

## **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)

<u>Figure 1.A Map of Australia showing location of the Beetaloo Basin, Permit area and Shenandoah-1A</u>





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)

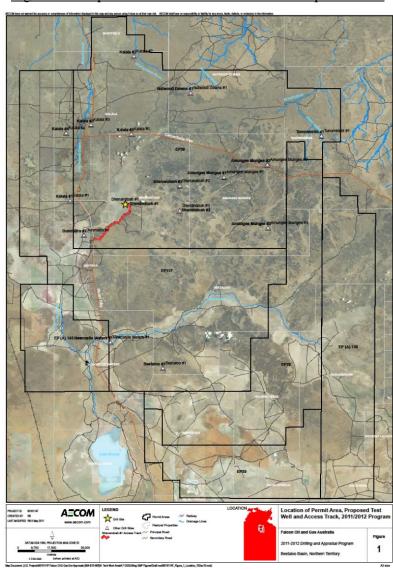


Figure 1.B Map of Shenandoah-1A location within permit area.



**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 mSSTVDActual 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

Size	Depth	Weight	Grade	Connection	ID	Drift	Burst	Collapse	Tension
	(m)	#/ft	psi		(in)	(in)	(psi)	(psi)	(lbs)
20"	20	94	H-40	ВТС	19.124	18.936	1391	472	443,000
13 3/8"	420	54.5	K-55	ВТС	12.615	12.459	2482	1027	497,000
9 5/8"	1553	47	K-55	ВТС	8.681	8.525	4290	3528	678,000
4 1/2"	2714	15.1	P-110	Vam Top	3.826	3.70`	14,420	14340	485,000

**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 Bill Anthony & John Harkrider (APEX Engineering

**Supervision:** 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

