

DAILY GEOLOGICAL REPORT

Date:	09 January 2009	Rig:	Ocean Patriot
Report Number:	22	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:	19.5	Mud Weight:	1.15 sg
Depth @ 0600 Hrs:	4663.0 mMDRT	ECD:	1.29 sg
	-3444.3 mTVDAHD	Mud Type:	KCl Polymer
Lag Depth:	4655.0 mMDRT	Mud Chlorides:	60000 mg/L
Last Depth:	4433.0 m MDRT	Est. Pore Pressure:	N/A
Progress:	230.0 m	Last Survey:	4624.10 mMDRT
Water Depth:	504.9 m	Deviation:	Inc. 47.10°
RT:	21.5 m		Az. 195.12°

OPERATIONS SUMMARY

24 HOUR SUMMARY: Continued washing and reaming to 4433.0 mMDRT. Drilled 216 mm directional hole from 4433.0 m to 4663.0 mMDRT.

NEXT 24 HOURS: Continue drilling 216 mm directional hole from 4663.0 mMDRT to TD.

CURRENT OPERATION

@ 06:00 HRS (09-Jan-2009): Drilling 216 mm directional hole at 4663.0 mMDRT.

GEOLOGICAL SUMMARY

LITHOLOGY

INTERVAL: 4433.0 to 4655.0 mMDRT (-3286.9 to -3438.8 mTVDAHD)
ROP (Range): 3.0 to 76.0 m/h
Av. ROP: 21.0 m/h

Massive SILTSTONE with trace thin SANDSTONE beds.

SILTSTONE (80 to 100%): light grey to medium grey, medium dark grey to trace grey black, common dusky brown, non calcareous, trace very finely arenaceous, trace to minor micromicaceous, trace to common disseminated pyrite occurring as laminae, trace pyrite nodules, trace very fine glauconite, soft to dominantly firm, dispersive, sub-fissile to sub-blocky.

SANDSTONE (Nil to 20%): clear to translucent, trace very light grey, very fine to very coarse, dominantly very fine to fine, moderately sorted, dominantly sub-rounded to sub-angular, very fine to fine grains occurring with a very dispersive light grey argillaceous matrix that is washed out, trace nodular pyrite, dominantly clean, loose, poor to fair inferred porosity, no hydrocarbon fluorescence.

GAS SUMMARY

Background Gas							
INTERVAL (mMDRT)	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
4433.0 - 4655.0	0.01	81	1	1	0	0	0

SAMPLE QUALITY

5.0 metre bagged samples from 4435.0 m to 4655.0 mMDRT.

MUDLOGGING EQUIPMENT / PERSONNEL

All systems fully functional.

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

WIRELIN

All primary and back-up tools tested.

REMARKS

Washed and reamed from 4412.0 m to bottom. Drilled 216 mm (8 1/2") directional hole from 4433.0 to 4663.0 mMDRT.

WELLSITE GEOLOGISTS

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