



DAILY GEOLOGICAL REPORT

DATE: 15 Dec 2009
 REPORT NO.: 12
 (associated DDR # 12)

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)	540.3 m	SPUD DATE	04 Dec 2009
DAYS SINCE SPUD	11.39 (Days on well: 14.00)	LAST CASING	4.500 in @ 501.0 m MD
PRESENT DEPTH MD	543.0 m	BACKGROUND GAS	Unit
24 Hr Progress (Geology)	41.0 m	MAX GAS	Unit
AVERAGE ROP	5.50 m/h	MUD WEIGHT	8.80 sg (WBM)
Operations Status @ 0600hrs	Preparing to mill fish with corebit	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 top of Purni or perhaps Poolwana Formation from 503.5m. Core to 540.3m, bit sheared. Attempts to fish unsuccessful. Return in hole to mill fish.
NEXT OPERATION:	Wait on resumption of coring after clearing fish from hole.

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
503.50 - 540.00	Sandstone		Sandstone Between 503m and 519.5m predominant lithology is sandstone, fine to coarse, with common finely laminated zones, of siltstone, claystone and thin carbonaceous/ coaly laminae. A thin highly weathered coal to carbonaceous shale was intersected 519.2m (0.004m) .100% medium to coarse sandstone was cored below this point to 540m. Lost core occurred mainly as a result of coarser friable to unconsolidated sandstone dropping out of core barrel. Sandstone has excellent porosity, fine to very coarse (coarse to very coarse inferred by residual amounts on core adjacent to lost core)

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
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		



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Top	Actual Depth (186.00 m DF MSL)			Prognosis	H/L	Pick Criteria	Remarks
	MD	TVD	MDSS	MD			
Cadna-owie Fm	406.00	406.00	220.00	435.00	29.0 H	Non calcareous 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 #:	1	Start Depth (MD):	501.9 m
Formation:	Purni Formation	End Depth (MD):	503.4 m
Contractor:	WEATHERFORD AUSTRALIA PTY LTD	Core Diameter:	mm
Equipment:		Barrel Length:	6.0 m
Sleeve Type:		Amount Recovered:	m
Encapsulation Type:			
Shipping:			
Comments:	3.78" Core head No oil shows		
Core Description:	Top 0.55m was determined to be lost considered likely coarse loose sandstone, minor amounts present top of coal 502.45m - 503.4m Sandstone, light grey, friable, fine to medium, predominantly medium, slightly to moderately kaolinitic, trace mica, trace black lithic grains, excellent visual porosity		

Core			
Core #:	10	Start Depth (MD):	540.0 m
Formation:		End Depth (MD):	540.3 m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	m
Encapsulation Type:			
Shipping:			
Comments:			
Core Description:	No recovery		

Core			
Core #:	11	Start Depth (MD):	540.3 m
Formation:	Purni Formation	End Depth (MD):	543.0 m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	0.0 m
Encapsulation Type:			
Shipping:			
Comments:			
Core Description:	No recovery, presumed coarse very coarse unconsolidated sand		

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Core #:	2	Start Depth (MD):	503.4 m
Formation:	Purni Formation	End Depth (MD):	507.0 m
Contractor:	WEATHERFORD AUSTRALIA PTY LTD	Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	3.5 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 503.4 - 507m Sandstone, predominant lithology, with fine interbeds of medium grey Claystone, Siltstone, and very dark grey, carbonaceous ,coaly, clayey, micaceous, laminae. Bedding is oblique, occasionally cross bedded.

Core

Core #:	3	Start Depth (MD):	507.0 m
Formation:	Purni Formation	End Depth (MD):	512.8 m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	4.9 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 507 - 512.8m Sandstone predominant, interbedded with Claystone, medium grey, and thin dark carbonaceous laminae, with distinct beds of highly porous, fine to medium, angular to rounded, light grey Sandstone

Core

Core #:	4	Start Depth (MD):	512.8 m
Formation:	Purni Formation	End Depth (MD):	518.3 m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	1.9 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: 512.8 - 516.4 lost core
516.4 - 518.3m Sandstone, light grey, friable, predominantly medium grained. well sorted, slightly to moderately kaolinitic, trace muscovite mica, trace black lithic grains, excellent visual porosity, finer interbeds of dark grey Claystone, 20% with thin weathered coal at base

Core

Core #:	5	Start Depth (MD):	518.3 m
Formation:		End Depth (MD):	523.9 m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	5.3 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: Sandstone, light grey, friable fine to medium, excellent visual porosity as above

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Core #:	6	Start Depth (MD):	523.9 m
Formation:	Purni Formation	End Depth (MD):	525.0 m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	1.1 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: Sandstone, light grey, fine to medium, excellent porosity as previously

Core

Core #:	7	Start Depth (MD):	525.0 m
Formation:	Purni Formation	End Depth (MD):	530.8 m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	3.4 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: Sandstone, light medium, excellent visual porosity as previously, lost core appears to be coarse to very coarse unconsolidated Sandstone

Core

Core #:	8	Start Depth (MD):	530.8 m
Formation:	Purni Formation	End Depth (MD):	540.0 m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	3.2 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: Sandstone, light grey, medium, slightly to moderately kaolinitic, excellent visual porosity as above

Core

Core #:	9	Start Depth (MD):	534.0 m
Formation:	Purni Formation	End Depth (MD):	540.0 m
Contractor:		Core Diameter:	mm
Equipment:		Barrel Length:	m
Sleeve Type:		Amount Recovered:	1.6 m
Encapsulation Type:			

Shipping:

Comments:

Core Description: Sandstone, medium predominant with coarser sand dropping out of core barrel, excellent porosity

Well Geologist

Michael Harrison