



DAILY GEOLOGICAL REPORT

DATE: 26 Dec 2009
 REPORT NO.: 23
 (associated DDR # 23)

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)	793.0 m	SPUD DATE	04 Dec 2009
DAYS SINCE SPUD	22.39 (Days on well: 25.00)	LAST CASING	4.500 in @ 501.0 m MD
PRESENT DEPTH MD	811.0 m	BACKGROUND GAS	2.00 Unit @ 750.0 m
24 Hr Progress (Geology)	20.0 m	MAX GAS	Unit
AVERAGE ROP	5.00 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>POOH to retrieve gauges from testing equipment. Hole losing mud to formation. Add LCM, continue to pull out. Losses reduced. Build up mud volumes, displace LCMs, RIH - 14m of sandy fill on bottom. Clean hole and core to 793m. Thief zone and source of sand probably friable porous sandstone between shoe at 501m and 545m</p> <p>Coal and carbonaceous shale interbedded with siltstone, claystone and minor sandstone. Coal from 766.88 - 794.0m with common carb claystone, occasional siltstone, claystone and sandstone bands (27.1m),</p> <p>Minimal drilling gas, air contamination. Best 24.6ppm C1, 2ppm C2 at 776m. Desorption gas 400ml or less, tests still in progress.</p>
NEXT OPERATION:	Core ahead to suitable coal for DST 4

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
773.00 - 793.00	Coal, minor carb clstn, sltstn & clstn		Coal Coal, grading to and interbedded with carbonaceous claystone, with occasional bands of siltstone, claystone and rare medium - coarse sandstone. See core descriptions for more detail.

Gas Readings

Depth (m)	Total Gas (ppm)	BGG (ppm)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	iC5 (ppm)	nC5 (ppm)
774.00 - 778.00			0 - 25	0 - 2	-	-	-	-	-

Comment- Gas data unreliable

Prognosis and Preliminary Correlation

Top	Actual Depth (186.00 m DF MSL)			Prognosis MD	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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Prognosis and Preliminary Correlation

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 #:	60	Start Depth (MD):	773.1 m
Formation:	Purni Formation	End Depth (MD):	774.0 m
Contractor:	Wallis Drilling	Core Diameter:	61 mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	0.9 m
Encapsulation Type:			
Shipping:			
Comments:			
Core Description:	773.12 - 774.00m; Claystone, carbonaceous, black, firm, fractured, grading to coal		

Core

Core #:	61	Start Depth (MD):	774.0 m
Formation:	Purni Formation	End Depth (MD):	780.0 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:	774.0 - 777.8m; Coal, 80%, black, dull with occasional bright bands and laminae, abundant woody fragments as above, interbedded with and grading to carbonaceous claystone, black, vertical fractures in both 777.8 - 780.0m; Sandstone, 60% light grey, interbedded with siltstone, 30%, light grey hard, and dark grey laminae of claystone, 10%. Fining upward overall		

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Core #:	62	Start Depth (MD):	780.0 m
Formation:	Purni Formation	End Depth (MD):	786.0 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: 780.0 - 783.3m; As above. Sandstone, 60% light grey, interbedded with siltstone, 30%, light grey hard, and dark grey laminae of claystone, 10%. Fining upward overall
783.3 - 784.14m; Coal, 80% dull, occasional bright bands and laminae, fractured, slightly pyritic, grading to carb mudstone, 20%
784.14 - 784.48m; Siltstone, 70%, interbedded with & grading up from sandstone, 30%, light grey, medium
784.48 - 786.0m; Coal, 90%, and carbonaceous claystone, 10%, as above

Core

Core #:	63	Start Depth (MD):	786.0 m
Formation:	Purni Formation	End Depth (MD):	792.0 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: 786.0 - 792.0m; Coal, as above, 90% dull, occasional bright bands and laminae, fractured, slightly pyritic, grading to carb mudstone, 10%.

Well Geologist

Graham McClung