



DAILY GEOLOGICAL REPORT

DATE: 30 Dec 2009
 REPORT NO.: 27
 (associated DDR # 27)

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)	930.0 m	SPUD DATE	04 Dec 2009
DAYS SINCE SPUD	26.39 (Days on well: 29.00)	LAST CASING	4.500 in @ 501.0 m MD
PRESENT DEPTH MD	947.0 m	BACKGROUND GAS	Unit
24 Hr Progress (Geology)	51.0 m	MAX GAS	Unit
AVERAGE ROP	3.80 m/h	MUD WEIGHT	1.04 sg (WBM)
Operations Status @ 0600hrs	Coring ahead	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:	<p>Circulated and pulled tools free after DST 4 (874.2 - 879m). Cored from 879 - 930m</p> <p>Interbedded siltstones and fine sandstones with common plant material including leaves above coal at 890.8 - 892.5. Mostly thick bedded slightly friable coarse - medium grained sandstone with soft white clay matrix, some porosity, becoming finer and siltier below 922, with a few thin coals below 922m</p> <p>Total gas unreliable, but rose from 0 - 1 unit below 901m to a max of 38 units at 911m, then dropping to 7 - 12 units from 918 - 938m. Chromatograph gas trace only, no C1</p>
NEXT OPERATION:	Core ahead to TD, wiper trip, log.

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) From To	Lithology	%	Description
879.00 - 922.10	Sandstone	0 - 100	Sandstone Very light grey, coarse - medium quartzo feldspathic sandstone, friable with difficulty, uniform, soft clay matrix, common muscovite and biotite, rare pink garnet. Mottled grey and white appearance.

Gas Readings

Depth (m)	Total Gas (ppm)	BGG (ppm)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	iC5 (ppm)	nC5 (ppm)
879.00 - 930.00			-	-	-	-	-	-	-

Comment- No reliable readings - C1 <1ppm

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



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

Core			
Core #:	82	Start Depth (MD):	879.0 m
Formation:	Purni Formation	End Depth (MD):	882.0 m
Contractor:	Wallis Drilling	Core Diameter:	61 mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	3.0 m
Encapsulation Type:			
Shipping:			
Comments:			
Core Description:	879.0 - 879.05m; Coal, as above 870.05 - 879.45m; Claystone, 65%, light grey, interbedded with Carbonaceous Claystone, 30%, with laminations of Sandstone, 5%, light grey, fine 879.45 - 882.0m; Sandstone, 70%, light grey, fine, interbedded with Claystone, light grey		

Core			
Core #:	83	Start Depth (MD):	882.0 m
Formation:	Purni Formation	End Depth (MD):	888.0 m
Contractor:		Core Diameter:	61 mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	5.6 m
Encapsulation Type:			
Shipping:			
Comments:			
Core Description:	882.0 - 883.9m; Sandstone, 80%, light grey, medium, occasional coal wisps, interlaminated with Claystone, 20%, light grey 883.9 - 888.0m; Claystone, 70%, grey, silty, interlaminated with Siltstone, 20%, light grey, plus Sandstone, 10%, light grey, fine as laminae within claystone		

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Core #:	84	Start Depth (MD):	888.0 m
Formation:		End Depth (MD):	894.0 m
Contractor:		Core Diameter:	61 mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	6.4 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 888.0 - 890.0m; Claystone, 70%, grey, silty, interlaminated with Siltstone, 20%, light grey, plus Sandstone, 10%, light grey, fine as laminae within claystone
890.0 - 892.46m; Coal, dull, few bright bands, slightly fractured, includes thin siltstone/claystone bands in middle
892.46 - 894.0m; Claystone, 70%, light grey, interbedded with sandstone, light grey, fine.

Core

Core #:	85	Start Depth (MD):	894.0 m
Formation:	Purni Formation	End Depth (MD):	900.0 m
Contractor:		Core Diameter:	61 mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	6.0 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 894.0 - 900.0m; Claystone, 70%, light grey, interbedded with sandstone, light grey, fine.

Core

Core #:	86	Start Depth (MD):	900.0 m
Formation:		End Depth (MD):	906.0 m
Contractor:		Core Diameter:	61 mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	6.0 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 900.0 - 906.00m; Claystone, 70%, light grey, interbedded with sandstone, light grey, fine.

Core

Core #:	87	Start Depth (MD):	906.0 m
Formation:	Purni Formation	End Depth (MD):	912.0 m
Contractor:		Core Diameter:	61 mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	6.0 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 906.0 - 912.0m; Claystone, 70%, light grey, interbedded with sandstone, light grey, fine.

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Core #:	88	Start Depth (MD):	912.0 m
Formation:	Purni Formation	End Depth (MD):	918.0 m
Contractor:		Core Diameter:	61 mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	6.0 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 912.0 - 918.0m; Sandstone, 90%, light grey, fine, with siltstone and carbonaceous claystone

Core

Core #:	89	Start Depth (MD):	918.0 m
Formation:	Purni Formation	End Depth (MD):	924.0 m
Contractor:		Core Diameter:	61 mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	100.0 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 918.0 - 922.07m; Sandstone, 90%, light grey, fine, with siltstone and carbonaceous claystone
922.07 - 922.65m; Coal, black, brown carb claystone bands, dull, minor bright laminae, slightly fractured
922.65 - 924.0m Sandstone, 90%, light grey, fine, with interlaminations of Siltstone, 10%, and carbonaceous claystone.**Core**

Core #:	90	Start Depth (MD):	924.0 m
Formation:		End Depth (MD):	930.0 m
Contractor:		Core Diameter:	61 mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	6.0 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 924.0 - 930.0m; Sandstone, 90%, light grey, fine, with interlaminations of Siltstone, 10%, and carbonaceous claystone.

Well Geologist

Graham McClung