



DAILY GEOLOGICAL REPORT

WELL: Shenandoah #1 **REPORT No.:** 43 **DAYS FROM SPUD:** 43 **DATE:** 12/09/07
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 3/8" Csg:** 312.11m
GEOLOGIST: M. Berry **GL:** (Final Survey) 226.75m **PTD:** 2,900m

NEARBY WELLS: Balmain #1 (Twin)

06:00 Depth/Operation: 1555mKB / Began POOH after reaming operations in preparation to log the well.
Operations 00:00 to 06:00: Continue reaming the interval from 580m to 650m until all obstructions are clear.
Previous 24 Hours Operations: Continue to POOH in preparation for wireline logging. Rig up Schlumberger and begin to RIH at 1:45pm. Schlumberger unable to pass through 600m due to an obstruction in the borehole and, after multiple attempts at differing run speeds, Schlumberger POOH and laid down tools. RIH with 12 1/4" bit and BHA down to 580m and began reaming the interval through 600m.

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	178.8
Antrim Volcanics	263.0	263.0	-30.5	265.3	265.3	-32.5	2.0H	85.0
Bukalara Sandstone	348.0	348.0	-115.5	348.3	348.3	-115.5	0.0	58.0
Hayfield Mudstone	406.0	406.0	-173.5	406.3	406.3	-173.5	0.0	375.9
Hayfield Sand	782.5	782.3	-549.7	782.2	782.2	-549.4	0.3L	(10.5)
Jamison Sandstone	855.0	854.8	-622.2	856.3	856.3	-623.5	1.3H	85.0
Kyalla Formation	940.0	939.8	-707.2	940.8	940.8	-708.0	0.8H	
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: Schlumberger operations: 1:45pm; Begin to RIH with PEX suite. At 2:10pm tools hung up on solid obstruction at 600m. Continued to try and break through the obstruction with multiple attempts using a variety of speeds up to 9000 ft/hr. At 3:00pm, after consultation with town, the decision was made to POOH with the logging tools and ream this section of the hole. At 3:25pm the tools were at surface and laid down.

Interval (m) ROP (min/m)	Lithology Description	Gas/B'ground Breakdown C1/C2/C3/C4/C5
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Formation: Lower Kyalla Shale

	DESCRIBED IN PREVIOUS DAILY GEOLOGICAL REPORT (09/09/07)	
Fluorescence	Nil	
Gas Flaring	Nil	