

## **DAILY GEOLOGICAL REPORT**

<b>Date:</b>	14 September 2009	<b>Rig:</b>	Ocean Patriot
<b>Report Number:</b>	9	<b>Bit Diameter:</b>	12.25 in
<b>Report Period:</b>	06:00 - 06:00 Hours	<b>Last Casing:</b>	13 3/8" @ 805.8 m MDRT
<b>Spud Date:</b>	05-Sep-2009 21:00 Hours	<b>LOT:</b>	12.35 ppg EMW @ 805.8 m MDRT
<b>Days From Spud:</b>	8.4	<b>Mud Weight:</b>	10.10 ppg
<b>Depth @ 0600 Hrs:</b>	2100.0 m MDRT	<b>ECD:</b>	-
	2100.0 m TVDRT	<b>Mud Type:</b>	KCL/Klastop/Polymer
	-2078.5 m TVDSS	<b>Mud Chlorides:</b>	50000.00 mg/L
<b>Lag Depth:</b>	-	<b>Est. Pore Pressure:</b>	9.14 ppg
<b>Last Depth:</b>	2037.0 m MDRT	<b>DXC:</b>	1.1
<b>Progress:</b>	63.0 m	<b>Last Survey:</b>	2100.00 m MDRT
<b>Water Depth:</b>	74.0 m	<b>Deviation:</b>	Inc. 0.73°
<b>RT:</b>	21.5 m		Az. 87.08°

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## **OPERATIONS SUMMARY**

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**24 HOUR SUMMARY:** Drilled 12.25 in hole from 2037.0 to 2100.0 m MDRT. Spikey Beach 1 total depth called at 2100.0 m MDRT, TD reached at 09:00 hrs on 13-Sep-2009. Circulated and conditioned well at 2100.0 m MDRT. Pulled out of hole to 1600.0 m MDRT, reamed out of the hole from 1600.0 to 1540.0 m MDRT to acquire missing LWD data. Pumped heavy weighted mud pill and pulled out of the hole to commence plug and abandonment program. Laid out LWD tools and drilling assembly. Made up 2 7/8" cement stinger assembly, run in hole to set abandonment plugs.

**NEXT 24 HOURS:** Make up cementing assembly. RIH and complete Plug and Abandon Program setting Plug.1 (~1520 to 1370 m MDRT), Plug.2 (~850 to 700 m MDRT) and Plug.3 (~215 to 115 m MDRT). Prepare to pull BOPs.

**CURRENT OPERATION @ 06:00 HRS (14-Sep-2009):** Running in hole with cement stinger to set abandonment plugs.

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## **GEOLOGICAL SUMMARY**

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### **LITHOLOGY**

**INTERVAL:** 1983.0 to 2100.0 m MDRT (-1961.5 to -2078.5 m TVDSS)  
**ROP (Range):** 11.0 to 80.0 m/h  
**Av. ROP:** 37.0 m/h

#### **Interbedded SANDSTONE and SILTSTONE with minor COAL seams.**

**SANDSTONE:** clear to translucent, fine to medium grains, predominantly fine grains, moderately sort, sub-angular to rounded, moderate siliceous cement mainly as quartz overgrowths, minor moderate calcareous cement in part, common argillaceous to silty matrix, trace carbonaceous specks, trace lithics, minor moderately hard aggregates, predominantly loose, poor inferred porosity, no fluorescence.

**SILTSTONE:** medium brown to brown grey, medium dark brown, sandy, in part grading to a very fine Sandstone, carbonaceous, common carbonaceous micro laminations, common micro-micaceous, firm to in part moderately hard, sub-blocky to blocky.

**COAL:** black, sub-vitreous to vitreous, earthy in part, argillaceous and grading to carbonaceous Claystone in part, moderate hard, uneven to angular fracture.

**HYDROCARBON FLUORESCENCE**

No Shows

**GAS SUMMARY**

Background Gas							
INTERVAL (m MDRT)	Total Gas (Units)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
2085.0 - 2086.0	1	14	287	0	0	0	0

**MUDLOGGING EQUIPMENT / PERSONNEL**

Two sample catchers demobilized 14-Sept-2009.

**MWD**

Possible demobilization of LWD crew 14-Sept-2009.

**WIRELINE**

Wireline crew & tools demobilized from rig on 13-Sep-09.

**PROVISIONAL FORMATION TOPS**

Formation Name	Prognosed Depths			Actual Depths			Diff. TVT (m)	Picks Based On
	MD (m)	TVDRT (m)	TVDSS (m)	MD (m)	TVDRT (m)	TVDSS (m)		
Recent Carbonates	118.0	118.0	(96.5)	95.5	95.5	(74.0)	22.5 H	Offset Stratigraphy
Torquay Group (Reefal Carbonate)	138.0	138.0	(116.5)	131.0	131.0	(109.5)	7.0 H	ROP
Torquay Group (Marl)	718.0	718.0	(696.5)	715.0	715.0	(693.5)	3.0 H	ROP
Oligocene Sandstones (Lower Torqay Group)	1023.0	1023.0	(1001.5)				-	
Demons Bluff Formation	1398.0	1398.0	(1376.5)	1393.5	1393.5	(1372.0)	4.5 H	LWD Lithology
Upper Eastern View Group	1478.0	1478.0	(1456.5)	1480.5	1480.5	(1459.0)	2.5 L	LWD
Middle Eastern View Group	1868.0	1868.0	(1846.5)	1870.0	1870.0	(1848.5)	2.0 L	Lithology LWD

**SURVEY DATA**

MD (m)	Inc (°)	Azi (°)	TVD (m)	TVDSS (m)	V.Sec (m)	Dogleg (°/100ft)	E/W (m)	N/S (m)
1913.4	0.48	64.16	1913.3	1891.8	1.48	0.08	7.98	1.48
1941.9	0.47	69.15	1941.9	1920.4	1.57	0.04	8.19	1.57
2028.5	0.60	92.17	2028.4	2006.9	1.68	0.09	8.98	1.68
2039.0	0.73	89.98	2038.9	2017.4	1.68	0.38	9.10	1.68
2076.2	0.73	87.08	2076.1	2054.6	1.69	0.03	9.57	1.69

**WELLSITE GEOLOGISTS**

Peter Morris / Fred Fernandes