

ESSO Australia Pty Ltd

Date:	01/02/05	Last Casing:	9? " (244mm) @ 2527m
Report Number:	22	LOT:	16.6 ppg EMW (1.99 sg) at 9 5/8" casing
Report Period:	24hrs to 24:00 30/01/05	Current hole size:	8½" (216mm) from 2532m
Depth @ 2400 Hrs:	2844m MDRT	Mud Weight:	10.15 ppg (1.21 sg)
Last Depth:	2768m MDRT	ECD:	11.2 ppg (1.34 sg)
Progress:	76m	Mud Type:	KCl/PHPA/Glycol
TD Lithology:	Sandstone/Claystone	Mud Chlorides:	40,000
Water Depth:	52m	Mud Fluid Loss:	3.2
RT Elevation:	39.24m aMSL	Bit Type:	8½" HC insert MX3ODX

OPERATIONS SUMMARY

24 HOUR SUMMARY *Drilled ahead from 2768 to 2844m MDRT.*
00:00 - 24:00 hrs

05:00 hrs update (31/01/05) *Drilling 8½" hole at 2860mMDRT (2733.5m TVDRT)*

NEXT 24 HOURS: *Drill ahead 8 1/2" hole, POOH for bit and motor.*

GEOLOGICAL SUMMARY

▪ LITHOLOGIC DESCRIPTION:

INTERVAL m MDRT (m TVRT)	LITHOLOGY
2768 - 2844 (2649.8 - 2719.3) ROP: 2.1-22 m/hr (av. 3.3 m/hr)	Laminated to thinly bedded SANDSTONE, SILTSTONE & trace COAL. SANDSTONE: very light grey to mottled grey/brown, very fine to fine grained, well sorted, subangular to subrounded, weak to moderate siliceous cement, abundant white argillaceous matrix, common carbonaceous fragments, common lithic fragments, firm to moderately hard, poor to tight visual porosity, NO SHOWS. SILTSTONE: mottled pale grey/brown, argillaceous grading to claystone, arenaceous in part & grading to very fine grained sandstone, common carbonaceous fragments & laminations, moderately hard, subblocky to subfissile. COAL: black, dull to subvitreous, silty, blocky, brittle to moderately hard.

▪ HYDROCARBON FLUORESCENCE:

INTERVAL (m MDRT)	HYDROCARBON FLUORESCENCE
2768 - 2844	NO SHOWS

▪ GAS SUMMARY:

INTERVAL (m MDRT)	GAS TYPE	TOTAL GAS % Min - max (average)	C1 ppm Min - max (average)	C2 ppm min - max (average)	C3 ppm min - max (average)	iC4 ppm min - max (average)	nC4 ppm min - max (average)	C5 ppm min - max (average)
2768-2844	BKGD	0.06-0.82 (0.22)	318-6258 (1534)	25-381 (101)	18-177 (56)	8-55 (18)	5-34 (12)	5-27 (11)
2775	DGP	0.82	6258	381	177	55	34	27
2835	DGP	0.7	5294	330	159	34	25	11

Gas types as follows:- BKGD = background gas, DGP = drilling gas peak, WTG = Wiper Trip gas, and CG = connection gas

▪ SURVEYS:

m MDRT	Inclination	Azimuth	m TVDRT	m TVSS		
2766.75	25.6	177.87	2648.92	2609.68		
2795.87	25.09	178.27	2675.24	2636.0		
2824.87	24.62	179.06	2701.55	2662.31		

▪ PRELIMINARY FORMATION TOPS:

FORMATIONS	PROGNOSED DEPTHS (m)			ACTUAL DEPTHS (m)				
	MDRT	TVDSS	THICKNESS TV	MDRT	TVDSS	THICKNESS TV	HIGH/LOW to prognosis	DIFF m
Gippsland Limestone	91.2	52	748	91.2	52			
Lakes Entrance Fm	839.2	800	727	Indeterminate				
Latrobe Group	1566.2	1527		1579.0	1539.7		low	12.7
Top "L8" Reservoir	1956.9	1909						
Top Moonfish Volcanics	2023.3	1966	22	2046	1985.8	24	low	19.8
Base Moonfish Volcanics	2049.1	1988		2073	2008.4		low	20.4
Top sub-Moonfish Volcanics Reservoir	2068.9	2005		2085	2018.4		low	13.4
Top Remora Volcanics	2675.2	2523	60	2715	2563	8	low	39
Base Remora Volcanics	2745.4	2583		2724	2571		high	12
Total Depth	3362.2	3110						

Note: depths in bold type confirmed by E-Logs. Water depth = 52m (MSL to seabed), and RTE = 39.24m above MSL.

- **REMARKS / COMMENTS**

MWD sensor offsets:

Gamma - 12.67m
Resistivity - bit - 6.08m
Resistivity - ring - 13.03m
Resistivity - deep button - 13.20m
Directional - 19.12m
UltraSonic - 26.13m
Density - 26.51m
Porosity - 27.61m

Overpressure

Shale interval below sandstone (2755 - 2764 mMDRT) shows decreasing Dexp trend & decreasing resistivity trend compared with shale interval 2730 - 2755 mMDRT. No propeller shaped cuttings or connection gas evident.

Shell fragments

Checking for shell fragments in samples - none evident. No mineral fluorescence or carbonate reaction.

- **AIPC WELLSITE GEOSTAFF:**

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