



## DAILY GEOLOGICAL REPORT

**WELL:** Shenandoah #1      **REPORT No.:** 18      **DAYS FROM SPUD:** 18      **DATE:** 18/08/07  
**PEL:** EP 98      **00:00 DEPTH:** 328mKB      **LAST 24hr DEPTH:** 307mKB      **24 hr Progress:** 21m  
**LOCATION:** Beetaloo Basin      **RIG:** Century Rig 7      **KB: (Final Survey)** 232.55m      **13<sup>3/8</sup>" Csg:** - m  
**GEOLOGIST:** J Hulse      **GL: (Final Survey)** 226.75m      **PTD:** 2,900m

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

**06:00 Depth/Operation:** 328mKB / Continue to run 13<sup>3/8</sup>" casing.  
**Operations 00:00 to 06:00:** Run 13<sup>3/8</sup>" casing  
**Previous 24 Hours Operations:** Drill ahead 17 1/2" hole from 307mRT to 326mRT, wiper trip to surface, drill 2m more due to more depth required for casing, TD 17 1/2" hole section at 328mRT, prepare to run casing.

Formation Tops	Actual Depths (m)			Prognosed Depths (m)			Diff to Prog. H/L	Diff to Balmain H/L
	MDKB	TVD	TVDSS	MDKB	TVD	TVDSS		
Undifferentiated Tertiary	5.8	5.8	+227	5.8	5.8	+227	-	-
Jinduckin Formation	51.5	51.5	+181.3	54.8	54.8	+178	+3.3	+3.3
Tindall Limestone	84.2	84.2	+148.6	83.8	83.8	+149	-0.4	-0.4
Antrim Volcanics	263.0	263.0	-30.5	265.3	265.3	-32.5	-2.0	-2.0
Bukalara Sandstone				348.3	348.3	-115.5		
Hayfield Mudstone				406.3	406.3	-173.5		
Hayfield Sand				782.2	782.2	-549.4		
Jamison Sandstone				856.3	856.3	-623.5		
Kyalla Formation				940.8	940.8	-708		
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:** Distinctive dark brown to red brown semi translucent grains at 305-315mKB may be a useful marker to Top Bukalara. Insufficient data for existing holes but may prove useful in future penetrations.

Interval (m) ROP (min/m)	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
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**Formation:** Antrim Volcanics

307 - 315mKB 3m/hr	Volcanics (100%): Minor light – medium grey moderately hard moderately fresh. 50% calcareous – non calcareous multicoloured weathering / alteration clays, 50% dark brown – red brown semi translucent grains, vug / fracture secondary mineralisation?	Nil
315 – 328mKB	Volcanics (100%): Predominantly light - medium grey, minor dark grey, very fine, hard, sub platy, common sub conchoidal fracture, common disseminated black phenocrysts, minor orange weathering clays, minor white silicic soft minerals (secondary?).	
<b>Fluorescence</b>	Nil	
<b>Gas Flaring</b>	Nil	



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## 06:00 SUMMARY

**Formation:** Antrim Volcanics

	<b>NO NEW FORMATION</b>	Nil
<b>Fluorescence</b>	Nil	
<b>Gas Flaring</b>	Nil	