

### Trefoil-2

Date : 10 Oct 2009

Geology Report Number : 4

( associated DDR # 10 )

#### Well Details

Depth MDBRT:	935.0m	Rig:	Kan Tan IV	Date:	10 Oct 2009
Depth TVDBRT:	935.0m	Progress:	86.0m	Report Start:	0000
Depth TVDSS:	909.0m	RTE agl:		Report End:	2400
Hole Size:	17.500in	GLE amsl:	0 (m)	Days On Location:	9.13
Hole Size Carbide:		Last Csg Size:	30.000in	Days since Spud:	4.67
Water Depth (MSL)	69.0m	Last Csg Shoe:	153.0m		
RT-ASL(MSL)	26.0m	F.I.T. / L.O.T.:	/		

#### Operations Summary

24hr Summary:	Completed drilling 445 m (17-1/2") hole section. Circulated hole clean. Pulled out of hole to 762 mm (30") shoe. Ran in hole. Washed and reamed down from 582 mMDRT to TD. Circulated hole clean. POOH. Racked back LWD tools.
Forward Plan:	Complete POOH, rig up an drun 340 mm (13-3/8") casing.

#### General Comments

00:00 TO 24:00 Hrs ON 10 Oct 2009

<b>Operational Comments</b>	Geoservices: 2 Data engineers, 2 mudloggers, 1 technician on board. Technician monitoring RT data transmissions. Sperry: 2 MWD engineers on board. 445 mm (17-1/2") tools: Back up checked OK.
<b>Operational Comments</b>	MWD tool distances from bit: GR (PCG) 5.62 m Directional (PCD) 7.76 m

#### WBM Data

Mud Type:	PAD mud	Flowline Temp:	CI:	Low Gravity Solids:	Viscosity	58sec/qt
Sample From:	4	MWD Circ Temp:	Hard/Ca:	High Gravity Solids:	PV	11cp
Time:	1700	Glycol CP Temp:	MBT:	Solids (corrected):	YP	18lb/100ft <sup>2</sup>
Weight:	9.00ppg	Glycol:	PM:	H2O:	Gels 10s	6
ECD TD:		Nitrates:	PF:	Oil:	Gels 10m	8
ECD Shoe:		Sulphites:	MF:	Sand:	Fann 003	6
ECD Cuttings:		API FL:	pH:	Barite:	Fann 006	8
KCl Equiv:		API Cake:	PHPA Excess:		Fann 100	18
					Fann 200	24
					Fann 300	29
					Fann 600	40

#### Shakers, Volumes and Losses Data

Engineer : Jay Wan / Kosta Georgiou

Available	4176.0bbl	Losses	0.0bbl	Equip.	Descr.	Mesh Size	Hours
Active	2059.5bbl	Downhole					
Mixing		Surf+ Equip	0.0bbl				
Hole	896.5bbl	Dumped					
Slug		De-Gasser					
Reserve	1110.0bbl	De-Sander					
Kill	110.0bbl	De-Silter					
		Centrifuge					

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	0.00	GR increase

Survey								
MDBRT (m)	Incl. (deg)	Corr. Az (deg)	TVDBRT (m)	'V' Sect (deg)	Dogleg (deg/30m)	N/S (m)	E/W (m)	Tool Type
812.12	0.7		812.09	6.3	0.0	6.3	0.0	MWD
868.19	0.3		868.16	6.8	0.7	6.8	0.0	MWD
896.77	1.0		896.74	7.2	2.4	7.2	0.0	MWD
925.97	0.7		925.93	7.6	1.0	7.6	0.0	MWD

#### 06:00 Hrs Update

Time:	06:00 Hrs on 11 Oct 2009
Depth:	935 mMDRT/935 mTVDRRT
Progress Since Midnight (m):	0
Status @ 0600hrs:	Running 13 3/8" casing
Formation:	Torquay Group
Lithology:	No drilling
ROP:	No drilling
Gas:	No drilling

#### Wellsite Geologist(s)

(Days) - Dennis Archer      (Nights) - Brenton Richards