DAILY GEOLOGICAL REPORT

Date:	08 December 2008	**Rig:**	Ocean Patriot
Report Number:	13	**Bit Diameter:**	216 mm
Report Period:	06:00 - 06:00 Hours	**Last Casing:**	340mm Casing @ 1546.3 mMDRT
Spud Date:	27-Nov-2008 13:00 Hours	**FIT:**	1.65 sg EMW @ 1546.3 mMDRT
Days From Spud:	10.7	**Mud Weight:**	1.15 sg
Depth @ 0600 Hrs:	3911.0 mMDRT -3816.8 mTVDAHD	**ECD:**	1.25 sg
		Mud Type:	KCL / Polymer
Lag Depth:	3850.0 mMDRT	**Mud Chlorides:**	65000.00 mg/L
Last Depth:	3718.0 mMDRT	**Est. Pore Pressure:**	1.04 sg
Progress:	193.0 m	**Last Survey:**	3873.86 mMDRT
Water Depth:	392.6 m	**Deviation:**	Inc. 17.21°
RT:	21.5 m		Az. 331.57°

OPERATIONS SUMMARY

24 HOUR SUMMARY: Pulled out of hole to surface and laid out failed LWD / MWD tools. Picked up backup tools and ran in hole. Directionally drilled ahead to 3911.0 mMDRT

NEXT 24 HOURS: Directionally drill ahead 216 mm (8 1/2") hole to TD.

CURRENT OPERATION @ 06:00 HRS (08-Dec-2008): Directionally drilling ahead new 216 mm (8 1/2") open hole at 3911.0 mMDRT.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 3718.0 to 3810.0 mMDRT (-3635.3 to -3721.4 mTVDAHD)
ROP (Range): 6.0 to 131.0 m/h
Av. ROP: 75.0 m/h

Predominantly SILTSTONE interbedded with SANDSTONE
SILTSTONE (45 to 80%): Olive grey, medium brown grey, very arenaceous and commonly grading to a SILTY SANDSTONE, minor argillaceous, common carbonaceous laminations and specks, minor calcareous material, trace very fine glauconite, commonly micromicaceous, trace nodular pyrite, firm to moderately hard, sub-blocky.
SANDSTONE (20 to 55%): Light brown to olive grey, minor off white, very fine to fine grains, occasional coarse frosted angular grains, dominantly very fine, well sorted, rounded to sub-angular, minor weak calcareous cement, common to abundant olive grey silty matrix and commonly grading to an ARENACEOUS SILTSTONE, minor off white argillaceous matrix, common carbonaceous specks, common lithics, minor reworked glauconitic material, generally disaggregated, moderately hard to hard aggregates, very poor visible porosity, no hydrocarbon fluorescence.

GAS SUMMARY

Background Gas							
INTERVAL (mMDRT)	**Total Gas (%)**	**C1 (ppm)**	**C2 (ppm)**	**C3 (ppm)**	**iC4 (ppm)**	**nC4 (ppm)**	**C5 (ppm)**
3718.0 - 3810.0	0.07	581	11	5	1	1	0

Gas Peak							
INTERVAL (mMDRT)	**Total Gas (%)**	**C1 (ppm)**	**C2 (ppm)**	**C3 (ppm)**	**iC4 (ppm)**	**nC4 (ppm)**	**C5 (ppm)**
3785.5	0.18	1288	31	12	4	3	3

SAMPLE QUALITY
Good sample returns.
Collected 10 m sample intervals from 3718.0 m to 3850.0 mMDRT.

MUDLOGGING EQUIPMENT / PERSONNEL
All systems operational.

MWD
Run #5

LWD /MWD tools pulled from hole and laid out. Memory dumped. Telemetry modulator found to have seized.

Run #6, Bit Run #5: 216 mm LWD Tool offsets to bit:

Tool	Serial #	Distance to bit (m)
Direction and Inclination	Telescope MWD	12.08
Gamma Ray	GVR LWD	17.72
Ring Resistivity	GVR LWD	18.08
Button Resistivity	GVR LWD	18.25
Sonic	ISONIC	25.09
Neutron Density	ADN LWD	31.70
Neutron Porosity A	DN LWD	32.66

Backup tools arriving tonight.

Issues with Xceed tool and error messages received. GR looks to be reading too high with the reading on the last run around 110 GAPI and on resuming drilling the reading was over 200 GAPI. Rechecking the mud resistivities and environmental corrections has not made an impact.

WIRELINE

Wireline tools arriving onboard today.

REMARKS
Pulled out of hole to surface and laid out failed LWD / MWD tools. Bit graded at 0-0-ER-C-X-I-NO-DTF. Picked up backup tools, shallow tested and ran in hole, washing and reaming from 3705.0 mMDRT. Directionally drilled ahead new 216 mm open hole to 3911.0 mMDRT.

WELLSITE GEOLOGISTS
Greg Fawns / Adam Cruickshank