



# DAILY GEOLOGICAL REPORT

**WELL:** Glenaire-1ST1      **REPORT No.:** 39      **DAYS FROM SPUD:** 39      **DATE:** 17/10/06  
**PL:** PEP 160      **0000 hrs Depth:** 3361 m      **LAST DEPTH:** 3277 m      **PROGRESS:** 84 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 to 3386m, wiper trip.

**PREVIOUS 24 Hours Operations:** Drill ahead with 152mm hole to 3361m - slide and rotate to control hole angle.

**Comment:** Survey at 3263m = 1.48 degrees @ 232.27 azimuth, Survey at 3282.64m = 2.60 degrees @ 228.6 Azimuth, Survey at 3292m = 1.86 degrees @ 259.15 azimuth, Survey at 3341m = 1.99 degrees @ 256.98 azimuth.

Connection gases on all connections to 4578 units of total gas often with small volumes of free oil in the drilling mud - lag timing on connection gases corresponds to a depth of 3192m.

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
3279 – 3386 (7)	<p>SILTY CLAYSTONE, (90%) medium to dark grey to medium brown grey, abundant very fine altered feldspar grains in part, common black carbonaceous flecks and detritus, trace calcite lined fractures in part, common micromica, hard, subfissile.</p> <p>SANDSTONE, (10%) off white to light brown, silty to fine, dominantly 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.</p> <p>COAL, (trace) black to very dark grey, very argillaceous – grades to carbonaceous claystone, earthy lustre, irregular to blocky fracture, hard.</p>	75 – 4578 (155) (59:11:14:11:5)
<b>Fluorescence</b>	<p>The sandstone has dull yellow-orange mineral fluorescence but no cut. The coaly material has no fluorescence but gives a very weak pale yellow crush cut. Free oil in mud associated with connection gases from 3192m has a bright pale greenish yellow white fluorescence with a milky white cut, freezes at surface temperatures.</p>	

<b>Fluorescence</b>	
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