

Trefoil-2

Date : 19 Nov 2009

Geology Report Number : 37

(associated DDR # 50)

Well Details

Depth MDBRT:	3235.0m	Rig:	Kan Tan IV	Date:	19 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:	49.38
Hole Size Carbide:		Last Csg Size:	9.625in	Days since Spud:	44.67
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 to run wireline log #1: PEX-HRLA-HNGS-CMR. POOH. Rigged up and commenced wireline log #2: MDT-GR
Forward Plan:	Continue to run wireline log #2: MDT-GR, rig up and run wireline log #3: FMI-DSI-GR

General Comments

00:00 TO 24:00 Hrs ON 19 Nov 2009

Operational Comments	Geoservices: 2 Data engineers, 2 mudloggers on board. Gas equipment calibrated 12 Nov 09. Sperry: 3 MWD engineers on board. Schlumberger Wireline: 2 engineers, 4 operators, 1 technician on board. Main tool string for FMI-DSI run checked OK.
Operational Comments	Wireline logging run 2: XPT-MDT pretests: 35 tests attempted, 32 valid, 1 supercharged, 2 tight.

WBM Data

Mud Type: KCI POLYMER	Flowline Temp:	Cl:	37000mg/l	Low Gravity Solids:	Viscosity	58sec/qt
Sample From: 2	MWD Circ Temp:	Hard/Ca:	320mg/l	High Gravity Solids:	PV	12cp
Time: 22:00 hrs	Glycol CP Temp:	MBT:	10	Solids (corrected):	YP	29lb/100ft ²
Weight: 9.50ppg	Glycol:	PM:	0.2	H2O: 93%	Gels 10s	8
ECD TD:	Nitrates:	PF:	0.1	Oil:	Gels 10m	11
ECD Shoe:	Sulphites:	MF:	2.2	Sand: .3 %	Fann 003	7
ECD Cuttings:	API FL: 5.0cc/30min	pH:	9	Barite:	Fann 006	8
KCl Equiv: 7%	API Cake: 1/32nd"	PHPA Excess:			Fann 100	26
					Fann 200	34
					Fann 300	41
					Fann 600	53

Shakers, Volumes and Losses Data

Engineer : Jay Wan / James Munford

Available	1570.7bbl	Losses	15.0bbl	Equip.	Descr.	Mesh Size	Hours
Active	583.0bbl	Downhole		Shaker 1	Brandt VSM 300	20 top/50 bottom	
Mixing	0.0bbl	Surf+ Equip	15.0bbl	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	127.7bbl	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 20 Nov 2009
Depth:	3235 mMDRT/ 3234 mTVDRT
Progress Since Midnight (m):	0
Status @ 0600hrs:	Cont/ with Schlumberger wire line run #2. MDT, XPT
Formation:	Eastern View Coal Measures
Lithology:	No drilling
ROP:	No drilling
Gas:	No drilling

Wellsite Geologist(s)

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