



Fermat-1

DAILY GEOLOGICAL REPORT

DGR 3

Date:	16 December 2008	Licence / State:	VIC/P46
Report Period:	06:00 – 06:00 hrs AEDT	Rig:	Seadrill: West Triton
Days From Spud:	2	RT - SEAFLOOR:	76.7m
Current Hole Size:	444mm (17.5")	WATER DEPTH	38.7 m MSL
		RT:	38.0 m MSL
Depth @ 06:00 Hrs EST:	233m MDRT	PTD:	4000.0 m MDRT
	233m TVDRT	Spud Date:	14 December 2008
	-195m SS		
24 Hr Progress:	114m		
06:00 – 06:00 EST			
Current Operation:	Drilling 444mm (17.5")		
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")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf
22:00	SW & Prehydrated Bentonite	8.8	488					10/75	-

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Present	2	Hughes	Rock	MXL-T00	444mm (17.5")	6.2	114	
Last	1 RR	Reed	Rock	Y11C	660mm (26")	2.5	42.3	1 1 NO A E I NO TD

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
1	MWD	167.75	1.24	1.78	167.74	1.82	1.78
2	MWD	197.16	0.28	58.77	197.16	2.17	3.37

Fluid Loss	Interval MDRT	Total or Rate (bbl)	Remarks

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Picked up 5 1/2" drill pipe, Laid out 26"/36" BHA . Held pre job JSA . Made final cut on 30' conductor @ 19.3m below RKB. Picked up 17 1/2" BHA and RIH to 17.87m. Performed shallow test on sonic tool, 700 GPM , 1700 PSI. Continued to RIH picking up 17 1/2" BHA from 17.87m to 115.37 m. Drilled out float shoe from 115.37m and cleaned out rathole to 119m. Drilled 17 1/2" hole from 119m to 233m.

Anticipated operations:

Drill ahead 444mm (17.5") to casing point in Pember Mudstone.

**FORMATION TOPS**

FORMATION	ACTUAL TOP		High / Low	High / Low	PROGNOSSED TOP	
	(MDmRT)	(mSS)	Prognosis	Offset	(MDmRT)	(mSS)
Heytesbury Group	76.7	-38.7	0m		76.7	-38.7
Nirranda Group					443.0	-405.0
Dilwyn Formation					538.0	-500.0
Pember Mudstone					948.0	-910.0
Pebble Point Formation					1028.0	-990.0
Timboon Sandstone					1048.0	-1010.0
Paarratte Formation					1223.0	-1185.0
Skull Creek Mudstone					1703.0	-1665.0
Nullawarre Greensand					1823.0	-1785.0
Belfast C & B Mudstone					1878.0	-1840.0
Belfast A Mudstone					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
119-233m	Returns to seabed	

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

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition %
119-233m 5-60m/hr Av 18m/hr	Returns to seabed	

REMARKS:

DGR 3 links to DDR 6

3x Schlumberger Wireline personnel to rig 15 Dec

LWD Offsets from Bit:

Gamma: 5.10m
Survey: 5.75m.
Sonic: 14.74m

Geologists: Roman Leslie / Greg Clota