

**DAILY GEOLOGICAL REPORT**

Date:	26 July 2009	Rig:	Ocean Patriot
Report Number:	3	Bit Diameter:	311 mm
Report Period:	00:00 - 24:00 Hours	Last Casing:	340 mm @ 1056.6 m MDRT
Spud Date:	22-Jul-2009 03:00 Hours	Integrity Test:	1.56 sg EMW at 1064.7mMDRT
Days From Spud:	4.9	Mud Weight:	1.08 sg
Depth @ 2400 Hrs:	1064.7 m MDRT	ECD:	
	983.4 m TVDRT	Mud Type:	KCl-KlaStop-Polymer
	961.9 m TVDMSL	Mud Chlorides:	49,000 mg/L
Lag Depth:	1310 m MDRT	Est. Pore Pressure:	
Last Depth:	1061.7 m MDRT	DXC:	
Progress:	3 m	Last Survey:	1320.99 m MDRT
Water Depth:	154.2 m	Deviation:	Inc. 34.65°
RT:	21.5 m		Az. 148.19°

OPERATIONS SUMMARY

24 HOUR SUMMARY: Ran BOP on marine riser. Picked up and installed diverter. Made up and ran 311 mm (12 1/4") bit and BHA. Drilled out cement and shoe track. Displaced hole to KCl-polymer mud while slipping and cutting drill line. Drilled out shoe plus 3 metres of new hole to 1064.7 mMDRT. Performed an FIT to 1.56 sg EMW.

NEXT 24 HOURS: Drill ahead 311 mm (12 1/4") hole

CURRENT OPERATION @ 06:00 HRS (27-Jul-2009): Drilling 311 mm (12 1/4") hole at 1341 mMDRT.

GEOLOGICAL SUMMARY**LITHOLOGY**

INTERVAL: 1061.7 to 1250 mMDRT (-959.5 to -1109.6 m TVDMSL)
ROP (Range): 16 to 138 m/hr
Av. ROP: 74 m/hr

MARL (100%): dominantly light to medium olive grey, medium light to medium grey, soft to firm, sub-blocky, 30 to 40% calcareous clay, 5 to 10% very fine quartz grains, trace carbonaceous specks, trace black lithic fragments, occasional trace glauconite.

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)
1061.7 - 1250	0.06	496	3	1	0	0	0

SAMPLE QUALITY

Good sample quantity and quality.

**MUDLOGGING EQUIPMENT / PERSONNEL**

2 Data Engineers, 2 Mudloggers, 2 Sample Catchers on board

MWD/LWD

2 Directional Drillers, 3 LWD Engineers on board.

Distances to Bit:

Resistivity: 8.94m

GR: 8.99m

DIR: 16.48m

SURVEY DATA

MD (m)	Inc (°)	Azi (°)	TVD (m)	TVDSS (m)	V.Sec (m)	Dogleg (°/30m)	E/W (m)	N/S (m)
1061.7	37.30	152.00	981.0	959.5	-261.53	15.66	139.55	-261.53
1118.8	38.76	150.48	1026.0	1004.5	-292.36	0.91	156.47	-292.36
1148.1	38.35	150.07	1048.9	1027.4	-308.21	0.49	165.52	-308.21
1176.1	36.43	148.80	1071.2	1049.7	-322.88	2.21	174.18	-322.88
1205.7	35.45	148.06	1095.2	1073.7	-337.69	1.09	183.28	-337.69
1234.2	35.74	147.30	1118.3	1096.8	-351.70	0.56	192.14	-351.70
1292.4	35.16	148.01	1165.7	1144.2	-380.20	0.37	210.19	-380.20
1321.0	34.65	148.19	1189.2	1167.7	-394.09	0.55	218.84	-394.09

WELLSITE GEOLOGIST

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