

**ESOR # 2 COMPLETION REPORT**

**TENEMENT: ATP 619P**

**AUTHOR:T.W. FIELD**

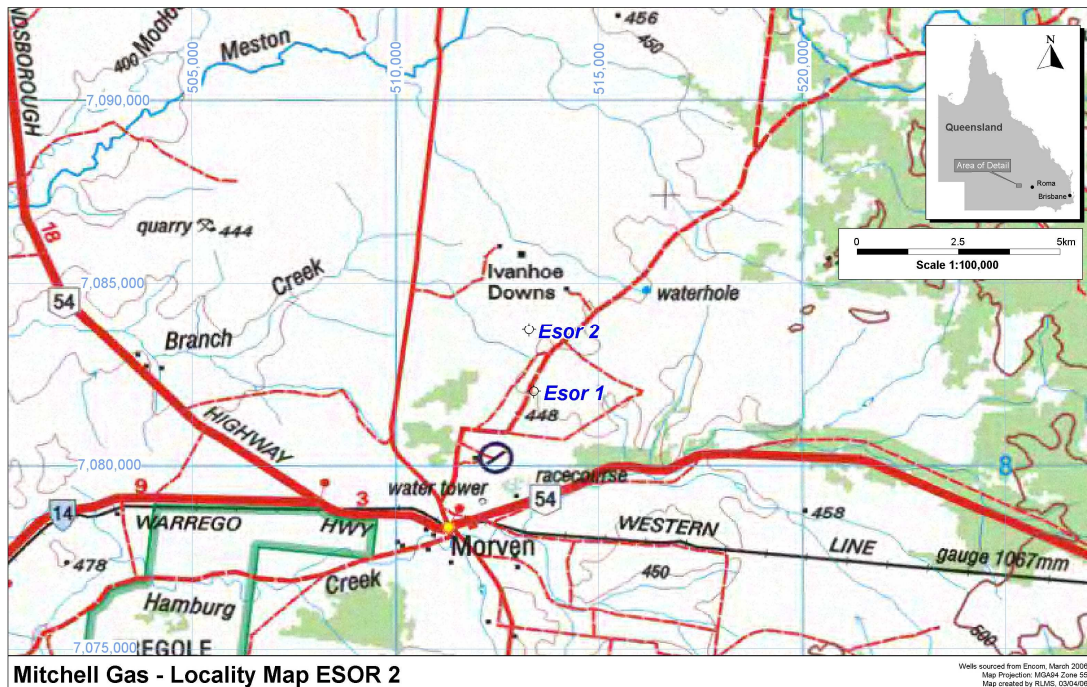
**SUBMITTED BY: MITCHELL GAS**

**03 /04 /2006**

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## REPORT



**Tenement:** ATP 619P

**Operator:** Mitchell Gas Pty Ltd, PO Box 869, Mount Ommaney, QLD 4074

**Well Name:** ESOR #2

**Geological Summary:**

The tenement lies to the west of the Nebine Ridge placing it within the sediments of the Eromanga Basin. In the past, large distances from recognised source kitchens and the perceived lack of mature petroleum source rocks has deterred exploration efforts in this area.

To the south in New South Wales a recent study has been undertaken to reprocess geophysical data and acquire new seismic data. This study has shown the existence of previously unrecognised troughs beneath the Eromanga Basin. The pre-Mesozoic fill of these structures is considered to be mainly Devonian aged, although possibilities for Permian-fill have been identified. The basement deeps may also contain thickened Mesozoic strata, however no stratigraphic data exists for these areas. Excellent porosities and permeabilities in the Hooray Sandstone have indicated the existence of reservoir rocks in the Mesozoic section. Geochemical analysis of the artesian waters attests to the presence and movement of hydrocarbons in regionally extensive aquifers in the Eromanga Basin.

We believe there is similar potential in the Morven area overlain by ATP619P and our exploration program is directed at obtaining stratigraphic information to indicate the hydrocarbon potential of the eastern margin of the Eromanga Basin.

**Well Data:**

Formation / Members	ESOR #2	
	KB	SS
Westbourne Fm	305	191.1
Adori Sandstone	354	142.1
Birkhead Fm	480	16.1
Hutton Sandstone	509.5	-13.4
<i>Lwr Hutton Sst (informal)</i>	616	-119.6
Evergreen Fm	684	-187.9
<i>Mid Evergreen Sst (informal)</i>	714	-217.9
Boxvale Member	736	-239.9
Basement (TD)	742	-245.9

**Well spudded:** 30 September 2004

**TD reached:** 4 October 2004

**Rig release:** 5 October 2004

**Drilling rig:** Mitchell Drilling Rig 150, Soilmec G-102

**Bit Record:**

Bit No	1	2	3
Size	15"	12.25"	8"
IADC Code	437		
Manufacturer	HTC	Geo Diam	Geo Diam
Type	tri cone		N60
Serial No.		8813HPSX	M88PX
Jets		8 x 16	
Depth out	11	111	746
Depth in	0	11	111
Total Drill	11	100	635

**Mud Record:**

Date	Type	Amount	Bags (kg)	Total (kg)
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30.9.04	Pac R	4	25	100
	Caustic	1	25	25
1.10.04	Gel	250	25	6250
	LCM	8	25	200
	KCl	40	25	1000
2.10.04	Pac R	5	25	125
	KCl	61	25	1525
	XD Polymer	1	25	25

**Well Status:**

Tenure Type (ATP or PL)	Tenure Number	BASIN	FIELD	WELL NAME	WELL STATUS on 1/03/06 (anniversary day)  P-Producing, S-Shut-in, O-Observation, A-Abandoned, W-Water
ATP	619P	Eromanga		ESOR 2	A

**Casing program**

	From	To
Conductor		
13 3/8"	0	11
Surface		
JTS 9 5/8" 40#	0	111

**Cementing**

Plugs set at	
Depth	Cement
720m	1493 litres
300m	1493 litres

**Geological Assessment**

The well intersected sediments of the eastern Eromanga Basin passing into basement at 746m. No hydrocarbon shows were recorded.

Well Diagram

