

DAILY GEOLOGICAL REPORT

Date:	04 January 2009	Rig:	Ocean Patriot
Report Number:	17	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:	14.5	Mud Weight:	1.14 sg
Depth @ 0600 Hrs:	3576.0 mMDRT	ECD:	1.30 sg
	-2700.2 mTVDAHD	Mud Type:	KCl Polymer
Lag Depth:	3545.0 mMDRT	Mud Chlorides:	53000 mg/L
Last Depth:	3256.0 mMDRT	Est. Pore Pressure:	N/A
Progress:	320.0 m	Last Survey:	3520.17 mMDRT
Water Depth:	504.9 m	Deviation:	Inc. 47.22°
RT:	21.5 m		Az. 193.13°

OPERATIONS SUMMARY

24 HOUR SUMMARY: Drilled 216 mm directional hole from 3256.0 m to 3576.0 mMDRT.

NEXT 24 HOURS: Continue drilling 216 mm directional hole from 3576.0 mMDRT to TD of approximately 5462.0 mMDRT.

CURRENT OPERATION

@ 06:00 HRS (04-Jan-2009): Drilling 216 mm directional hole at 3576.0 mMDRT.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 3253.0 to 3273.0 mMDRT (-2479.3 to -2493.0 mTVDAHD)
ROP (Range): 1.0 to 17.0 m/h
Av. ROP: 8.0 m/h

Massive CALCAREOUS CLAYSTONE.

CALCAREOUS CLAYSTONE (100%): medium grey to medium light grey, light olive grey, abundantly calcareous grading to CALCILUTITE, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace fine to medium, angular quartz grains, trace very fine carbonaceous specks, trace ooids, soft to dominantly firm, amorphous to sub-blocky.

INTERVAL: 3273.0 to 3545.0 mMDRT (-2493.0 to -2679.1 mTVDAHD)
ROP (Range): 5.0 to 52.0 m/h
Av. ROP: 23.0 m/h

Massive CALCAREOUS CLAYSTONE becoming less calcareous with depth.

CALCAREOUS CLAYSTONE (100%): medium dark grey, medium grey, light olive grey, light brownish grey, light greenish grey, very calcareous grading to MARL, becoming less calcareous with depth, silty where light brownish grey, trace micromicaceous, trace very fine glauconite, trace disseminated pyrite, trace pyrite nodules, dominantly firm to moderately hard where medium dark grey, amorphous to sub-blocky rare sub-fissile.

GAS SUMMARY

Background Gas							
INTERVAL (mMDRT)	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
3253.0 - 3273.0	0.01	52	0	0	0	0	0
3273.0 - 3545.0	0.03	244	1	1	0	0	0

SAMPLE QUALITY

6.1 metre bagged sample from 3248.9 m to 3255.0 mMDRT.
5.0 metre bagged samples from 3255.0 m to 3545.0 mMDRT.

MUDLOGGING EQUIPMENT / PERSONNEL

All systems fully functional. The Gas system has been re-calibrated.
BHI Mudlogging is monitoring depth through its Kelly bottle system and supplying Anadrill, as a stand-by, with this depth data through WITS.

Note: The communications through WITS between BHI Mudlogging and Anadrill is ONE WAY ONLY, from BHI Mudlogging to Anadrill, NOT from Anadrill to BHI Mudlogging.

MWD

Run #5, Bit Run #4RR: 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

Changed out the failed Anadrill TelescopeMWD tool. Surface checking of the Sonic and GVR tools indicated an electrical connection problem between them and hence both tools were changed out.

Anadrill is monitoring depth through its Geolograph.

Note: BHI Mudlogging's Kelly bottle depth tracking data is being supplied through WITS to Anadrill as a stand-by.

REMARKS

The drilling of the 216 mm directional hole continued from 3256.0 m to 3576.0 mMDRT.

WELLSITE GEOLOGISTS

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