# DAILY GEOLOGICAL REPORT

| | | | |
|---|---|---|---|
| **Date:** | 17 April 2008 | **Rig:** | West Triton |
| **Report Number:** | 11 | **Bit Diameter:** | 216 mm |
| **Report Period:** | 06:00 - 06:00 Hours | **Last Casing:** | 340 mm @ 896.3 mMDRT |
| **Spud Date:** | 07-Apr-2008 19:30 Hours | **FIT:** | 1.61 sg EMW @ 906.0 mMDRT |
| **Days From Spud:** | 9.4 | **Mud Weight:** | 1.18 sg |
| **Depth @ 0600 Hrs:** | 2940.0 mMDRT<br>-2902.9 mTVDAHD | **ECD:** | 1.33 sg |
| | | **Mud Type:** | KCl Polymer |
| **Lag Depth:** | 2940.0 mMDRT | **Mud Chlorides:** | 66000.00 mg/L |
| **Last Depth:** | 2890.0 mMDRT | **Dxc** | 1.8 |
| **Progress:** | 50.0 m | **Last Survey:** | 2899.11 mMDRT |
| **Water Depth:** | 54.1 m | **Deviation:** | Inc. 1.27° |
| **RT:** | 37.0 m | | Az. 305.20° |

## OPERATIONS SUMMARY

**24 HOUR SUMMARY:** Drilled 216 mm hole section to 2940.0 mMDRT. Pulled out of hole to change the bit.

**NEXT 24 HOURS:** Change bit and read LWD tools. Run in hole and drill ahead to well TD.

**CURRENT OPERATION**
**06:00 HRS (17-Apr-2008)**: Downloading LWD.

## GEOLOGICAL SUMMARY

**LITHOLOGY**

**INTERVAL:** 2870.0 to 2940.0 mMDRT (-2832.9 to -2902.9 mTVDAHD)
**ROP (Range):** 1.0 to 69.0 m/h
**Av. ROP:** 32.0 m/h

**SANDSTONE interbedded with CLAYSTONE and SILTSTONE with traces of COAL.**
SANDSTONE (30 to 89%): very light grey, olive grey in upper part of interval becoming cleaner with depth, transparent, translucent, fine to medium, quartz, well rounded to sub round, well sorted, coarse to very coarse angular friable to very hard aggregates, trace white argillaceous matrix in part, olive grey argillaceous matrix in upper section, strong siliceous cement, pyrite cement in part, trace rose colored quartz, abundant re-crystallized fractured grains, trace chert at base of interval, no to poor visible porosity, no fluorescence.
CLAYSTONE 30% : olive grey, medium dark grey, trace pale green, carbonaceous in part, trace coaly laminae, locally silty, locally pyritic, firm to very hard, sub fissile to fissile.
SILTSTONE 5% : light olive grey to olive grey, brownish grey, becomes dusky yellowish brown with depth, carbonaceous material with coaly laminae in part, trace to locally abundant pyrite, common to abundant very fine to fine round quartz, predominantly hard to trace very hard, trace soft, sub blocky, sub fissile.
COAL (Nil to 1%): black, dull in part, sub anthracitic, trace pyrite, very hard, fissile.

**HYDROCARBON FLUORESCENCE**
No Shows

**GAS SUMMARY**

| Background Gas | | | | | | | |
|---|---|---|---|---|---|---|---|
| **INTERVAL (mMDRT)** | **Total Gas (%)** | **C1 (ppm)** | **C2 (ppm)** | **C3 (ppm)** | **iC4 (ppm)** | **nC4 (ppm)** | **C5 (ppm)** |
| 2870.0 - 2940.0 | 0.27 | 2457 | 55 | 36 | 5 | 10 | 6 |

**SAMPLE QUALITY**
Good quality
5 meters samples

**MUDLOGGING EQUIPMENT / PERSONNEL**
All working properly

**MWD**
Schlumberger LWD Run 1

Sensor Distances

| | | | |
|---|---|---|---|
| GR | = 10.22 m | RES SHALLOW BUTTON | = 11.05 m |
| RES BIT | = 4.55 m | RES MEDIUM BUTTON | = 10.93 m |
| RES RING | = 10.58 m | RES DEEP BUTTON | = 10.75 m |

**WIRELINE**
All tools tested. Crew standing by.

**REMARKS**
Drilled 216 mm hole section to 2940.0 mMDRT. Pulled out of hole to change the bit.

**WELLSITE GEOLOGISTS**
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