



DAILY GEOLOGICAL REPORT

WELL: Glenaire-01 **REPORT No.:** 23 **DAYS FROM SPUD:** 23 **DATE:** 01/10/06
PL: PEP 160 **0000 hrs Depth:** 3290 m **LAST DEPTH:** 3230 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 3304m.

PREVIOUS 24 Hours Operations: Drill ahead with 152mm hole to 3290m.

Comment: Survey at 3255 = 14.1 degrees at N2.7E. Survey at 3275 = 18.1 degrees at N7.3W

From 3293-3303+m the cutting samples have common calcite lined fractures and minor quartz lined fractures. These gave 4337 units of total gas (60:8:13:12:7). Subsequently the mud weight was increased to 10.2 ppg. Best assessment based on currently available data is for this to be the parasitic edge of the main fault zone. Indications suggest the drilled section has only limited porosity interconnectivity.

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
3246 – 3304 (4)	<p>SILTY CLAYSTONE, (90%) 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, with from 3293m common calcite and occasional quartz lined fractures.</p> <p>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 fine black carbonaceous detritus, hard, no visual porosity, no oil fluorescence, with from 3293m common calcite and occasional quartz lined fractures.</p> <p>CARBONACEOUS CLAYSTONE, (trace) grey black, earthy texture, blocky to platy fracture, trace micromica, moderately hard.</p>	41 – 4337 (70) (60:8:13:12:7)
Fluorescence	The sandstone has dull orange mineral fluorescence, no cut. The detrital coal and carbonaceous claystone has no fluorescence but gives a very weak dull yellow crush cut.	

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