



# DAILY GEOLOGICAL REPORT

**WELL:** Glenaire-1ST1      **REPORT No.:** 30      **DAYS FROM SPUD:** 30      **DATE:** 08/10/06  
**PL:** PEP 160      **0000 hrs Depth:** 3072 m      **LAST DEPTH:** 3041 m      **PROGRESS:** 31 m  
**LOCATION:** Otway Basin      **Rig:** Ensign 32      **RT elevation:** 76.1 m      **PTD:** 3945 m  
**Northing:** 5 840 813 m N      **Easting:** 499 810 m E      **Ground Level:** 70.0m  
**NEARBY WELLS:** Tullich-1, Mceachern-1, Haselgrove South-1, Heathfield-1

**0600 OPS:** Drill ahead with 152mm hole at 3083m.

**PREVIOUS 24 Hours Operations:** RIH with directional drilling assembly, try to establish kick-off from 3042m, kick off established by 3063m, drill ahead with 152mm hole whilst correcting hole angle to 3072m.

**Comment:** Lower gas readings on ST1 compared with original hole are due to lower ROP and increased mud weight. Gas system checks indicate gas sampling system to be fully functional.

Formation Tops (Wellsite)	Wellsite (mRT)	Wellsite (mSS)	Prognosed (mRT)	Depths (mSS)	Prognosis Diff H/L
Gambier Limestone	6.1	70	6	70	0
Dilwyn Formation	29	47	82	-6	53H
Pember Formation	320	-244	347	-271	27H
Pebble Point Formation	380	-304	421	-345	41H
Sherbrook Group	448	-372	487	-411	39H
Eumeralla Formation	609	-533	656	-580	47H
Windermere/Katnook Ss	Not Present	n/p	2034	-1958	Not Present
Laira Formation	1968	-1892	2059	-1983	91H
Pretty Hill Formation			3746	-3670	
T.D.			3945	-3869	

Interval (m) ROP (ave) min/m	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
3042 - 3063	Cement (100%).	
<b>Fluorescence</b>		

3063 – 3081 (1.5)	SILTY CLAYSTONE, (80%) medium to dark grey to medium brown grey, abundant very fine altered feldspar grains in part, trace black carbonaceous flecks and detritus, common micromica, hard, subfissile. SANDSTONE, (20%) off white to light brown, silty to very fine, subangular to subrounded, moderately sorted, strong silica and calcareous cements, abundant off white argillaceous matrix – matrix supported, abundant altered feldspar grains, trace green grey brown red and black volcanogenic lithics, trace quartz grains, trace fine brown mica flakes, trace black carbonaceous detritus, hard, no visual porosity, no oil fluorescence.	1 – 15 (11) (82:7:5:2:3)
<b>Fluorescence</b>	No oil fluorescence but the carbonaceous material gives a very weak pale yellow crush cut.	

<b>Fluorescence</b>		
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