

APPENDIX H

MUD LOGGING REPORT



INTEQ



EAGLE BAY
RESOURCES N. L.

END OF WELL REPORT

EAGLE BAY RESOURCES N.L.

NORTHRIGHT - 1

APRIL 2001

by

BAKER HUGHES INTEQ

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Eagle Bay Resources N.L.: Northright-1

Final Well Report

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1. Operations Summary

1.1 Introduction

Baker Hughes INTEQ Mudlogging provided formation evaluation, drill monitoring and pressure evaluation services for Northright-1 from spud until abandonment. Data was processed and stored using Drillbyte V.2.3.1 software.

Northright-1 was planned as a 420-metre vertical exploration well to evaluate the hydrocarbon-bearing potential of an upthrown block of a reverse-faulted structural anticline located 17 km south of the Victorian coastline and 180km east of Sale.

After several hours' delay due to anchor handling problems, Northright -1 was spudded at 01:30 hours on 26 April 2001, drilling with a 660mm diameter bit and 914mm diameter hole opener from the seabed at 130.5m to 154mRT using seawater and high viscosity prehydrated gel (PHG) sweeps. The 762mm-size conductor casing was run with the swedged 340mm shoe set at 153m. The 311mm diameter hole was then drilled riserless with rates of penetration averaging 53 m/hr to the section TD of 250mRT. The hole section was drilled using seawater with alternating guar and hi-vis gel sweeps pumped as required. The 244mm surface casing was made up, landed and cemented with the shoe set at 247mRT. The BOPs and marine riser were then run, landed and tested as per programme.

While drilling out the surface casing shoe track, the 216mm diameter hole was displaced to a KCI/PHPA mud system with a weight of 1.10sg. After drilling 3 metres of new formation, a Formation Integrity Test (FIT) was performed at 247mRT yielding an EMW of 1.24 sg. Drilling then continued with the penetration rates controlled to about 30m/hr to ensure complete cuttings sample collection for full formation evaluation and to maximise FEWD data acquisition. Northright-1 was drilled to its Total Depth of 391mRT, reached at 02:30hrs on 29 April 2001.

The decision was made not to run wireline logs and the well was plugged and abandoned. The Ocean Bounty was towed off location on 01 May 2001.

1.2 Well and Rig Information

Well Name:	Northright -1	
Well Type:	Vertical Exploration Well	
Operator:	Eagle Bay Resources N.L.	
Location:	Gippsland Basin, Offshore Victoria, Australia	
Block:	VIC/P-41	
Final Coordinates:	Latitude	37° 55' 57.754" S
	Longitude	149° 08' 58.942" E
Rig:	Ocean Bounty	
Type:	Semi-submersible MODU	
Rig Floor - Seabed:	130.5mRT	
Rig Floor - MSL	25 m	
Spud Date:	26 April 2001	
Total Depth:	391mRT	
Status:	Plugged and Abandoned	
Baker Hughes INTEQ:	Data Engineers:	Rommel Tadiar Romeo Tena
	Logging Geologists:	Ajitoro Matt Ronan
	Sample Technicians	Richard Hatcher Elaine Spence

Section 2

Drilling and Engineering

2.1 Bit Run Summaries

660mm/ 914mm (26"/36")Phase: **26 April 2001**

Bit Run 1 Summary

Bit Number	NB 1
Bit Size	660mm w/ 914mm Hole Opener
Bit Type	Smith DSJC
S/N	KW 0659
Jets (mm)	3 x 19, 1 x 9.5
Depth In, mRT	130.5
Depth Out, mRT	154
Metres Drilled	23.5
Drilling Hours	1.2
TBR, krevs	4.7
Circulating Hours	1.6
Average ROP, m/hr	19.6
API Condition	1-1-NO-C-E-I-NO-TD

Drilling Parameters

WOB, tonnes	1.4	-	2.5
RPM	57	-	73
Torque kN-m	5.8	-	13.3
Pump Pressure, Mpa	0.7	-	8.8
Flow In, lpm	1187	-	2786

Mud System

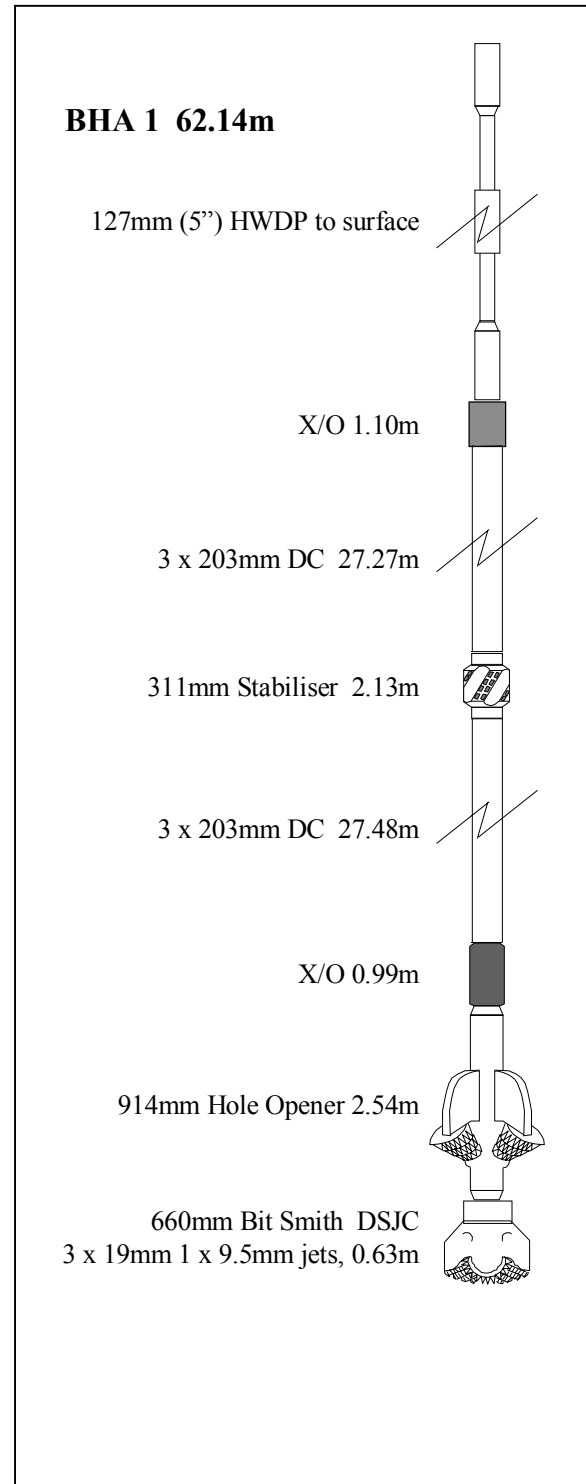
Seawater & hi-viscosity Gel	1.03 sg
Sweeps	

Lithology

Returns to seabed.

Drilling Summary

After running anchors, the spudding assembly consisting of a 660mm bit and 914mm hole opener was made up and run below the drillfloor. The seabed was tagged at 130.5mRT. Northright-1 was spudded at 01:30hrs on 26 April 2001. The section was drilled using seawater and gel sweeps. At the section TD of 154mRT, a 15.8k-litre (100bbls) hi-vis pill was swept around the hole and circulated out. A TOTCO survey was taken, indicating a bottom hole inclination of $\frac{3}{4}^{\circ}$ at 154m. After wiping back to the seabed, the bit was run to bottom and the hole displaced to 23.8k-litres (150bbls) hi-vis mud. The bit was then pulled out of hole to run the 762mm / 340mm conductor casing.



311mm (12 $\frac{1}{4}$ ") Phase : 26 April 2001**Bit Run 2 Summary**

Bit Number	NB 2
Bit Size	311mm
Bit Type	Varel ETD115
S/N	4535108
Jets (mm)	3 x 14.3
Depth In, mRT	154m
Depth Out, mRT	250m
Metres Drilled	96
Drilling Hours	1.8
TBR, krevs	8.7
Circulating Hours	2.9
Average ROP, m/hr	53.3
API Condition	1-1-NO-C-E-I-NO-TD

Drilling Parameters

WOB, tonnes	0.3	-	3.0
RPM	60	-	95
Torque kN-m	3.1	-	20.0
Pump Pressure, Mpa	5.3	-	8.2
Flow In, lpm	2268	-	2744

Mud System

Seawater & hi-viscosity Gel	1.03 sg
Sweeps	

Lithology

Returns to seabed.

Drilling Summary

NB 2 was picked up and run in hole. The shoe track and 340mm casing shoe at 153mRT were drilled out. New formation was drilled from 154m with alternating guar and havis mud sweeps pumped every 15 metres. At section TD of 250m, the hole was circulated clean and a 100 bbls havis gel (PHB) pill was pumped and chased out of the hole with seawater. After a 100 bbl Drispac/Gel inhibitive pill was spotted on bottom, the bit was pulled out of the hole to run the 244mm casing.

BHA 2 177.78m

12 x 127mm (5") HWDP 108.84m

X/O 1.10m

1 x 203mm DC 9.34m

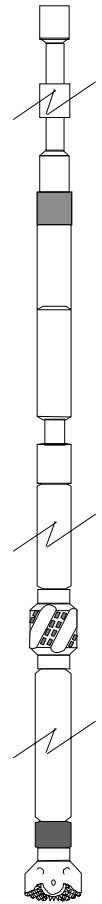
203mm Jars 9.77m

2 x 203mm DC 17.93m

311mm Stabiliser 2.13m

3 x 203mm DC 27.48m

Bit sub 0.88m

311mm Bit Varel ETD115
0.31m, 3 x 14.3mm Jets

216mm (8½") Phase: 28-29 April 2001

Bit Run 3 Summary

Bit Number	NB 3
Bit Size	216mm
Bit Type	Varel L127
S/N	4105048
Jets (mm)	3 x 12.7
Depth In, mRT	250
Depth Out, mRT	391m TD
Metres Drilled	141
Drilling Hours	6.1
TBR, krevs	35.5
Circulating Hours	8.4
Average ROP, m/hr	23.1
API Condition	1-1-BU-C-X-1-JD-TD

Drilling Parameters

WOB, mt	5.4	-	14.3
RPM	68	-	154
Torque kft-lbs.	4.8	-	10.8
Pump Pressure, psi	2089	-	3475
Flow In, gpm	560	-	662

Mud System

KCI / PHPA	-	1.10 sg
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Lithology

Claystone, Siltstone & Sandstone

Drilling Summary

NB 3 was made up with an LWD tool and run in, tagging cement at 225mRT. Cement, shoe track and casing shoe at 247mRT were drilled out. The hole was displaced to a KCI/PHPA water-based mud system while drilling out the casing shoe track. After drilling three metres of new formation, the bit was pulled back into the shoe and a Formation Integrity Test (FIT) performed. With a mud weight of 1.10sg, an Equivalent Mud Weight (EMW) of 1.24sg was recorded. Drilling continued with penetration rates controlled to about 30m/hr to ensure complete cuttings sample collection for full formation evaluation and to maximise FEWD data acquisition. Drilling then continued down to the well TD at 391mRT, reached at 02:30hrs on 29 April 2001. After circulating returns to surface, the well was checked for flow before the bit was pulled out of the hole to begin plug and abandon operations.

Directional Surveys taken while drilling:

Depth (m)	TVD (m)	Inclination (deg)	Azimuth (deg)
237.27	237.27	0.06	161.38
319.46	319.46	0.35	263.49

BHA 3 191.58m

12 x 127mm HWDP 108.84m

2 x 165mm DC 18.75m

165mm Jars 9.38m

3 x 165mm DC 28.02m

216mm Stabiliser 1.50m

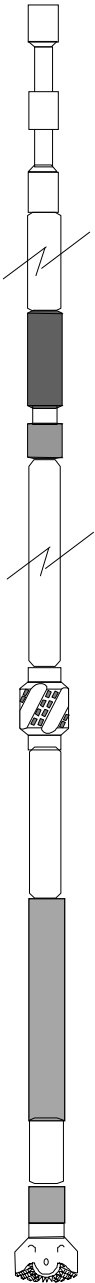
165mm DC 9.19m

MWD 14.24m

Crossover 0.50m

Bit sub 0.92m

216mm Bit Varel L127
0.24m, 3 x 12.7mm Jets



2.2 Casing and Cementing Summaries

762mm / 340mm Casing

Hole Size 914mm
Depth 154mRT

Casing
OD 762mm / 340mm X-52
ID 711mm
Weight 462kg/m (310 ppf)

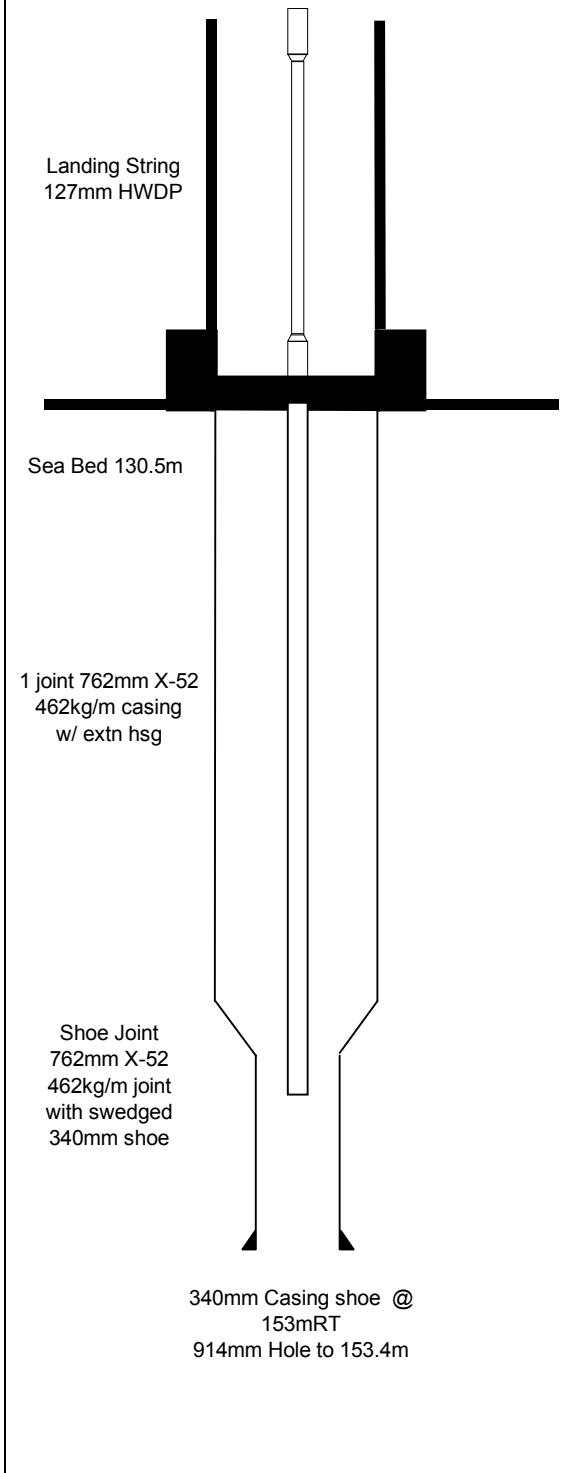
Shoe Depth 153m

Cement Single Stage, Tail/Grout
Type Class G
Sacks 659 sx
Slurry Density 1.91 sg
Mix Water 80 bbls (12.7k ltr) seawater
Yield 0.03 m^3 (1.16 ft³)/sx
Additives CaCl_2 1% BWOC 14 sx
D-Air 3000L 2.5 gal (9.5 ltr)

Summary

The 762mm diameter conductor casing with 340mm swedged shoe joint assembly and PGB was filled with seawater and run in without incident. The casing was then landed with the shoe set at 153mRT. Cementing operations were then conducted with flouroscecene dye pumped before pressure testing cement lines to 1000 psi (6.9 MPa). The cement slurry was then pumped. The cement was then displaced with 2600 litres of seawater. Pressure was bled off and the floats checked. The casing string was held in place while waiting on cement.

762mm / 340mm CASING

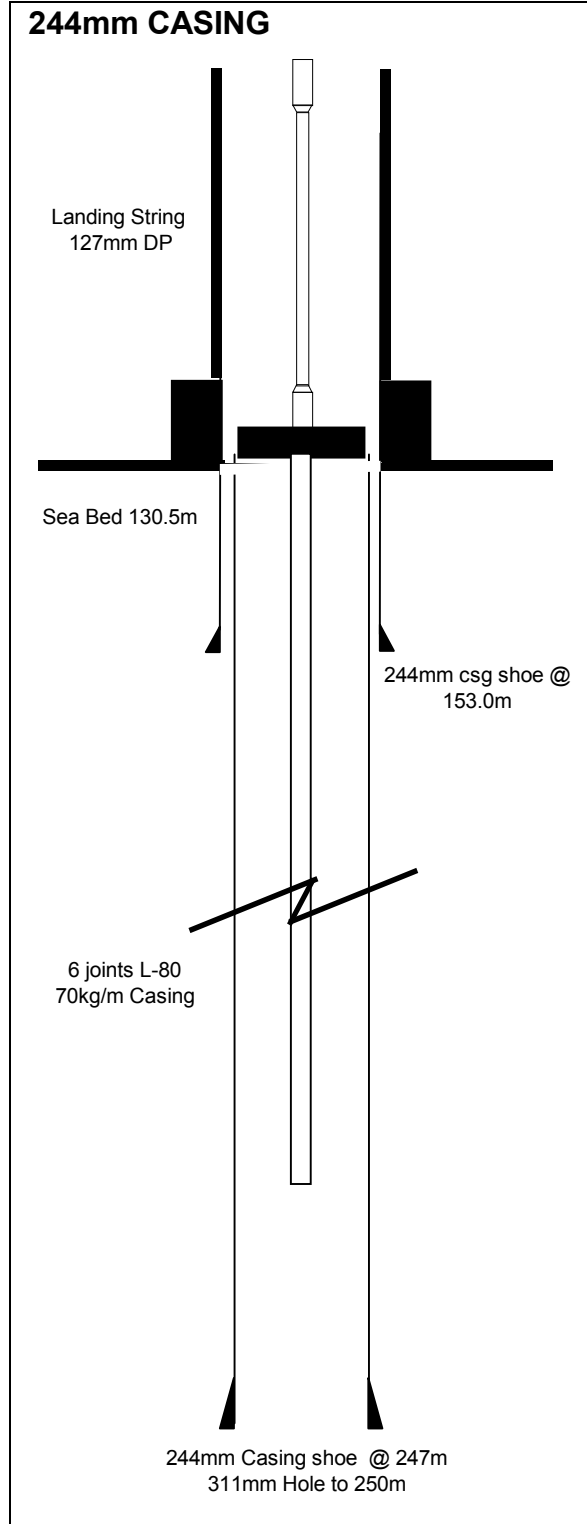


244mm Casing

Hole Size	311mm
Depth	250mRT
Casing	
OD	244mm
ID	220.5mm
Weight	70kg/m New VAM
Shoe Depth	247mRT
Cement	Single stage Tail Slurry
Type	class"G"
Sacks	340 sx
Slurry Density	1.9 sg
Mix Water	19.5 ltr/sx (11.4k ltr seawater)
Yield	0.03 m ³ (1.16 ft ³)/sx
Additives	D-Air 3000L 3.78 ltr

Summary

Six joints of 244mm casing, along with the wellhead housing, float collar and shoe joints were run and landed with the shoe at 247mRT. After pumping 794 litres seawater with fluorescent dye, cement lines were pressure-tested to 20.7MPa (3000psi). Fluorescent dye was pumped again before dropping the dart and pumping the seawater spacer. The cement slurry was then mixed and pumped at the rate of 794 litres per minute (5bpm), followed by the top plug. The plug was bumped at the float collar with a pressure of 15.2MPa (2200psi) observed at the cement unit. Pressure was bled off and the floats checked. After the cement job, the running tool was unlatched and pulled to surface.



Section 3

Geology and Shows

3.1 GEOLOGY AND SHOWS

Formation Evaluation for Northright-1 commenced from below the 244mm (9.625") casing shoe, set at 247mRT, to the well's Total Depth of 391mRT. Prior to drilling all gas equipment was checked and calibrated. Cuttings samples were collected at the following intervals:

From (m)	To (m)	Sampling Interval (m)
247	340	3
340	390	5
390	391 TD	1

The lithological units observed in the 216mm hole section of Northright-1 are described below. For more detailed descriptions, see Appendix-1, Formation Evaluation Log.

914mm (36") HOLE SECTION

Seabed to 154m: Returns to Seabed

311mm (12¼") HOLE SECTION

154m to 250m: Returns to Seabed

216mm (8½") HOLE SECTION

250m to 303m: SANDSTONE

SANDSTONE: Light grey to medium grey, translucent to opaque quartz grains, predominantly loose and clean, occasional friable aggregates, medium to very coarse, occasional fine grains, subspherical to subelongate, subangular to subrounded, moderately to poorly sorted, very weak siliceous cement, occasional weak pyrite cement, rare to common argillaceous matrix, occasional frosted grains, good to very good inferred porosity, trace to rare pyrite.

There were no oil shows in this interval.

303m to 331m: CLAYSTONE

CLAYSTONE: Light grey to medium grey, greenish grey, very soft to soft, subblocky, slightly calcareous, trace pyrite, chloritised in part.

331m to 391m TD: SILTSTONE grading to CLAYSTONE

SILTSTONE: Medium grey to medium dark grey, occasionally dark grey, soft to firm, subblocky, abundant argillaceous matrix, trace very fine quartz sand grains, trace fine to nodular glauconite and fine pyrite aggregates, siliceous to slightly calcareous, grading to claystone in parts.

CLAYSTONE: Medium light grey to medium grey, greenish grey, soft, sticky, dispersive in part, subblocky, trace carbonaceous specks, slightly calcareous.

Drilling Rate Summary for All Lithology Intervals on Northright-1			
Depth Interval (m)	RATE OF PENETRATION (m/hr)		
	Minimum	Maximum	Average
130.5 - 250	10.5	115.2	52.3
250 - 303	13.6	92.8	36.7
303 - 331	10.1	34.9	20.6
331 - 391 TD	12.9	60.6	23.4

Summary of Gas Readings Recorded for All Lithology Intervals on Northright-1													
Interval (m)		Total Gas (Gas Units)				Chromatograph Analysis (ppm)							
		Range		Max Gas	Av. Total								
From	To	From	To	At (m)	Gas		C1	C2	C3	iC4	nC4	IC5	NC5
130.5	250	Returns to Seabed				Min	-	-	-	-	-	-	-
						Max	-	-	-	-	-	-	-
250	303	1	2	301	1	Min	41	-	-	-	-	-	-
						Max	162	-	-	-	-	-	-
303	331	1	2	311	2	Min	72	-	-	-	-	-	-
						Max	307	-	-	-	-	-	-
331	391	2	2	356	2	Min	184	-	-	-	-	-	-
	TD					Max	278	-	-	-	-	-	-

INTEQ

SAMPLE TYPE	No. of Sets	COMPOSITION			PACKING DETAILS
		Sample	Depth Interval (m)		
		Box No.	From	To	
Set 1 (500 g) : Unwashed & Air Dried Samples (Palynology)	1		250	391	1 shipping box
Sets 2, 3 and 4 (200 g) : Washed & Air Dried	3	1 2	250 313	313 391	2 Small Boxes bundled together per set
Set 5: Samplex Trays, Charts & worksheets	1		250	391	Halved shipping box
Set 6: Fluid Samples	1				1 Small Box w/ 3 mud and 1mud filtrate samples

ALL BOXES TO BE SENT TO EAGLE BAY RESOURCES N.L. WAREHOUSE FOR ONWARD DISTRIBUTION:

DISTRIBUTION	Destination & Address	Attention of:
Set 2: Cuttings Washed & Dried 200g	AGSO Petroleum Data Repository Cnr. Jerrabomberra Ave & Hindmarsh Dr Symonston, ACT 2609	
Set 3: Cuttings Washed & Dried 200g	Victoria Department of Natural Resources & the Environment (Vic DNRE) c/o DNRE Geological Core Library DNRE Agricultural Science Precinct South Road, Werribee, VICTORIA	
a) Set 1: Cuttings Unwashed & Dried 500g (palynology) b) Set 4: Cuttings Washed & Dried 200g c) Set 5: Cuttings in Samplex Trays	Eagle Bay Resources N.L. First Floor, 14 Outram Street West Perth, W.A.	Milton Schmedje
Set 6: Fluid Samples	AMDEL LTD 35 - 37 Stirling St Thebarton, S. A. 5031	Brian Wilson

Section 4

Pressure Evaluation

4.1 PORE PRESSURE EVALUATION

An average sea water density of 1.03 sg was assumed as the normal saline pressure gradient for all calculations for Northright-1. Using real-time data, such as corrected drilling exponent (Dxc) using conventional tricone bits, hydrocarbon gas trend, lithology, flowline temperature, character of drilled cuttings, constant drilling fluid parameters and real-time MWD data including resistivity data, pore pressure estimates were made during the drilling of Northright-1. For more details, please refer to Appendix 3, "Pressure Summary Plot".

914mm (36") Hole Section

The 914mm hole was drilled from seabed at 130.5m to 154mRT. The section was short, with returns dumped to the seabed. With an average penetration rate of about 20m/hr, the plotted Dxc data curve showed a steep generally rightward trend. It is unlikely that pore pressure would have increased over this shallow interval consisting of very soft and poorly consolidated sediments. The pore pressure is estimated to have remained normal at 1.03 sg EMW down to 154mRT.

311m (12 ¼") Hole Section

The 311mm hole section was drilled riserless from 154mRT to the 244mm casing point at 250mRT. Returns were dumped to the seabed. Seawater was used as drilling fluid, with high viscosity gel and guar gum pills swept around the hole for effective cleaning. With the absence of lithological samples, it was not possible to check the reliability of the corrected Dxc data, which is most useful for pore pressure estimations when homogeneous claystones are drilled. However, from 154m to 220mRT, penetration rates averaged about 50m/hr and a normal, gently rightward-sloping trend could be discerned, indicating normal increasing consolidation of sediments with depth. Between 220m to about 235mRT, there was a marked leftward shift in the Dxc trend, with a very erratic data scatter, possibly the result of a significant lithological change or a weakening in the physical strength of the formation. In any case, penetration rates were significantly faster (70-93m/hr) in this interval. From 235m to 250mRT section TD, a rightward shift in the Dxc data brought the curve back to its original normal trend, with penetration rates averaging 50m/hr, suggesting normal sediment consolidation. It is estimated that the pore pressure gradient remained normal at 1.03sg EMW throughout this interval.

216mm (8½") Hole Section

The 216mm hole section was drilled with a KCl/PHPA water-based mud system weighted at 1.10sg. To maximise data acquisition through the prognosed primary target, the drill rate was controlled to about 30m/hr. Sands were drilled immediately below the casing shoe at 247mRT, causing a marked leftward shift and near-vertical trend in the overall Dxc data scatter. Below 310m to section TD of 391mTD, drill rate restrictions were removed and the corrected Dxc trend took a more gentle slope to the right while drilling through interbedded argillaceous siltstones and claystones. Occasional sand stringers were also drilled resulting in leftward "spikes" between 335-340mRT and at 362-364mRT. There was no sign of abnormal pressure in this hole section. No geopressure-related cavings were observed while drilling. Connection gases were absent and the gas level remained minimal at about 2 gas units (0.04%). The flowline temperature data, though subdued by the cooling effect of a 100-metre long marine riser, showed a gradual increase with depth in this hole section, from 23° to 24.8°C. Similarly, the FEWD tool data showed a normal bottom hole temperature gradient, gradually increasing from 24° to 28°C at 391m TD. Based on these factors, the pore pressure gradient in this interval is estimated to be normal at 1.03sg EMW.

4.2 FRACTURE PRESSURE EVALUATION

Fracture pressure estimation for Northright-1 was made using the Baker Hughes INTEQ zero tensile strength method. For a full explanation of this method, refer to INTEQ Manual MS-156 "The Theory and Evaluation of Formation Pressures".

With no returns to surface it was not possible to estimate the fracture pressure through the 914mm and 311mm hole sections. A Formation Integrity Test (FIT) was performed at the 244mm casing shoe depth with the results shown below:

Casing Depth	Casing Size		Hole Size		Test Mud Density	LOT EMW	Test type
MRT	in	mm	in	mm	(SG)	(SG)	
247	9.625	244	8.5	216	1.10	1.24	FIT

A KCL/PHPA water-based mud system weighted at 1.10sg was used to drill the 216mm section to the Total Depth of 391mRT. The lower than expected result from the formation integrity test was attributed to poorly cemented porous coarse sand formations drilled immediately below the casing shoe. When normal drilling resumed there were small mud losses to the formation of about 635 litres per hour (4 bbls/hr) with the effective circulating density (ECD) calculated at 1.19sg. The seepage was cured by the continuous addition of fine-grade lost circulation material (LCM) while drilling. Below 350mRT, only minor intermittent losses of about 317 litres per hour (2 bbls/hr) were observed, even with the mud system's rheology changing while drilling to give an ECD of 1.21sg with the same pump rates. The pump flow rates were maintained at about 1890 lpm (500gpm) during the entire drilling operation. At no time during drilling was the FIT EMW result of 1.24 sg exceeded, with mud losses incurred being the direct result of porous and permeable sand formations.

Tables

Table 1: Bit Run Summary

Tables



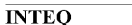
OPERATOR				EAGLE BAY RESOURCES N.L.				WELL NAME				NORTHRIGHT-1				LOCATION VIC/P-41				CONTRACTOR DIAMOND OFFSHORE GENERAL COMPANY								RIG		MODU OCEAN BOUNTY																																																																																																																																																																																																																																											
<div><div><div>EAGLE BAY RESOURCES N.L.</div></div><div><div>BAKER HUGHES</div></div><div><div>INTEQ</div></div></div> <div><div>PUMP 1 - OILWELL A1700 PT 6" LINER (914mm, 311mm & 216mm)</div><div>PUMP 2 - OILWELL A1700 PT 6" LINER (914mm, 311mm & 216mm)</div><div>PUMP 3 - OILWELL A1700 PT 6" LINER (914mm, 311mm & 216mm)</div></div> <div><div>BIT DULL CHARACTERISTICS</div><div>BC - Broken Cone BT - Broken Teeth BU - Balled Up CC - Cracked Cone CD - Cone Dragged</div><div>CI - Cone Interference CR - Cored CT - Chipped Teeth FC - Flat Crested Wear HC - Heat Checking</div><div>JD - Junk Damage LC - Lost Cone LN - Lost Nozzle LT - Lost Teeth OC - Off-Center Wear</div><div>PB - Pinched Bit PN - Plugged Nozzle RG - Rounded Gauge RO - Ring Out SD - Shirltal Damage</div><div>SS - Self-Sharpening TR - Tracking WO - Washed-Out Bit WT - Worn Teeth NO - No Dull Characs.</div></div> <div><div>REASONS PULLED</div><div>BHA - Bottomhole Assembly DMF - Downhole Motor failure DSF - Drill String failure DST - Drill Stem Test DTF - Downhole Tool Failure</div><div>LOG - Run Logs RIG - Rig repair CM - Condition Mud CP - Core Point DPI - Drill Plug</div><div>FM - Formation Change HP - Hole Problems HR - Hours PP - Pump Pressure PR - Penetration rate</div><div>TD - Total / Cig depth TQ - Torque TW - Twist-Off WC - Weather Conditions WDO - Washose - Drill String</div></div> <tr><th rowspan="4">BIT RUN</th><th rowspan="4">BIT No.</th><th rowspan="4">MAKE</th><th rowspan="4">TYPE</th><th rowspan="4">TFA cm²</th><th rowspan="4">JETS (mm)</th><th rowspan="4">SERIAL No.</th><th rowspan="4">DEPTH IN m</th><th rowspan="4">METRES ON BIT</th><th rowspan="4">HRS ON BOTTOM</th><th rowspan="4">AV ROP m/hr</th><th rowspan="4">IADC HRS</th><th rowspan="4">WOB Tonnes</th><th rowspan="4">RPM</th><th rowspan="4">TBR krev</th><th rowspan="4">SPP Mpa</th><th rowspan="4">FLOW LPM</th><th rowspan="4">TQ kN-m</th><th colspan="10">GRADE</th><th rowspan="4">MW SG</th><th rowspan="4">REMARKS</th></tr> <tr><th rowspan="3">I</th><th rowspan="3">O</th><th rowspan="3">D</th><th rowspan="3">L</th><th rowspan="3">B</th><th rowspan="3">G</th><th rowspan="3">O</th><th rowspan="3">R</th></tr> <tr></tr> <tr></tr> <tr><td colspan="28">660mm / 914mm (26"/36") HOLE SECTION 130.5 - 154m</td></tr> <tr><td>1</td><td>NB 1</td><td>Smith</td><td>DSJC</td><td>9,262</td><td>3x19, 1x9.5</td><td>KW 0659</td><td>130.5</td><td>23.5</td><td>1.2</td><td>19.6</td><td>1.5</td><td>1.4-3.4</td><td>64</td><td>4.7</td><td>0.7-8.8</td><td>1187-2786</td><td>5.9-13.3</td><td>1</td><td>1</td><td>NO</td><td>C</td><td>E</td><td>I</td><td>NO</td><td>TD</td><td>1.03</td><td>w/ 36" HO</td></tr> <tr><td colspan="28">311mm (12¼") HOLE SECTION 154 - 250m</td></tr> <tr><td>2</td><td>NB2</td><td>Varel</td><td>ETD115</td><td>4,800</td><td>3x14.3</td><td>4535108</td><td>154</td><td>96</td><td>1.8</td><td>53.3</td><td>2.5</td><td>0.3-3.0</td><td>80</td><td>8.7</td><td>5.3-8.2</td><td>2268-2903</td><td>3.1-20.0</td><td>1</td><td>1</td><td>NO</td><td>C</td><td>E</td><td>I</td><td>NO</td><td>TD</td><td>1.03</td><td></td></tr> <tr><td colspan="28">216mm (8½") HOLE SECTION 250 - 391m TD</td></tr> <tr><td>3</td><td>NB3</td><td>Varel</td><td>L127</td><td>3,799</td><td>3x12.7</td><td>4105048</td><td>250</td><td>141</td><td>6.1</td><td>23.1</td><td>9.0</td><td>0.3-10.5</td><td>91</td><td>35.5</td><td>6.0-8.5</td><td>166-1947</td><td>1.1-10.7</td><td>1</td><td>1</td><td>BU</td><td>C</td><td>E</td><td>I</td><td>JD</td><td>TD</td><td>1.10</td><td>FEWD</td></tr> <tr><td colspan="28">NOTE: Bit run number = BHA number ; NB = New Bit RB = Rerun Bit PDM = Downhole Motor</td></tr> <tr><td colspan="8">TOTAL DEPTH (m)</td><td colspan="4">391.0</td><td colspan="16">MD</td></tr>				BIT RUN	BIT No.	MAKE	TYPE	TFA cm ²	JETS (mm)	SERIAL No.	DEPTH IN m	METRES ON BIT	HRS ON BOTTOM	AV ROP m/hr	IADC HRS	WOB Tonnes	RPM	TBR krev	SPP Mpa	FLOW LPM	TQ kN-m	GRADE										MW SG	REMARKS	I	O	D	L	B	G	O	R	660mm / 914mm (26"/36") HOLE SECTION 130.5 - 154m																												1	NB 1	Smith	DSJC	9,262	3x19, 1x9.5	KW 0659	130.5	23.5	1.2	19.6	1.5	1.4-3.4	64	4.7	0.7-8.8	1187-2786	5.9-13.3	1	1	NO	C	E	I	NO	TD	1.03	w/ 36" HO	311mm (12¼") HOLE SECTION 154 - 250m																												2	NB2	Varel	ETD115	4,800	3x14.3	4535108	154	96	1.8	53.3	2.5	0.3-3.0	80	8.7	5.3-8.2	2268-2903	3.1-20.0	1	1	NO	C	E	I	NO	TD	1.03		216mm (8½") HOLE SECTION 250 - 391m TD																												3	NB3	Varel	L127	3,799	3x12.7	4105048	250	141	6.1	23.1	9.0	0.3-10.5	91	35.5	6.0-8.5	166-1947	1.1-10.7	1	1	BU	C	E	I	JD	TD	1.10	FEWD	NOTE: Bit run number = BHA number ; NB = New Bit RB = Rerun Bit PDM = Downhole Motor																												TOTAL DEPTH (m)								391.0				MD															
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Table 2: Bit Hydraulics Summary

Tables



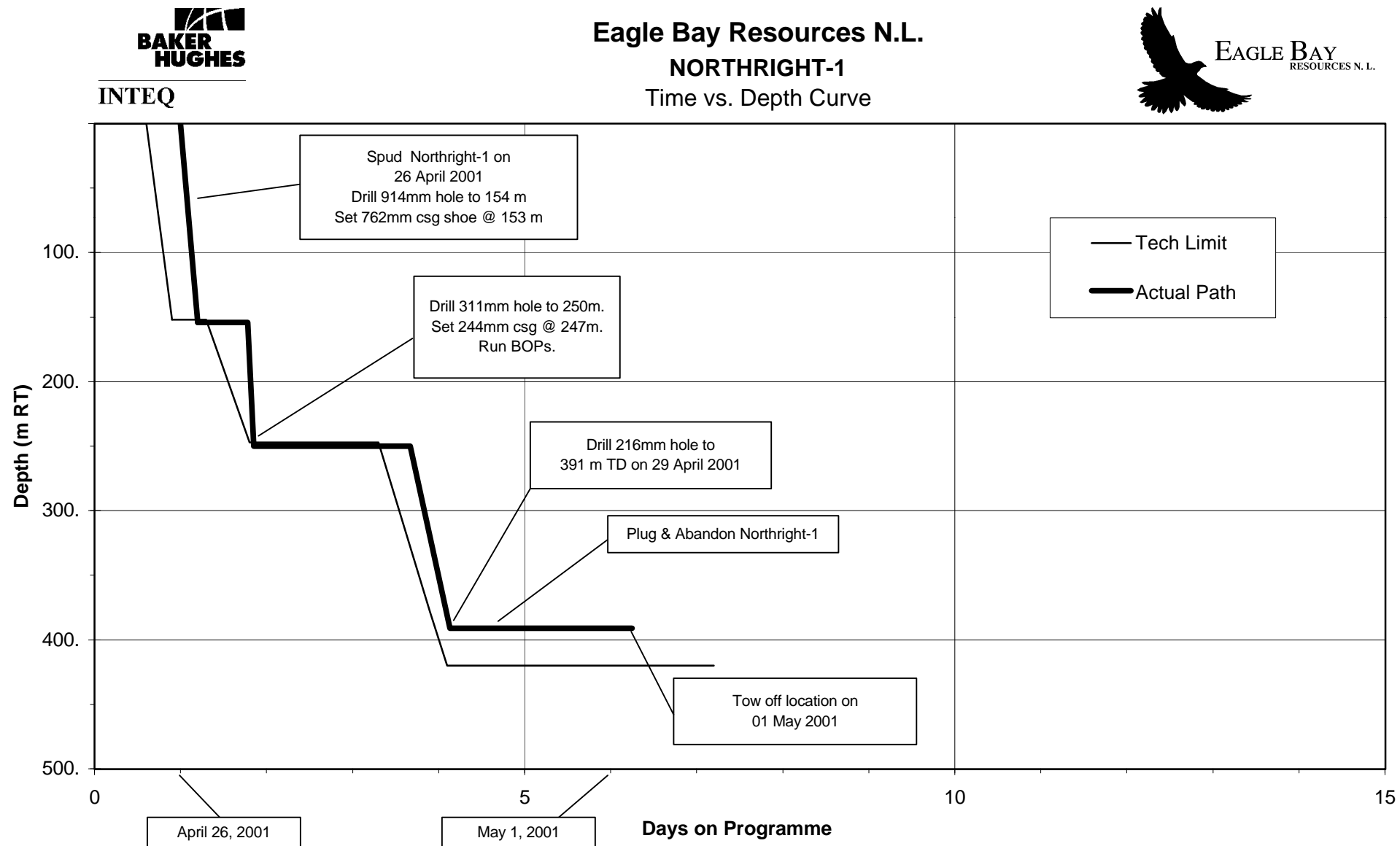
				Table 2: BIT HYDRAULICS SUMMARY																		
OPERATOR EAGLE BAY RESOURCES N.L.							WELL NAME NORTHRIGHT-1					LOCATION VIC/P-41		CONTRACTOR Diamond Offshore General Co.					RIG MODU OCEAN BOUNTY			
Drillstring Abbreviations <div><div>N</div><div>M</div><div>Normal</div><div>MWD</div><div>T</div><div>C</div><div>Turbine</div><div>Core</div><div>P</div><div>Positive Displacement Motor</div></div>											Hydraulics Models Power Law Model used for drilling with Mud Bingham Model used for coring and drilling with sea water											
Bit No.	Depth In (m)	Hole Size mm	Calc'd Hole Size mm	JETS mm	Drill String Type	Mud Density sg	Mud Type	PV / YP	Flow Rate lpm	ECD sg	Annular Velocities				Jet Vel m/sec	HHP hp	HSI hp/mm ²	Impact Force kN	Bit Pressure Loss mPa	% Bit Loss	Theoretical Pressure Loss mPa	Actual Pressure Loss mPa
											DP Riser m/min	DP OH m/min	DC OH m/min	DC critical m/min								
660mm / 914mm HOLE SECTION											130.5 - 154m											
NB 1	130.5	914	914	3x19, 1x9.5	N	1.03	SW / Gel sweeps	1 / 1	2011	1.03	-	-	3.2	25.2	36.2	33.6	0.64	1.25	0.75	41.5	1.80	8.79
311mm HOLE SECTION											154 - 250m											
NB2	154	311	311	3 x 14	N	1.03	SW / Gel sweeps	1 / 1	2744	1.03	-	7.2	65.1	25.9	95.2	317.0	17.4	4.48	5.17	73.6	7.02	8.20
216mm HOLE SECTION											250 - 391m TD											
NB3	250	216	216	3 x 12.7	N,M	1.10	KCl/PHPA	17/26	1947	1.21	10.6	-	240.5	227.9	85.5	194	22.6	3.05	4.45	57.1	9.1	8.3

Table 3: Time vs Depth Curve

Tables



Appendix

Formation Evaluation Log

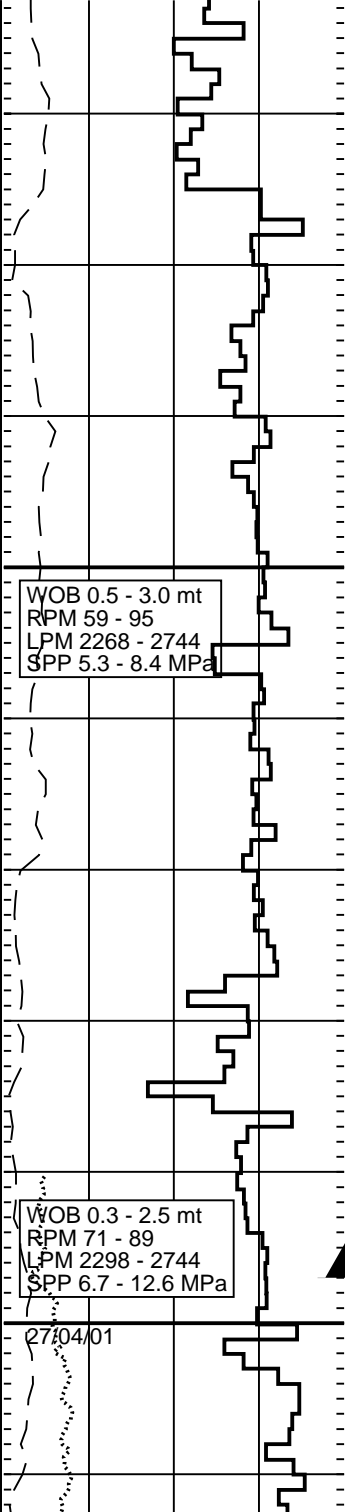
1: 500



Northright-1

SCALE: 1:500

[illegible]



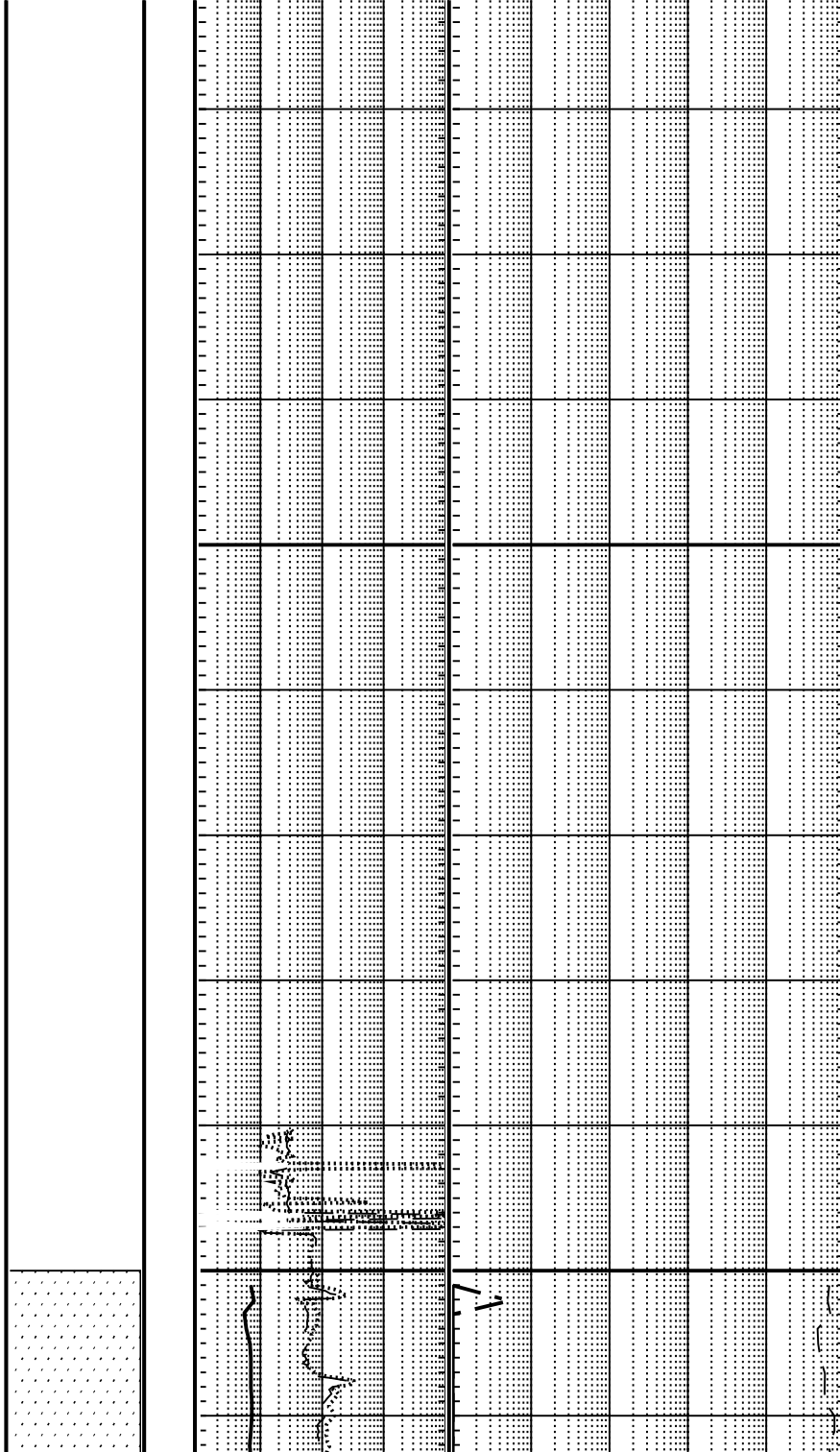
200

250

WOB 0.5 - 3.0 mt
RPM 59 - 95
LPM 2268 - 2744
SPP 5.3 - 8.4 MPa

WOB 0.3 - 2.5 mt
RPM 71 - 89
LPM 2298 - 2744
SPP 6.7 - 12.6 MPa

27/04/01



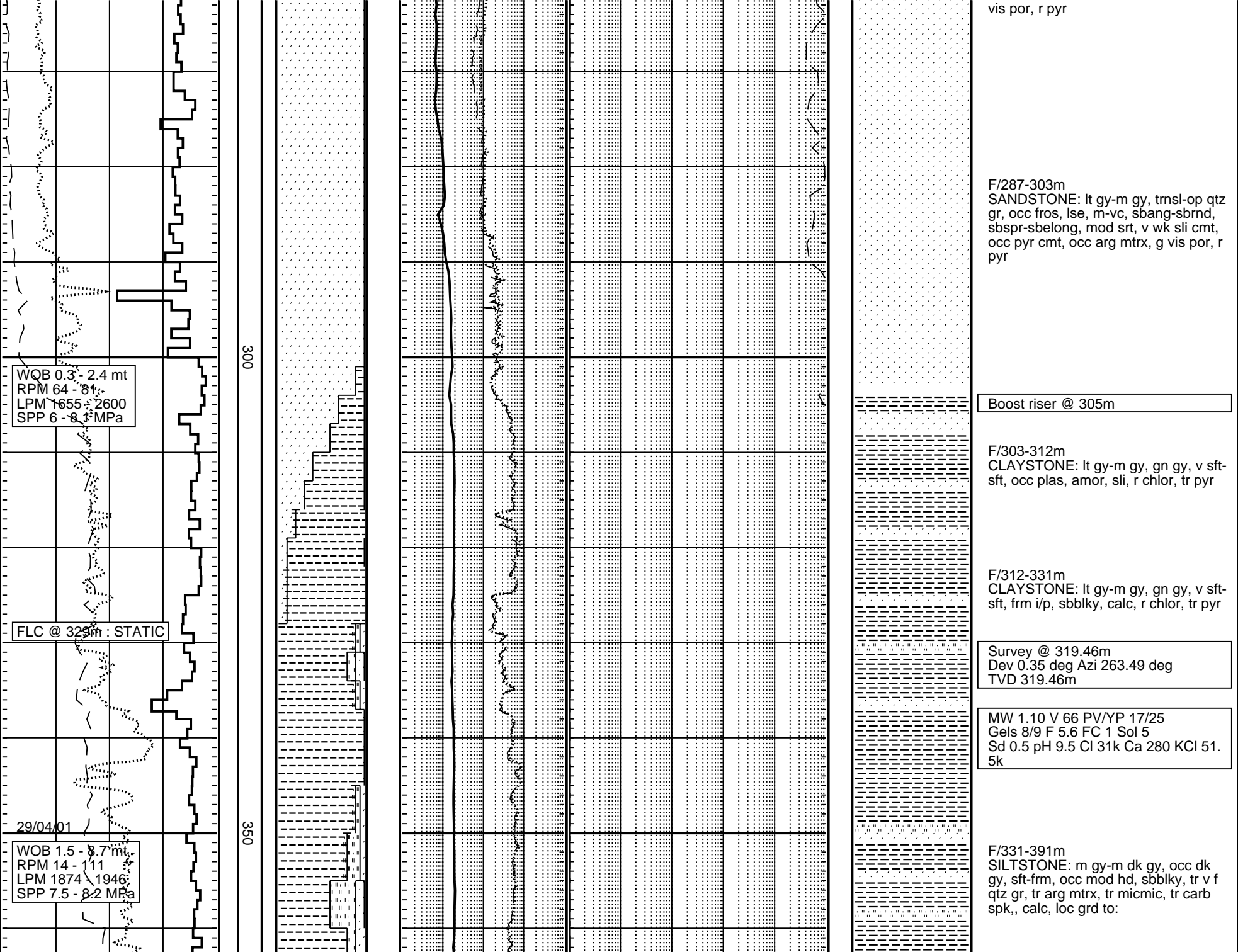
Drill with seawater & hi-vis sweeps
Returns to Seabed

Drill with seawater & hi-vis sweeps
Returns to Seabed

Survey @ 237.27m
Dev 0.06 deg Azi 161.38 deg
TVD 237.27m

Drill 311mm hole to 250m
Set 244mm casing shoe at 246.7m
Drill ahead 216mm hole

F/250-287m
SANDSTONE: lt gy-m gy, trns-l-op qtz
gr, occ fros, lse, m-vc, occ f, sbang-
sbrnd, sbspr-sbelong, mod srt, v wk
sil cmt, occ pyr cmt, occ arg mtrx, q



300

350

WOB 0.3 - 2.4 mt
RPM 64 - 81
LPM 1655 - 2600
SPP 6 - 8 MPa

FLC @ 329m : STATIC

29/04/01
WOB 1.5 - 8.7 mt
RPM 14 - 111
LPM 1874 - 1946
SPP 7.5 - 8.2 MPa

Boost riser @ 305m

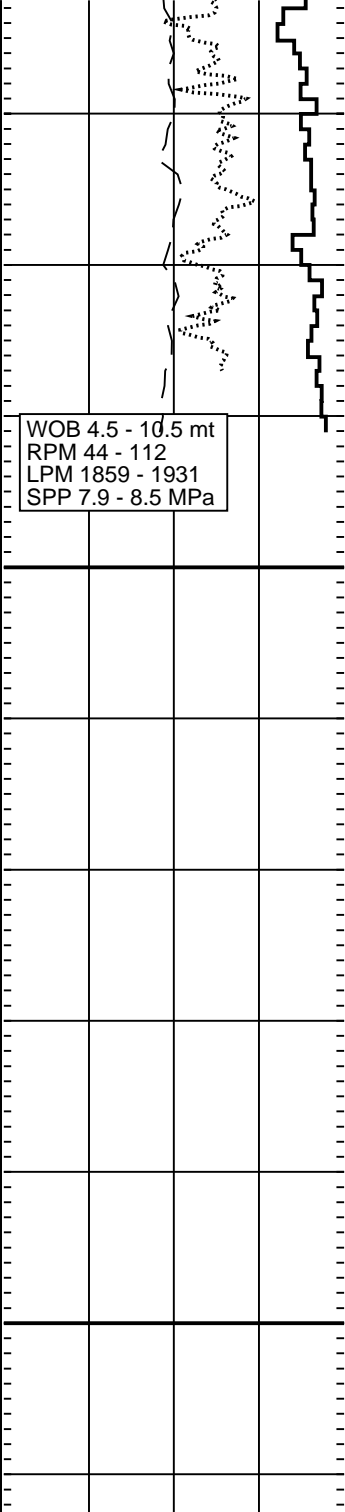
F/303-312m
CLAYSTONE: lt gy-m gy, gn gy, v sft-sft, occ plas, amor, sli, r chlor, tr pyr

F/312-331m
CLAYSTONE: lt gy-m gy, gn gy, v sft-sft, frm i/p, sbblky, calc, r chlor, tr pyr

Survey @ 319.46m
Dev 0.35 deg Azi 263.49 deg
TVD 319.46m

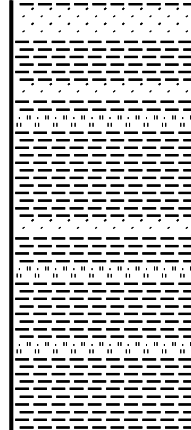
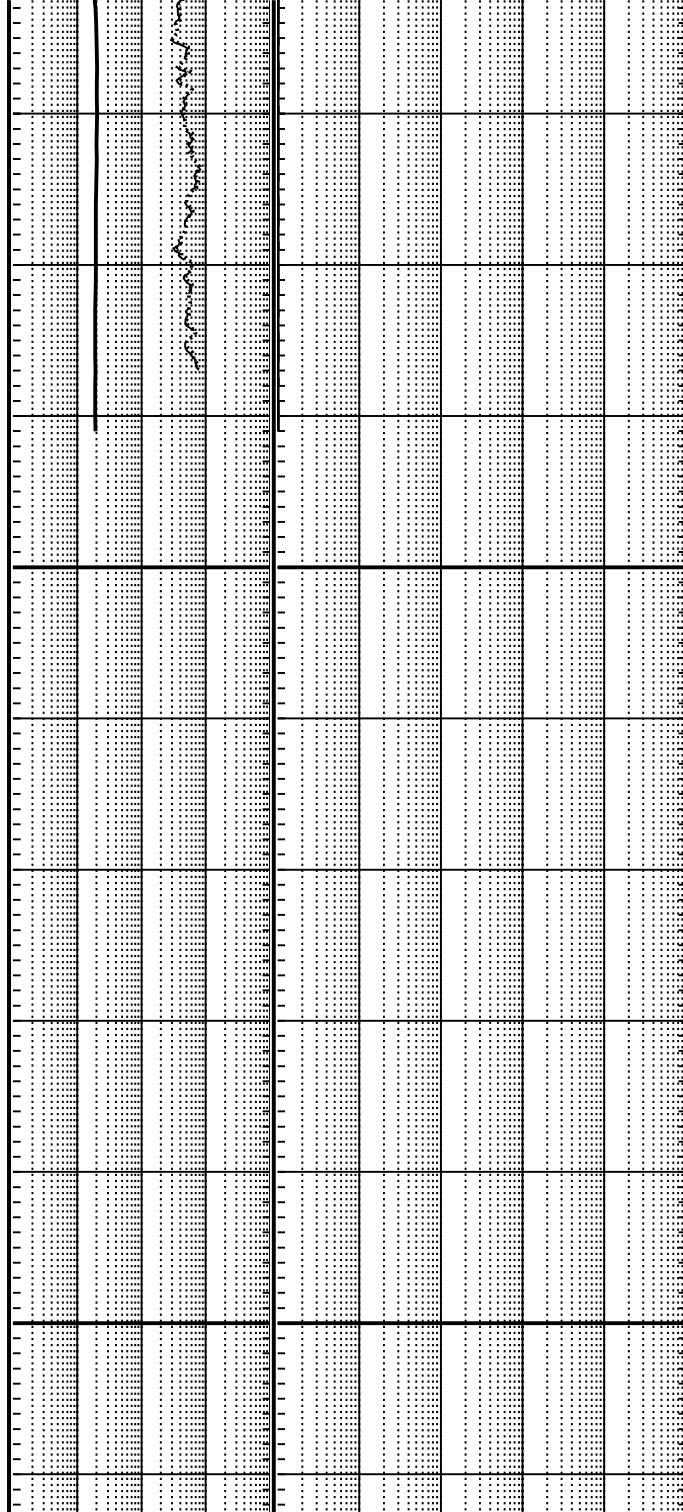
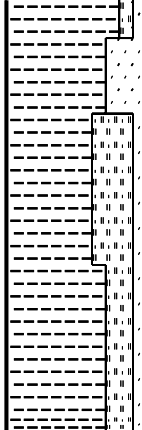
MW 1.10 V 66 PV/YP 17/25
Gels 8/9 F 5.6 FC 1 Sol 5
Sd 0.5 pH 9.5 Cl 31k Ca 280 KCl 51. 5k

F/331-391m
SILTSTONE: m gy-m dk gy, occ dk gy, sft-frm, occ mod hd, sbblky, tr v f qtz gr, tr arg mtrx, tr micmic, tr carb spk,, calc, loc grd to:



400

450



CLAYSTONE: m lt gy-m gy, sft, stky,
disp, sbblky, tr micmic, tr carb spk, sil,
calc

Reached 391m TD @ 02:30 hrs
29 April 2001

Drilling Data Plot

1: 2500



Company Eagle Bay Resources N. L.
Well Northright - 1
Permit VIC/P-41
Region Gippsland Basin, Offshore Victoria, Australia
Designation Vertical Exploration
Datum AMG Zone 55 (AGD 84)
Coordinates 037° 55' 57.754" S Lat
 149° 08' 58.942" E Long
Spud date 26 April 2001
Spud depth 130.5m RT
Reference Elevation RT 25 m above Sealevel LAT
Total Depth 391 mRT
Contractor Diamond Offshore General Co.
Rig MODU Ocean Bounty
Type Semi-Submersible

LOG INTERVAL

Depth 130.5 mRT to 391 mRT
Date 26 April, 2001 - 29 April, 2001
Data Engineers R. Tadiar, R. Tena
Mudloggers Ajitoro, M. Ronan
Sample Technicians R. Hatcher, E. Spence

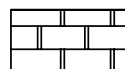
INTEQ LOG SUITE

Formation Evaluation 1:500 Drilling Data Plot 1:2500
 Pressure Data Plot 1:2500 Pressure Summary 1:2500

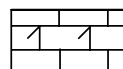
ABBREVIATIONS

NB	New Bit	SG	Swab Gas
RB	Rerun Bit	FCG	Flow Check Gas
CB	Core Bit	FC	Filter Cake
WOB	Weight on Bit	SPP	Pump Pressure
RPM	Revs per Minute	V	Funnel Viscosity
FLC	Flow Check	F	Filtrate - API
GPM	Gallons per Minute	MW	Mud Weight sg
CR	Circulate Returns	PV	Plastic Viscosity
PR	Poor Returns	YP	Yield Point
NR	No Returns	Sol	Solids %
BG	Background Gas	Sd	Sand %
TG	Trip Gas	Cl	Chlorides
STG	Short Trip Gas	RM	Mud Resistivity
CG	Connection Gas	RMF	Filtrate Resistivity

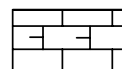
LITHOLOGY SYMBOLS



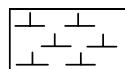
Calcareenite
Ca



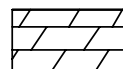
Calcsiltite
Cs



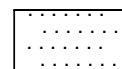
Calcilutite
Cl



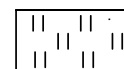
Calcareous
Claystone



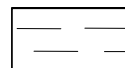
Dolomite
Dol



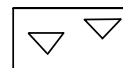
Sandstone
Sst



Siltstone
Slst



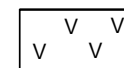
Claystone
Clst



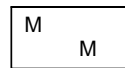
Chert
Cht



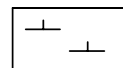
Coal
C



Volcanics
lg Exv, Volc



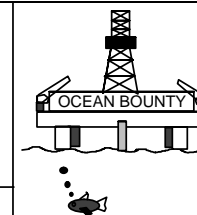
Mica
Mic



Calcareous
Calc



Cement
Cmt



Datum, Rotary Table (RT)
Sealevel 25 m RT
(LAT)

Seabed 130.5 m

660mm / 914mm hole to 154 m

762 / 340mm shoe set @ 153 m

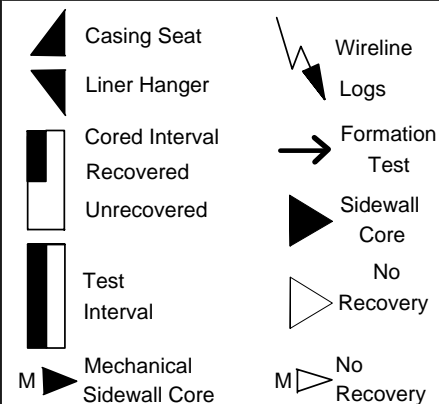
Seawater / Hi-vis sweeps

Returns to Seabed

311mm hole to 250 m
244mm csg set at 247 m

KCl / PHPA
mud system

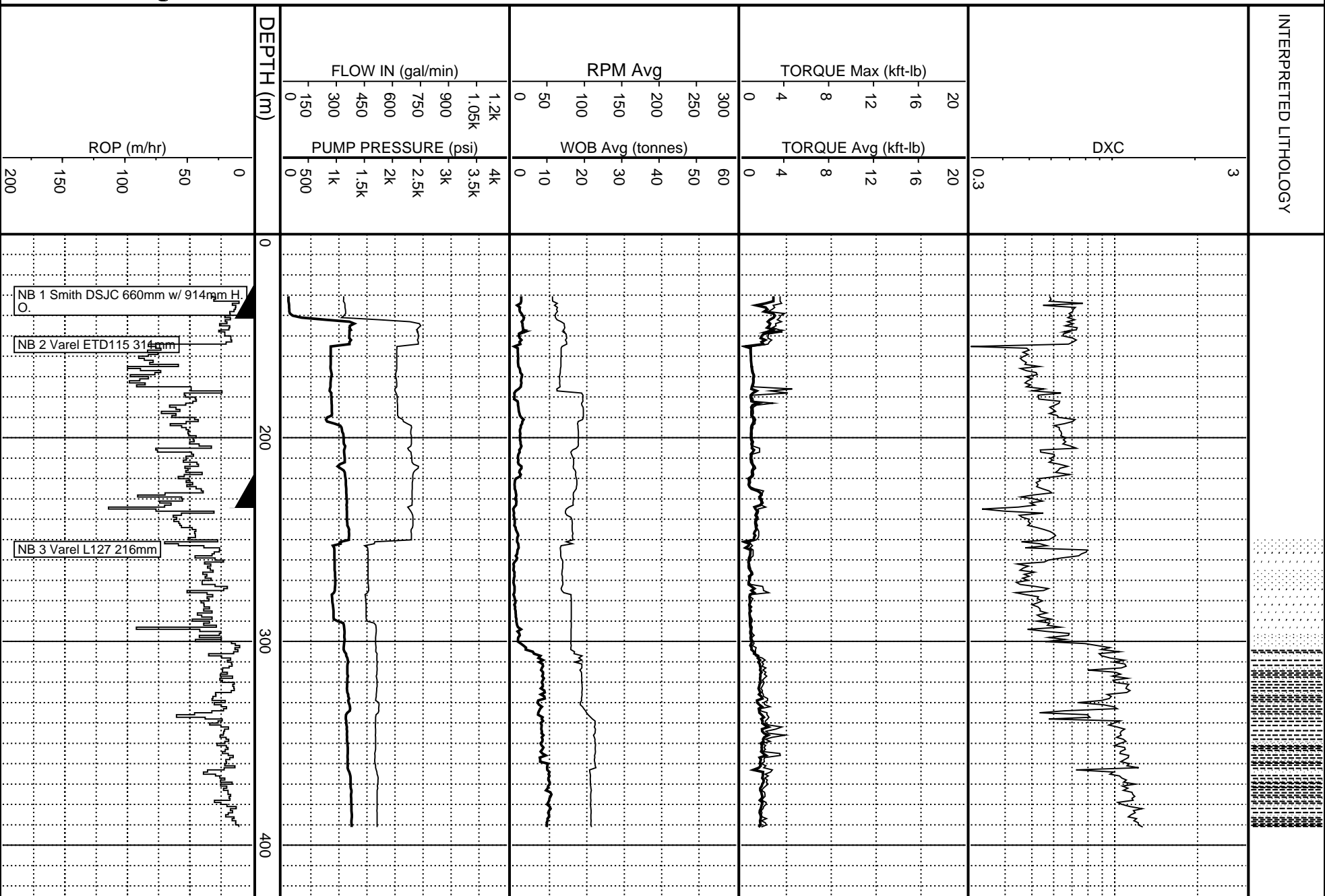
216mm hole to 391 m TD



DRILLING DATA PLOT

Northright-1

SCALE 1 : 2500.0



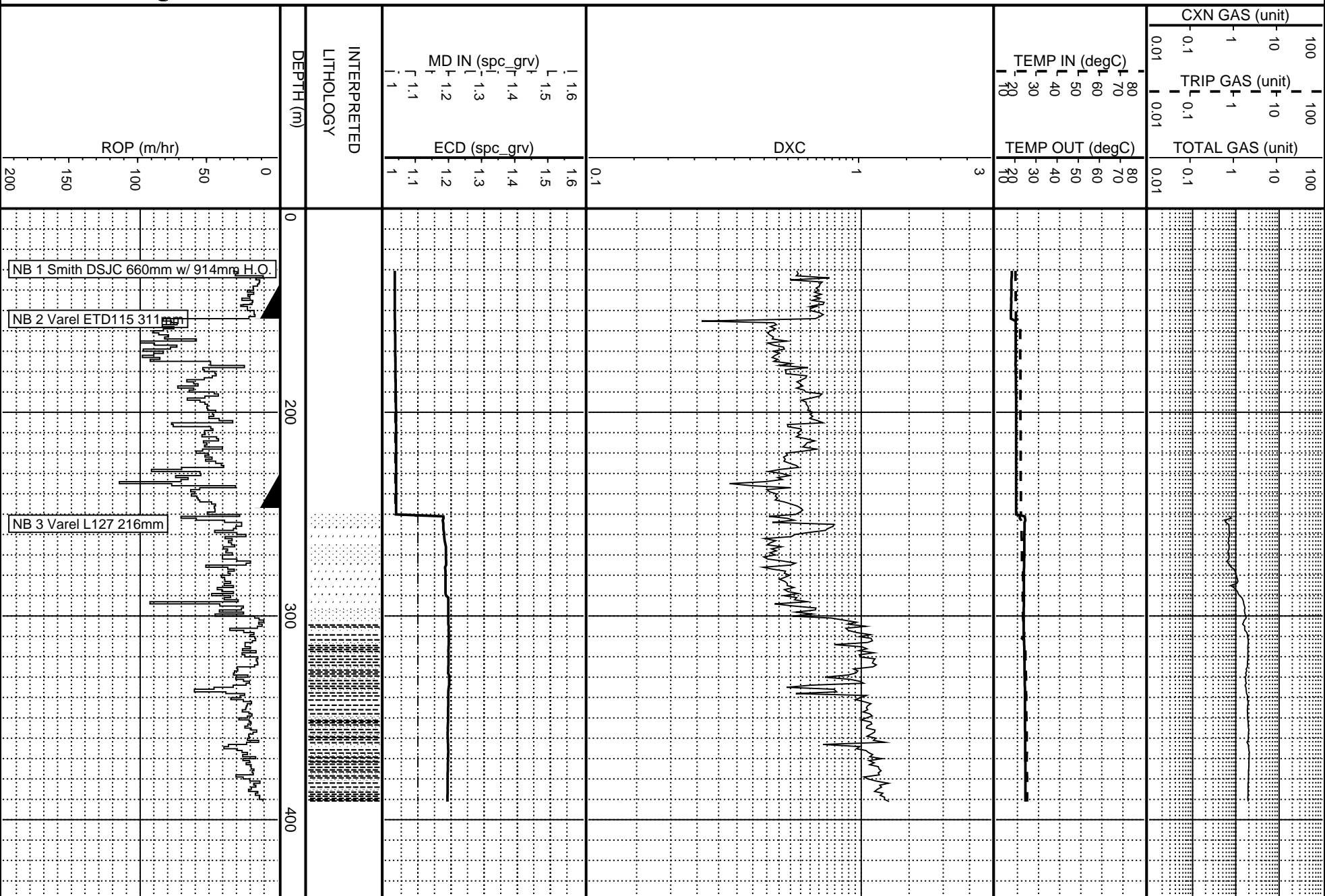
Pressure Data Plot

1: 2500

PRESSURE DATA PLOT

Northright-1

SCALE: 1:2500.0



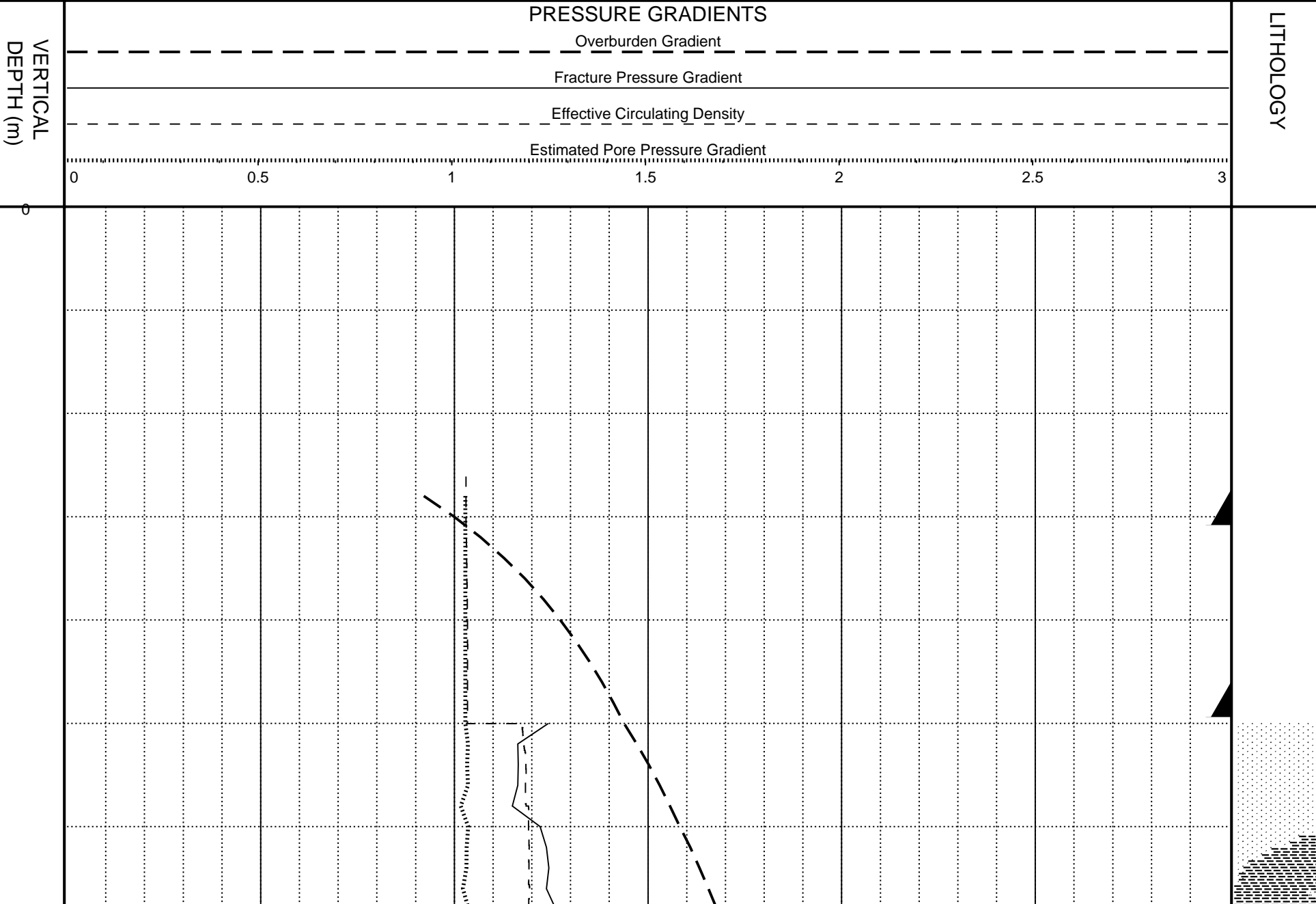
Pressure Summary Plot

1: 7500

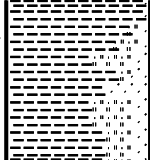
PRESSURE SUMMARY PLOT

Northright-1

SCALE: 1:2500.0



500



Gas Ratio Analysis Plot
1: 500

***NOT ENOUGH GAS DATA WERE RECORDED TO
WARRANT GENERATION OF THIS PLOT***