



DAILY GEOLOGICAL REPORT

DGR 09

**Date:** 24 November 2008  
**Report Period:** 06:00 – 06:00 hrs EST  
**Days From Spud:** 9  
**Current Hole Size:** 311mm (12.25")  
**Depth @ 06:00 Hrs EST:** 1412.0 m MDRT  
 1454.0 m TVD RT  
 -1419.9 m SS  
**24 Hr Progress:** 42m  
**06:00 – 06:00 EST**  
**Current Operation:** RUNNING IN HOLE TO DRILL AHEAD 12 ¼" HOLE FOLLOWING BIT TRIP  
**AFE Cost (Drill)\$ (C&S)\$ (P&A)\$** **Cost To Date:**  
**Licence / State:** T/39P Tas  
**Rig:** Seadrill: West Triton  
**RT - SEAFLOOR:** 112.15 m  
**WATER DEPTH:** 78.0 m MSL  
**RT:** 34.15 m MSL  
**PTD:** 2133.0 m MDRT  
**Spud Date:** 15 November 2008

Casing Data	Hole Size	Depth	Casing Size	Wt:	Type	Shoe Depth	LOT
1	914 mm (36")	218m	762mm (30")		X52	216m	
2	406mm (16")	810m	340mm(13.375")	68ppf	N80	804m	15.5ppg
	311mm(12.25")						

Mud Data	Type:	Wt:	Visc:	WL:	PH:	KCI:	Cl -:	PV/YP:	Rmf
16:30	KCI PHPA Polymer	9.5	65	4.0	8.9	38285	36k	22/36	-

Bit Data	No.	Make	Type	Size	Hours	Meters	Condition
Present	3	Reed	PDC	RSX616M -A16	30	644	8,8,RO,A,X,2,NR,PR
Last	2	Hughes	Rock	GXC1V	21	592	1,1,NO,A,E,I,NO,TD

Surveys	Type	MD (m)	Inclination	Azimuth (T)	TVD (m)	Offset (m)	Direction (T)
20	MWD	1433.56	0.69	132.78	1333.5	7.95	138.83

Fluid Loss	Interval MDRT	Total or Rate (bbl)	Remarks
	1412 – 1454m	Up to 35bbls/hr	Losses over shakers

OPERATIONS SUMMARY

Previous 24 hrs Operations Summary at 06:00 hrs EST

Drilled ahead 311mm (12.25") hole 1412-1452m. Continued drilling hard sandstone/pyrite/dolomite stringer at 1452 m – 1454m. adjusted drilling parameters to optimize ROP and reduce shock loads on MWD tools. POH. Broke out and inspected bit. Cutting structure and blades completely worn down to bit body. Layout MWD tools, download data, replace batteries, reinitialize. M/U LWD tools (Run 3) Picked up 12.25" BHA and RIH to 32m. Made up TDS and shallow tested MWD/LWD tools at 800 gpm, 1000 psi. Continued RIH to 320m at 0600 hrs.

Anticipated operations:

Continue RIH and drill ahead 311mm (12.25") hole from 1454m

### FORMATION TOPS

FORMATION	ACTUAL TOP		High / Low	High / Low	PROGNOSED TOP	
	(MDmRT)	(mSS)	Prognosis	Offset	(MDmRT)	(mSS)
Recent Carbonates					112.0	-78.0
Torquay Group					134.0	-100.0
Lower Torquay Group	1170	-1136	+32m		1134.0	-1104.0
Demons Bluff Fm	1254	-1220	-42m		1296.0	-1262.0
Upper Eastern View Group	1328	-1294	-41m		1367.0	-1333.0
Middle Eastern View Group					1634.0	-1600.0
Total Depth					2134.0	-2100.0

### HYDROCARBON SHOW SUMMARY

INTERVAL	LITHOLOGY & HYDROCARBON FLUORESCENCE	GAS
1412-1414m	Sandstone: 20% Dull yellow gold mineral fluorescence only	0.2u
1450-1454	Sandstone: 100% moderately bright pale yellow gold mineral fluorescence only, no cut, no stain.	0.3u

GAS	MD (m)	Peak	Background	Chromatograph
Trip Gas				
Connection Gas				

### GEOLOGICAL SUMMARY

INTERVAL ROP (m/hr)	LITHOLOGY	GAS (Peak / BG) Composition %
1412-1429  7-40m/hr 32 m/hr avg	<p><b>Interbedded Sandstone and Claystone with minor Coal</b></p> <p>SANDSTONE: (60-90%) Quartzose, clear to translucent, frosted, medium to predominantly coarse to very coarse, occasionally very fine to fine, subangular to angular, poor sorting, locally dolomitic &amp; calcareous cement, trace nodular pyrite, abundant coarse fractured milky quartz float, friable to predominantly disaggregated, fair to good porosity, 1412-1414m 20% Dull yellow gold mineral fluorescence only, no cut, no stain associated with very fine to fine grained aggregates.</p> <p>CLAYSTONE: (10-30%) Brown grey to olive black, very silty, common very fine quartz sand, slightly micromicaceous, soft, slightly dispersive, massive.</p> <p>COAL: (0-10%) Black, subbituminous, dull lustre, earthy texture, firm, blocky.</p>	0.4u BG 100
1429-1454  2-40 m/hr 35 m/hr avg	<p><b>Sandstone with interbedded Claystone</b></p> <p>SANDSTONE: (40-100%) Quartzose, clear to translucent, frosted, light olive grey in part, fine to medium, coarse in part, subangular to angular, poor to moderate sorting, locally strong dolocalcareous cement, trace light brown argillaceous matrix in part, trace muscovite, common coarse smoky quartz, rare nodular pyrite, friable to predominantly disaggregated, fair to good porosity, very poor to nil porosity in hard aggregates 1450-1454m 100% moderately bright pale yellow gold mineral fluorescence only, no cut, no stain.</p> <p>CLAYSTONE: (0-60%) Dark grey to dusky blue, slightly calcareous, locally silty, slightly micromicaceous, trace fossil fragments, trace calcite infill, smooth texture in part, plastic to firm, blocky to subfissile.</p>	0.3u BG 100



**REMARKS:**

DGR 09 links to DDR 42

Due to thread damage on the sub between the SADN and Sonic tool, an alternative sub was sort for Run 2. Only a shorter one was available. The replacement sub necessitated a shorter internal mechanism for real-time communications of SADN tool data. Whilst it may have been possible to build one from the original, no accurate assessment of the time required for such a fix was available so the call made to proceed without.

ARC Resistivity laid out and replaced with GeoVision (RAB) due to 7 hours of level 3 shock during Run #2.

**LWD Offsets from Bit:**

**Run#2**

Pressure: 3.4m  
Res: 4.1m  
GR: 4.1m  
Survey: 11.5m  
Sonic: 20.9m  
Neutron 28.8m  
Density: 26.8m  
Caliper: 26.7m

**Run# 3**

GR: 2.81  
RBit: 1.11  
RRing: 3.07  
Survey: 9.94  
Sonic: 18.83  
Neutron: 27.1  
Density: 25.2

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