

## DAILY GEOLOGICAL REPORT

<b>Date:</b>	27 December 2008	<b>Rig:</b>	Ocean Patriot
<b>Report Number:</b>	9	<b>Bit Diameter:</b>	311 mm
<b>Report Period:</b>	06:00 - 06:00 Hours	<b>Last Casing:</b>	340 mm @ 1735.9 mMDRT
<b>Spud Date:</b>	20-Dec-2008 17:30 Hours	<b>Integrity Test:</b>	Not performed.
<b>Days From Spud:</b>	6.5	<b>Mud Weight:</b>	1.15 sg
<b>Depth @ 0600 Hrs:</b>	1750.0 mMDRT	<b>ECD:</b>	N/A
	-1468.8 mTVDAHD	<b>Mud Type:</b>	KCl Polymer
<b>Lag Depth:</b>	1741.7 mMDRT	<b>Mud Chlorides:</b>	61000 mg/L
<b>Last Depth:</b>	1741.7 mMDRT		
<b>Progress:</b>	8.3 m	<b>Last Survey:</b>	1703.46 mMDRT
<b>Water Depth:</b>	504.9 m	<b>Deviation:</b>	Inc. 50.90°
<b>RT:</b>	21.5 m		Az. 191.79°

### OPERATIONS SUMMARY

**24 HOUR SUMMARY:** Spotted cement plug on top of float collar. Pulled out of hole with packer assembly. Made-up and ran in hole 311 mm rotary steerable drilling assembly. Picked-up joints of 127 mm drill pipe. Drilled out shoe track, displaced hole 1.15 sg mud. Directionally drilled 311 mm hole to 1750.0 mMDRT.

**NEXT 24 HOURS:** Directionally drill 311 mm hole to planned section TD.

**CURRENT OPERATION**

**@ 06:00 HRS (27-Dec-2008):** Directionally drilling 311 mm hole at 1750.0 mMDRT.

### GEOLOGICAL SUMMARY

**LITHOLOGY**

The lag returns (to 1741.7 mMDRT) at 0600 hrs were 100% cement.

**MUDLOGGING EQUIPMENT / PERSONNEL**

The Total gas readings between 1741.7 and 1745.0 mMDRT were incorrect (Chromatograph readings were accurate). The Total gas system calibration was checked and the gas readings below the lagged depth of 1745.0 mMDRT are now correct. All other systems fully functional.

It was proposed that BHI Mudlogging would use the Kelly bottle as the depth tracker and also hook a sensor to the Geolograph for redundancy of depth tracking. However, due to further problems with the Geolograph when drilling cement it was rigged down.

**MWD**

Run #3, Bit Run #3: 311 mm LWD Tool offsets to bit:

Tool	Serial #	Distance to bit (m)
APWD	arcVISION 4126	10.67
Resistivity	arcVISION 4126	11.38
Gamma Ray	arcVISION 4126	11.43
Direction and Inclination	TeleScopeMWD E0442	18.99
Sonic	sonicVISION E2665	28.05

Anadrill attempted to use BHI's Geolograph with new cable line for depth tracking to circumvent a possible under-performing air motor.

However, due to further problems with the Geolograph when drilling cement it was rigged down. Anadrill is being supplied with BHI Mudlogging's Kelly bottle depth tracking data through WITS.

**REMARKS**

After spotting a 20 bbls (3.18 m<sup>3</sup>) cement plug on top of float collar at 1722.0 mMDRT, the packer assembly was pulled out of the hole.

The 311 mm rotary steerable drilling assembly was made up and run in hole, picking-up joints of 127 mm (5") drillpipe. LWD tools were not shallow tested when running in hole. The drilling assembly tagged the top of cement at 1719.4 mMDRT. The hole was displaced to 1.15 sg KCl Polymer mud while drilling out the shoe track.

The 311 mm section was directionally drilled from 1741.7 m to 1750.0 mMDRT.

**WELLSITE GEOLOGISTS**

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