



DAILY GEOLOGICAL REPORT

DGR 13

Date:	26 December 2008	Licence / State:	VIC/P46
Report Period:	06:00 – 06:00 hrs AEDT	Rig:	Seadrill: West Triton
Days From Spud:	12	RT - SEAFLOOR:	76.7m
Current Hole Size:	311mm (12.25")	WATER DEPTH	38.7 m MSL
		RT:	38.0 m MSL
Depth @ 06:00 Hrs EST:	2396.5m MDRT	PTD:	4000.0 m MDRT
	2394.30m TVDRT	Spud Date:	14 December 2008
	-2356.30m SS		
24 Hr Progress:	79.5m		
06:00 – 06:00 EST			
Current Operation:	Trouble shooting cyber system/draw-works problems on trip out.		
AFE Cost	(Drill)\$	(C&S)\$	Cost To Date:
		(P&A)\$	

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
1	914 mm (36")	119m	762mm (30")		X52	116m	
2	444mm (17.5")	999m	340mm(13.375")	68lb/ft	NT80HE	987m	15.0ppg EMW
3	311mm(12.25")		244mm(9.675")				

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf
22:00	KCl Polymer	9.70	53	4.6	9.0	6.9%	48k	14/37	-

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Present	4	Reed	PDC	RSR616M -A10	311mm (12.25")	83.3	1369.5	
Last	3	Hughes	Rock	GT-1	311mm (12.25")	2	28	0 0 NO A E I NO BHA

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
62	MWD	2323.60	3.26	226.76	2321.49	77.12	227.51
63	MWD	2382.70	3.36	228.47	2380.49	80.53	227.52

Fluid Loss	Interval MDRT	Total or Rate (bbl)	Remarks
	2317-2396.5m	144	

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs AEDT

Drilled ahead 311mm (12.25") hole 2317-2396.5m. POOH to 920m. Trouble shooting cyber system/draw-works problems.

Anticipated operations:

Pick up BHA for correction run and RIH. Drill ahead 311mm (12.25") hole.

FORMATION TOPS

FORMATION	ACTUAL TOP		High / Low		PROGNOSED TOP	
	(MDmRT)	(mSS)	Prognosis	Normanby-1	(MDmRT)	(mSS)
Heytesbury Group	76.7	-38.7	0m	10 High	76.7	-38.7
Nirranda Group	492	-454	49m Low	145 High	443.0	-405.0
Dilwyn Formation	576	-538	38m Low	152 High	538.0	-500.0
Pember Mudstone	963	-925	15m Low	255 High	948.0	-910.0
Pebble Point Formation	1075	-1037	47m Low	227 High	1028.0	-990.0
Timboon Sandstone	1092	-1054	44m Low	236 High	1048.0	-1010.0
Paarratte Formation	1245	-1207	22m Low	251 High	1223.0	-1185.0
Skull Creek Mudstone	1705	-1666	1m Low	258 High	1703.0	-1665.0
Nullawarre Greensand	1850	-1811	26m Low	232 High	1823.0	-1785.0
Belfast C & B Mudstone	1905	-1867	27m Low	220 High	1878.0	-1840.0
Belfast A Mudstone	2160	-2122	3m High	240 High	2163.0	-2125.0
Flaxman Formation					2938.0	-2900.0
Waarre Formation Unit C					3228.0	-3190.0
Waarre Formation Unit B					3533.0	-3495.0
Waarre Formation Unit A					3588.0	-3550.0
Eumeralla Formation					3988.0	-3950.0
Total Depth					4000.0	-3962.0

HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS
2302-2396.5m	Nil	

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition %
2302-2396.5m 6.5-31.7m/hr 15m/hr avg	<p>Claystone and Siltstone with minor interbedded Sandstone</p> <p>SANDSTONE (15-65%) Quartzose, clear to translucent, frosted, light grey, very fine to coarse, predominantly fine, subangular to subrounded, moderately to well sorted, common silty matrix, carbonate cement, predominantly disaggregated, with common firm carbonate cemented aggregates, trace dolomite, trace limestone, fair to good porosity, no fluorescence</p> <p>SILTSTONE (10-50%) Dark grey to olive grey, argillaceous, micaceous, commonly pyritic, firm, blocky to subfissile, trace to 10% dark grey to black, hard to very hard, subfissile to fissile silty shale.</p> <p>CLAYSTONE (15-75%) Light grey to light olive grey to yellowish grey, silty in part, common carbonaceous fragments, micromicaceous, soft to firm to slightly dispersive, massive to amorphous.</p>	<p>23 u PK at 2387m 92/5/2/1/0</p> <p>14 u BG 92/5/2/1/0</p>

**REMARKS:**

DGR 13 links to DDR 16

The Belfast Unit A encountered in Fermat-1 contains sandstone lenses from 2295m ~ 5-10m thick and appear to be broadly equidistant with ~30m spacing (see GR log). Note these sandstone lenses were not encountered in Normanby-1.

LWD Offsets from Bit:**Run 2:**

GR: 4.9m
Res: 4.85m
ECD: 4.14m
Survey: 12.96m
Sonic: 22.37m

Geologists: Roman Leslie / Greg Clota