**Status:** Plugged and Abandoned

**Hole Size:**
- 12 1/4" to 9.8m
- 8 1/2" to 162.93m
- 6 1/2" to 410.36m
- 4.35" to 1766.05m

**Casing & Tubing Details:**
- 9 5/8" to 9.8m
- 7" to 156.36m
- 5" to 409.10m

**Perforations:** None

**Plugs:**
- 940 - 770m
- 440 - 360m
- 45 - Surface

All plugs neat Class "A" slurry

**Operator:** Pacific Oil & Gas Pty Limited

**Participants:**
- Pacific Oil & Gas Pty Limited 90%
- Fardi Pty Ltd 10%

**Tenement:** EP18

**Location:**
- Lat: 16°46'54.7" S
- Long: 133°45'57.5" E

**Basin:** McArthur Basin (Beetalo Sub-Basin)

**Elevation:** 263.4m AHD (Drill Floor)

**Spudded:** October 10, 1990

**Rig Released:** December 23, 1991

**Rig:** Rig 20

**Drilling Contractor:** Rockdrill Contractors

**Seismic Line:** SH90-101 shot-point 410

**Stratigraphy:**

<table>
<thead>
<tr>
<th>Age</th>
<th>Unit and Subunit</th>
<th>DF (m)</th>
<th>MSL (m)</th>
<th>Thickness (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tertiary/Cretaceous</td>
<td>Undifferentiated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cambrian</td>
<td>Tindall Limestone</td>
<td>77</td>
<td>185.4</td>
<td>295</td>
</tr>
<tr>
<td></td>
<td>Antrim Plateau Volcanics</td>
<td>372</td>
<td>-108.6</td>
<td>103.62</td>
</tr>
<tr>
<td></td>
<td>Bukalara Sandstone (equivalent)?</td>
<td>475.62</td>
<td>-212.22</td>
<td>25.84</td>
</tr>
<tr>
<td>Proterozoic</td>
<td>Chambers River Formation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>McMinn Formation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Bukalorkmi Sandstone Member</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Kysilla Member</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Moroak Sandstone Member</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Depth (Driller) (m):** 1766.85

**Total Depth (Logger) (m):** 1769

**Formation Tests:**

<table>
<thead>
<tr>
<th>TEST</th>
<th>TIMES (min)</th>
<th>PRESSURES (psi)</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PF</td>
<td>FSI</td>
<td>F</td>
</tr>
<tr>
<td>DST-1 804.8-818.8m</td>
<td>15</td>
<td>60</td>
<td>430</td>
</tr>
<tr>
<td>DST-2 868-895m</td>
<td>15</td>
<td>60</td>
<td>295</td>
</tr>
<tr>
<td>DST-3 865.9-930.5m</td>
<td>15</td>
<td>60</td>
<td>450</td>
</tr>
<tr>
<td>DST-4 889.3-904.6m</td>
<td>360</td>
<td>1080</td>
<td>1644</td>
</tr>
</tbody>
</table>

**PF:** Preflow Period

**PSL:** Initial Hydrostatic Head

**FSL:** First Static Level

**FPP:** Initial Preflow Pressure

**FBP:** Final Build Up Pressure

**SSI:** Second Static In

**BP:** Build Up Pressure

**FPH:** Hydrostatic Head

**IPF:** Initial Preflow Pressure

**FPF:** Final Preflow Pressure

**IFP:** Initial Flow Pressure
LOGS:

<table>
<thead>
<tr>
<th>Type Log</th>
<th>Run No</th>
<th>Interval (m)</th>
<th>Date</th>
<th>No</th>
<th>Interval (m)</th>
<th>Recovery</th>
<th>No</th>
<th>Interval (m)</th>
<th>Recovery</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spontaneous Potential</td>
<td>1769-400</td>
<td>21/12/90</td>
<td>Hole continuously cored from 410.20m to 1766.83m (below drilling floor)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Dual Resistivity</td>
<td>1769-400</td>
<td>21/12/90</td>
<td>8.54</td>
<td>10.22</td>
<td>4.17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gamma Ray</td>
<td>1767-Surface</td>
<td>22/12/90</td>
<td>9.22</td>
<td>10.22</td>
<td>4.17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bulk Density</td>
<td>1767-400</td>
<td>22/12/90</td>
<td>9.22</td>
<td>10.22</td>
<td>4.17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Neutron Porosity</td>
<td>1767-400</td>
<td>21/12/90</td>
<td>9.22</td>
<td>10.22</td>
<td>4.17</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sonic</td>
<td>1767-400</td>
<td>21/12/90</td>
<td>9.22</td>
<td>10.22</td>
<td>4.17</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CORES:

Chemical Analysis (water, oil, gas)

Gas Analysis: Samples from DST's 1, 2, 3, 4, 4
Water Analysis: Samples from DST's 2, 3, 4, and from water bore (make up water)
Oil Analysis: Samples extracted from DST liquids (2.3, 3.4) and extracted from core 800-1700m
Source Rock Analysis: 58 samples throughout well
Reservoir Analysis: 76 samples throughout well

Summary & Conclusions:

After spudding in undifferentiated Tertiary/Cretaceous sediments the Jamison 1 stratigraphic well penetrated a thickened Cambrian section comprising Tindall Limestone, Antrim Plateau, Volcanics and a thin Bukalara Sandstone (equivalent) before reaching Proterozoic sediments just below 500m. The current interpretation of the Proterozoic section is as follows:

Chambers River Formation (370m thick) is dominantly a sandstone which passes gradationally down into a 98m thick Bukalara Sandstone Member of the Mclean Formation with a basal conglomerate. This overlies a 745m thick Kyalla Member which, in turn, passes gradationally into the Moroak Sandstone Member, of which 52m was drilled before the drilling was terminated and the well plugged and abandoned.

Jamison 1 confirmed the existence of the gravity-inferred Beetaloo Sub-Basin, confirming the southward extension of Roper Group sediments. It has provided the thickest and most complete stratigraphic section of the uppermost Roper Group, revealing previously unknown source and reservoir potential. In doing so, Jamison 1 has confirmed the possibility of migrating Proterozoic oil into a reservoir and then sealing/preserving it.

Light, relatively dry gas and oil of 34.6 API gravity were recovered from DST's in small amounts.

WELL SITE: Kevin Lanigan
GEOLOGIST: John Torkington
CARD PREPARED BY: Kevin Lanigan
APPROVED BY: 
DATE: 

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