

**DAILY GEOLOGICAL REPORT**DATE: 31 Dec 2009  
REPORT NO.: 28  
( associated DDR # 28 )**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)	978.0 m	SPUD DATE	04 Dec 2009
DAYS SINCE SPUD	27.39 ( Days on well: 30.00)	LAST CASING	4.500 in @ 501.0 m MD
PRESENT DEPTH MD	947.0 m	BACKGROUND GAS	Unit
24 Hr Progress (Geology)	48.0 m	MAX GAS	Unit
AVERAGE ROP	4.50 m/h	MUD WEIGHT	1.04 sg (WBM)
Operations Status @ 0600hrs		ECD	
PROGNOSSED 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:	Core from 930 - 978m. Circulate, run wiper trip  Predominantly sandstone, alternating between uniform medium to coarse quartzo feldspathic with soft white clay matrix, and thinly bedded fine in part silty sandstone with claystone laminae. Minor coal and carb claystone, <0.5m thick except between 941.6 & 943.1m (1.5m). Total coal for well now approx 144m, cut off 1m thickness.  Predominantly sandstone, alternating between uniform medium to coarse quartzo feldspathic with soft white clay matrix, and thinly bedded fine in part silty sandstone with claystone laminae. Minor coal and carb claystone, <0.5m thick except between 941.6 & 943.1m (1.5m). Total coal for well now approx 144m, cut off 1m thickness.
NEXT OPERATION:	Complete wiper trip. Run wireline logs, check shot survey

**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

**Prognosis and Preliminary Correlation**

Top	Actual Depth (186.00 m DF MSL)			Prognosis	H/L	Pick Criteria	Remarks
	MD	TVD	MDSS	MD			
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 #:	93	Start Depth (MD):	930.0 m
Formation:	Purni Formation	End Depth (MD):	936.0 m
Contractor:	Wallis Drilling	Core Diameter:	61 mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	6.0 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 933.0 - 933.71m: Coal, black, brown bands, dull, bright bands, fractured  
933.71 - 936.0m; Sandstone, light Grey, fine grained, Interlaminated with Siltstone and Mudstone

**Core**

Core #:	94	Start Depth (MD):	936.0 m
Formation:	Purni Formation	End Depth (MD):	942.0 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: 936.0 - 941.15m; Sandstone, light Grey, fine grained, Interlaminated with Siltstone and Mudstone  
941.15 - 941.4m; Sandstone, Light grey, medium grained, with common carbonaceous laminae  
941.4 - 942m; Coal, black, brown bands, dull with bright bands & laminae, fractured

**Core**

Core #:	94	Start Depth (MD):	942.0 m
Formation:	Purni Formation	End Depth (MD):	948.0 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: 942.0 - 943.1m; Coal, black, brown bands, dull with bright bands & laminae, fractured  
943.1 - 947.7m; Sandstone, light grey, fine, and mid grey, silty, thick to thin bedded and laminated with dark grey  
claystone and siltstone  
947.7 - 948.0m; Coal, as above, interbedded & grading to carbonaceous claystone



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### Core

Core #:	95	Start Depth (MD):	948.0 m
Formation:	Purni Formation	End Depth (MD):	954.0 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: 948.0 - 948.05m; Coal, as above, interbedded & grading to carbonaceous claystone  
948.05 - 950.35m; Sandstone, light grey, fine, and mid grey, silty, thick to thin bedded and laminated with dark grey claystone  
950.35 - 954.0m; Sandstone, Very light grey, mottled white, coarse- medium, soft white clay matrix, quartzo feldspathic

### Core

Core #:	96	Start Depth (MD):	954.0 m
Formation:	Purni Formation	End Depth (MD):	960.0 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: 954.0 - 956.2m; Very light grey, mottled white, coarse- medium, soft white clay matrix, quartzo feldspathic  
956.2 - 959.0m; Sandstone, light grey, fine, and mid grey, silty, thick to thin bedded & laminated with claystone, carb in part, and mid grey siltstone.  
959.0 - 959.3m; Coal, Black, dull, 30% bright bands & lam, subfissile, fractured  
959.3 - 960.0m; Sandstone, light grey, fine and mid grey silty, thin bedded, claystone laminae. in part carbonaceous, leaf & wood fragments

### Core

Core #:	97	Start Depth (MD):	960.0 m
Formation:	Purni Formation	End Depth (MD):	966.0 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: 960.0 - 961.45m; Sandstone, light grey, fine and mid grey silty, thin bedded, claystone laminae. in part carbonaceous, leaf & wood fragments  
961.45 - 964.07m; Coal, black, dull, 30% bright bands & lam, subfissile, fractured, interbedded with carbonaceous claystone and grey siltstone in thin bands  
964.07 - 966.0m; Sandstone, light grey, fine, silty in part, with dark grey claystone laminae



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Core #:	98	Start Depth (MD):	966.0 m
Formation:	Purni Formation	End Depth (MD):	972.0 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: 966.0 - 969.08m; Sandstone, light grey, fine, silty in part, with dark grey claystone laminae  
969.08 - 969.35m; Siltstone, carbonaceous  
969.35 - 969.75m; Sandstone, mid grey, silty  
969.75 - 970.85m; Coal, black, dull, 30% bright bands & lam, subfissile, fractured, grading to carbonaceous claystone  
970.85 - 972.0m; Sandstone, very light grey, mottled white, coarse- medium, soft white clay matrix, quartzo feldspathic, thickly interbedded with sandstone, light grey, fine, silty in part, with claystone laminae, both sandstones in beds 0.5 - 0.8m

### Core

Core #:	99	Start Depth (MD):	m
Formation:		End Depth (MD):	m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 972.0 - 978.0m; Sandstone, very light grey, mottled white, coarse- medium, soft white clay matrix, quartzo feldspathic, thickly interbedded with sandstone, light grey, fine, silty in part, with claystone laminae, both sandstones in beds 0.5 - 0.8m

### Well Geologist

Graham McClung