



DAILY GEOLOGICAL REPORT

WELL: Glenaire-1ST1 **REPORT No.:** 38 **DAYS FROM SPUD:** 38 **DATE:** 16/10/06
PL: PEP 160 **0000 hrs Depth:** 3267 m **LAST DEPTH:** 3207 m **PROGRESS:** 60 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 3279m (slide and rotate to control hole angle).

PREVIOUS 24 Hours Operations: RIH to shoe, circulate, RIH, trip gas 4709units with oil cut mud, drill ahead (slide and rotate to control hole angle) to 3267m.

Comment: Bottoms up after trip 4709 units (61:10:14:10:5) with oil cut mud.

Survey at 3206m = 1.0 degrees at 172.45 degrees azimuth, 3249 = 0.9 degrees at 242.06 Azimuth.

Mud is salt saturated – further mud weight increases and maintenance will be with barite – mud weight increased to 11.0+ ppg.

Gas peak at 3215m of 4056 units (60:12:15:9:4) associated with probable minor fractures in silty claystone (very carbonaceous in part) - no flow, no oil in mud.

Connection gas peaks on all connections to 4500 units with traces of free oil in mud.

From 3261m well very slowly flowing gas and oil probably from the fractured interval around 3192m, flow checks negative – reservoir pressure appears to be depleting whilst drilling. The oil in the drilling mud gives a bright pale greenish yellow white fluorescence with a milky white cut, freezes at surface temperatures.

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
3207 – 3279 (5)	SILTY CLAYSTONE, (90%) medium to dark grey to medium brown grey, abundant very fine altered feldspar grains in part, trace black carbonaceous flecks and coaly detritus, common micromica, hard, subfissile. SANDSTONE, (10%) 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. COAL, (trace) black to very dark grey, very argillaceous in part, earthy to subvitreous lustre, irregular to blocky fracture, hard, brittle.	70 – 4436 (350) (60:12:15:9:4)
Fluorescence	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.	

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