

### Trefoil-2

Date : 20 Nov 2009

Geology Report Number : 38

( associated DDR # 51 )

#### Well Details

Depth MDBRT:	3235.0m	Rig:	Kan Tan IV	Date:	20 Nov 2009
Depth TVDBRT:	3235.0m	Progress:	0.0m	Report Start:	0000
Depth TVDSS:	3209.0m	RTE agl:		Report End:	2400
Hole Size:	8.500in	GLE amsl:	0 (m)	Days On Location:	50.38
Hole Size Carbide:		Last Csg Size:	9.625in	Days since Spud:	45.67
Water Depth (MSL)	69.0m	Last Csg Shoe:	2520.0m		
RT-ASL(MSL)	26.0m	F.I.T. / L.O.T.:	11.00ppg /		

#### Operations Summary

24hr Summary:	Continued wireline logging Suite 1 Run 2: XPT-MDT.
Forward Plan:	Complete wireline logging, POOH, prepare to P&A.

#### General Comments

00:00 TO 24:00 Hrs ON 20 Nov 2009

<b>Operational Comments</b>	Geoservices: 2 Data engineers, 2 mudloggers on board. Sperry: No engineers on board. Schlumberger Wireline: 2 engineers, 4 operators, 1 technician on board. Main tool string for FMI-DSI run checked OK.
<b>Operational Comments</b>	Wireline logging run 2: XPT-MDT pretests: 65 attempted, 50 valid, 1 supercharged, 14 tight. 14 attempted sampling points, 7 pump outs, 3 sampling stations, 6 samples collected: 2 from 3171.2 mMDRT, 2 from 3155.1 mMDRT, 2 from 2830.3 mMDRT.

#### WBM Data

Mud Type: KCI POLYMER	Flowline Temp:	Cl:	36000mg/l	Low Gravity Solids:	Viscosity	57sec/qt
Sample From: 2	MWD Circ Temp:	Hard/Ca:	320mg/l	High Gravity Solids:	PV	13cp
Time: 20:00 hrs	Glycol CP Temp:	MBT:	10	Solids (corrected):	YP	29lb/100ft <sup>2</sup>
Weight: 9.50ppg	Glycol:	PM:	0.2	H2O:	Gels 10s	8
ECD TD:	Nitrates:	PF:	0.1	Oil:	Gels 10m	11
ECD Shoe:	Sulphites:	MF:	2.2	Sand:	Fann 003	8
ECD Cuttings:	API FL: 5.0cc/30min	pH:	9	Barite:	Fann 006	9
KCl Equiv: 7%	API Cake: 1/32nd"	PHPA Excess:			Fann 100	26
					Fann 200	35
					Fann 300	42
					Fann 600	55

#### Shakers, Volumes and Losses Data

Engineer : Jay Wan / James Munford

Available	1571.0bbl	Losses	0.0bbl	Equip.	Descr.	Mesh Size	Hours
Active	652.0bbl	Downhole		Shaker 1	Brandt VSM 300	20 top/50 bottom	
Mixing	0.0bbl	Surf+ Equip	0.0bbl	Shaker 2	Brandt VSM 300	20 top/50 bottom	
Hole	860.0bbl	Dumped		Shaker 3	Brandt VSM 300	20 top/50 bottom	
Slug		De-Gasser		Shaker 4	Brandt VSM 300	20 top/50 bottom	
Reserve	59.0bbl	De-Sander					
Kill		De-Silter					
		Centrifuge evaporation					

Comment

**Formation Tops**

Formation	Prognosed		Actual		Diff.	Thickness MD (m)	Pick Criteria
	MDBRT (m)	TVDSS (m)	MDBRT (m)	TVDSS (m)	+ / - TVD (m)		
Torquay Group	95.00	69.00	95.00	69.00	0.00	823.00	Sea floor
Lower Miocene Seismic Marker	904.00	878.00	918.00	892.00	-14.00	244.00	GR increase
Upper Angahook	1168.00	1142.00	1162.00	1136.00	6.00	169.00	GR decrease, res increase
Angahook Volcanics Equiv	1323.00	1297.00	1331.00	1305.00	-8.00	238.00	GR decrease, res increase
Lower Angahook	1564.00	1538.00	1569.00	1543.00	-5.00	281.00	GR decrease, res increase
Demons Bluff	1839.00	1813.00	1850.00	1824.00	-11.00	255.00	Res increase
Eastern View Coal Measures	2092.00	2066.00	2105.00	2079.00	-13.00	596.50	Res decrease
Eocene Unconformity	2691.00	2665.00	2701.50	2675.10	-10.10	157.30	GR decrease
2973 Seismic Marker	2841.00	2815.00	2858.80	2832.40	-17.40	79.00	GR decrease, res decrease
Base Low A1 Zone	2922.00	2896.00	2937.80	2911.40	-15.40	38.70	GR increase, res increase
TL40 Sand	2971.00	2945.00	2976.50	2950.10	-5.10	8.50	GR decrease
TL50 Sand	2981.00	2955.00	2985.00	2958.40	-3.40	9.50	GR decrease
TL60 Sand	2992.00	2966.00	2994.50	2967.90	-1.90	73.50	GR decrease
Cretaceous	3056.00	3030.00	3068.00	3041.70	-11.70	62.50	GR decrease
TF50 Sand	3123.00	3097.00	3130.50	3103.70	-6.70	19.30	GR decrease
TF80 Sand	3142.00	3116.00	3149.80	3123.00	-7.00	30.20	GR decrease
Total Depth (TD)	3221.00	3195.00	3235.00	3208.00	-13.00	0.00	

**06:00 Hrs Update**

Time:	06:00 Hrs on 21 Nov 2009
Depth:	3235 mMDRT/3234 mTVDRT
Progress Since Midnight (m):	0
Status @ 0600hrs:	Wire line Run #3, FMI-DSI-GR
Formation:	Earstern View Coal Measures
Lithology:	No drilling
ROP:	No drilling
Gas:	No drilling.

**Wellsite Geologist(s)**

(Days) - Dennis Archer (Nights) - Larissa Hansen