

## DAILY GEOLOGICAL REPORT

<b>Date:</b>	29 October 2005	<b>Rig:</b>	Ocean Patriot
<b>Report Number:</b>	7	<b>Bit Diameter:</b>	216 mm
<b>Report Period:</b>	06:00 - 06:00 Hours	<b>Last Casing:</b>	340 mm @ 817.6 mMDRT
<b>Spud Date:</b>	24-Oct-2005 03:30 Hours	<b>FIT:</b>	1.70 sg EMW @ 827.0 mMDRT
<b>Days From Spud:</b>	5.1	<b>Mud Weight:</b>	1.22 sg
<b>Depth @ 0600 Hrs:</b>	1148.0 mMDRT		1.25 sg
	1126.5 mTVDAHD	<b>Mud Type:</b>	KCL/PHPA
<b>Lag Depth:</b>	1132.0 mMDRT	<b>Mud Chlorides:</b>	30000 mg/L
<b>Last Depth:</b>	824.0 mMDRT		1.03 sg
<b>Progress:</b>	324.0 m	<b>Last Survey:</b>	1054.97 mMDRT
<b>Water Depth:</b>	58.6 m	<b>Deviation:</b>	Inc. 0.93°
<b>RT:</b>	21.5 m		Az. 273.03°

## OPERATIONS SUMMARY

**24 HOUR SUMMARY:** Made up 127 mm drill pipe. Made up 216 mm hole section BHA. Initialized LWD and loaded sources. Ran into hole. Drilled out 340 mm shoe while displacing to KCL / PHPA mud. Drilled ahead 3 m of new formation and conducted a FIT to 1.70 sg EMW. Drilled ahead 216 mm hole.

**NEXT 24 HOURS:** Drill ahead 216 mm hole.

**CURRENT OPERATION @ 06:00 HRS (29-Oct-2005):** Drilling ahead 216 mm hole.

## GEOLOGICAL SUMMARY

### LITHOLOGY

**INTERVAL:** 824.0 to 840.0 mMDRT (-802.5 to -818.5 mTVDAHD)  
**ROP (Range):** 65.0 to 65.0 m/h  
**Av. ROP:** 65.0 m/h

#### Massive Argillaceous Calcilutite

ARGILLACEOUS CALCILUTITE 100% : Medium grey to light grey, rarely pale brown to yellowish brown, soft to firm, amorphous to locally sub-blocky, dominantly argillaceous with trace fine quartz silt, trace micropyrite, trace pyrite nodules, trace forams and assorted fossil fragments. Minor cement contamination.

**INTERVAL:** 840.0 to 920.0 mMDRT (-818.5 to -898.4 mTVDAHD)  
**ROP (Range):** 6.0 to 142.0 m/h  
**Av. ROP:** 58.0 m/h

#### Interbedded Argillaceous Calcilutite with minor Calcarenite and Calcisiltite

ARGILLACEOUS CALCILUTITE (80-90%) : Light grey to white, rarely pale brown to yellowish brown, occasionally light olive grey, very soft to dispersive, rarely firm to locally sub-blocky, dominantly argillaceous with trace fine quartz silt, trace micropyrite, trace pyrite nodules, trace forams and assorted fossil fragments.  
 CALCARENITE (0-10%) : Light brown to yellowish brown, firm to moderately hard, occasionally brittle, massive to blocky, moderately argillaceous with trace fine quartz silt, trace micropyrite, trace pyrite nodules, trace assorted fossil fragments.  
 CALCISILTITE (0-10%) : Light brown-grey to pale yellowish brown, firm to moderately hard, amorphous to locally sub-blocky, moderately argillaceous, trace micropyrite, trace black lithic specks.

**INTERVAL:** 920.0 to 980.0 mMDRT (-898.4 to -958.4 mTVDAHD)  
**ROP (Range):** 15.0 to 123.0 m/h

Av. ROP: 49.0 m/h

**Interbedded Marl with minor Argillaceous Calcilutite and Calcisiltite**

MARL (20-100%) : Greenish grey to light olive grey, very soft to dispersive, rarely firm to locally sub-blocky, trace fine quartz silt, trace micropyrrite, trace black lithic specks, trace pyrite nodules, trace forams and assorted fossil fragments.

ARGILLACEOUS CALCILUTITE (0-80%) : as above

CALCISILTITE (0-20%) : as above

**INTERVAL:** 980.0 to 1132.0 mMDRT (-958.4 mTVDAHD)

**ROP (Range):** 21.0 to 86.0 m/h

**Av. ROP:** 59.0 m/h

**Massive Marl**

MARL 100% : Greenish grey to light olive grey, soft to dispersive, rarely firm to locally sub-blocky, trace fine quartz silt, trace micropyrrite, trace black lithic specks, trace pyrite nodules, trace forams and assorted fossil fragments.

**HYDROCARBON FLUORESCENCE**

No Shows

**GAS SUMMARY**

Background Gas							
INTERVAL (m MDRT)	Total Gas (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	C5 (ppm)
824.0 - 843.0	1.04	1861	13	3	5	1	4
840.0 - 920.0	0.63	4288	30	7	11	1	4
920.0 - 1132.0	1.26	2983	21	5	8	1	1

**CALCIMETRY**

Interval (m MDRT)	Calcite Range	Dolomite Range
824.0 - 830.0	72 - 72 %	No Valid Data
860.0 - 880.0	73 - 73 %	No Valid Data
920.0 - 940.0	60 - 60 %	No Valid Data
960.0 - 980.0	55 - 55 %	No Valid Data
1000.0 - 1020.0	52 - 52 %	No Valid Data
1040.0 - 1060.0	58 - 58 %	No Valid Data

Calcimetry will be carried out every 40m until such time as data values approach zero.

**MWD**

Sensor to bit distances:

Directional 32.73 m



BAT Sonic	28.03 m
CNP Porosity	23.21 m
SLD Density	20.40 m
EWR-P4 Resistivity	13.72 m
DGR Gamma Ray	11.51 m

**WELLSITE GEOLOGISTS**

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