:04:24: IN TALLY: HOLE  
 DEPTH SET TO 58.03

06/24 14:17:44: IN TALLY: HOLE  
 DEPTH SET TO 104.34



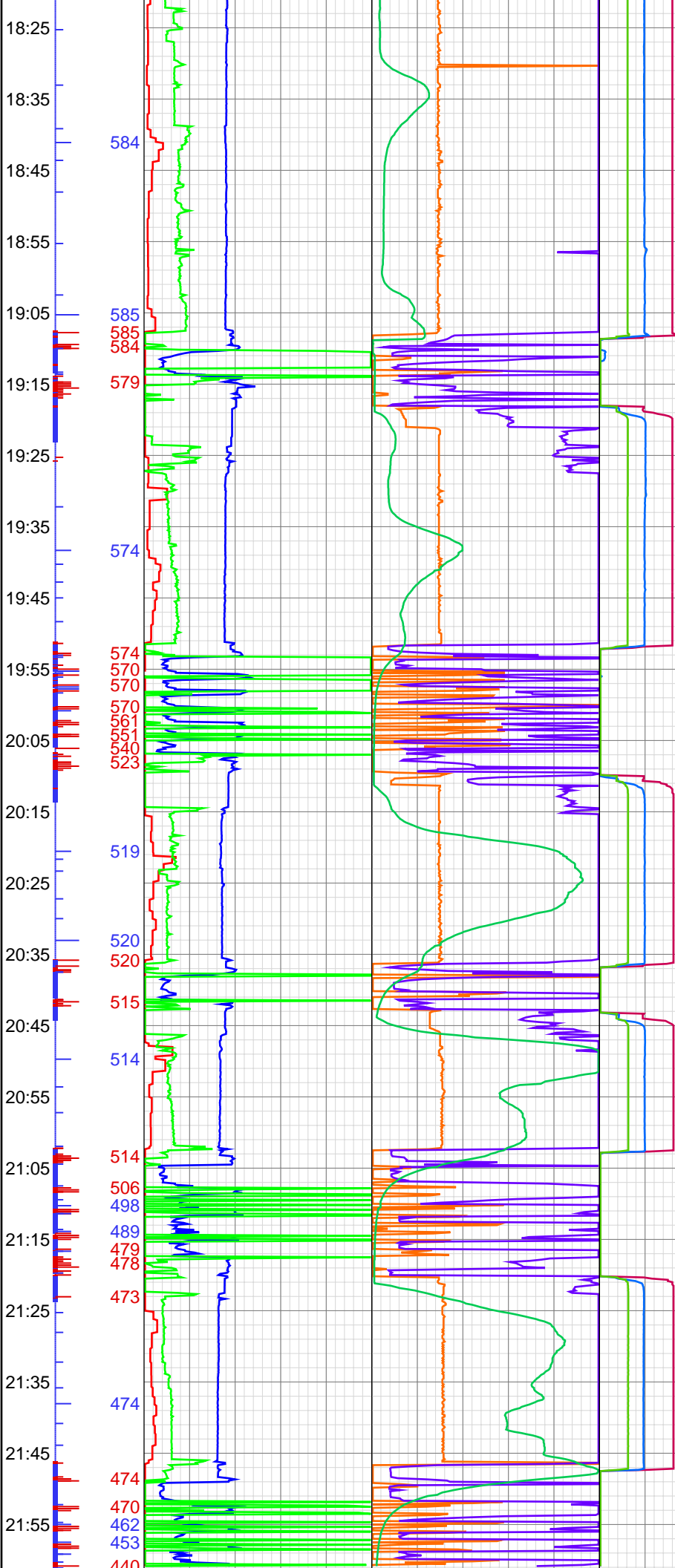
06/24 15:02:30: IN TALLY: HOLE  
 DEPTH SET TO 415.10  
 06/24 15:05:31: BIT DEPTH  
 CHANGED TO 424.0 METERS

06/24 15:17:10: IN TALLY: HOLE  
 DEPTH SET TO 497.36

06/24 15:34:02: IN TALLY: HOLE  
 DEPTH SET TO 570.48  
 06/24 15:39:00: FILL PIPE  
 06/24 15:40:18: 021TGAS 05060761  
 SW0.30 HW30.00 - 67 days on  
 06/24 15:45:00: MUD IN DEN 9.0 VIS  
 36

06/24 15:54:00: INT 1  
 06/24 15:56:32: ZWOB from DHC  
 06/24 15:56:38: ZWOB from DHC

06/24 17:30:00: MUD IN DEN 9.0 VIS  
 36



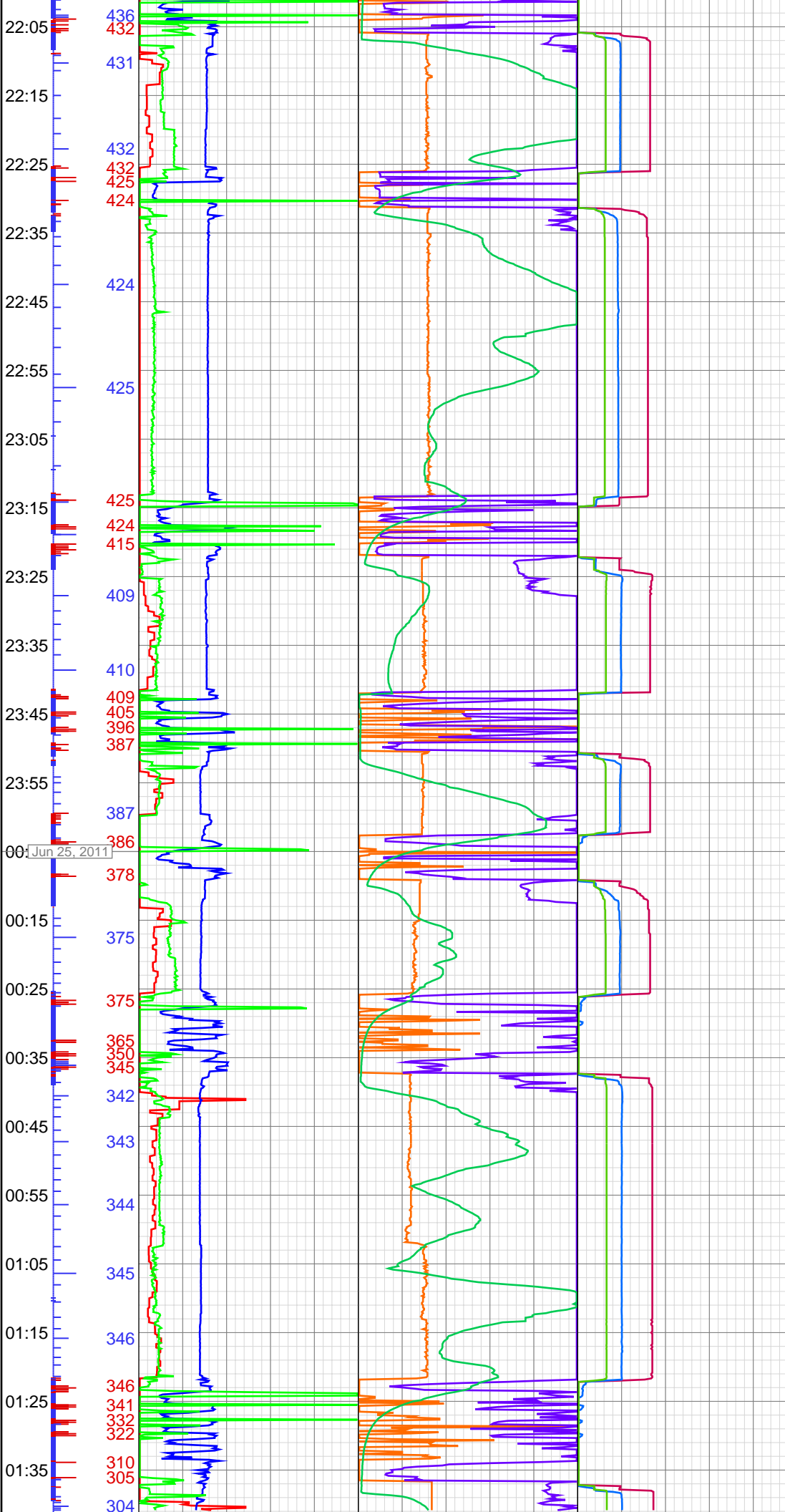
06/24 19:13:43: IN TALLY: HOLE  
 DEPTH SET TO 579.62  
 06/24 19:18:00: INT 2  
 06/24 19:18:05: HOLE DEPTH  
 CHANGED TO 573.8 METERS  
 06/24 19:20:15: ZWOB from DHC

06/24 20:06:07: IN TALLY: HOLE  
 DEPTH SET TO 524.78  
 06/24 20:09:00: INT 3  
 06/24 20:13:37: HOLE DEPTH  
 CHANGED TO 518.8 METERS  
 06/24 20:14:20: ZWOB from DHC  
 06/24 20:15:07: ZWOB from DHC

06/24 20:41:25: IN TALLY: HOLE  
 DEPTH SET TO 515.64  
 06/24 20:43:00: INT 4  
 06/24 20:44:28: HOLE DEPTH  
 CHANGED TO 513.62 METERS

06/24 21:07:48: IN TALLY: HOLE  
 DEPTH SET TO 506.50  
 06/24 21:10:48: IN TALLY: HOLE  
 DEPTH SET TO 497.36  
 06/24 21:14:21: IN TALLY: HOLE  
 DEPTH SET TO 488.22  
 06/24 21:20:02: HOLE DEPTH  
 CHANGED TO 473.1 METERS  
 06/24 21:21:00: INT 5  
 06/24 21:21:43: ZWOB from DHC

06/24 21:45:00: MUD IN DEN 8.9 VIS  
 36



06/24 22:04:05: IN TALLY: HOLE DEPTH SET TO 433.38  
 06/24 22:06:49: ZWOB from DHC  
 06/24 22:07:00: INT 6  
 06/24 22:08:34: HOLE DEPTH CHANGED TO 430.78 METERS

06/24 22:31:00: INT 7  
 06/24 22:32:14: HOLE DEPTH CHANGED TO 423.29 METERS

06/24 23:09:00: MUD IN DEN 9.0 VIS 38

06/24 23:19:01: IN TALLY: HOLE DEPTH SET TO 415.10  
 06/24 23:21:00: INTERVAL #8  
 06/24 23:22:59: ZWOB from DHC  
 06/24 23:23:41: ZWOB from DHC  
 06/24 23:24:08: HOLE DEPTH CHANGED TO 408.84 METERS

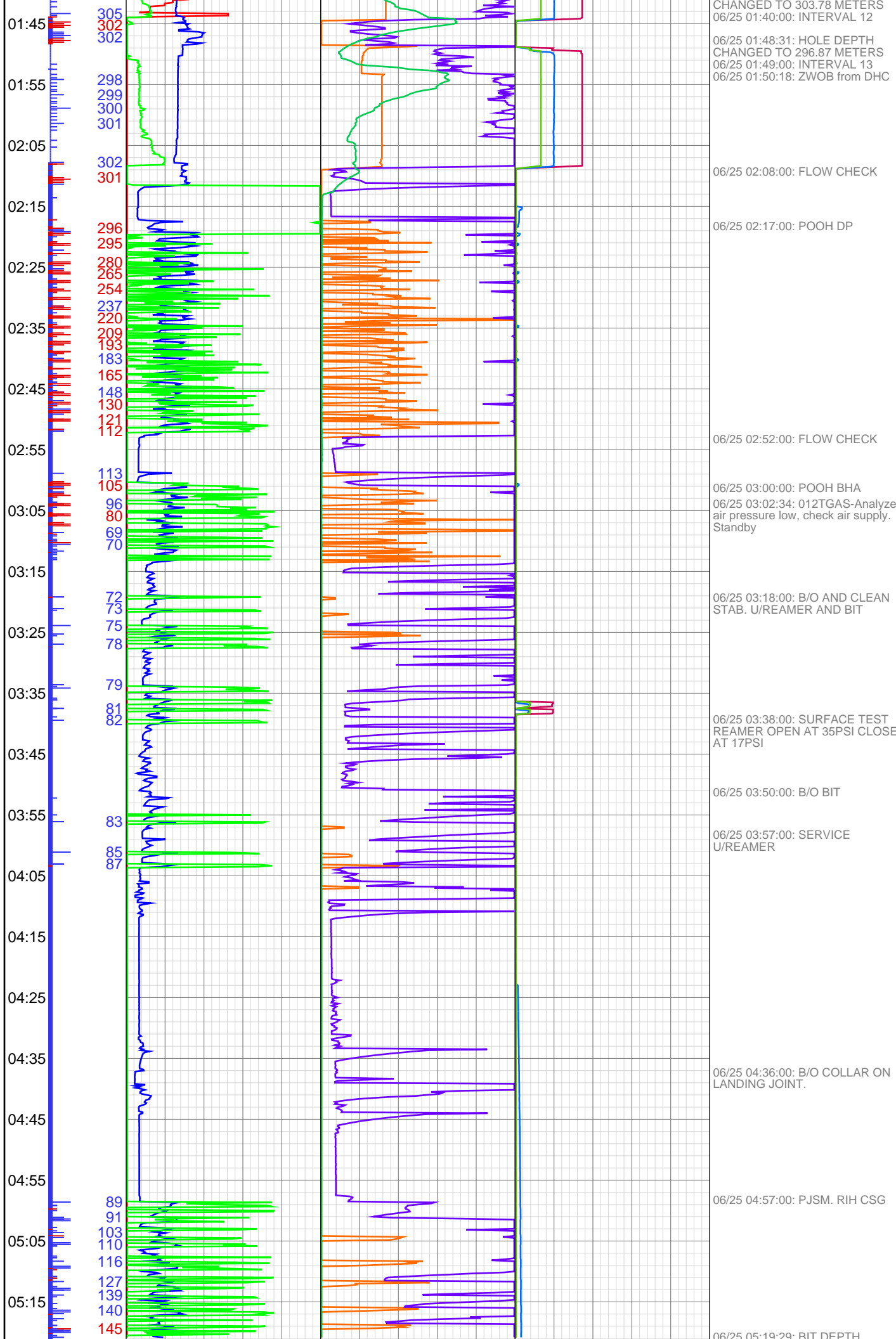
06/24 23:48:12: IN TALLY: HOLE DEPTH SET TO 387.68  
 06/24 23:52:48: ZWOB from DHC  
 06/24 23:56:00: INTERVAL 9

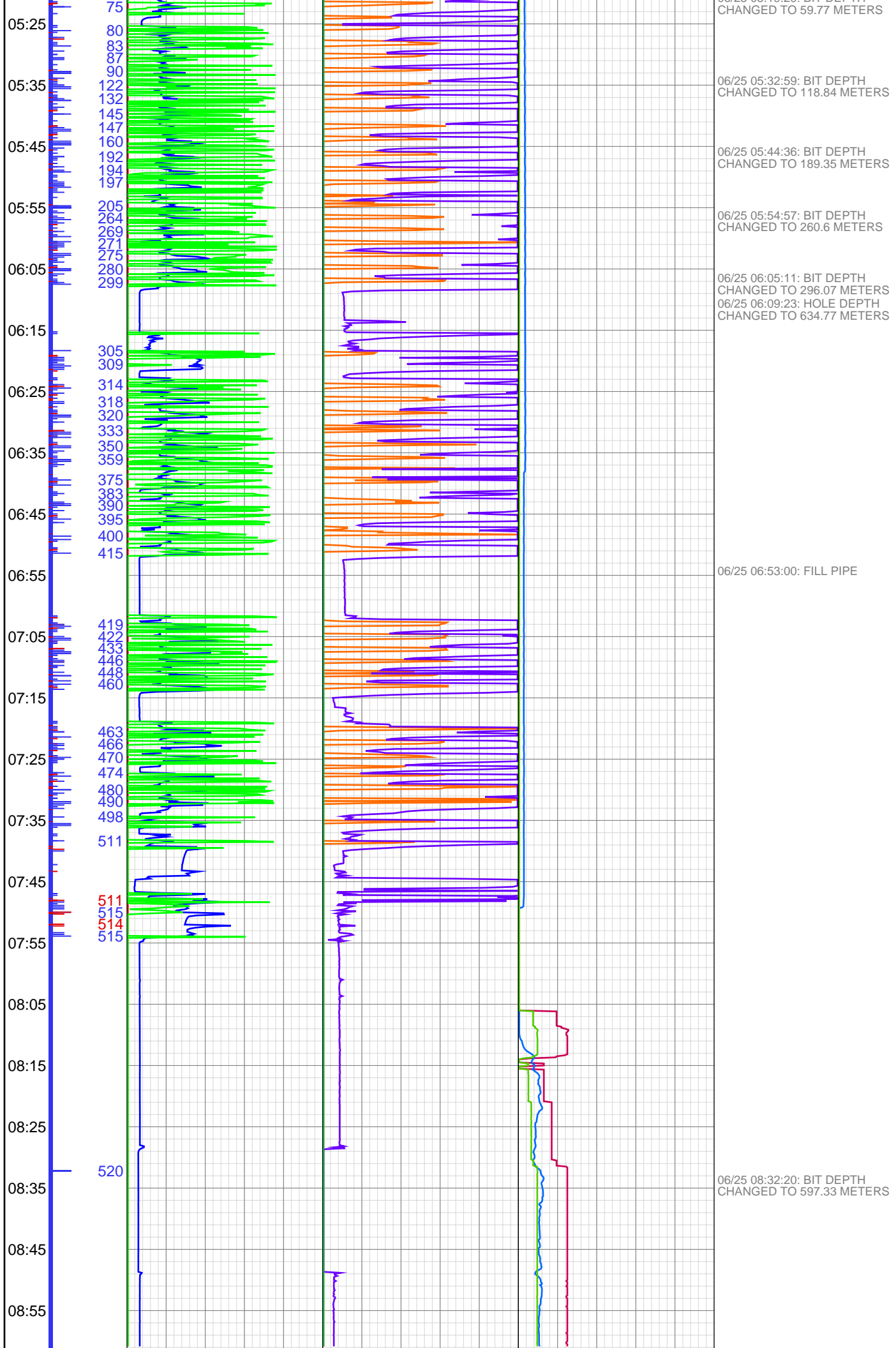
06/25 00:10:55: HOLE DEPTH CHANGED TO 374.5 METERS  
 06/25 00:15:00: INTERVAL 10

06/25 00:24:00: M/W 9.1 PPG 39 VIS

06/25 00:32:42: BIT DEPTH CHANGED TO 351.02 METERS  
 06/25 00:37:00: INTERVAL 11  
 06/25 00:38:18: ZWOB from DHC  
 06/25 00:39:12: HOLE DEPTH CHANGED TO 341.81 METERS

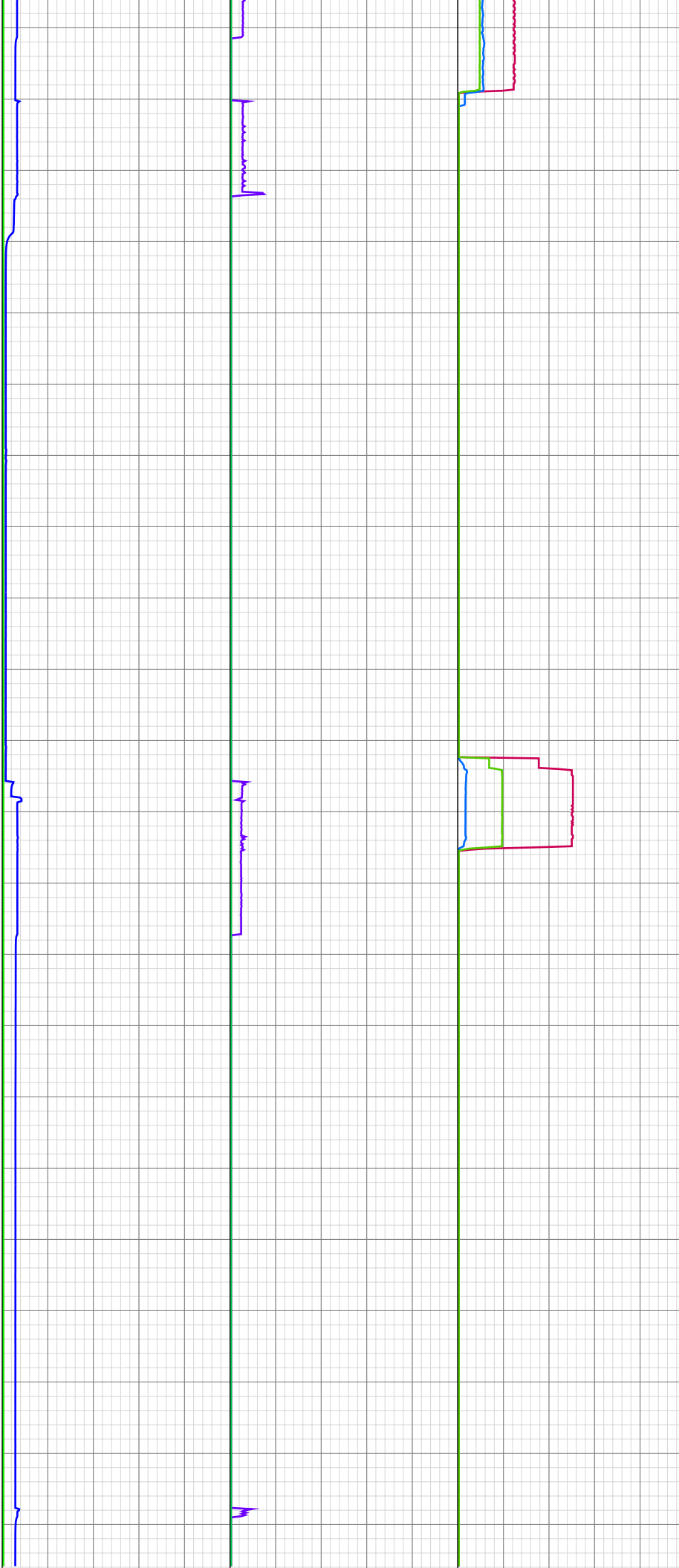
06/25 01:33:53: BIT DEPTH CHANGED TO 305.42 METERS  
 06/25 01:37:10: ZWOB from DHC  
 06/25 01:39:36: HOLE DEPTH







09:05  
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12:35

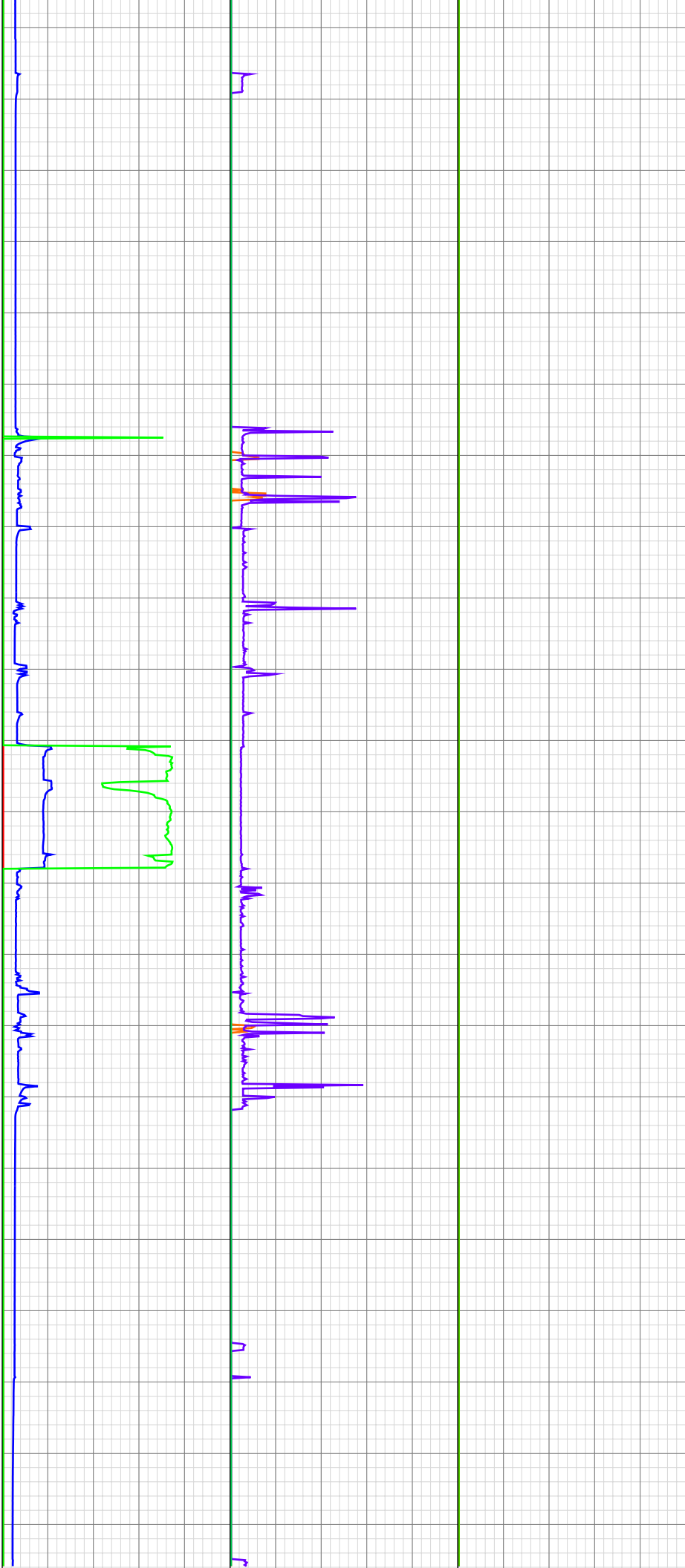


06/25 09:05:00: PJSM W/  
CEMENTERS

06/25 09:24:00: RIG UP FOR CMT

12:45  
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597  
597  
597



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**APPENDIX 7**  
**CEMENTING REPORT**

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**QGC**

**Level 24, 275 George Street  
Brisbane QLD 4000**

**Berwyndale 51  
Weatherford Rig 2  
Cement Program**

**Prepared for Nurpeis Akhmetov**

20<sup>th</sup> December, 2011

Revision: 0

**Submitted by Alasdair Wood**

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**HALLIBURTON**



Tuesday 20<sup>th</sup> December, 2011

**TO: QGC**  
**ATT: Nurpeis Akhmetov**  
**RE: Berwyndale 51 – Post Job Report Rev.0**

Dear Nurpeis

Please find attached a Post Job Report for Berwyndale 51 – 7” Producton Casing cement job performed on the 25<sup>th</sup> of June 2011:

- 7” Production Casing with ECP at 220m
  - 15.6 ppg Single Slurry HalCem™ to surface
  - Volumes are based on caliper average hole size 8.64” + 10.8 bbls excess

Should you require any additional information regarding this job please do not hesitate to contact the Brisbane Engineering team on (07) 3811 6017.

Regards,

**Alasdair Wood**  
**Senior Technical Professional**  
**Cementing**

cc: Bill Farrelly           Halliburton Brisbane  
Matt Lang               Halliburton Brisbane  
Kieran Mackellar       Halliburton Brisbane  
Brendon Tan             Halliburton Brisbane  
  
Paul Vreugdenburg     QGC Brisbane  
Nurpeis Akhmetov     QGC Brisbane

***Revision History***

*Rev. 0                      Initial Post Job Report*

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## 1.0 7" Production Casing – ECP

### 7in Casing Details

#### JOB PARAMETERS

Casing measured depth:	220m	BHST temperature:	34°C
True vertical depth:	220m	BHCT temperature:	27°C
Depth to top cement:	Surface	Drilling mud type:	WBM
		Drilling mud density:	8.8 - 9.0ppg

#### WELLBORE

##### Casing/Tubing

0-220m                      7in 23ppf Casing (K55 BTC)

##### Annulus

0-64m                      9 5/8in 36ppf casing (8.921in ID)

64-220m                    8.64in open hole (85% excess)

#### SPACERS

##### Spacer - 20.0bbl Freshwater at 8.33ppg

Freshwater                      42.00 gal/bbl                      (132m OH annular fill / 3min contact time)  
Estimated Pv: 1cP

*Contact times are based on the displacement rate.*

#### CEMENT - HalCem™

##### Composition

Class A Cement	
Calcium Chloride	1.00 %BWOC
Freshwater	5.26 gal/sk
NF-6	0.25 gal/10bblMF

##### Properties

Surface density:	15.60 ppg
Surface yield:	1.19 ft <sup>3</sup> /sk
Total mixing fluid:	5.26 gal/sk
Thickening time (70 Bc):	1:45+
Comp strength at 27°C	50 psi in 2:38 hrs
Comp strength at 27°C	100 psi in 3:12 hrs
Comp strength at 27°C	500 psi in 6:04 hrs

*Note that %BWOC are based on a 94 lb sack*

**VOLUME CALCULATIONS**

**Cement**

7in Casing / 9 5/8in casing volume	64 m x 0.0975 bbl/m	6.2 bbl
7in Casing / 8.64in hole volume	156 m x 0.0817 bbl/m	12.8 bbl
7in Casing / 8.64in hole excess	0.85 x 12.8 bbl	10.8 bbl
<b>Total slurry volume =29.8 bbl</b>		

Quantity of cement	29.8 bbl x 5.6146 / 1.19 ft <sup>3</sup> /sk	141 sacks
Quantity of mix fluid	141 sacks x 5.26 gal/sk	17.7 bbl

**Displacement**

7in Casing volume	220 m x 0.1292 bbl/m	28.4 bbl
<b>Total displacement volume =28.4 bbl</b>		

*The final job calculations are to be completed on location by cementer, based on actual well parameters. All calculations from slurry volumes to additive dosages & requirements must be verified by the independent calculations of the drilling rep.*

**PUMPING SCHEDULE & TIMES**

	<b>Volume (bbl)</b>	<b>Rate (bbl/min)</b>	<b>Time (min)</b>	
Make up lines & pressure test:	N/A	N/A	30	
Circulate 2 x Casing volume:	56.8	8.0	7	
Pump spacers:	20.0	6.0	3	
Mix & pump cement:	29.8	5.0	6	
Release dart/top plug:	N/A	N/A	5	
Pump displacement:	28.4	6.0	5	
<b>Total job time (including circulation):</b>			<b>56 min</b>	<b>0hr 56min</b>
<b>Minimum cement thickening time (with 1hr safety factor):</b>			<b>76 min</b>	<b>1hr 16min</b>

**MINIMUM MATERIAL REQUIREMENTS**

**Spacer - Freshwater**

Freshwater	20 bbl
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**Cement**

Class A Cement	141 sacks
Calcium Chloride	133 lbs
Freshwater	17.7 bbl
NF-6	1 gals

*These are estimates calculated on the information given. Calculations should be confirmed on the job site well in advance.*



2.0 Job Summary

<b>HALLIBURTON</b>		CUSTOMER	SALES ORDER No.	DATE
		QGC	8240497	25 June 2011
<b>CEMENT/PUMPING JOB SUMMARY</b>				
WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP
Berwyndale 51	Miles	Australia	Len Speed	Paul Kuhn
JOB TYPE	JOB PURPOSE CODE		BDA	WELL TYPE
Production Casing	CEMENT PRODUCTION CASING 400M 7521		Brisbane	Coal Bed Methane
				RIG
				Des Casing 2

<b>PERSONNEL</b>			
PERSONNEL / EXPOSURE	hrs	PERSONNEL / EXPOSURE	hrs
444081	Len Speed	24	#N/A
		Michael Francis	24

<b>EQUIPMENT</b>			
SAP#	PUMPING / MIXING	HOURS	SAP#
10048281	CEMENT UNIT 75TC-4 #10048281 (386-QNH)	48	10048604
			BULK SUPPLY / TANKS
			48
SAP#	VEHICLES / TRAILERS	HOURS	SAP#
#N/A	Lancruiser 778-RPY (11787244)	48	
			OTHER EQUIPMENT
			HOURS
#N/A	Kenworth Sb79EH (11669792)	48	
10048581	DOLLY #10048581 (TDB-611)	48	

<b>WELL PROFILE</b>		
NEW CASING	OPEN HOLE + EXCESS OR CALIPER DATA	PREVIOUS CASINGS
Non Tapered Casing , Conventional, m shoe track		
7in 23ppf K-55 BTC : 0m to 287.85m MD, 597.33m TVD		64in, 36ppf, 0m to 64m

<b>CEMENT DESIGN</b>			
Lead			
DENSITY	15.6ppg	WATER	5.26gal/sk
YIELD	1.19cu/ft	MIX FLUID	17.7bbis
WATER SOURCE	Water Truck		
CEMENT TYPE	Class A Cement at 94lb/sk		
Total Cement Used	141sk		
Estimated TOC	0m		
Additive	Concentration	Total Used	
Calcium Chloride	1%BWOC	132lbs	
NF-6	0.25 gal/10bbl	1gals	

<b>JOB LOGS</b>						
DATE	TIME	VOLUME	PRESSURE (psi)	RATE	JOB DESCRIPTION	
24-Jun-11	15:30				PRE-DEPARTURE SAFETY	
	15:35				DEPART ROMA YARD	
	18:00				ARRIVE AT LOCATION	
25-Jun-11	19:30				WENT TO CAMP	
	7:30				CALLED TO RIG	
	7:45				PRE-RIG UP SAFETY MEETING	
	7:50				RIG UP	
	9:12				SAFETY MEETING WITH RIG CREW	
	9:38	5	309	4	DISPLACE DART	
	9:40		3000		PRESSURE TEST	
	9:45	5	299	4	DISPLACE DART	
			20	307	4	
			30	184	2	
	9:57	38.35	184	1.2		BUMP DART
	9:59	0.036	763	0.3		PRESSURE UP ON DART
	10:00	0.073	1004	0.3		
	10:03		1300	0.3		PACKER OPENED AT 1300 PSI
	10:03	0.181	1488	3		KEPT PUMPING TO 1488 PSI AND HELD PRESSURE FOR 5 MINS
10:09		568			BLEED BACK PRESSURE 0.015 BACK	
10:11					BLEED BACK TO 0 PSI	
10:13		2214	0.7		OPEN STAGE TOOL	
10:13	3	384	4		SPACER	
10:21	30.4		4		PUMP CEMENT	
10:31	3		2		FLUSH LINES	
10:34	10	7	4		DROP TOP PLUG AND DISPLACE	
		20	479	4		
		30	545	2.5		
10:48	37.5	500	1.2		PLUG BUMPED	
10:48		2018			PRESSURED UP ON TOP PLUG	

<b>HALLIBURTON</b>				CUSTOMER	SALES ORDER No.	DATE
				QGC	8240497	26 June 2011
<b>CEMENT/PUMPING JOB SUMMARY</b>						
WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE	
Berwyndale 51	Miles	Australia	Len Speed	Paul Kuhn	Coal Bed Methane	
JOB TYPE			JOB PURPOSE CODE		BDA	RIG
Production Casing			CEMENT PRODUCTION CASING 400M 7521		Brisbane	Des Casing 2
	10:53				BLEED PRESSURE BACK 0.5 BBL	
	11:00				RIG DOWN	
	11:30				WASH UP CEMENT UNIT	
	12:15				DO PAPER WORK	
	14:40				LEAVE LOCATION	
	17:40				ETA AT ROMA	
					CEMENT RETURNS AT 33.5 BBLS INTO DISPLACEMENT I.E. 4 BBLS TO SURFACE	
					PLEASE NOTE THAT THE CEMENT PROGRAM WAS TO 220 M	
					THE ACP WAS SET AT 287.85 M BUT QGC WENT WITH THE CEMENT	
					THAT I HAD WITCH WAS 141 SKS	
END OF JOB LOGS						

<b>HALLIBURTON</b>		CUSTOMER	SALES ORDER No.	DATE	
		QGC	8240497	25 June 2011	
<b>CEMENT/PUMPING JOB SUMMARY</b>					
WELL	LOCATION/FIELD NAME	COUNTRY	HES REP	CUSTOMER REP	WELL TYPE
Berwyndale 51	Miles	Australia	Len Speed	Paul Kuhn	Coal Bed Methane
JOB TYPE	JOB PURPOSE CODE		BDA	RIG	
Production Casing	CEMENT PRODUCTION CASING 400M 7521		Brisbane	Des Casing 2	

<b>KEY PERFORMANCE INDICATORS</b>			
TYPE OF JOB (Cementing or Non-Cementing): <i>Select the job type (Cementing or Non-Cementing)</i>	<input type="text" value="Cementing"/>	WAS THIS A PRIMARY CEMENT JOB (YES / NO) <i>Primary cement job = Casing job, Liner Job, tie back</i>	<input type="text" value="YES"/>
TOTAL OPERATING TIME (hrs) <i>Rig up/ Pumping/ Rig Down</i>	<input type="text" value="3.0 hrs"/>	DID WE RUN WIPER PLUGS?	<input type="text" value="Top Plug"/>
HSE INCIDENT, ACCIDENT, INJURY: <i>This should be recordable incidents only</i>	<input type="text" value="NO"/>	WAS THIS A PLUG OR SQUEEZE JOB?	<input type="text" value="Neither"/>
WAS THE JOB DELIVERED CORRECTLY AS PERJOB DESIGN <i>This will be dictated by the customer</i>	<input type="text" value="YES"/>	WAS THIS A PRIMARY OR REMEDIAL JOB? <i>Remedial = Repeated attempts or corrections of initial cement job</i>	<input type="text" value="Primary"/>
TOTAL TIME PUMPING (hrs) <i>Total number of hours pumping fluid on this job</i>	<input type="text" value="1.5 hrs"/>	MIXING DENSITY OF JOB STAYED IN DESIGNED RANGE <i>Density defined as +/- 0.2ppg. Calculation: Total bbls cement mixed at designed density divided by total bbls of cement multiplied by 100</i>	<input type="text" value="90%"/>
NON -PRODUCTIVE RIG TIME: <i>As a result of Halliburton cementing PSL</i>	<input type="text" value="0.0 hrs"/>	WAS AUTOMATED DENSITY CONTROL USED	<input type="text" value="YES"/>
NUMBER OF JSA'S PERFORMED:	<input type="text" value="1"/>	JOB WAS PUMPED AT DESIGNED PUMP RATE <i>Pump rate ranged defined as +/- bpm. Calculation : total bbls of fluid pumped at the designed rate divided by total bbls of fluid pumped multiplied by 100</i>	<input type="text" value="90%"/>
NUMBER OF UNPLANNED SHUTDOWNS (After starting to pump)	<input type="text" value="0"/>	NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - HES <i>Number of remedial squeeze jobs required after primary job performed by HES</i>	<input type="text" value="0"/>
TYPE OF RIG (CLASSIFICATION) JOB WAS PERFORMED ON:	<input type="text" value="LAND"/>	NUMBER OF REMEDIAL SQUEEZE JOBS REQUIRED - COMPETITION <i>Number of remedial squeeze jobs required after primary job performed by competition</i>	<input type="text" value="0"/>
REASON FOR UNPLANNED SHUTDOWNS (After starting to pump) <i>Add details in job logs</i>		NUMBER OF REMEDIAL PLUG JOBS REQUIRED - HES <i>Number of remedial plug jobs required after primary plug pumped by HES</i>	<input type="text" value="0"/>
REASON FOR NON-PRODUCTIVE RIG TIME (Cementing PSL responsibility): <i>Add details in job logs</i>		DID CEMENT RETURN TO SURFACE? <input type="text" value="YES"/> <input type="text" value="33.5"/> bbls into displacement	
DENSITY RECORDED WITH PRESSURISED MUD BALANCE? <input type="text" value="NO"/> <input type="text" value="0"/> ppg			

**CUSTOMER SATISFACTION SURVEY**

Dear Customer,

We hope that you were satisfied with the service delivery of this job performed by Halliburton. It is the aim of our management and service personnel to deliver equipment and service of a standard unmatched in the service sector of the energy industry.

Please take the time to let us know if our performance met with your satisfaction. Please be as critical as possible to ensure we constantly improve our service. Your comments are of great value to us and are intended for the exclusive use of Halliburton.

CATEGORY	CUSTOMER SATISFACTION RATING (Please circle yes or no)
Survey Conducted Date	The date the survey was conducted <input type="text" value="25/06/2011"/>
Survey Interviewer	The survey interviewer is the person who initiated the survey.
Customer Participation	Did the customer participate in this survey? (Y/N) <input type="text" value="YES"/>
Customer Representative	Enter the Customer representative name: <input type="text" value="Paul Kuhn"/>
HSE	Was our HSE performance satisfactory? Circle <input checked="" type="radio"/> Y or <input type="radio"/> N
Equipment	Were you satisfied with our Equipment? Circle <input checked="" type="radio"/> Y or <input type="radio"/> N
Personnel	Were you satisfied with our people? Circle <input checked="" type="radio"/> Y or <input type="radio"/> N
Customer Comment	
Job DVA	Did we provide job DVA above our normal service today? Circle Y or N
Time	Please enter hours in decimal format to nearest quarter hour.
Other	Enter short text for other efficiencies gained.
Customer Initials	Customer's Initials
Please provide details	<b>JOB WENT WELL NO INCIDENTS/ACCIDENTS ALL IS WELL</b>

CUSTOMER SIGNATURE 