

DAILY GEOLOGICAL REPORT

Date:	11 January 2009	Rig:	Ocean Patriot
Report Number:	24	Bit Diameter:	216 mm
Report Period:	06:00 - 06:00 Hours	Last Casing:	244 mm @ 3243.9 mMDRT
Spud Date:	20-Dec-2008 17:30 Hours	FIT:	1.60 sg EMW @ 3252.0 mMDRT
Days From Spud:	21.5	Mud Weight:	1.16 sg
Depth @ 0600 Hrs:	5180.0 mMDRT	ECD:	1.29 sg
	-3841.1 mTVDAHD	Mud Type:	KCl Polymer
Lag Depth:	5160.0 mMDRT	Mud Chlorides:	57000 mg/L
Last Depth:	4816.0 mMDRT	Est. Pore Pressure:	N/A
Progress:	364.0 m	Last Survey:	5110.73 mMDRT
Water Depth:	504.9 m	Deviation:	Inc. 30.75°
RT:	21.5 m		Az. 192.62°

OPERATIONS SUMMARY

24 HOUR SUMMARY: Continued drilling 216 mm directional hole from 4816.0 m to 5180.0 mMDRT.

NEXT 24 HOURS: Perform a 10 stand wiper trip. Continue drilling 216 mm directional hole from 5180.0 mMDRT to TD.

CURRENT OPERATION

@ 06:00 HRS (11-Jan-2009): Drilling 216 mm directional hole at 5180.0 mMDRT.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 4800.0 to 4855.0 mMDRT (-3537.7 to -3575.1 mTVDAHD)
ROP (Range): 5.0 to 70.0 m/h
Av. ROP: 26.0 m/h

Massive SILTSTONE.

SILTSTONE (100%): medium light grey to olive grey, trace brownish black, non calcareous, trace very finely arenaceous, becoming more sandy, trace micromicaceous, trace disseminated pyrite, trace very fine glauconite, soft to dominantly firm, rare moderately hard, amorphous to sub-blocky, sub-fissile in part.

INTERVAL: 4855.0 to 4940.0 mMDRT (-3575.1 to -3638.4 mTVDAHD)
ROP (Range): 9.0 to 74.0 m/h
Av. ROP: 31.0 m/h

Massive SILTSTONE with very thin SANDSTONE interbeds.

SILTSTONE (97 to 99%): dominantly olive grey to medium light grey, trace brownish black, trace light greenish grey, non calcareous, trace very finely arenaceous, argillaceous in part grading to SILTY CLAYSTONE, trace micromicaceous, trace disseminated pyrite, trace pyrite nodules, trace very fine glauconite, soft to dominantly firm, rare moderately hard, amorphous to sub-blocky, sub-fissile in part.

SANDSTONE 1 (Nil to 2%): clear to translucent, trace light brownish grey, dominantly very fine to fine, rare medium, well sorted, dominantly sub rounded to sub angular, occurring as very soft aggregates with dispersive (washing out) light brownish grey argillaceous matrix, poor inferred porosity, no hydrocarbon fluorescence.

SANDSTONE 2 (Nil to 2%): clear to translucent, trace light grey, dominantly very coarse to coarse, well sorted, dominantly sub-angular to sub-rounded, weak pyrite cement, loose, clean, poor to fair inferred porosity, no hydrocarbon fluorescence.

INTERVAL: 4940.0 to 5160.0 mMDRT (-3638.4 to -3823.9 mTVDAHD)
ROP (Range): 11.0 to 77.0 m/h
Av. ROP: 29.0 m/h

Massive SILTSTONE.

SILTSTONE (100%): dominantly olive grey to light brownish grey, trace medium light grey, non calcareous, trace very finely arenaceous, argillaceous in part grading to SILTY CLAYSTONE, occasionally trace greyish black silty carbonaceous specks, trace micromicaceous, trace disseminated pyrite, soft to dominantly firm, rare moderately hard, amorphous to sub-blocky, sub fissile in part.

GAS SUMMARY

Background Gas							
INTERVAL (mMDRT)	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
4800.0 - 4855.0	0.03	234	5	4	0	0	0
4855.0 - 4940.0	0.04	289	5	3	1	0	0
4940.0 - 5160.0	0.03	210	8	8	2	1	1

SAMPLE QUALITY

5.0 metre bagged samples from 4800.0 m to 5160.0 mMDRT.

MUDLOGGING EQUIPMENT / PERSONNEL

All systems fully functional.

The gas line from the gas trap to the BHI Unit has been tested and found to be good.

MWD

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

Tool	Serial #	Distance to bit (m)
Gamma Ray	EcoScope YC85	9.84
APWD	EcoScope YC85	10.00
Density	EcoScope YC85	11.04
Caliper	UltraSonic Caliper	11.46
Resistivity	EcoScope YC85	12.88
Neutron Porosity	EcoScope YC85	13.13
Direction and Inclination	TelescopeMWD VG67	20.16
GVR Resistivity	GVR 41872	26.45
Sonic	SonicVision 46324	32.71

The Anadrill geograph cable got snagged and snapped, resulting in the loss of depth tracking from 4822.0 m to 4838.0 mMDRT. This resulted in the Real Time LWD data from 4822.0 m to 4838.0 mMDRT having to be acquired by reaming the interval at 55 m/hr, after drilling the stand down. The Anadrill Geograph is now fully functional.

WIRELINE

All primary and back-up tools tested.

REMARKS

The drilling of the 216 mm directional hole continued from 4816.0 m to 4841.0 mMDRT, at which point the Anadrill geograph cable snapped. The cable was repaired and the section from 4822.0 to 4838.0 mMDRT was re-logged. Drilling then continued from 4841.0 m to 5062.0 mMDRT, where the rotary continually stalled. Drilling parameters were varied until drilling resumed, which continued to 5148.0 mMDRT where the rotary continually stalled again. With the drilling parameters varied again, drilling continued to 5180.0 mMDRT.

WELLSITE GEOLOGISTS

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