



DAILY GEOLOGICAL REPORT

WELL: Shenandoah #1 **REPORT No.:** 3 **DAYS FROM SPUD:** 3 **DATE:** 03/08/07
PEL: EP 98 **00:00 DEPTH:** 30mKB **LAST 24hr DEPTH:** 26mKB **PROGRESS:** 4m
LOCATION: Beetaloo Basin **RIG:** Century Rig 7 **KB:** (Provisional) 232.8m **9 5/8" Csg:** m
GEOLOGIST: M. D. Berry **GL:** (Provisional) 227.0m **PTD:** 2,900m

NEARBY WELLS: Balmain #1

06:00 Depth/Operation: 38mKB / Drilling ahead with air in 17 1/2" hole.
Operations 00:00 to 06:00: Clean the bit. Install a rotating head and rubber and run in the hole with the drilling assembly. Blow hole clean and begin air drilling 17 1/2" hole.
Previous 24 Hours Operations: Weld diverter to conductor, weld flanges and small section of blooie line. Make up 17 1/2" bit and drilling assembly and RIH. Wait on rotary seal for mud pump number 2. Drill out the shoe and drill ahead with mud to 31.4m. Trip out of the hole to clean the bit.

Formation Tops	Actual Depths (m)			Prognosed Depths (m)			Diff Prog. H/L	Diff to PV-2 H/L
	MDKB	TVD	TVDSS	MDKB	TVD	TVDSS		
Undifferentiated Tertiary	5.8	5.8	+227	5.8	5.8	+227	-	-
Jinduckin Formation				54.8	54.8	+178		
Tindall Limestone				83.8	83.8	+149		
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: Undifferentiated Tertiary and Cretaceous

20-30m ROP: 6.5-32.0 min/m Av= 20 min/m	Claystone; 70%; pale grey to white, pale yellow, pink to light reddish brown, soft to firm, locally variegated, amorphous, loc blocky, non calcareous, locally with very fine to medium scattered sub-rounded quartz grains embedded. Sandstone; 30%; predominantly clear grains, also pale yellow and milky white, unconsolidated, no evidence of cement, predominantly fine to medium, also coarse grains, sub-angular to moderately well rounded, locally frosted, minor pitting, good inferred porosity, no show.	BG = Nil
Fluorescence	No Fluorescence	
Gas Flaring	No Flare	



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Formation:

Fluorescence		
Gas Flaring		