Pacific Oil & Gas Pty Limited

WELL: **Shortland 1**
CRAE No: RD92MB24

Status: Plugged and abandoned

Hole Size: 12¼" to 59m
8½" to 553.5m
6" to 1020m (T.D.)

Casing & Tubing Details:
13 3/8" Conductor Surface to 9m
9 5/8" to 59m
7" to 532.2m

Perforations: Nil

Plugs: Plug No. 1 960-840m (Class "A" Cement)
Plug No. 2 570-490m (Class "A" Cement)
Surface Plug 45m to cellar floor (Class "A" Cement)

Operator: Pacific Oil & Gas Pty Limited

Participants: Pacific Oil & Gas Pty Limited 90%
Omega Oil N.L. 10% *

Tenement: EP18

Seismic Location: Line MA91-109; S.P. 600

Location: Lat: 16°44'47.924" South
Long: 133°41'14.354" East
AMG: Zone 53, 360 077.0E 8148 003.6N

Basin: Beetaloo sub-Basin, McArthur Basin
Elevation: (DF) 267.7m (Datum) G.L.:264.2m AHD
Spudded: 13 November 1992
Rig Released: 3 December 1992
Rig: Rig 23
Drilling Contractor: Rockdril Contractors

STRATIGRAPHY: *(NB: Non-Contributory Interest)

AGE	UNIT AND SUB-UNIT	MBDF (Logger)	Metres AHD (Logger)	Thickness (m)
Tertiary/ Cretaceous	Undifferentiated	Surface (3.5)	264.2	60.0
Cambrian	Jinduckin Formation	63.5	204.2	60.5
	Tindall Limestone	124.0	143.7	231.5
	Antrim Plateau Volcanics	355.5	- 87.8	131.5
Proterozoic	"Cambrian Sandstone"	487.0	-219.3	3.6
	"Hayfield Mudstone"	490.6	-222.9	400.7
	"Jamison Sandstone"	891.3	-623.6	89.7
	McMinn Formation - Kyalla Member	981.0	- 713.3	39.0+
Total Depth (Driller) (m)		1020	752.3	
Total Depth (Logger (m)		1018	750.3	

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

TEST	TIMES (min)				PRESSURES (psi)								RESULT
	PF	FSI	F	SSI	IHH	IPP	FPP	BP	IFP	FFP	FBP	FHH	
DST 1	6	121	237	660	Inside gauge								Recovered approx
817.87-836.0m					1183.7	677.2	673.2	893.1	676.3	97.5	630.7	1185.8	8 litres of formation
					Outside Gauge								water cut rat-hole mud.
					1214.9	708.3	703.3	923.5	708.0	126.9	660.9	1187.3	Gas was present in tool.
					Recovery Gauge								
					-	675.8	675.6	-	674.5	85.0	-	-	

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

LOGS: CORES:

TYPE LOG	RUN NO	INTERVAL (m)	DATE	NO	INTERVAL (m)	RECOVERY	NO	INTERVAL (m)	RECOVERY
Velocity Data									
Well Shoot	1	12.0 - 38.0	13/11/92						
BPB	1	12.7 - 59.0	13/11/92						
RR2									
Velocity Data	1	38.0 - 316.0	21/11/92						
Well Shoot									
Schlumberger									
DLL-GR-BHC-			30/11/92						
MSFL-SP	1	50.0 - 1515.5	30/11/92						
LDL-CNL-NGS	1	532 .0 - 1017.0	30/11/92						
DIL	1	532 .0 - 1016.0	30/11/92						
Well Shoot WST	1	67.7 - 1010.0	2/12/92						

Chemical Analysis (water, oil, gas)

DST 1
Water samples, three samples (3229799 - 3229801) were submitted for standard water analysis.

Gas samples, two samples (3229802 and 3229803) were submitted for gas analysis.

Summary & Conclusions:

Shortland 1 was designed to test a structural closure interpreted from seismic, approximately 9 kilometres west north-west of **Jamison 1**. The well came within expectations down to the base of the Antrim Plateau Volcanics. Below the Volcanics the "Cambrian Sandstone" is interpreted to be present. It should be noted however, that this section in **Shortland 1** was drilled without returns and the presence or absence of this sand can only be deduced by correlating wireline logs from the nearby wells.

Below the Antrim Plateau Volcanics the well passed into the claystones and siltstones of the "Hayfield Mudstone". The section drilled from the top of the "Hayfield Mudstone" to total depth, is as expected, very similar to that drilled in the surrounding wells, with the data from **Mason 1** giving very good geological control whilst drilling **Shortland 1**, once several correlatable features had been intersected.

The observation that the well was approximately 84 metres low to prognosis at the top "Jamison Sandstone" level indicates a questionable seismic interpretation over this prospect. A post drilling review of the seismic has identified a problem in the interval velocities in determining depths within the Proterozoic section at this locality. This is likely to change the form of the structure as presently mapped and hence the structural integrity of the prospect. Conclusions as to the relative absence of hydrocarbon cannot be drawn.

Only poor to fair hydrocarbon shows were encountered in the reservoir targets and only small recoveries of gas are inferred from DST data, similar to the result at **Mason 1**. It is noteworthy that minor gas is reservoired within the basal "Hayfield Mudstone" sands at both **Shortland 1** and **Mason 1** where no apparent structure exists.

The well was plugged and abandoned.

Bottom hole temperature = 58.9°C

WELLSITE GEOLOGISTS:	CARD PREPARED BY:	APPROVED BY:	DATE:
Shane Hibbird Sandy Menpes John Torkington	Shane Hibbird		