



DAILY GEOLOGICAL REPORT

WELL: Shenandoah #1 **REPORT No.:** 8 **DAYS FROM SPUD:** 8 **DATE:** 08/08/07
PEL: EP 98 **00:00 DEPTH:** 130m **LAST DEPTH:** 106.8m **PROGRESS:** 23.2m
LOCATION: Beetaloo Basin **RIG:** Century Rig 7 **KB:** (Final Survey) 232.55m **9 5/8" Csg:** m
GEOLOGIST: M. D. Berry **GL:** (Final Survey) 226.75m **PTD:** 2,900m

NEARBY WELLS: Balmain #1

06:00 Depth/Operation: RIH after repairing the rotary drive shaft to continue drilling the 17 1/2" hole section.
Operations 00:00 to 06:00: POOH carefully and repair the rotary drive shaft.
Previous 24 Hours Operations: Make up new hammer and RIH to 93m. Start circulating but hammer not functioning. POOH with hammer, make up rotary bit and BHA and RIH. Hole tight so had to ream from 15m. Insert rotary rubber at 72m and continue reaming tight hole. Tag bottom at 1700hrs. Drill ahead to 130m. At that depth the drive shaft bolts for the rotary table sheared and drilling stopped. Began to POOH prior to repairing the rotary drive shaft.

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				265.3	265.3	-32.5		
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		

Interval (m) ROP (min/m) Average ROP	Lithology Description	Gas/Background Breakdown C1/C2/C3/C4/C5
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Formation: Tindall Limestone

106.8 -130m ROP: 0.7 – 6.4 Min/m Ave = 3.0	Limestone: 95-90%: White, buff, pale yellow and pale grey, hard, angular and blocky, variably granular, sucrosic texture (calciarenite), also microcrystalline and locally sparry, becoming micritic in part, dolomitic in part, locally with intra-crystalline porosity development, no show. Siltstone: 5-10%; white, pale grey and pale red brown, firm to hard, blocky, no calcareous or dolomitic, slightly arenaceous with isolated fine to medium sand grains.	BG = Nil
Fluorescence	No Fluorescence	
Gas Flaring	No Flare	



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Formation:

Fluorescence		
Gas Flaring		