

# DAILY GEOLOGICAL REPORT

## Maclean-1

### Report No. 5

**Report Period: 00:00 – 24:00 hrs, 20th October 2005**

**Wellsite Geologists:** Geoff Geary / Rob Blackmore

<b>Rig</b>	Ocean Patriot	<b>WD (m)</b>	57.0 m	<b>Depth @ 00:00 hrs</b>	766.0 m (744.5 m TVDSS)
<b>Rig Type</b>	Semi-Submersible	<b>RT (m)</b>	21.5 m	<b>Depth Last Report (@ 00:00 hrs)</b>	673.0 m (651.5 m TVDSS)
<b>Spud</b>	16/10/05 03:30 hrs	<b>Last CSG (mRT)</b>	340 mm (13 3/8") @ 350.0 mMDRT	<b>24hr. Progress</b>	93.0 m
<b>Days from Spud</b>	4	<b>MW (SG)</b>	1.06 sg	<b>Last Survey</b>	0.72 Deg @ 766.0 mMDRT
<b>Bit Size</b>	311 mm (12 1/4")	<b>Last FIT (SG)</b>	1.66 sg EMW @ 358.0 mMDRT	<b>Est.Pore Pressure</b>	1.03 sg @ 766.0 mMDRT

### Operations Summary

**24hrs. Drilling Summary**

Drilled ahead to section TD. TD for Maclean-1 reached at 06:00 hrs on the 20<sup>th</sup> October 2005 @ 766.0 mMDRT. POOH to the casing shoe. Circulated at the casing shoe and POOH to surface. Laid out BHA. Downloaded LWD memory data. Set cement plugs and laid out tubulars while waiting on cement. Continued on with P & A program.

**Current Status @ 06:00hrs**  
(21<sup>st</sup> October 2005)

P & A the well.

**Lithological Summary**  
00:00-06:00 hrs

No further drilling. (Lithologies described below were drilled from midnight to 06:00 hrs on the 20<sup>th</sup> October 2005.)

	<b>B-grd Gas %</b>	
	<b>ave</b>	<b>max</b>
	<b>N/A</b>	<b>N/A</b>

**Expected Next Activity**

P & A the well.

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### Cuttings Descriptions

Depth (mRT)		ROP (m/hr.)	Descriptions (Lithology / Shows)	Backgrnd gas%	
Top	BTM	Min.-Max. (Ave.)		ave	max
672	708	5.9-16.0 (19.2)	<p><b>Interbedded Claystone with Conglomerate and more minor Sandstone</b></p> <p><b>Claystone (20-100%):</b> white to very light grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.</p> <p><b>Sandstone (Tr-30%):</b> clear-frosted, translucent, white and light to medium dark grey, loose, coarse to very coarse and granular (dom cU), conglomeratic in part, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace argillaceous matrix coating grains, trace nodular pyrite and pyritic cement, trace lithics, trace rounded carbonaceous fragments, very good inferred porosity, <b>no fluorescence or cut.</b></p> <p><b>Conglomerate (0-60%):</b> clear-frosted, translucent, white and light to medium dark grey, loose, granular, quartzose, angular (broken fragments) to well rounded, poorly sorted, trace white argillaceous matrix coating grains, very good inferred porosity, no fluorescence or cut.</p>	0.13	0.18
708	766	7.3-97.1 (20.7)	<p><b>Predominantly Massive Claystone with minor interbedded Fine Sandstone and Coal</b></p> <p><b>Claystone (90-100%):</b> light grey to brownish-grey, soft, dispersive, washing out in drilling mud, 5-10% silt to very fine sand dispersed through matrix, trace very fine carbonaceous grains.</p> <p><b>Sandstone (Tr-10%):</b> clear-frosted, translucent, white and light to medium dark grey, loose to very rarely cemented fragments, fine to medium (fU-mL), poorly sorted, trace argillaceous matrix cementing grains, trace nodular pyrite and pyritic cement, trace lithics, <b>no fluorescence or cut.</b></p> <p><b>Coal (0%-Tr):</b> brownish black to black, soft to firm, brittle, fibrous, very fine to small fragments.</p>	0.16	0.24

### Gas Data

Depth (mRT)	Type	% TG	C1 ppm	C2	C3	iC4	nC4	iC5	NC5
687	Peak	0.18	1785	2	2	5	2	6	1
738	Peak	0.24	1815	3	1	8	1	14	4

Type: TG-Total Recorded Gas (%), BG-Back Ground (%), P-Peak, C-Connection, T-Trip, W-Wipertrip, FC-Flow Check, P-Pumps off

### Mud Data

@ 766.0 mMDRT

Mud Type	MW (sg)	Viscosity PVYP	API Fluid Loss (cc)	HTHP Fluid Loss (cc)	LGS %	Ph	Glycol (mg/l)
KCL/PHPA	1.06	15/24	5	-	0.9	10	-

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### Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed** (mRT)	Actual* (mRT)	Difference (High/Low) (m)	Based on
Sea bed (sf)	94.5	78.5	16.0 H	Seabed
Lakes Entrance Fm	524.5	520.0	4.5 H	LWD
Gumard Fm	604.5	583.0	21.5 H	LWD
Kingfish Fm	637.5	631.0	6.5 H	LWD
Volador Fm	678.5	671.0	7.5 H	LWD
Strzelecki Gp (or "older")	720.5	708.0	12.5 H	LWD
Total Depth	771.0	766.0		TD

\* Wellsite pick

### Comments

1. This is the final DGR for Maclean-1.
2. Formation Tops have been revised slightly using LWD Memory Data.

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