

## DAILY GEOLOGICAL REPORT

<b>Date:</b>	16 April 2008	<b>Rig:</b>	West Triton
<b>Report Number:</b>	10	<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>	8.4	<b>Mud Weight:</b>	1.19 sg
<b>Depth @ 0600 Hrs:</b>	2890.0 mMDRT	<b>ECD:</b>	1.33 sg
	-2852.9 mTVDAHD	<b>Mud Type:</b>	KCl Polymer
<b>Lag Depth:</b>	2870.0 mMDRT	<b>Mud Chlorides:</b>	66000.00 mg/L
<b>Last Depth:</b>	2100.0 mMDRT		
<b>Progress:</b>	790.0 m	<b>Dxc</b>	101
<b>Water Depth:</b>	54.1 m	<b>Last Survey:</b>	2722.56 mMDRT
<b>RT:</b>	37.0 m	<b>Deviation:</b>	Inc. 0.33° Az. 218.40°

### OPERATIONS SUMMARY

**24 HOUR SUMMARY:** Drilled 216 mm hole to 2890.0 mMDRT.

**NEXT 24 HOURS:** Drill to well TD. Pull out of hole and commence wireline operations.

**CURRENT OPERATION**

**06:00 HRS (16-Apr-2008):** Drilling 216 mm hole.

### GEOLOGICAL SUMMARY

**LITHOLOGY**

**INTERVAL:** 2050.0 to 2570.0 mMDRT (-2012.9 to -2532.9 mTVDAHD)  
**ROP (Range):** 14.0 to 153.0 m/h  
**Av. ROP:** 82.0 m/h

**Interbedded SANDSTONE, CLAYSTONE and SILTSTONE with minor COAL and SILTY SANDSTONE.**

**SANDSTONE (5 to 83%):** very light grey, white to yellowish grey in part, translucent, transparent, milky quartz, commonly bimodal grain size distribution, very fine to medium and coarse to granular, quartz, angular to round, poorly to locally moderately well sorted, predominantly loose, rare friable aggregates, argillaceous matrix, weak to trace hard siliceous cement, trace pyritic cement, non-calcareous, occasional quartz overgrowths, trace intergranular and loose pyrite, occasional fractured coarse grains, poor to fair inferred porosity, no show.

**CLAYSTONE (Nil to 80%):** very light grey to white, dark grey, olive grey, light brownish grey, olive black - carbonaceous, carbonaceous specks in part, silty in part, trace very fine disseminated pyrite in part, local trace to abundant very fine quartz, grading to ARGILLACEOUS SANDSTONE, local quartz silt, non to weakly calcareous, locally moderately calcareous, firm to hard, trace very hard, locally soft and amorphous, sub blocky, sub fissile to fissile.

**SILTSTONE (Nil to 60%):** brownish grey to brownish black, olive grey, light brownish grey, very light grey, becomes predominantly pale yellowish brown at base of section, common very fine quartz in part, common carbonaceous specks and laminae in part, moderately argillaceous in part, non calcareous, firm to moderately hard, sub blocky to sub fissile.

**COAL (Nil to 40%):** black, sub vitreous to vitreous, sub anthracitic, sub conchoidal fracture, trace to locally abundant microcrystalline pyrite, sub blocky.

**SILTY SANDSTONE (Nil to 10%):** brownish grey to brownish black, olive grey, transparent, very fine to fine grain quartz, sub angular to sub round, very well sorted, firm to slightly hard, silty matrix, argillaceous laminae in part, common carbonaceous specks and laminae, nil visible porosity, no show.

**INTERVAL:** 2570.0 to 2870.0 mMDRT (-2532.9 to -2832.9 mTVDAHD)  
**ROP (Range):** 6.0 to 110.0 m/h  
**Av. ROP:** 45.0 m/h

**Interbedded SANDSTONE, CLAYSTONE and SILTSTONE with minor COAL at top of interval.**

**SANDSTONE (2 to 60%):** white to pale yellowish orange, grading to olive grey with depth, transparent to translucent, quartz, predominantly very fine to medium, well rounded to sub angular, local trace to abundant coarse to very coarse re-crystallized angular quartz fragments, poorly to moderate well sorted, commonly loose, friable aggregates, white - yellowish grey argillaceous matrix in part, olive grey argillaceous-silty matrix in part with common carbonaceous specks - grades to SILTY SANDSTONE, weak to strong siliceous cement in part, minor pyrite cement, rare intergranular and loose pyrite, poor to fair visible porosity, local trace FLUORESCENCE: dull yellow natural mineral fluorescence, no cut.

**CLAYSTONE (20 to 65%):** medium light grey to greyish black, olive grey, yellowish grey to white in part, carbonaceous in part, trace coaly laminae, trace disseminated pyrite, non calcareous, trace silt in part, local very fine sand grading to SILTSTONE, soft to hard, sub blocky to sub fissile.

**SILTSTONE (5 to 60%)** Dark to pale yellowish brown, brownish grey, medium grey in part, olive grey, medium dark grey, common black carbonaceous specks and laminae, local trace to abundant very fine sand, grading to very fine SANDSTONE in part, trace microcrystalline pyrite, trace coaly laminae, firm to hard, sub blocky to sub fissile in part.

**COAL (Nil to 10%)** black, sub vitreous to vitreous, sub anthracitic, sub conchoidal fracture, trace pyrite, sub blocky.

**HYDROCARBON FLUORESCENCE**

2740.0 to 2750.0 mMDRT (1%) moderately bright yellow natural FLUORESCENCE, slow, moderately dull, green white crush cut.

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**GAS SUMMARY**

Background Gas							
INTERVAL (m MDRT)	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
2050.0 - 2570.0	0.05	393	25	9	1	1	0
2570.0 - 2870.0	0.43	3856	119	56	7	11	5

Gas Peak							
INTERVAL (m MDRT)	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
2651.0	2.55	21166	595	216	24	26	7
2768.5	2.87	15949	448	164	22	24	9
2803.5	1.77	14937	491	273	34	53	19

**SAMPLE QUALITY**

Good quality  
 10 meters Samples  
 Isotubes collected at:  
 2583.0 mMDRT = 0.42%  
 2631.0 mMDRT = 2.55%  
 2803.5 mMDRT = 2.00%

**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

**WIRELINER**

All primary tools tested. Contingency tools to test today.

**REMARKS**

Drilled 216 mm hole to 2890.0 mMDRT.

**WELLSITE GEOLOGISTS**

Cameron Forster / Melodie Ngatai