



DAILY GEOLOGICAL REPORT

WELL: Glenaire-1ST1 **REPORT No.:** 46 **DAYS FROM SPUD:** 46 **DATE:** 24/10/06
PL: PEP 160 **0000 hrs Depth:** 3688 m **LAST DEPTH:** 3648 m **PROGRESS:** 40 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: Wiper trip, prepare to drill ahead with 152mm hole from 3688m.

PREVIOUS 24 Hours Operations: Drill ahead with 152mm hole to 3688m, connection tight, wiper trip.

Comment:

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	3508	-1822	3746	-3670	238H
T.D.			3945	-3869	

Interval (m) ROP (ave) min/m	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
3654 – 3671 (2.2)	SILTY CLAYSTONE, (50%) medium grey to black to medium brown grey, moderately carbonaceous, trace black carbonaceous flecks and coaly detritus, trace to common micromica, hard, subfissile. SANDSTONE, (50%) off white, very fine to occasionally fine, angular to subrounded, moderately sorted, strong silica and moderate calcareous cements, abundant white argillaceous matrix –matrix supported, quartzose, abundant altered feldspar grains, trace green, orange and grey lithics, trace black coaly detritus, trace to abundant grey banded cryptocrystalline chert, hard, no visual porosity, no oil fluorescence.	25 – 64 (55) (81:5:6:5:3)
Fluorescence	The sandstone has dull yellow orange mineral fluorescence, no oil fluorescence or cut.	
3671 – 3674 (4.6)	KAOLINITIC SANDSTONE, (100%) off white, very fine to occasionally fine, angular to subrounded, moderately sorted, moderate silica and weak calcareous cements, abundant white argillaceous matrix –matrix supported, quartzose, abundant altered feldspar grains, trace black coaly detritus, trace grey banded cryptocrystalline chert, moderately hard, no visual porosity.	35 – 51 (50) (86:6:3:3:2)
Fluorescence	The sandstone has dull yellow orange mineral fluorescence, no oil fluorescence or cut.	
3674 – 3687 (2.0)	SILTY CLAYSTONE, (20%) medium grey to black to medium brown grey, moderately carbonaceous, trace black carbonaceous flecks and coaly detritus, trace to common micromica, hard, subfissile. SANDSTONE, (80%) off white, very fine to medium, dominantly fine – becoming coarser with depth, angular to subrounded, moderately sorted, strong to very strong silica and moderate calcareous cements, common to abundant white argillaceous matrix –matrix decreases with depth, quartzose, common to abundant altered feldspar grains, trace green, orange and grey lithics, trace black coaly detritus, hard, nil to very poor visual porosity, no oil fluorescence.	25 – 190 (45) (95:3:1:tr:tr)
Fluorescence	The sandstone has dull yellow orange mineral fluorescence, no oil fluorescence or cut.	



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