



Fermat-1

DAILY GEOLOGICAL REPORT

DGR 1

Date:	14 December 2008	Licence / State:	VIC/P46
Report Period:	06:00 – 06:00 hrs AEDT	Rig:	Seadrill: West Triton
Days From Spud:	0	RT - SEAFLOOR:	76.7m
Current Hole Size:	914mm (36")	WATER DEPTH	38.7 m MSL
		RT:	38.0 m MSL
Depth @ 06:00 Hrs EST:	87m MDRT	PTD:	4000.0 m MDRT
	87m TVDRT	Spud Date:	14 December 2008
	-49.0m SS		
24 Hr Progress:	10m		
06:00 – 06:00 EST			
Current Operation:	Drilling 660/914mm (26"/36") hole.		
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")		762mm (30")		X52		

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCl:	Cl -:	PV/YP:	Rmf
01:52	SW & Prehydrated Bentonite	8.8	488					10/75	-

Bit Data	No.	Make	Type		Size	Hours	Meters	Condition
Present	1 RR	Reed	Rock	Y11C	660mm (26")	1	10.3	

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
	Anderdrift	87	1.0				

Fluid Loss	Interval MDRT	Total or Rate (bbl)	Remarks

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

P/U drillpipe and BHA for spudding well.

Prepared Texas Deck for drilling.

RIH and tagged seabed. Spud well at 00:00hrs 14/12/2008. Drilled 660/914mm (26"/36") hole from 76.7-87m

Anticipated operations:

Drill 660/914mm (26"/36") hole to casing point. Displace hole to Spud Mud. POH. Run and cement 762mm (30") casing.

FORMATION TOPS						
FORMATION	ACTUAL TOP		High / Low	High / Low	PROGNOSED 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
76.7-87m	Returns to seabed	

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

GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition %
76.7-87m	Returns to seabed	
Av 10m/hr		

REMARKS:

DGR 1 links to DDR 4

Spud Fermat-1 at 00:00hrs 14 December 2008.

Final Rig Position: LAT: 38° 11' 47.0287"S
 LONG: 141° 03' 13.7734"E

EAST: 504713.143m
 NORTH: 5772392.606m

Final location is 9.49m on a bearing of 249° T from the called location.

Geologists: Roman Leslie / Greg Clota
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