

DAILY GEOLOGICAL REPORT

Date:	10 December 2008	Rig:	Ocean Patriot
Report Number:	15	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:	12.7	Mud Weight:	1.16 sg
Depth @ 0600 Hrs:	4720.0 mMDRT	ECD:	1.27 sg
	-4556.4 mTVDAHD	Mud Type:	KCL / Polymer
Lag Depth:	4720.0 mMDRT	Mud Chlorides:	60000.00 mg/L
Last Depth:	4430.0 mMDRT	Est. Pore Pressure:	1.04 sg
Progress:	290.0 m	Last Survey:	4707.92 mMDRT
Water Depth:	392.6 m	Deviation:	Inc. 22.24°
RT:	21.5 m		Az. 350.21°

OPERATIONS SUMMARY

24 HOUR SUMMARY: Directionally drilled ahead to TD at 4720.0 mMDRT. Circulated bottoms up and backreamed out of hole.

NEXT 24 HOURS: Backream out of hole to 3337.0 mMDRT, run in hole to TD. Circulate hole clean and pull out of hole. Lay down directional BHA and rig up to run wireline logs as per programme.

CURRENT OPERATION

@ 06:00 HRS (10-Dec-2008): Backreaming out of hole at 4548.0 mMDRT.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 4370.0 to 4720.0 mMDRT (-4239.1 to -4556.4 mTVDAHD)
ROP (Range): 4.0 to 150.0 m/h
Av. ROP: 29.0 m/h

SANDSTONE with minor interbedded SILTSTONE

SANDSTONE (10 to 95%): Clear to translucent, medium light grey aggregates, opaque coarse to very coarse grains, very fine to very coarse, dominantly very fine to fine, in upper section and dominantly fine with depth, minor to abundant medium, nil to common coarse to very coarse, aggregates are very fine to fine, dominantly well sorted to poorly sorted in parts, rounded to angular, dominantly sub-angular in upper section and sub-rounded with depth, common angular and rounded, dominantly weak siliceous cement, trace to common moderate to strong calcareous cement, common to abundant white argillaceous matrix and commonly grading to ARGILLACEOUS SANDSTONE, nil to trace light grey silty matrix, trace lithics, trace to minor carbonaceous material, trace to common white calcareous material, friable to brittle aggregates, dominantly disaggregated, poor to fair visible porosity, poor to fair inferred porosity, no hydrocarbon fluorescence.

SILTSTONE (5 to 90%): Olive black to dark grey, minor olive grey in parts, dominantly arenaceous, common carbonaceous in part, common argillaceous in part, micromicaceous, nil to trace mica flakes, common carbonaceous material, trace very fine glauconite, trace calcareous fragments, trace nodular and disseminated pyrite, trace lithics, firm to hard, dominantly moderately hard to hard, common firm and brittle, dominantly sub-blocky, common sub-fissile.

GAS SUMMARY

Background Gas							
INTERVAL (mMDRT)	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
4370.0 - 4720.0	0.04	255	12	8	1	2	2

Gas Peak							
INTERVAL (mMDRT)	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
4385.0	0.36	2134	177	115	15	32	17

SAMPLE QUALITY

Good sample returns.

Collected 10 m sample intervals from 4370.0 m to 4580.0 mMDRT.

Collected 5 m sample intervals from 4580.0 m to 4720.0 mMDRT.

MUDLOGGING EQUIPMENT / PERSONNEL

All systems operational. Visean computer reimaged and working.

MWD

Run #6, Bit Run #4RR1: 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	ADN LWD	32.66

WIRELINE

All primary tools functional. RCOR tool operation witnessed.

REMARKS

Directionally drilled 216 mm hole to TD at 4720.0 mMDRT which was reached at 02:00 hrs 10th December 2008. Pumped a hi-vis sweep and circulated the hole clean. Backreamed out of hole to 4548.0 mMDRT.

WELLSITE GEOLOGISTS

Greg Fawns / Justin Eastwood