

# DAILY GEOLOGICAL REPORT

## Gilbert-1A

### Report No. 5

**Report Period: 00:00 – 24:00 hrs, 8th October 2005**

			<b>Wellsite Geologists:</b> Geoff Geary / Rob Blackmore	
<b>Rig</b>	Ocean Patriot	<b>WD (m)</b>	51.3 m	<b>Depth @ 00:00 hrs</b> 510.0 m (488.5 m TVDSS)
<b>Rig Type</b>	Semi-Submersible	<b>RT (m)</b>	21.5 m	<b>Depth Last Report</b> 336.0 m (@ 00:00 hrs) (314.5 m TVDSS)
<b>Spud</b>	04/10/05 23:30 hrs	<b>Last CSG (mRT)</b>	340 mm (13 3/8") @ 331.0 mMDRT	<b>24hr. Progress</b> 174.0 m
<b>Days from Spud</b>	5	<b>MW (SG)</b>	1.06 sg	<b>Last Survey</b> 0.83 deg @ 554.3 mMDRT
<b>Bit Size</b>	311 mm (12 1/4")	<b>Last FIT (SG)</b>	1.44 sg EMW @ 341.8 mMDRT	<b>Est.Pore Pressure</b> 1.02 sg @ 510.0 m

### Operations Summary

**24hrs. Drilling Summary**

Completed BOP testing. Laid down 445mm (17.5") BHA. Picked up 311mm (12 1/4") BHA. RIH and drilled out shoetrack, cement and casing shoe. Displaced hole with drilling mud. Drilled 5.8 m of new formation to 341.8 mMDRT. Conducted FIT. Circulated to condition mud. Drilled ahead in 311mm (12 1/4") hole.

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

Drilling ahead at 629.0 mMDRT. Top of Gurnard Fm picked at 622.0 mMDRT.

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

Calcareous Claystone with minor interbedded Marl and Calcilutite from 510.0 - 550.0mMD RT. Massive Calcareous Claystone from 550.0-584.0mMD RT. Massive Calcareous Claystone with rare to abundant glauconite nodules from 584.0-620.0 mMDRT.

**B-grd Gas %**  
ave    max  
**0.69    1.25**

**Expected Next Activity**

Drill ahead to TD. POOH. Run wireline logs.

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### Cuttings Descriptions

Depth (mRT)		ROP (m/hr.)	Descriptions (Lithology / Shows)	Backgrnd gas%	
Top	BTM	Min.-Max. (Ave.)		ave	max
336	436	18.3-191.5 (78.9)	<p><b>Argillaceous Calcilutite interbedded with generally minor Argillaceous Calcisiltite and Calcarenite</b></p> <p><b>Calcilutite (65-80%):</b> argillaceous, white, off-white to medium grey, very soft to soft, amorphous, slightly firm in part, 10-35% argillaceous matrix, trace-15% fossil fragments (shell fragments, bryozoa, spicules, forams), trace-20% calcisiltite grading to <i>Calcisiltite</i> in part, trace fine to occasionally very coarse dark green glauconite grains, trace fine disseminated through matrix, trace fine to coarse pyrite.</p> <p><b>Calcisiltite (10-20%):</b> argillaceous, soft to slightly firm, very light to medium grey, 20-30% argillaceous matrix grading to <i>Calcilutite</i> and <i>Calcarenite</i> in part, trace-10% fossil fragments (coral debris, bryozoa, spicules, shell fragments &amp; forams), trace fine dark green glauconite and occasional nodules, trace fine pyrite, trace fine nodular pyrite.</p> <p><b>Calcarenite (Tr-15%):</b> white, pale yellowish brown to dark yellowish brown, pale yellowish orange, firm to hard, partly recrystallised, coarse to very coarse calcareous fossil fragments (shell fragments, bryozoa, spicules &amp; forams) with trace clay matrix, trace fine to occasionally very coarse dark green glauconite grains, trace pyrite.</p>	0.01	0.02
436	510	25.1-82.7 (42.0)	<p><b>Marl interbedded with Calcareous Claystone and Argillaceous Calcilutite</b></p> <p><b>Marl (10-50%):</b> very light to light medium grey, very soft - soft, dispersive in part, amorphous, clay matrix (30-40%) grading to <i>Argillaceous Calcilutite</i> in part, trace very fine dark green disseminated glauconite, trace fossil fragments and forams, interbedded with <i>calcilutite</i>.</p> <p><b>Calcilutite (20-30%):</b> argillaceous, soft to slightly firm, massive, very light to medium grey and greenish grey, trace dark grey, argillaceous matrix (0-30%), grading to <i>Calcilutite</i> and <i>Argillaceous Calcisiltite</i> in part, trace fossil fragments including coral debris, bryozoan, spicules, shell fragments and forams, trace fine dark green disseminated glauconite and trace-5% medium to coarse nodular glauconite, trace fine pyrite, trace coarse nodular pyrite.</p> <p><b>Claystone (20-60%):</b> calcareous, light grey to brownish grey, trace light greenish grey, soft, amorphous to blocky, 15-25% calcareous matrix (micrite), trace - 5% calcisilt, trace light brownish yellow fossil fragments, trace fine dark green disseminated glauconite and nodular glauconite, trace fine pyrite, trace coarse nodular pyrite.</p>	0.20	0.39

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### Gas Data

Depth (mRT)	Type	% TG	C1 ppm	C2	C3	iC4	nC4	iC5	NC5
336-436	BG	0.01	9	1	1	0	0	0	0
436-510	BG	0.20	1586	6	2	7	3	1	1

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

### Oil Show

Depth (mRT)	Oil stain	Fluor% / Color	Fluor Type	Cut Fluor	Cut Type	Res Ring	Gas Peak	BG

### Mud Data

@ 510.0 mRT

Mud Type	MW (sg)	Viscosity PVYP	API Fluid Loss (cc)	HTHP Fluid Loss (cc)	LGS %	Ph	Glycol (mg/l)
KCL/PHPA	1.06	12/14	7	-	1.2	10	-

### Provisional Formation Tops

Formation (Seismic Horizon)	Prognosed** (mRT)	Actual* (mRT)	Difference (High/Low) (m)	Based on
Sea bed (sf)	71.5	72.8	1.3 L	Seabed survey
Lakes Entrance Fm	425.5	436.0	10.5 L	Cuttings
Gumard Fm	616.5	622.0	5.5 L	LWD
Latrobe Coarse Siliciclastics	672.5			
Strzelecki Group	795.5			
Total Depth	910.5			

\* Wellsite pick

### Comments

1. Sperry-Sun LWD sensor offset distances from the bit for Run 200:  
Resistivity = 3.39 m  
Gamma-Ray = 6.42 m  
Directional = 9.80 m
2. Schlumberger continuing to check tools.
3. Tracer in mud system being monitored by Petrotech.
4. Small CO<sub>2</sub> spike of 1.5 % recorded at 489.0 mMDRT.

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