DAILY GEOLOGICAL REPORT

WELL: Glenaire-01	**REPORT No.:**	11	**DAYS FROM SPUD:**	11	**DATE:** 19/09/06
PL: PEP 160	**0000 hrs Depth:**	2365 m	**LAST DEPTH:**	2125 m	**PROGRESS:** 240 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 to 2386m, survey - 6 degrees, POOH for BHA change to pendulum assembly.

PREVIOUS 24 Hours Operations: Drill ahead with 216mm hole to 2154m, wiper trip to shoe, hole condition good, drill ahead to 2365m.

Comment: Calcite veining present in samples around 2106m, 2164m. Major fault interpreted from lithology compaction increase at 2284m, no visible indication in cutting samples.

Formation Tops **(Wellsite)**	Wellsite (mRT)	Wellsite (mSS)	Prognosed Depths (mRT)	Prognosed 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
2154 – 2285 (30)	SILTY CLAYSTONE, (90%) light to medium grey to medium brown grey to medium green grey, trace to common very fine altered feldspar grains in part, trace black carbonaceous flecks and fine detritus, trace crystalline calcite veining in part, trace to common micromica, moderately hard, subfissile. SANDSTONE, (10%) off white to light brown grey, very fine to fine, subangular to subrounded, moderately sorted, moderate silica and calcareous cements, abundant off white argillaceous matrix – matrix supported, abundant altered feldspar grains, trace to common green grey brown red and black volcanogenic lithics, trace quartz grains, trace fine brown mica flakes, trace to common black carbonaceous detritus, hard, no visual porosity, no oil fluorescence.	25 – 125 (50) (97:2:1:tr:tr)
Fluorescence	Nil in the sandstone, but: The detrital coal has no fluorescence but gives a weak dull yellow crush cut.	
2285 – 2327 (13)	SILTY CLAYSTONE, (90%) light to medium grey to medium brown grey to slightly medium green grey, often common very fine altered feldspar grains, trace black carbonaceous flecks and detritus, common micromica, moderately hard, subfissile. SANDSTONE, (10%) off white to light brown grey, silty to 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 to common black carbonaceous detritus, hard, no visual porosity, no oil fluorescence.	10 – 44 (22) (97:2:1:tr:tr)
Fluorescence	Nil in the sandstone, but: The detrital coal has no fluorescence but gives a weak dull yellow crush cut.	

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2327 – 2386 (10)	SILTY CLAYSTONE, (95%) medium grey to medium brown grey to medium green grey, common very fine altered feldspar grains in part, trace black carbonaceous flecks and detritus, common micromica, moderately hard, subfissile. SANDSTONE, (5%0 off white to light brown grey, silty to very fine, 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.	10 – 41 (18) (95:2:2:1:tr)
Fluorescence	Nil in the sandstone, but: The detrital coal has no fluorescence but gives a weak dull yellow crush cut.	

Fluorescence		

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Fluorescence		