APPENDIX G

FEWD/MWD REPORT

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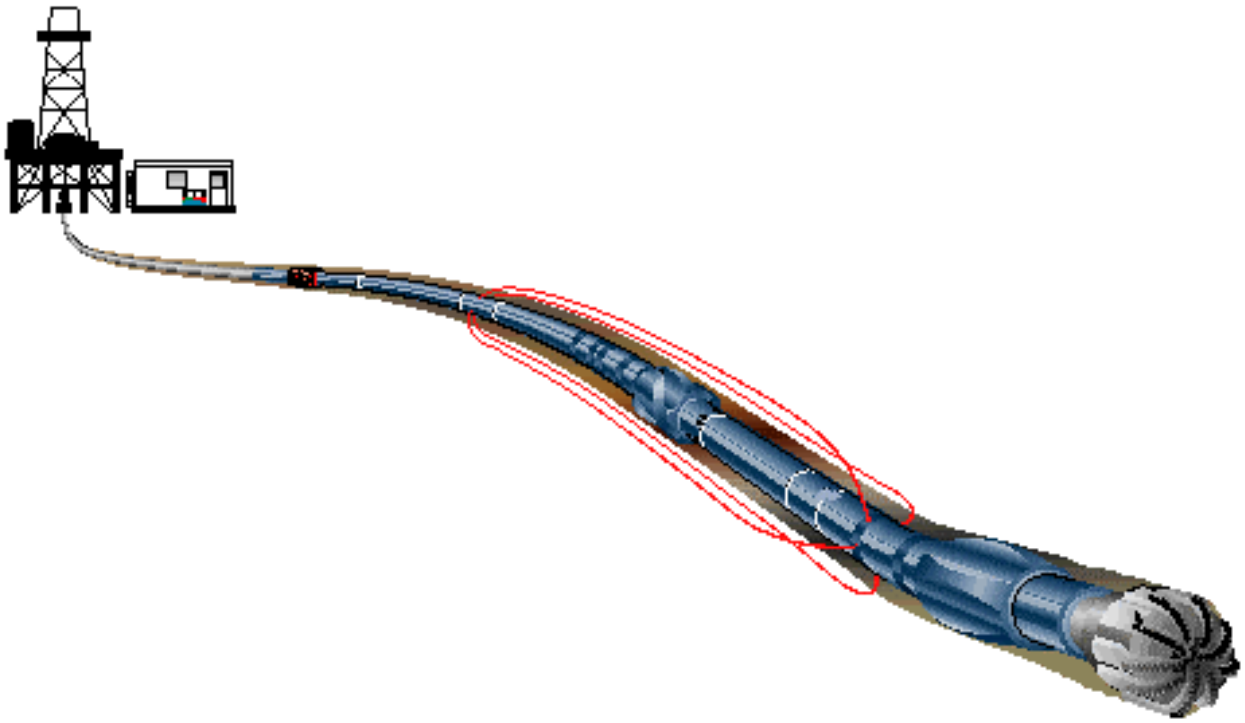
Eagle Bay Resources N.L.

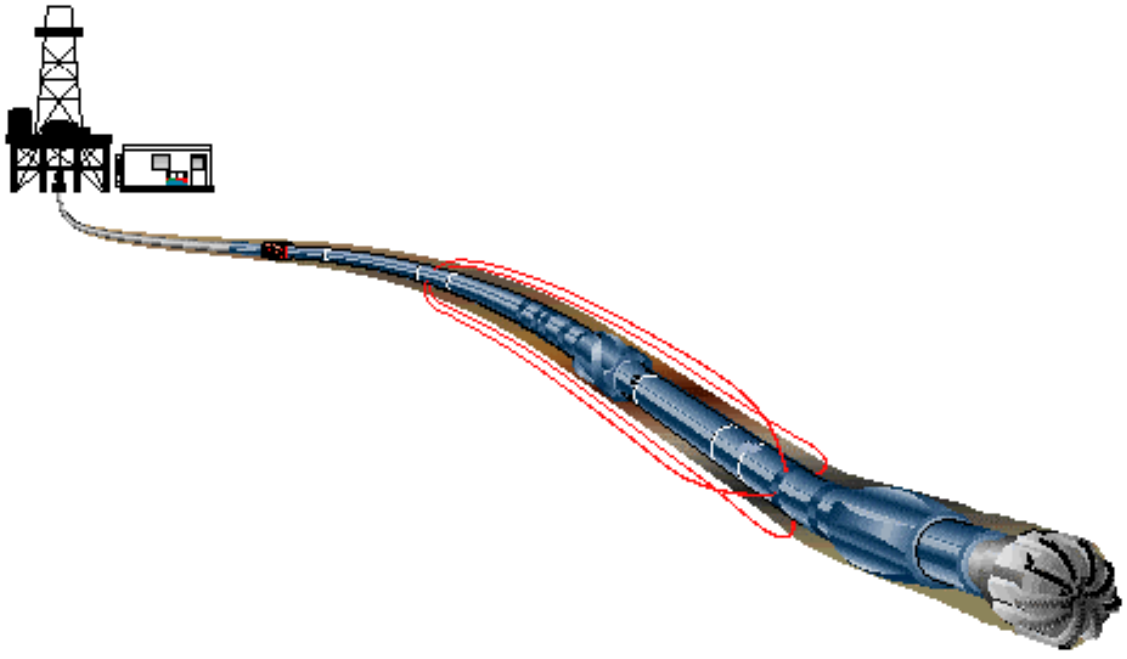
Northright1

MWD – LWD End of Well Report



End of Well Report for Northright1

Contents



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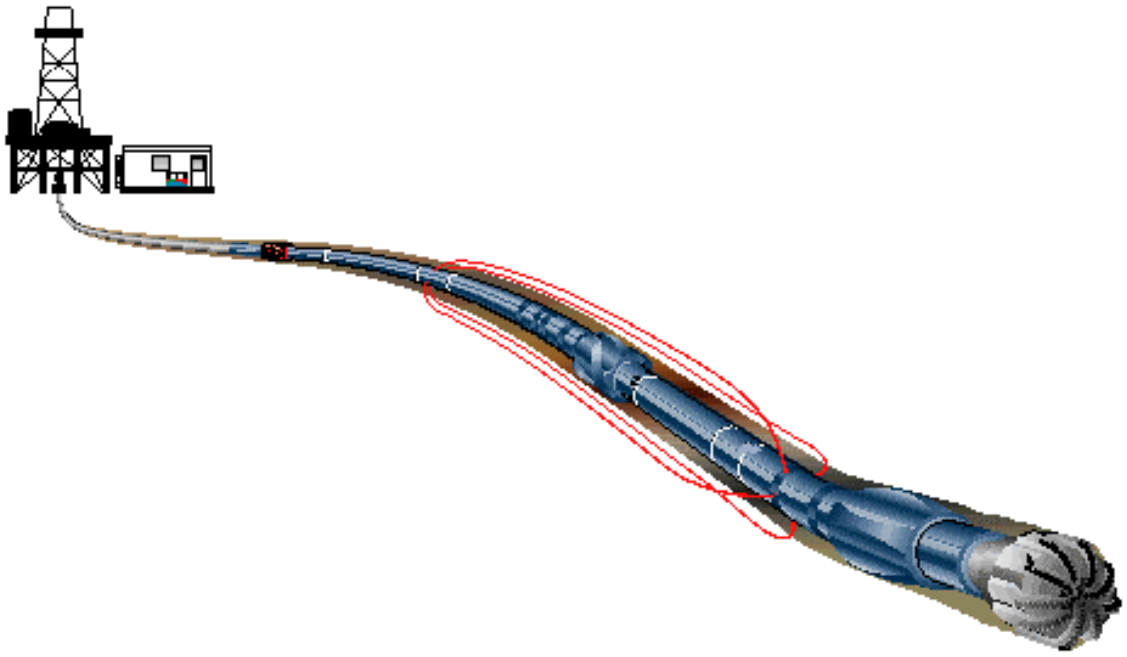
Logging Overview



Logging Overview

8 ½" Section:

Schlumberger Drilling and Measurements provided MWD and LWD services using the PowerPulse and ARC6 tools in the 8 ½" section of Northright1. The PowerPulse was installed with a MVC 4-axis shock/vibration unit that allowed the real-time monitoring of downhole drilling conditions with the purpose of providing a better understanding of the mechanics of the shocks occurring during drilling and reaming operations. The MVC data showed some low level shocks were recorded while drilling out of the float, shoe track and shoe but they were not deemed to be excessive to be of concern to damaging the PowerPulse or ARC6. No other shocks were recorded for the remainder of the hole section. The ARC was installed with an APWD (Annular Pressure While Drilling) sensor to monitor annular pressure and temperature during drilling and reaming operations.

The 8 ½" section was drilled and logged in one bit run and the following formation evaluation data was provided in real-time:

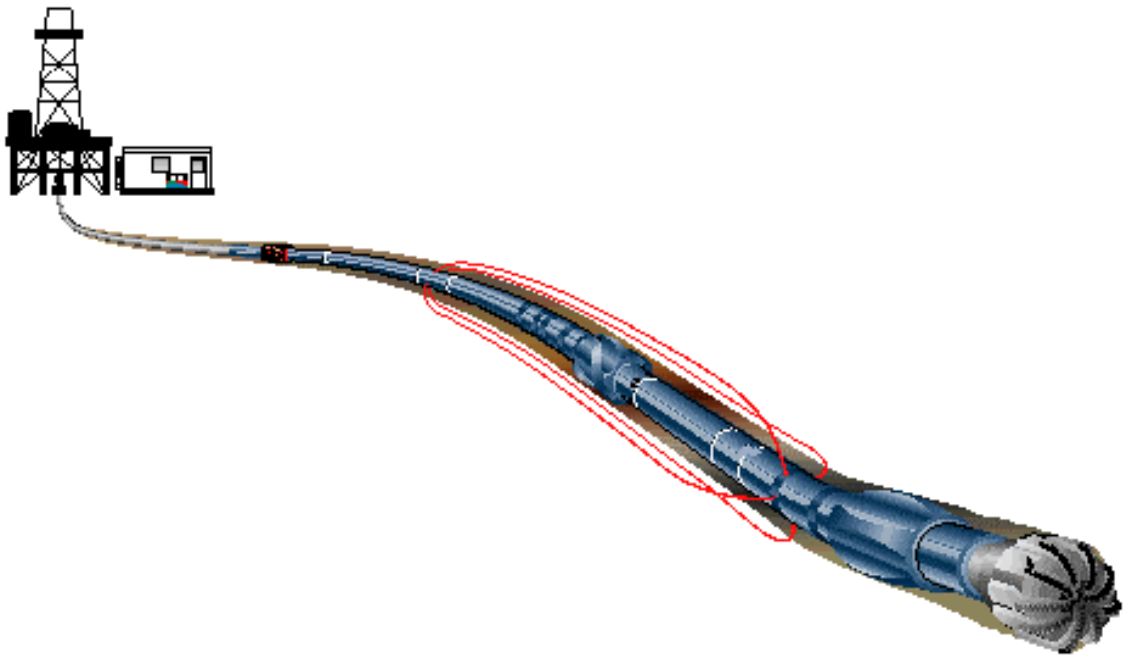
- ARC6 2MHz Phase Shift Induction Resistivity at 3 depths of investigation
- ARC6 Gamma Ray
- ARC6 Annular Pressure and Temperature

The following recorded mode formation evaluation measurements were provided once the LWD tools were on surface and the memory data retrieved:

- ARC6 2MHz Phase Shift Induction Resistivity at 5 depths of investigation
- ARC6 2MHz Attenuation Induction Resistivity at 3 depths of investigation
- ARC6 Gamma Ray
- ARC6 Annular Pressure and Temperature

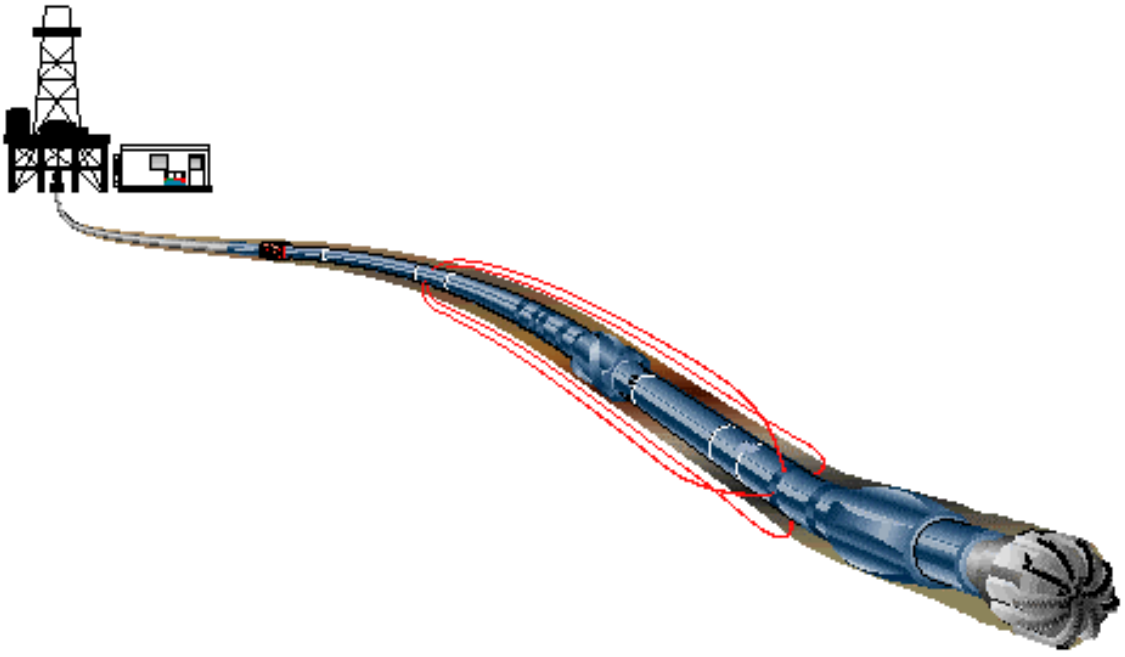
No MWD or LWD operational problems were encountered during drilling of the 8 ½" section with minimal shocks recorded, a very good signal for surface demodulation for real-time logging data and good quality recorded mode logging data provided for the client.

General Information



General Information

Client:	Eagle Bay Resources N.L.	
Well Name:	Northright-1	
Rig:	Diamond Offshore Ocean Bounty	
Field:	Exploration / Permit Zone VIC/P-41	
Location:	Gippsland Basin, Offshore Victoria	
Country:	Australia	
Cell Members:	Anthony Strahan	MWD/LWD Engineer
	Milan Saicic	MWD/LWD Engineer
Town Contacts:	Ike Nitis	Location Manager - Australia
	Patrick Dassens	Engineer In Charge - VIC
Company Representatives:	M.Jackson	
	C.Wilson	



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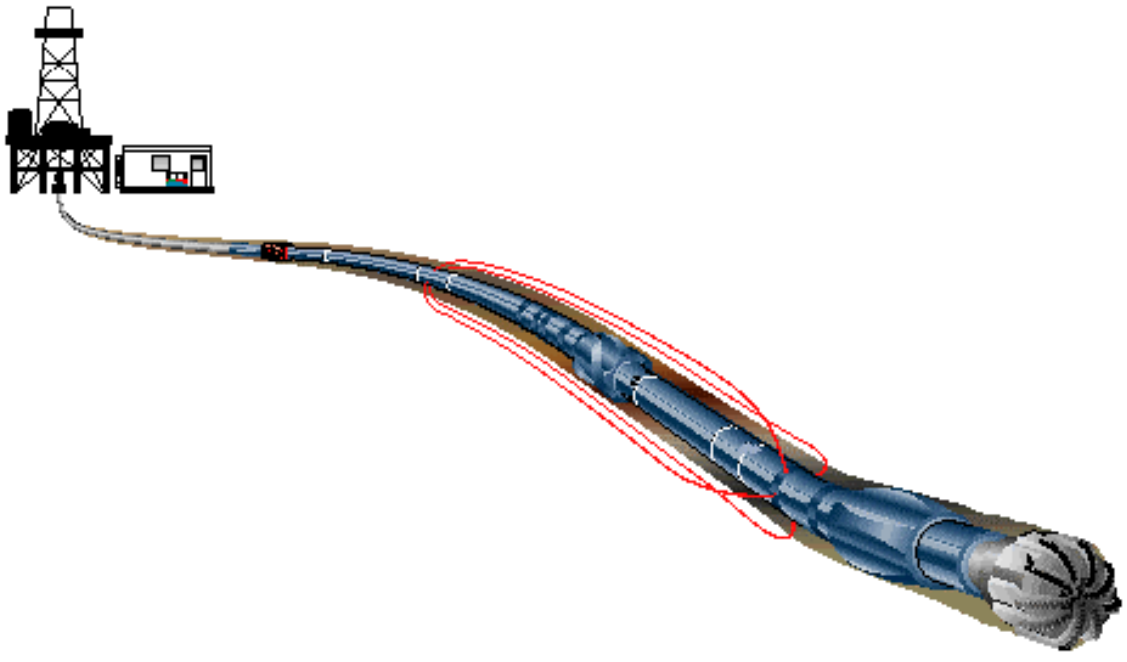
Geomagnetic and Survey Reference Criteria



Geomagnetic and Survey Reference Criteria

Geomagnetic Data

Magnetic Model:	BGGM version 2000
Magnetic Date:	26-April-2001
Magnetic Field Strength:	1196.48 HCNT (1 HCNT = 50 nT)
Magnetic Declination:	13.35 degrees
Magnetic Dip:	-68.39 degrees

Survey Reference Criteria

Reference G:	1000.00 mG
Reference H:	1196.48 HCNT
Reference Dip:	-68.39 degrees
G value Tolerance:	2.50 mG
H value Tolerance:	6.00 HCNT
Dip Tolerance:	0.45 degrees

Survey Corrections Applied

Magnetic Declination:	13.35 degrees
Grid Convergence:	0 degrees
Total Azimuth Correction:	13.35 degrees

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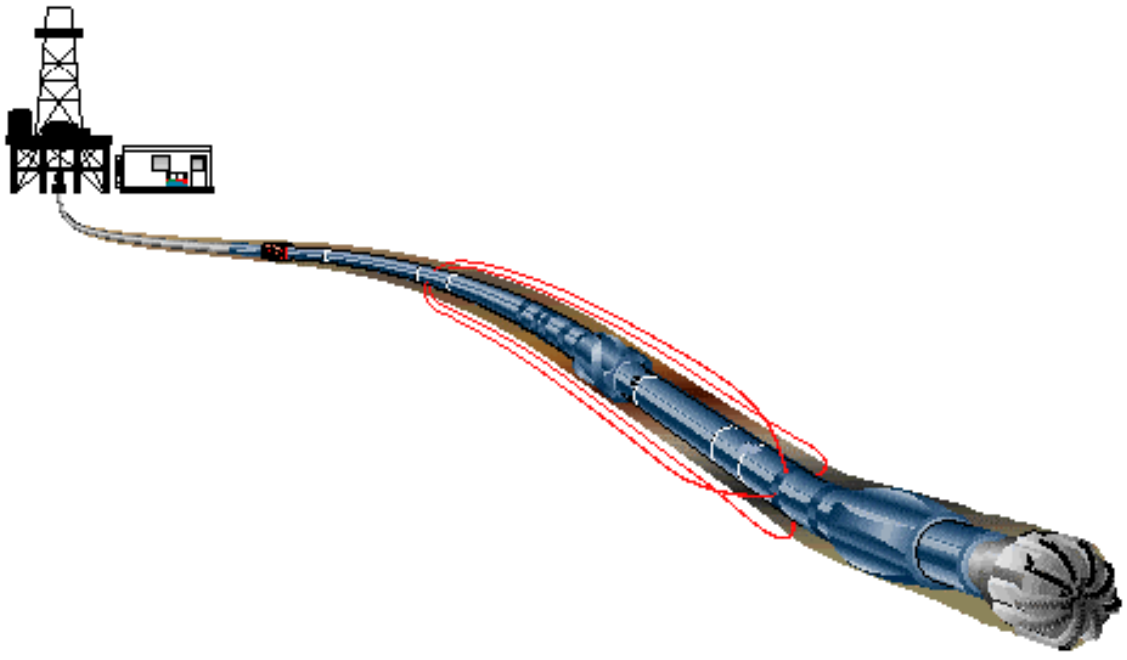
Survey Report



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Survey Report

Seq # -	Measured depth (m)	Incl angle (deg)	Azimuth angle (deg)	Course length (m)	TVD depth (m)	Vertical section (m)	Displ +N/S- (m)	Displ +E/W- (m)	Total displ (m)	At Azim (deg)	DLS (deg/ 10m)	Srvy tool type
1	130.53	0.00	0.00	0.00	130.53	5.40	5.40	-5.90	8.00	312.47	0.00	TIP
2	237.27	0.06	161.38	106.74	237.27	5.35	5.35	-5.88	7.95	312.27	0.01	MWD
3	319.46	0.35	263.49	82.19	319.46	5.28	5.28	-6.12	8.08	310.78	0.04	MWD

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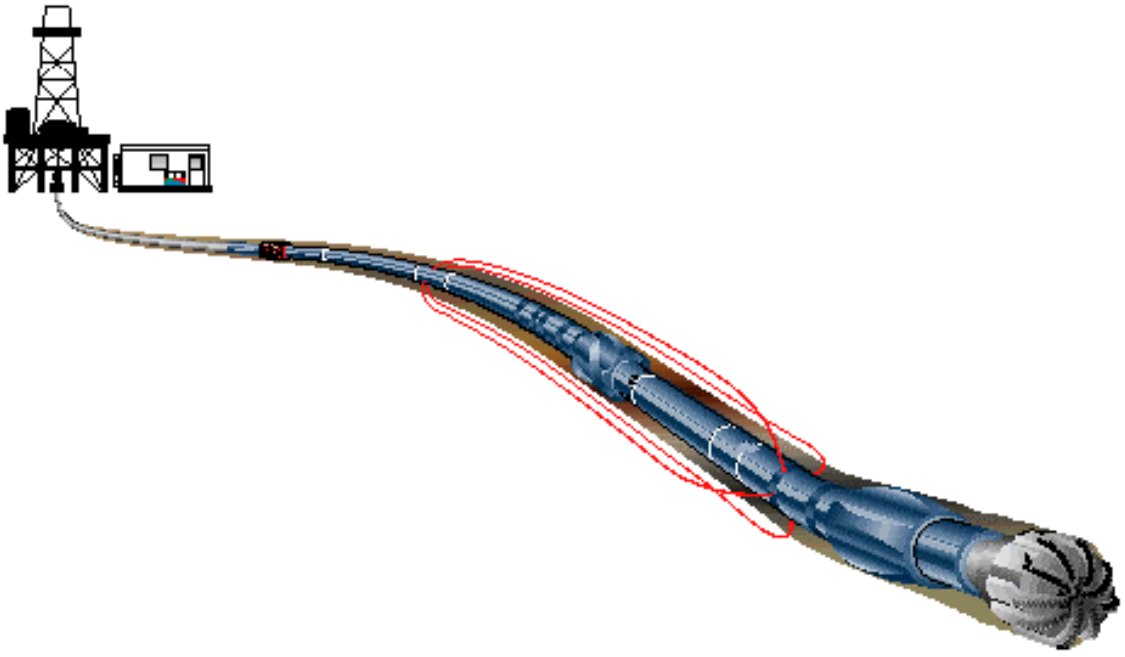
Bit Run Summary



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MWD/LWD Bit Run Summary

Job Number:	Company Representative:	Date In:	Date out:	MWD Run No.:	LWD Run No.:	Rig Bit Run No.:	Cell Manager:
-	M.Jackson	28-Apr-01	29-Apr-01	1	1	3	Anthony Strahan

Company:	Hole Depth-From:	To:	Hole Size (in):	MWD Size:	Collar Type:
Eagle Bay Resources	250 m	391 m	8-1/2 in	6-3/4 in	Normal Flow

Rig Name:	Initial Survey Depth:	Final Survey Depth:	Last Casing Size:	Last casing depth:	Jets/TFA:
Diamond Offshore Ocean Bounty	237 m	319 m	9-5/8 in	247 ft	3 x 16 / 0.589 in^2

Well Name:	Inclination-From:	To:	Bit MFG/Model/IADC Code/Serial number:
Northright 1	0.06 deg	0.35 deg	Varel / L127 / 4105 04B

Location:	Azimuth-From:	To:	Downhole Motor Type/Size/RS config/Jet:
Gippsland Basin, Offshore Victoria	161.4 deg	263.5 deg	n/a

Frame Format:	TVD-From:	To:	Bit Hours:	Drilling Hrs (btm):	Distance Drilled:
Rotary MVC / ARC / APWD	250 m	391 m	6.10 hrs	6.10 hrs	141m

Bit-To-Survey:	Mag Dec / Grid Conv:	Flow Min (in mud):	Flow Max (in mud):	Circ. Hours:	RT Trans. Hrs:	RT Trans Distance:
11.58m	13.35deg	400 gpm	800 gpm	2.30 hrs	8.40 hrs	141 ft

Spud Date	TF Correction (SPM):	Modulator Gap:	Telemetry:	Ream Hours:	LWD Ream Hrs:	LWD Ream Distance:
26-Apr-01	0.0 deg	0.080 in	24Hz / 6 bps / BPSK	0.00 hrs	0.0 hrs	0 m

RT to MSL	MSL to Ground Level	Pump Output/Type:	Bent Housing Angle:	Total Pump Hrs:	LWD Logging Hrs:	LWD Logging Distance:
25.0 m	-105.53 m	4.28 gal/stk / Triplex	n/a	8.40 hrs	6.1 hrs	141m

IADC	Teeth				Bearing	Gauge	Other Char	Reason Pulled	Bit Grading-Mel:	% Slide (dist):	% Rotate:
Cutting	Inner	Outer	Dull	Location	Seals					0%	100%
Structure	3	4	WT	A	E	In	No	TD	n/a	Time BRT:	Time ART:
										9:30	4:45

Surface and downhole software versions

Advisor	IDEAL	SPM	Sonic	CDN	ADN	ARC	RAB	PowerPulse	SLIM	Battery on time	Time BRT
n/a	id6_1c_03	SPM 6.1C-03	n/a	n/a	n/a	6.3B	n/a	6.1B	n/a	16.0 hrs	19 hrs 15 min

MWD	Pumping Hours Start	Pumping Hours Cum	LWD	Pumping Hours Start	Pumping Hours Cum		Real Time Hrs	Real Time Fail	Real Time Ft/M	Recorded Time Hrs	Recorded Time Fail	Recorded Time Ft/M
MDC #066-AB	0.0	8.4	ARC6 #087	0.0	8.4	MWD D&I	8.4	No	141	24.4	No	141
MMA #412-BB	0.0	8.4	APWD #198145	0.0	8.4	MVC	8.4	No	141	24.4	No	141
MEC #612-BB	0.0	8.4										
MTA #570-BB	0.0	8.4										
						ARC Resistivity	8.4	No	141	24.4	No	141
MVC #098-AA	0.0	8.4				ARC GR	8.4	No	141	24.4	No	141
						ARC APWD	8.4	No	141	24.4	No	141
MEXD #206	0.0	8.4										

Read Out Port to bit distance.

Isonic	CDN	ADN	CDR	RAB	ARC6	PowerPulse	SLIM
n/a	n/a	n/a	n/a	n/a	5.20 m	9.23m	n/a

Operating Conditions

Avg R0P:	Avg Wob (klbs):	Avg Flow (gpm):	Avg SPP (psi):	Avg RPM (rpm):	Avg Torq (kflbs):	Max Circ. Temp.:			LCM: n/a
23.1ft/hr	12 k.lbs	500 gpm	1200 psi	100 rpm	4 k.ft.lbs	28 degC			Type:
Mud Type:	Final Mud Wt:	Final Vis. (sec/qt):	Sand %:	Solids %:	PV: / YP:	O/W Rat / Filtrate:	Chlor's:	Silicate:	
KCl / Polymer	1.1 sg	66 sec	0.50 %	5.0 %	17 / 25cP	- / 5.6 cc	31000	-	Size:
Bit/Sec / Carrier:	Turbine Rotor:	Turbine Stator:	Update (GR):	Collar Size/Type:	IWOB Collar:	Jarring?	No of Jar Cycles:		
6 bps / 24 hz	400-800 gpm	400-800 gpm	10sec	6-3/4 in	No	No	-		Conc:
BHA Type:	Bit Type:	Float Sub?	Surface Screen:	BHA Vibration?	Surf.Vibration?	Noise Problems?	Surface Noise?		Downhole Noise?
Rotary	Rock	Yes	No	No	No	No	No		No
Failure?	Downhole Failure?	Surface Failure?	Trip Due to Tool Failure?	Rig Time Lost Due To Failure?	Client Inconvenience?	Max MWD Shock:	Total D/H Shock:		Max Shock Duration:
No	No	No	No	No	No	None	None		-

Summary:

No problems encountered with good signal from MWD for real-time logging data, no shcoks recorded and good quality recorded mode logging data.

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MWD/LWD Bit Run Summary

				MWD Run	1	LWD Run	1	
Date	Time	Depth	Comments	BHA Description				
28-Apr	07:13	Surface	Initialise ARC6#087 with 5sec configuration, 583 memory fill hours	Item	Length	OD"	ID"	Conn
	08:30	Surface	Make up BHA	Rock Bit	0.24	8-1/2 in	-	6-5/8 in Reg
	09:15	Surface	SHT at 600 gpm OK	Bit Sub	0.92	6-1/2 in	Float	4-1/2 in IF
	09:20	Surface	Reprogram MWD for ARC (unable to communicate with MWD on pipedeck)	X/O	0.50	6-3/4 in	3-1/2 in	4-1/2 in IF
	09:30	Surface	SHT at 600 gpm OK	X/O	0.31	6-3/4 in	3-1/2 in	5-1/2 in IF
	11:45	230m	Drill out float and shoe	ARC6	5.49	6-3/4 in	3-1/2 in	5-1/2 in FH
	15:40	250m	Drilling new formation	X/O	0.46	6-3/4 in	3-1/2 in	5-1/2 in FH
	16:30	255m	Circulate hole clean, conduct FIT.	PowerPulse6	7.49	6-3/4 in	3-1/2 in	5-1/2 in FH
	21:00	300m	Rm=0.149, Rmf=0.138, Rmc=0.208 at 27degC	X/O	0.49	6-3/4 in	3-1/2 in	4-1/2 in IF
29-Apr	02:30	391m	TD, POOH	6 1/2" DC	9.19	6-3/4 in	3-1/2 in	4-1/2 in IF
	04:30	Surface	BHA above rotary table	Stabiliser	1.50	6-3/4 in	3-1/2 in	4-1/2 in IF
	05:00	Surface	Download memeory data from ARC	3 x 6 1/2" DC	28.02	6-3/4 in	3-1/2 in	4-1/2 in IF
				Jars	9.38	6-3/4 in	3-1/2 in	4-1/2 in IF
				2 x 6 1/2" DC	18.75	6-1/2 in	2-13/16 in	4-1/2 in IF
				12 x HWDP	108.84	6-1/2 in	2-13/16 in	4-1/2 in IF
				Total Length	191.58			
				BHA Weight		In air	In mud	
				Total				
				Below Jars				

Stabilizer Description	Distance blade mid pt to Bit	Blade type	Blade length	Blade width	Gauge in	Gauge out	BHA Data Predict BHA Tendency

Date	Field Engineer	Present Depth	Average ROP	Average SP Press.	Desurger Pressure	Turbine RPM @ GPM	Average rotary	Motor RPM	Shock Log ARC	Shock Log MWD	Shock Log Max	Shock Log TDH
28-Apr	AS	310	20 m/hr	1150 psi		3554 @ 504 gpm	95 rpm	-				

Time	Avg/Max DWOB	Avg/Max SWOB	Avg/Max DTOR	Avg/Max STOR	Fric	Drag Up/Down	Mud Weight	Mud Vis	Mud Resistivty @ Temp °C	Noise Margin	SPT1	SPT2
21:30	-	17 k.lbs	-	2 k.ft.lbs			1.1 sg	66 sec	0.149 @ 26 degC	95.0%	19.0 psi	21.0 psi