1.0 GENERAL INFORMATION

Well Name: Shenandoah-1A
Well Classification: Gas Exploration
Title Holders: Falcon Oil & Gas Australia Ltd.
Permit / State: EP98, N.T (Figure 1.A)

Figure 1.A Map of Australia showing location of the Beetaloo Basin, Permit area and Shenandoah-1A
**Geographical Location:** The Shenandoah-1A well is located within the Beetaloo Basin, approximately 500 km SE of Darwin, Northern Territory (NT) Australia or 45km SE of Daly Waters (Figure 1.B)

- Latitude: 16° 37’ 22.16” S
- Longitude: 133° 34’ 38.22” E (GDA 94)
- Easting: 348248m
- Northing: 8161624m (MGA 94, Zone 53k South)

**Seismic Station:** 200m SW of SP 1725, Line MC92-100 (Balmain-1)

Figure 1.B Map of Shenandoah-1A location within permit area.
Drilling Contractor & Rig: Australia Drilling Services, Rig-6
Ground / RT Elevations: GL 226.8m AHD / RT 231m
Deviation: Vertical Well, Max deviation = 3.5degrees @ 1277m
Proposed TD: 2714.3m RT, -2483.3m SSTVD
Actual TD Driller: 2703mMDRT, -2471.9 mSSTVD
Actual TD Logger: 2703mMDRT, -2471.9 mSSTVD
Drilling Fluids: Australian Mud Company Ltd
Mud Logging Services: Geoservices
Cementing Services: Halliburton Energy Services
Completion Services: Halliburton Energy Services and Boots & Coots
Well Testing Services: SGS Australia Pty Ltd
Wireline Logging/Perforating: Crocker Tucker Energy Services
Casing Summary: Safety Factor = 1.1 applied to burst, collapse and tension parameters in following; Table I

<table>
<thead>
<tr>
<th>Size (m)</th>
<th>Weight #/ft</th>
<th>Grade</th>
<th>Connection</th>
<th>ID (in)</th>
<th>Drift (in)</th>
<th>Burst (psi)</th>
<th>Collapse (psi)</th>
<th>Tension (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20&quot;</td>
<td>94</td>
<td>H-40</td>
<td>BTC</td>
<td>19.124</td>
<td>18.936</td>
<td>1391</td>
<td>472</td>
<td>443,000</td>
</tr>
<tr>
<td>13 3/8&quot;</td>
<td>54.5</td>
<td>K-55</td>
<td>BTC</td>
<td>12.615</td>
<td>12.459</td>
<td>2482</td>
<td>1027</td>
<td>497,000</td>
</tr>
<tr>
<td>9 5/8&quot;</td>
<td>47</td>
<td>K-55</td>
<td>BTC</td>
<td>8.681</td>
<td>8.525</td>
<td>4290</td>
<td>3528</td>
<td>678,000</td>
</tr>
<tr>
<td>4 1/2&quot;</td>
<td>15.1</td>
<td>P-110</td>
<td>Vam Top</td>
<td>3.826</td>
<td>3.70</td>
<td>14,420</td>
<td>14340</td>
<td>485,000</td>
</tr>
</tbody>
</table>

Significant Dates:
Spud Date: 12:00 hrs, 14/09/2011
TD Reached: 05:00 hrs, 18/09/2011
Rig Released: 24:00 hrs, 22/09/2011
Stage 1 commence: 14/10/2011
Stage 2 commence: 19/10/2011
Stage 3 commence: 28/10/2011
Stage 4 commence: 30/10/2011
Stage 5 commence: 31/10/2011
Plug and Abandon: 07/11/2011
Well Test Objectives:

Stage 1; 2529-2548 mMDRT, Middle Velkerri Lower B
Stage 2; 2481-2498 mMDRT, Middle Velkerri B
Stage 3; 1837-1910 mMDRT, Moroak Deltaic Sandstone
Stage 4; 1728-1780 mMDRT, Moroak Fluvial Sandstone
Stage 5; 1631-1649 mMDRT, Lower Kyalla

Drilling Supervision:

Matt Hoover (APEX Engineering Services)

Stimulation and Testing Supervision:

Bill Anthony & John Harkrider (APEX Engineering Services)

Geological Supervision:

Darrell Hoyer & Garry Lavold (Falcon Oil and Gas)

Well Status:

Plugged & Abandoned; 7 November, 2011 (Figure 1.C)

Plug and Abandonment:

Each tested interval is isolated with a cast iron bridge plug (CIBP) set at;

- 2252.0 mMDRT
- 1952.0 mMDRT
- 1815.0 mMDRT
- 1660.0 mMDRT
- 1575.0 mMDRT

On top of the shallowest CIBP a 15m long cement plug was set, which was followed by another 15m long surface cement plug (Figure 1.C).
**Figure 1.C Plug and Abandonment Schematic of Shenandoah-1A**

**Conductor:** 20" OD, 34# wt., H-40, BTC  
Pre-Set @ 20 m  
17-1/2" Hole

**Surface Casing:** 13-3/8" OD, 54.5# wt., K-55, BTC  
Shoe set @ 312.11 mKB  
12-1/4" Hole

**Intermediate Casing:** 9-5/8" OD, 47# wt., K-55, BTC  
Shoe set @ 1553 m  
8-1/2" Hole

**Casing Total Depth (TD):** 2714 m  
BHT: 114° C, 237° F

**Note:** Rotary Table to Ground Level was 4.2 m

All Bridge Plugs were pressure tested with 9800 psig.