

**DAILY GEOLOGICAL REPORT**DATE: 16 Dec 2009  
REPORT NO.: 13  
( associated DDR # 13 )**WELL: CBM93-004**

RIG	Wallis Rig D 39	RIG TYPE	Land
COMPLETION TYPE	Single Gas Producer	TARGET	Test gas potential of Puni Coal Measures
Depth at Midnight (MD)	552.0 m	SPUD DATE	04 Dec 2009
DAYS SINCE SPUD	12.39 ( Days on well: 15.00)	LAST CASING	4.500 in @ 501.0 m MD
PRESENT DEPTH MD	557.6 m	BACKGROUND GAS	Unit
24 Hr Progress (Geology)	9.0 m	MAX GAS	Unit
AVERAGE ROP	4.70 m/h	MUD WEIGHT	8.80 sg (WBM)
Operations Status @ 0600hrs	Drill core 15	ECD	
PROGNOSED TD	1,350.0m MD 1,350.0m TVD	ESTIMATED PORE PRESSURE	

**Well Details**

Latitude:	24.00° 52.00' 10.92' South	UTM(N/S):	RT - MSL:	186.00 m DF MSL
Longitude:	135.00° 50.00' 59.64' East	UTM(E/W):	GL Elevation:	185.0 m

**Operations Summary and General Remarks**

OPERATION SUMMARY:	6 cores cannistered since 2400hrs, from last two cores, meaningfull results obtained by results suggest low gas content at this stage. Gas during drilling only trace.
NEXT OPERATION:	Coring ahead

**Casing Run**

OD	LOT/FIT	Csg Shoe (MD/TVD)	Remarks
7"	sg / sg	245.51 m / 245.51 m	
4 1/2"	sg / sg	501.00 m / 501.00 m	4 1/2" 114mm 10.8ppf Range 1 Ozcom Vam

**Lithology Summary**

Interval MDBRT (m)	Lithology	%	Description
From	To		
			Coal intersected at 545.5m, see core description IDS data base

**Prognosis and Preliminary Correlation**

Top	Actual Depth (186.00 m DF MSL)			Prognosis	H/L	Pick Criteria	Remarks
	MD	TVD	MDSS				
Namba Formation	1.00	1.00	-185.00		N/A		
Eyre Formation	28.00	28.00	-158.00		N/A		
Winton Formation	35.00	35.00	-151.00		N/A	Change to grey claystone	Top placed halfway through 10m sample interval
MacKunda Fm	95.00	95.00	-91.00		N/A	Presence of glauconite fragments in claystone	Top placed halfway through 10m sample interval
Oodnadatta Formation	276.00	276.00	90.00		N/A	First appearance of Inoceramus fragments	
Bulldog Shale	357.00	357.00	171.00		N/A	Non calcareous	
Cadna-owie Fm	406.00	406.00	220.00	435.00	29.0 H	Coarse loose sandstone	
Algebuckina Sandstone	424.00	424.00	238.00		N/A	Coarse friable sandstone	
Purni Formation	498.00	498.00	312.00	550.00	52.0 H		

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Top	Actual Depth (186.00 m DF MSL)			Prognosis	H/L	Pick Criteria	Remarks
	MD	TVD	MDSS	MD			
						Claystone below m-c sandstone	

**Core**

Core #:	12	Start Depth (MD):	543.0 m
Formation:	Purni Formation	End Depth (MD):	546.0 m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	1.1 m
Encapsulation Type:			
Shipping:			
Comments:			
Core Description:	544.9m to 545.5m Sandstone, light grey, friable, very fine to medium predom medium subang to ang, slight to moderate kaolin content, excellent visual porosity 545.5m to 546m Coal, dark grey black, dull, moderately hard, compact		

**Core**

Core #:	13	Start Depth (MD):	546.0 m
Formation:	Purni Formation	End Depth (MD):	552.0 m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	0.6 m
Encapsulation Type:			
Shipping:			
Comments:			
Core Description:	551.36m - 552m Coal, Dark Grey to black, dull, moderately hard, compact		

**Well Geologist**

Michael Harrison