



## DAILY GEOLOGICAL REPORT

**WELL:** Shenandoah #1 **REPORT No.:** 45 **DAYS FROM SPUD:** 45 **DATE:** 14/09/07  
**PEL:** EP 98 **00:00 DEPTH:** 1555mKB **LAST 24hr DEPTH:** 1555mKB **24 hr Progress:** 0m  
**LOCATION:** Beetaloo Basin **RIG:** Century Rig 7 **KB: (Final Survey)** 232.55m **13<sup>3</sup>/<sub>8</sub>" Csg:** 312.11m  
**GEOLOGIST:** M. Berry **GL: (Final Survey)** 226.75m **PTD:** 2,900m

**NEARBY WELLS:** Balmain #1 (Twin)

**06:00 Depth/Operation:** 1555mKB / Rig up Schlumberger .

**Operations 00:00 to 06:00:** POOH for logging run number 3.

**Previous 24 Hours Operations:** Following the wireline log acquisition, RIH, circulate and condition the mud and ream to bottom. POOH to do logging run 3 to acquire logs over the bottom 80m of open hole.

Formation Tops	Actual Depths (m)			Prognosed Depths (m)			Diff to Prog. H/L	Thickness (m)
	MDKB	TVD	TVDSS	MDKB	TVD	TVDSS		
Undifferentiated Tertiary	5.8	5.8	+227	5.8	5.8	+227	-	45.7
Jinduckin Formation	51.5	51.5	+181.3	54.8	54.8	+178	3.3H	32.7
Tindall Limestone	84.2	84.2	+148.6	83.8	83.8	+149	0.4L	179.3
Antrim Volcanics	263.5	263.5	-31.0	265.3	265.3	-32.5	1.5H	84.0
Bukalara Sandstone	347.5	347.5	-115.0	348.3	348.3	-115.5	0.5H	58.0
Hayfield Mudstone	405.5	405.5	-173.0	406.3	406.3	-173.5	0.5H	374.5
Hayfield Sand	780.0	780.0	-547.5	782.2	782.2	-549.4	1.9H	(10.0)
Jamison Sandstone	856.0	856.0	-623.5	856.3	856.3	-623.5	0	83.5
Kyalla Formation	939.5	939.5	-707.0	940.8	940.8	-708.0	1.0H	
Moroak Sandstone				1551.8	1551.8	-1319		
Velkerri Formation				1641.8	1641.8	-1409		
Bessie Creek Sandstone				2481.8	2481.8	-2249		
Total Depth				2900.0	2900.0	-2667.2		

**Remarks:** Highlighted tops are from Wireline logs. Trip Gas at 1500m = 114.7 units.

C1 = 13,895ppm, C2 = 2,968ppm C3 = 927ppm, iC4 = 84ppm, nC4 = 179ppm, iC5 = 30ppm, nC5 = 11ppm.

Interval (m) ROP (min/m)	Lithology Description	Gas/B'ground Breakdown C1/C2/C3/C4/C5
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**Formation: No New Formation Penetrated**

		<b>TG @ 1500m=</b> <b>114.7 units</b>
<b>Fluorescence</b>	Nil	
<b>Gas Flaring</b>	Nil	