



<p>Status: Suspended</p> <p>Hole Size: 2¼" to 12.5m 8½" to 58m 6" to 604m 4.35" to 1050m 9⅝" to 12.5m 7" to 56.5m 5" to 601m 4" to 990.5m</p> <p>Perforations: Nil</p> <p>Plugs: Bottom hole plug 1050-1000m (Class "A" Cement)</p>	<p>Operator: Pacific Oil & Gas Pty Limited</p> <p>Participants: Pacific Oil & Gas Pty Limited 90% Omega Oil N.L. 10% (Non-Contributory Interest)</p> <p>Tenement: EP18</p> <p>Location: Lat: 16° 37' 13.6" South Long: 133° 34' 38.5" East AMG: Zone 53, 348 256.mE 8161 886mN</p> <p>Basin: Beetaloo sub-Basin, McArthur Basin Elevation: DF 230.5m AHD (Datum) Spudded: 8th October 1992 Rig Released: 7th November 1992 Rig: Rockdril Rig 23 Drilling Contractor: Rockdril Contractors</p>
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STRATIGRAPHY:

AGE	UNIT AND SUB-UNIT	MBDF (Logger)	Metres AHD (Logger)	Thickness (m)
Cretaceous/Tertiary	Undifferentiated Surface	3.5	227	49
Cambrian	Jinduckin Formation	52.5	174.5	29
	Tindall Limestone	81.5	145.5	181.5
	Antrim Plateau Volcanics	263	-36	83
	Bukalara Sandstone	346	-119	58
Proterozoic	"Hayfield Mudstone"	404	-177	450
	- "Hayfield Sand"	779.9 (to 790.0)	- 552.9	10.1
	"Jamison Sandstone"	854.0	-627	84.5
	McMinn Formation - Kyalla Member	938.5	-711.5	+111.5
Total Depth (Driller) (m)		1050	823	
Total Depth (Logger) (m)		1050	823	

FORMATION TESTS: CHOKER: N/A (Closed Chamber DST)

TEST	TIMES (min)				PRESSURES (psi)								RESULT
	PF	FSI	F	SSI	IHH	IPP	FPP	BP	IFP	FFP	FBP	FHH	
OUTSIDE GUAGE													
DST 1 777.55 to 790.5m	16	60	251	570	1163.2	709.4	709.7	1092.6	702.4	67.9	1043.2	1162	Recovered 4.5 litres oil and 24.5 litres oil and water cut at-hole mud
OUTSIDE GUAGE													
DST 2 879.78 to 887.07m	16	121	211	840	1324.0	720.4	727.8	1241.8	726.4	145.2	1207.4	1260.3	Recovered 80.5 litres foetid salty formation water

Note: Both tests were conducted using a nitrogen cushion which was blown down in stages during the main flow period

PF : Prewflow Period	IHH : Initial Hydrostatic Head	IFP : Initial Flow Pressure
FSI : First Shut In	IPP : Initial Prewflow Pressure	FFP : Final Flow Pressure
F : Flow Period	FPP : Final Prewflow Pressure	FBP : Final Build Up Pressure
SSI : Second Shut In	BP : Build Up Pressure	FHH : Hydrostatic Head

LOGS:			
TYPE LOG	RUN NO	INTERVAL (m)	DATE
RR2	1	55-14	8/10/92
	2	573-317	16/10/92
	3	340-106	16/10/92
	4	1048-600	4/11/92
MG1	2	573-317	16/10/92
	3	340-112	16/10/92
	4	1049-600	4/11/92
MS1	2	570-317	16/10/92
MS2	3	565-107	16/10/92
	4	1047-600	4/11/92
DD#3	4	1047-600	4/11/92
NN1	4	1048-Surface	4/11/92

ANALYSES

Type of Analysis	DPO No	Comments
Core Photography	78141	"Hayfield Mudstone", 701.72-706.53m
	78142	"Hayfield Sand"
	78149	Oil zone in "Jamison Sandstone"
Whole Oil Analysis	78143	Oil recovered from DST#1, 777.55-790.5m
Water Analysis	78143	Mud recovered from DST#1, 777.55-790.5m
	78145	Water recovered from DST#2, 879.78 - 887.07m
	78146	Mud filtrate from mud sample taken prior to DST#1
Oil Analysis (Gas chromatography)	78143	Oil recovered from mud samples, DST#1
	78145	Oil recovered from water sample, DST#2
Gas Analysis	78149	Oil recovered from core, 880.92-881.20m
	78144	Gas sample taken during final chamber blowdown, DST#1
	78145	Gas sample taken during final chamber blowdown, DST#2
Core Analysis	78148	1m samples through the "Jamison Sandstone"
	78149	5 samples through the oil zone in the "Jamison Sandstone"
	77801	3 whole core, 22 plug samples through the "Hayfield Sand"
TOC, Rock Eval Pyrolysis	78150	19 samples in the Kyalla Member

SUMMARY & CONCLUSIONS:

Balmain 1 was designed to test a lateral resistivity anomaly identified using the compensated transient electromagnetic (CTEM) technique. The anomaly was interpreted to occur at the approximate depth of the "Jamison Sandstone" which flowed minor amounts of oil and gas in **Jamison 1**. A secondary objective existed within a sandy interval near the base of the "Hayfield Mudstone" which flowed minor amounts of gas in **Jamison 1** and **Mason 1**.

The well came in within expectations down to the base of the Cambrian Tindall Limestone. The Antrium Plateau Volcanics were thinner and the Bukalara Sandstone thicker than prognosed. These thickness changes, compared with previous well intersections, appear to be a facies effect as the "Hayfield Mudstone" came in only 16m high to prognosis.

Horizons within the Proterozoic section came in significantly lower than prognosed. Fluorescence and oil bleeds were common in fractures and siltstones in the "Hayfield Mudstone" below 637.6m (Driller) and oil was recovered from the "Hayfield Sand". It is possible that this zone of hydrocarbons caused the lateral CTEM anomaly at this location. The "Jamison Sandstone" came in 50.7m low to prognosis and was water wet. The "Jamison Sandstone" was approximately 14m thinner than that intersected in **Jamison 1** and **Mason 1**. This appears to be a facies rather than structural effect.

Balmain 1 was suspended such that further formation evaluation and possibly reservoir stimulation can be carried out in the future.

WELLSITE GEOLOGIST: S.A. Menpes	CARD PREPARED BY: S.A. Menpes	APPROVED BY:	DATE:
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