

## DAILY GEOLOGICAL REPORT

<b>Date:</b>	19 March 2008	<b>Rig:</b>	West Triton
<b>Report Number:</b>	11	<b>Bit Diameter:</b>	216 mm (8 1/2")
<b>Report Period:</b>	06:00 - 06:00 Hours	<b>Last Casing:</b>	244 mm casing @ 902.1 mMDRT
<b>Spud Date:</b>	10-Mar-2008 13:00 Hours	<b>FIT:</b>	1.78 sg EMW @ 902.0 mMDRT
<b>Days From Spud:</b>	8.7	<b>Mud Weight:</b>	1.17 sg
<b>Depth @ 0600 Hrs:</b>	2116.0 mMDRT	<b>ECD:</b>	
	-2077.8 mTVDAHD	<b>Mud Type:</b>	KCL Polymer
<b>Lag Depth:</b>	2110.0 mMDRT	<b>Mud Chlorides:</b>	55000.00 mg/L
<b>Last Depth:</b>	1998.0 mMDRT		
<b>Progress:</b>	118.0 m		
<b>Water Depth:</b>	90.0 m	<b>Last Survey:</b>	1983.37 mMDRT
<b>RT:</b>	38.0 m	<b>Deviation:</b>	Inc. 0.73° Az. 333.68°

### OPERATIONS SUMMARY

**24 HOUR SUMMARY:** POOH for bit change. R/U backup LWD tools and RIH. Drilled 216 mm section from 1998.0 to 2116.0 mMDRT. POOH for bit change.

**NEXT 24 HOURS:** POOH to surface. Change out bit. RIH to drill ahead 216 mm section.

**CURRENT OPERATION @ 06:00 HRS (19-Mar-2008):** Pulling out of hole to change bit. Current depth 2003.0 mMDRT.

### GEOLOGICAL SUMMARY

#### LITHOLOGY

**INTERVAL:** 1998.0 to 2030.0 mMDRT (-1959.8 to -1991.8 mTVDAHD)  
**ROP (Range):** 4.0 to 70.0 m/h  
**Av. ROP:** 25.0 m/h

**Interbedded MARL and CALCAREOUS SILTSTONE with minor CALCARENITE**

MARL (70 to 80%): pale to medium grey, dark grey in part, medium brown grey, abundant calcareous material, trace micro-fossils, commonly argillaceous, common nodular pyrite, moderately hard to hard, dispersive, sub-blocky to blocky.

CALCAREOUS SILTSTONE (10 to 30%): pale to medium grey, dark grey in part, medium brown grey, abundant calcareous material, trace micro-fossils, commonly argillaceous and grading to calcareous claystone, common nodular pyrite, moderately hard to hard, very hard where dark grey, sub-blocky.

CALCARENITE (10 to 20%): pale to medium grey, light bluish grey, off white to translucent in part, trace orange brown, abundantly argillaceous and grading to calcareous siltstone in part, common to abundant fine to medium angular to sub-angular calcite fragments, common to abundant nodular and disseminated pyrite, trace siderite, firm to hard, sub-blocky.

**INTERVAL:** 2030.0 to 2116.0 mMDRT (-1991.8 to -2077.8 mTVDAHD)  
**ROP (Range):** 6.0 to 43.0 m/h  
**Av. ROP:** 18.0 m/h

**Interbedded CALCAREOUS CLAYSTONE and SILTSTONE**

CALCAREOUS CLAYSTONE (35 to 90%): pale to medium grey, light bluish grey, medium brown grey in part, occasional calcareous fragments, trace micro-fossils, commonly argillaceous, minor nodular pyrite, moderately hard to hard, dispersive, sub-blocky.

CALCAREOUS SILTSTONE (10 to 65%): pale to medium grey, dark grey in part, medium brown grey, common calcareous fragments, trace micro-fossils, commonly argillaceous and grading to calcareous claystone, common nodular pyrite, moderately hard to hard, very hard where dark grey, sub-blocky.

**HYDROCARBON FLUORESCENCE**

No Shows

**GAS SUMMARY**

Background Gas							
INTERVAL (mMDRT)	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
1998.0 - 2030.0	0.06	599	2	1	0	0	0
2030.0 - 2110.0	0.07	642	0	0	0	0	0

**CALCIMETRY**

Interval (mMDRT)	Calcite Range	Dolomite Range
1980.0 - 2110.0	18 - 56 %	1 - 10 %

**MWD**

MWD SENSOR OFFSET FROM BIT

GR : 12.33m  
 RES : 12.86m  
 SONIC : 26.53m  
 NEUTRON : 34.53m  
 DENSITY : 33.42m  
 SURVEY : 18.74m

**REMARKS**

POOH from 902.0 mMDRT to surface. Laid out GVR and ADN tools, downloaded memory data. Bit 3 found to be balled up but otherwise in good condition. Made up bit 4RR1, picked up and made up backup GVR-ADN tools with BHA. The assembly was run back in hole and continued drilling the 216mm hole from 1998.0 to 2116.0 mMDRT. Commenced POOH for a bit change due to low ROP.

**WELLSITE GEOLOGISTS**

Fred Fernandes / Adam Cruickshank