

## DAILY GEOLOGICAL REPORT

<b>Date:</b>	15 April 2008	<b>Rig:</b>	West Triton
<b>Report Number:</b>	9	<b>Bit Diameter:</b>	216 mm
<b>Report Period:</b>	06:00 - 06:00 Hours	<b>Last Casing:</b>	340 mm @ 896.3 mMDRT
<b>Spud Date:</b>	07-Apr-2008 19:30 Hours	<b>FIT:</b>	1.61 sg EMW @ 906.0 mMDRT
<b>Days From Spud:</b>	7.4	<b>Mud Weight:</b>	1.16 sg
<b>Depth @ 0600 Hrs:</b>	2100.0 mMDRT	<b>ECD:</b>	1.20 sg
	-2033.0 mTVDAHD	<b>Mud Type:</b>	KCl Polymer
<b>Lag Depth:</b>	2050.0 mMDRT	<b>Mud Chlorides:</b>	66000 mg/L
<b>Last Depth:</b>	1070.0 mMDRT		
<b>Progress:</b>	1030.0 m	<b>Dxc</b>	0.7
<b>Water Depth:</b>	54.1 m	<b>Last Survey:</b>	1984.91 mMDRT
<b>RT:</b>	37.0 m	<b>Deviation:</b>	Inc. 0.56° Az. 332.76°

### OPERATIONS SUMMARY

**24 HOUR SUMMARY:** Drilled 216 mm hole to 2100.0 mMDRT.

**NEXT 24 HOURS:** Drilled 216 mm hole section.

**CURRENT OPERATION**

**06:00 HRS (15-Apr-2008):** Drilling 216 mm hole.

### GEOLOGICAL SUMMARY

**LITHOLOGY**

**INTERVAL:** 1030.0 to 1424.0 mMDRT (-993.0 to -1386.9 mTVDAHD)  
**ROP (Range):** 42.0 to 135.0 m/h  
**Av. ROP:** 104.0 m/h

**CALCAREOUS SILTSTONE and CALCAREOUS CLAYSTONE**

**CALCAREOUS SILTSTONE (70 to 98%):** light olive grey to olive grey, medium light grey to medium grey, trace greenish grey, argillaceous, common very fine to fine, trace coarse quartz, trace foraminifera (sponge spicules, Praeorbulina), trace glauconite, locally grading towards SILTY SANDSTONE, firm to moderately hard, sub blocky to sub fissile in part.

**CALCAREOUS CLAYSTONE (2 to 30%):** medium light grey to medium dark grey, speckled with white in part, trace greenish grey, trace moderate yellow brown, silty, trace very fine glauconite in part, trace very fine sand, generally soft and amorphous, trace firm, sub blocky to blocky.

**INTERVAL:** 1424.0 to 1820.0 mMDRT (-1386.9 to -1782.9 mTVDAHD)  
**ROP (Range):** 18.0 to 130.0 m/h  
**Av. ROP:** 72.0 m/h

**CALCAREOUS SILTSTONE, CALCAREOUS CLAYSTONE, MARL and CALCARENITE.**

**CALCAREOUS CLAYSTONE (5 to 90%):** Greenish grey, medium light to medium dark grey, light olive grey to olive grey, white in part, trace moderate yellow brown, homogenous, silty in part, trace glauconite specks and grains, trace tubular calcite veins, trace to rare transparent, subangular fine to very coarse quartz in part, soft to locally moderately hard, amorphous in part, sub blocky to sub fissile.

**CALCAREOUS SILTSTONE (9 to 50%):** medium grey, olive grey to light olive grey, argillaceous in part, occasionally sandy with very fine to fine sub angular to sub rounded and rare very coarse to granular <2 mm sub rounded quartz, trace foraminifera, trace glauconite, trace pyrite in part, local tubular calcite veins embedded, trace carbonaceous in part, firm to hard, sub blocky to sub fissile, brittle in part; rare SHALE, brownish black to black trace fissile and brittle.

**MARL (Nil to 45%):** white, yellowish grey, trace to locally abundant carbonaceous streaks, rounded glauconite pellets, local traces of very fine sub rounded sand, trace grades to CALCARENITE, soft to moderately hard, sub blocky.

CALCARENITE (Nil to 45%): white to yellowish grey in part, common to abundant black specks, trace very fine medium glauconite pellets, trace very fine sand, moderately hard to hard, sub blocky to blocky.

**INTERVAL:** 1820.0 to 1880.0 mMDRT (-1782.9 to -1842.9 mTVDAHD)  
**ROP (Range):** 17.0 to 103.0 m/h  
**Av. ROP:** 53.0 m/h

**CALCAREOUS CLAYSTONE, SILTSTONE, SILTY SANDSTONE and minor GLAUCONITIC SANDSTONE at the base of section.**

CALCAREOUS CLAYSTONE (10 to 40%): medium light grey to medium grey, light olive grey to greenish grey, light brownish grey, rare disseminated fine glauconite and quartz, trace disseminated fine pyrite, soft to hard, sub blocky to sub fissile, trace fissile.

SILTSTONE (40 to 90%): olive grey to brownish grey, light olive grey, light brownish grey in part, common to abundant disseminated fine to medium glauconite, common to abundant very fine to fine quartz, grades to SILTY SANDSTONE in part, argillaceous, calcareous, soft to firm, amorphous to sub blocky.

SILTY SANDSTONE (Nil to 50%): olive grey, transparent, translucent, opaque, trace yellow orange, quartz, predominantly very fine to fine grain, Nil to 30% coarse to very coarse grain at base of section, locally very well sorted, sub angular to round, spherical to sub elongate, calcareous, silty matrix - often washed out, predominantly loose, trace fractured very coarse grains, common to abundant fine to medium glauconite pellets, occasional lithics, rare to common nodular pyrite, trace foraminefera, poor visible porosity, no show.

GLAUCONITIC SANDSTONE: (Nil to 50%) olive grey, transparent, translucent, opaque, yellow orange, quartz, very fine to fine grain, very well sorted, sub angular to round, spherical to sub elongate, calcareous silty matrix, predominantly loose, rare firm aggregates, abundant fine to medium glauconite pellets, occasional lithics, trace pyrite, poor visible porosity, no show.

**INTERVAL:** 1880.0 to 2050.0 mMDRT (-1842.9 to -2013 mTVDAHD)  
**ROP (Range):** 30.0 to 149.0 m/h  
**Av. ROP:** 112.0 m/h

**SANDSTONE interbedded with SILTY SANDSTONE and CLAYSTONE and COAL.**

SANDSTONE (40 to 75%): light grey, translucent to milky coarse to very coarse quartz, common > 2mm gravel size quartz grains, translucent, transparent, fine to medium quartz, sub angular to sub round, spherical to sub elongate, very poorly sorted, predominantly loose, rare aggregates with siliceous matrix, occasional quartz overgrowths, rare to common intergranular and loose pyrite, occasional fractured grains, common to trace very fine to fine glauconite, poor to fair inferred porosity, no show.

SILTY SANDSTONE (5 to 30%): olive grey, brownish grey, transparent, translucent, yellow orange, quartz, very fine to fine grain, well sorted, sub angular to round, spherical to sub elongate, calcareous, silty matrix, grades to SILTSTONE in part, firm to moderately hard, moderately calcareous, common fine glauconite pellets, rare nodular pyrite, poor visible porosity, no show

CLAYSTONE (5 to 30%): medium light grey to dark grey, moderately calcareous to calcareous, trace disseminated pyrite, carbonaceous specks in part, silty in part, firm to hard, sub blocky, sub fissile to fissile.

COAL (Nil to 30%): black, sub vitreous to vitreous, anthracitic, sub conchoidal fractured to conchoidal fracture, sub blocky to blocky, rare splintery.

**HYDROCARBON FLUORESCENCE**

No Shows

**GAS SUMMARY**

Background Gas							
INTERVAL (m MDRT)	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
1030.0 - 1424.0	0.03	0	0	0	0	0	0
1424.0 - 1820.0	0.02	0	0	0	0	0	0
1820.0 - 1880.0	0.06	0	0	0	0	0	0
1880.0 - 2050.0	0.09	0	0	0	0	0	0

<b>Gas Peak</b>							
<b>INTERVAL (m MDRT)</b>	<b>Total Gas (%)</b>	<b>C1 (ppm)</b>	<b>C2 (ppm)</b>	<b>C3 (ppm)</b>	<b>iC4 (ppm)</b>	<b>nC4 (ppm)</b>	<b>C5 (ppm)</b>
1931.0 - 1931.0	0.24	0.17	0.02	0.01	0	0	0
1961.0 - 1961.0	0.19	0.12	0.01	0	0	0	0

**SAMPLE QUALITY**

Good quality  
10-20 meters depending on ROP

**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 crew onboard today. VSP guns and tools have been tested.

**REMARKS**

Drilled 216 mm hole to 06:00 hrs depth of 2100.0 mMDRT. A carbide test at 1677.0 mMDRT indicated an average hole size of 222 mm.

**WELLSITE GEOLOGISTS**

Cameron Forster / Melodie Ngatai