

DAILY GEOLOGICAL REPORT

Date:	22 March 2008	Rig:	West Triton
Report Number:	14	Bit Diameter:	216 mm (8 1/2")
Report Period:	06:00 - 06:00 Hours	Last Casing:	244 mm casing @ 902.1 mMDRT
Spud Date:	10-Mar-2008 13:00 Hours	FIT:	1.78 sg EMW @ 902.0 mMDRT
Days From Spud:	11.7	Mud Weight:	1.19 sg
Depth @ 0600 Hrs:	3074.0 mMDRT	ECD:	
	-3035.7 mTVDAHD	Mud Type:	KCL Polymer
Lag Depth:	3074.0 mMDRT	Mud Chlorides:	46000.00 mg/L
Last Depth:	2700.0 mMDRT		
Progress:	374.0 m	Last Survey:	2701.00 mMDRT
Water Depth:	90.0 m	Deviation:	Inc. 0.49°
RT:	38.0 m		Az. 40.74°

OPERATIONS SUMMARY

24 HOUR SUMMARY: Ran in hole with Bit 6 and drilled 216 mm hole from 2700.0 to 3074.0 mMDRT.

NEXT 24 HOURS: Complete circulating hole clean, pull out of hole from 3074.0 mMDRT, reaming interval from 2735.0 to 2470.0 mMDRT for ADN data. Rig up to run wireline logs.

CURRENT OPERATION @ 06:00 HRS (22-Mar-2008): Circulating hole clean.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 2700.0 to 2724.0 mMDRT (-2661.8 to -2685.8 mTVDAHD)
ROP (Range): 3.0 to 198.0 m/h
Av. ROP: 80.0 m/h

Interbedded SILTSTONE and SANDSTONE

SILTSTONE (35 to 60%): light grey to light brown grey, light blue grey to light olive grey, argillaceous, locally grading to a very fine SANDSTONE, trace carbonaceous specks, trace disseminated pyrite, moderately hard, sub-blocky to blocky.

SANDSTONE (40 to 70%): light brown to light green grey, fine to very coarse grained, poorly sorted, sub-angular to sub-rounded, weak to moderate siliceous cement mainly as quartz overgrowths, minor pyritic cement, common light brown argillaceous to silty matrix, trace glauconite matrix, trace to common pyrite, common to abundant glauconite, minor lithics, moderately hard, very poor to poor visible and inferred porosity, no hydrocarbon fluorescence.

INTERVAL: 2724.0 to 2741.0 mMDRT (-2685.8 to -2702.8 mTVDAHD)
ROP (Range): 13.0 to 40.0 m/h
Av. ROP: 28.0 m/h

Interbedded SANDSTONE and SILTSTONE

SANDSTONE (75 to 90%): clear to translucent, light green, light greenish grey, frosted in part, fine to very coarse, dominantly medium, poorly sorted, angular to sub-rounded, rounded in part, minor weak siliceous cement, trace pale grey argillaceous matrix, common to abundant glauconite specks, common lithics, minor nodular pyrite, loose, fair to good inferred porosity, no hydrocarbon fluorescence.

SILTSTONE (10 to 25%): dominantly light grey to light olive grey, medium to dark brown in part, siliceous, commonly arenaceous and common carbonaceous material where dark brown, common micromicaceous, hard to very hard, sub-blocky to fissile.

INTERVAL: 2741.0 to 2791.0 mMDRT (-2702.8 to -2752.8 mTVDAHD)
ROP (Range): 21.0 to 57.0 m/h
Av. ROP: 42.0 m/h

SANDSTONE with thin SILTSTONE interbedded

SANDSTONE (90 to 95%): translucent, frosted, clear, pale grey, very fine to coarse, dominantly medium to coarse grains, poorly sorted, angular to sub-rounded, minor weak calcareous and siliceous cement, trace quartz overgrowths, trace pale grey argillaceous matrix, trace carbonaceous specks, common glauconite specks, occasional lithics, common nodular pyrite, generally loose clean grains, fair to good inferred porosity, no hydrocarbon fluorescence.

SILTSTONE (5 to 10%): dominantly light grey to light olive grey, medium to dark brown in part, pale brown in part, siliceous, commonly arenaceous where medium to dark brown and locally grading to very fine SANDSTONE, common carbonaceous material and fine glauconite specks where dark brown, commonly micromicaceous, minor nodular and disseminated pyrite, hard to very hard, sub-blocky to fissile.

INTERVAL: 2791.0 to 2828.0 mMDRT (-2752.8 to -2789.8 mTVDAHD)
ROP (Range): 25.0 to 60.0 m/h
Av. ROP: 46.0 m/h

SILTSTONE with minor SANDSTONE interbedded

SILTSTONE (5 to 15%): dominantly light grey to light olive grey, minor medium to dark brown in part, siliceous, commonly micromicaceous, minor nodular pyrite, common off white lithics, minor calcareous material, commonly arenaceous where medium to dark brown and locally grading to very fine SANDSTONE, common carbonaceous material and fine glauconite specks where dark brown, hard to very hard, sub-blocky to sub-fissile.

SANDSTONE (85 to 95%): translucent, frosted, clear, pale grey, very fine to coarse, very poorly sorted, angular to sub-rounded, minor weak calcareous and siliceous cement, trace quartz overgrowths, trace pale grey to off white argillaceous matrix, trace carbonaceous specks, common glauconite specks, occasional lithics, common nodular pyrite, generally loose clean grains, fair to good inferred porosity, no hydrocarbon fluorescence.

INTERVAL: 2828.0 to 2925.0 mMDRT (-2789.8 to -2886.8 mTVDAHD)
ROP (Range): 22.0 to 79.0 m/h
Av. ROP: 56.0 m/h

SANDSTONE with minor SILTSTONE interbedded

SANDSTONE (65 to 90%): clear to translucent, off white to pale grey, frosted, very fine to coarse, occasionally very coarse, dominantly medium, poor to moderately sorted, sub-angular to sub-rounded, angular to well rounded very coarse where coarse, trace weak calcareous cement, minor moderate siliceous cement, minor quartz overgrowths, minor pale grey argillaceous matrix, common lithics and carbonaceous specks, occasional platy micas, trace nodular pyrite, generally loose clean quartz grains, fair to good inferred porosity, no hydrocarbon fluorescence.

SILTSTONE (10 to 35%): dominantly light grey to light olive grey, minor medium to dark brown in part, siliceous, commonly micromicaceous, minor nodular pyrite, common off white lithics, minor calcareous material, commonly arenaceous where medium to dark brown and locally grading to very fine SANDSTONE, common carbonaceous material and fine glauconite specks where dark brown, hard to very hard, sub-blocky to sub-fissile.

INTERVAL: 2925.0 to 2939.0 mMDRT (-2886.8 to -2900.8 mTVDAHD)
ROP (Range): 42.0 to 67.0 m/h
Av. ROP: 54.0 m/h

SANDSTONE with minor SILTSTONE interbedded

SANDSTONE (85 to 95%): pale grey, clear to translucent, very fine to coarse, dominantly fine to medium, moderately sorted, sub-angular to sub-rounded, angular where coarse, minor moderate siliceous cement, trace weak calcareous cement, trace pale grey argillaceous matrix, occasional lithics, minor carbonaceous material, trace glauconite specks, generally loose clean grains, fair inferred porosity, no hydrocarbon

fluorescence.

SILTSTONE (5 to 15%): light grey to light olive grey, light brown grey, light greenish grey, siliceous, commonly micromicaceous, common off white lithics, minor calcareous material, locally arenaceous grading to very fine SANDSTONE, minor carbonaceous material, rare nodular pyrite, hard to very hard, sub-blocky to sub-fissile.

INTERVAL: 2939.0 to 2973.0 mMDRT (-2900.8 to -2934.8 mTVDAHD)
ROP (Range): 33.0 to 75.0 m/h
Av. ROP: 49.0 m/h

SANDSTONE with SILTSTONE interbeds

SANDSTONE (90%): pale grey, clear to translucent, very fine to coarse, dominantly fine to medium, moderately sorted, sub-angular to sub-rounded, angular where coarse, minor moderate siliceous cement, trace weak calcareous cement, locally common pale grey to off white argillaceous matrix, occasional lithics, minor carbonaceous material, trace glauconite specks, generally loose clean grains, fair inferred porosity, no hydrocarbon fluorescence.

SILTSTONE (10%): light grey to light olive grey, light brown grey, light greenish grey, siliceous, commonly micromicaceous, common off white lithics, minor calcareous material, locally arenaceous grading to very fine SANDSTONE, minor carbonaceous material, rare nodular pyrite, hard to very hard, sub-blocky to sub-fissile.

INTERVAL: 2973.0 to 3013.0 mMDRT (-2934.8 to -2974.8 mTVDAHD)
ROP (Range): 10.0 to 64.0 m/h
Av. ROP: 35.0 m/h

SANDSTONE with minor SILTSTONE interbeds

SANDSTONE (85 to 95%): clear to translucent, frosted, pale grey, very fine to coarse, occasionally very coarse grains, sub-angular to sub-rounded, angular where coarse to very coarse grained, minor weak calcareous and siliceous cement, trace pale grey argillaceous matrix, occasional carbonaceous material, rare nodular pyrite, loose, fair to good inferred porosity, no hydrocarbon fluorescence.

SILTSTONE (5 to 15%): light grey to light olive grey, light brown to medium brown, light greenish grey, siliceous in part, commonly micromicaceous, common off white lithics, minor calcareous material, commonly arenaceous and locally grading to very fine SANDSTONE, common carbonaceous material, rare nodular pyrite, hard to very hard, sub-blocky to sub-fissile.

INTERVAL: 3013.0 to 3074.0 mMDRT (-2974.8 to -3035.7 mTVDAHD)
ROP (Range): 20.0 to 73.0 m/h
Av. ROP: 59.0 m/h

Interbedded SANDSTONE and SILTSTONE

SANDSTONE (80 to 95%): clear to translucent, pale grey to off white, very fine to coarse, minor very coarse frosted grains, poor sorting, sub-angular to sub-rounded, angular where coarse, common strong siliceous cement and quartz overgrowths, minor calcareous cement, trace pyritic cement, common light grey argillaceous matrix where fine grained and locally grading to arenaceous SILTSTONE, common nodular pyrite, occasional platy micas, occasional lithics and carbonaceous specks, commonly loose, common very hard aggregates, poor visible porosity, fair inferred porosity, trace to 5% hydrocarbon fluorescence.

SILTSTONE (5 to 20%): light grey to light olive grey, light brown to medium brown, dark brown in part, commonly arenaceous and grading to very fine SANDSTONE, commonly micromicaceous, common off white lithics, minor calcareous material, common carbonaceous material, rare nodular pyrite, hard to very hard, sub-blocky to sub-fissile.

HYDROCARBON FLUORESCENCE

3020.0 to 3035.0 mMDRT (Trace to 5%): pale yellow spotted residual fluorescence, no cut or ring residue. Associated with SANDSTONE (90%): clear to translucent, pale grey to off white, very fine to coarse, minor very coarse frosted grains, poor sorting, sub-angular to sub-rounded, angular where coarse, common strong siliceous cement and quartz overgrowths, minor pale grey to off white argillaceous matrix, occasional lithics and carbonaceous specks, common loose, common very hard aggregates, poor visible porosity, fair inferred porosity, fluorescence.

GAS SUMMARY

Background Gas							
INTERVAL (mMDRT)	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
2700.0 - 2724.0	0.03	261	0	0	0	0	0
2724.0 - 2741.0	0.01	105	0	0	0	0	0
2741.0 - 2791.0	0.01	96	0	0	0	0	0
2791.0 - 2828.0	0.02	127	0	0	0	0	0
2828.0 - 2925.0	0.02	109	0	0	0	0	0
2925.0 - 2939.0	0.02	124	0	0	0	0	0
2925.0 - 2939.0	0.02	124	0	0	0	0	0
2939.0 - 2973.0	0.02	107	0	0	0	0	0
2973.0 - 3013.0	0.02	106	0	0	0	0	0
3013.0 - 3074.0	0.02	115	0	0	0	0	0

- No drilled gas peaks recorded
- 0.5% Trip Gas recorded following bit trip.

MWD

LWD RUN #4:- No recorded data downloaded from GVR tool.

LWD RUN #5:-

SENSOR OFFSET FROM BIT

GR : 12.43m
 RES : 12.96m
 BAT SONIC : 26.66m
 NEUTRON : 34.69m
 DENSITY : 33.57m
 SURVEY : 18.87m
 RAB : 0.04m

REMARKS

Ran in hole with Bit 6 and back-up ADN to 2700.0 mMDRT. Drilled 216 mm section from 2700.0 to 3074.0 mMDRT. Total depth was reached at 04:00 hrs on 22-Mar-08 at 3074.0 mMDRT. The well was circulated clean and the bit pulled out of hole.

The well bore will be reamed from 2735.0 to 2470.0 mMDRT to acquire LWD ADN (neutron-density data) in memory mode.

WELLSITE GEOLOGISTS

Fred Fernandes / Adam Cruickshank