



DAILY GEOLOGICAL REPORT

WELL: Glenaire-01 **REPORT No.:** 13 **DAYS FROM SPUD:** 13 **DATE:** 21/09/06
PL: PEP 160 **0000 hrs Depth:** 2753 m **LAST DEPTH:** 2485 m **PROGRESS:** 268 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 216mm hole at 2802m.

PREVIOUS 24 Hours Operations: Drill ahead with 216mm hole to 2753m.

Comment: Gas analysis is getting more heavies with depth. Very little evidence of fracturing in lithology. Last survey 6.25 degrees N45W at 2719m.

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
2541 - 2670 (17)	<p>SILTY CLAYSTONE, (90%) light to medium grey to medium brown grey, dark brown and very carbonaceous in part, common very fine altered feldspar grains in part, common black carbonaceous flecks and detritus, common micromica, moderately hard, subfissile.</p> <p>SANDSTONE, (10%) off white to light brown grey, very fine to occasionally fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cements, abundant off white argillaceous matrix – matrix supported, abundant altered feldspar grains, common 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>	10 – 62 (32) (93:3:3:1:tr)
Fluorescence	<p>Nil in the sandstone, but: The detrital coal has no fluorescence but gives a very weak dull yellow crush cut.</p>	
2670 – 2766 (13)	<p>SILTY CLAYSTONE, (90%) light to dark grey to medium brown grey, dark brown grey and moderately argillaceous in part, abundant very fine altered feldspar grains in part, trace to common black carbonaceous flecks and detritus, common micromica, moderately hard, subfissile.</p> <p>SANDSTONE, (10%) off white to light brown grey, silty to fine, dominantly very fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cements, abundant off white argillaceous matrix – matrix supported, abundant altered feldspar grains, common 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>	12 – 115 (40) (90:4:3:2:1)
Fluorescence	<p>Nil in the sandstone, but: The detrital coal has no fluorescence but gives a very weak dull yellow crush cut.</p>	



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2766 – 2802 (9)	<p>SILTY CLAYSTONE, (70%) light to dark grey to medium brown grey, often abundant very fine altered feldspar grains – grades to silty sandstone, trace black carbonaceous flecks and detritus, common micromica, moderately hard, subfissile.</p> <p>SANDSTONE, (30%) off white to light grey, silty to fine, dominantly very fine, subangular to subrounded, moderately sorted, moderate 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 and clear mica flakes, trace black carbonaceous detritus, hard, no visual porosity, no oil fluorescence.</p>	15 – 40 (27) (88:5:5:2:tr)
Fluorescence	Nil in the sandstone, but: The detrital coal has no fluorescence but gives a very weak dull yellow crush cut.	
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