

Trefoil-2

Date : 07 Nov 2009

Geology Report Number : 25

(associated DDR # 38)

Well Details

| | | | | | |
|--------------------|---------|------------------|------------|-------------------|-------------|
| Depth MDBRT: | 2523.0m | Rig: | Kan Tan IV | Date: | 07 Nov 2009 |
| Depth TVDBRT: | 2523.0m | Progress: | 3.0m | Report Start: | 0000 |
| Depth TVDSS: | 2497.0m | RTE agl: | | Report End: | 2400 |
| Hole Size: | 8.500in | GLE amsl: | 0 (m) | Days On Location: | 37.38 |
| Hole Size Carbide: | | Last Csg Size: | 9.625in | Days since Spud: | 32.67 |
| 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: | Ran in Hole with slick 216 mm (8-1/2") drilling assembly. Washed down from 2402 mMDRT. Drilled out shoe track and 3 m new hole to 2523 mMDRT. Conducted Formation Integrity Test (FIT). Pulled out of hole. Commenced making up LWD BHA. |
| Forward Plan: | RIH, drill ahead in 216mm(8-1/2") hole section. |

General Comments

00:00 TO 24:00 Hrs ON 07 Nov 2009

| | |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operational Comments | Geoservices: 2 Data engineers, 2 mudloggers, 2 sample catchers on board. Gas equipment calibrated 5 Nov 09. Sperry: 3 MWD engineers on board. Back up tool string ready to go. |
| Operational Comments | FEWD sensor distances from bit: Vibration 0.00 m Gamma (DGR) 2.81 m Resistivity (EWR-P4) 5.16 m Directional (PCD) 10.02 m Density (ALD) 14.82 m Porosity (CTN) 18.62 m Sonic (BAT) 23.37 m Caliper (ACAL) 31.20 m |

WBM Data

| | | | | | | | | | |
|---------------|-------------|-----------------|-------------|--------------|-----------|----------------------|------|-----------|-------------------------|
| Mud Type: | KCI POLYMER | Flowline Temp: | | Cl: | 42500mg/l | Low Gravity Solids: | | Viscosity | 66sec/qt |
| Sample From: | 2 | MWD Circ Temp: | | Hard/Ca: | 400mg/l | High Gravity Solids: | | PV | 11cp |
| Time: | 07:30 hrs | Glycol CP Temp: | | MBT: | 12 | Solids (corrected): | | YP | 25lb/100ft ² |
| Weight: | 9.40ppg | Glycol: | | PM: | 0.2 | H2O: | 93% | Gels 10s | 9 |
| ECD TD: | | Nitrates: | | PF: | 0.15 | Oil: | | Gels 10m | 15 |
| ECD Shoe: | | Sulphites: | | MF: | 1.6 | Sand: | .3 % | Fann 003 | 9 |
| ECD Cuttings: | | API FL: | 4.0cc/30min | pH: | 9 | Barite: | | Fann 006 | 10 |
| KCI Equiv: | 9% | API Cake: | 1/32nd" | PHPA Excess: | | | | Fann 100 | 26 |
| | | | | | | | | Fann 200 | 32 |
| | | | | | | | | Fann 300 | 36 |
| | | | | | | | | Fann 600 | 47 |

Shakers, Volumes and Losses Data

Engineer : Mike Lawrance / Fergus Spencer

| Available | 2306.9bbl | Losses | 0.0bbl | Equip. | Descr. | Mesh Size | Hours |
|-----------|-----------|-------------|--------|----------|----------------|------------------|-------|
| Active | 750.0bbl | Downhole | | Shaker 1 | Brandt VSM 300 | 20 top/50 bottom | 4 |
| Mixing | 0.0bbl | Surf+ Equip | 0.0bbl | Shaker 2 | Brandt VSM 300 | 20 top/50 bottom | 4 |
| Hole | 695.9bbl | Dumped | | Shaker 3 | Brandt VSM 300 | 20 top/50 bottom | 4 |
| Slug | | De-Gasser | | Shaker 4 | Brandt VSM 300 | 20 top/50 bottom | |
| Reserve | 861.0bbl | De-Sander | | | | | |
| Kill | | 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 | 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 | 0.00 | Res decrease |

Lithology Summary

| Interval MDBRT (m) From To | ROP (m/hr) | Lithology |
|-------------------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2520.00 - 2523.00 | Min:4 Avg:22 Max:75 | Interbedded SILTSTONE and SANDSTONE SILTSTONE (70%): brownish grey, brownish black, olive grey, soft to firm, subblocky, 5% medium grained dispersed quartz grains, trace carbonaceous specks. Contaminated with paint, rust, pipe scale. SANDSTONE (30%): bluish white, very light grey, 60% fine, 40% medium, clear quartz grains, fine fraction occurs as friable poorly calcareous cemented aggregates, subrounded to subangular, poorly sorted, subspherical to subelongate, 10% white clay matrix, poor inferred visual porosity, no hydrocarbon indications. |

Gas Data

| Depth Interval (m) | Gas Type | Total Gas (%) | C1 (%) | C2 (%) | C3 (%) | iC4 (%) | nC4 (%) | C5 (%) | CO2 (%) |
|--------------------|----------|---------------|--------|--------|--------|---------|---------|--------|---------|
| 2520.00 - | Trip | 0.066 | 0.0190 | 0.0012 | 0.0007 | 0.0005 | 0.0001 | 0.0006 | 0.000 |

06:00 Hrs Update

| | |
|------------------------------|----------------------------|
| Time: | 06:00 Hrs on 08 Nov 2009 |
| Depth: | 2523 mMDRT/2523 mTVDRT |
| Progress Since Midnight (m): | 0 |
| Status @ 0600hrs: | RIH 8 1/2 BHA on 5" DP. |
| Formation: | Eastern View Coal Measures |
| Lithology: | No drilling |
| ROP: | No drilling |
| Gas: | No drilling |

Wellsite Geologist(s)

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