



# DAILY GEOLOGICAL REPORT

DATE: 28 May 2010  
REPORT NO.: 12  
( associated DDR # 12 )

## WELL: CBM 93-002

RIG	Wallis Rig D 39	RIG TYPE	Land
COMPLETION TYPE		TARGET	Test gas potential of Purni Formation
Depth at Midnight (MD)	443.0 m	SPUD DATE	22 May 2010
DAYS SINCE SPUD	6.67 ( Days on well: 11.67)	LAST CASING	7.000 in @ 247.0 m MD
PRESENT DEPTH MD	513.0 m	BACKGROUND GAS	2.00 Unit @ 403.0 m
24 Hr Progress	138.70 m	MAX GAS	4.00 Unit @ 427.0 m
AVERAGE ROP	86,399.93 m/h	ECD	
Operations Status @ 0600hrs	Deilling ahead in 6 1/8" hole	ESTIMATED PORE PRESSURE	
PROGNOSSED TD	750.0m MD 750.0m TVD		

### Well Details

Latitude:	25.00° 21.00" 16.10' South	UTM(N/S):	RT - MSL:	159.30 m RT MSL
Longitude:	135.00° 26.00" 5.30' East	UTM(E/W):	GL Elevation:	158.0 m

### Operations Summary and General Remarks

OPERATION SUMMARY:	Attempted to land fish with overshot - unsuccessful twice. Plugged back hole to 389m. Drilled ahead in 6 1/8" hole to 443m, 4m below base of fish.
HYDROCARBON SHOWS:	Nil
NEXT OPERATION:	Drill ahead to 4.5 " casing point in 6 1/8" hole. Aim to drill through the uppermost Purni coal and run casing to just below its base

### Lithology Summary

Interval MDBRT (m) From To	Lithology	%	Description
		100	Poor returns and poor samples. Infer mostly medium and fine sandstone by comparison with sequence above and below. Includes a very hard band of unknown lithology between 441 and 442.2m
450.00 - 512.00	Sandstone	100	<b>Sandstone</b> 450 - 512m Sandstone as loose grains, medium or fine, quartz, clear, milky, trace light yellow, light brown, light pink, trace pink garnet, Trace carbonaceous fragments and coal, mostly in the lower 30m. Trace dark grey claystone and light grey lithic fragments
	Unknown		No returns from this interval. Drop in ROP suggests siltstone, claystone or clayey sandstone
519.00 - 522.50	Coal	100	<b>Coal</b> 519 - 522.5m Coal, black dull
	Sandstone fining up to claystone	100	522.5 - 525.5m Sandstone, medium to fine, quartzose with white clay matrix fining up through dark grey claystone to overlying coal

### Prognosis and Preliminary Correlation

Top	Actual Depth (159.30 m RT MSL)			Prognosis	H/L	Pick Criteria	Remarks
	MD	TVD	TVDSS				
Eyre Formation	4.00	4.00	-155.30	4.00	N/A		
Winton Formation	20.00	20.00	-139.30	60.00	40.0 H	Top grey claystones	Top may be unweathered Eyre Fmn
MacKunda Fm	198.00	198.00	38.70		N/A	First glauconitic sandstones, slightly calcareous	Top boundary clear, but could contain equivalents of Oodnadatta and Bulldog Formations
Cadna-owie Fm	291.00	291.00	131.70	484.00	193.0 H	Top first quartz sandstone	Very thin, indistinguishable from Algebuckina while drilling. Better defined on wireline logs
Algebuckina Sandstone	314.00	314.00	154.70	490.00	176.0 H	Second fast drilling	May include Poolowanna Formation and/or other early Mesozoic units



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Top	Actual Depth (159.30 m RT MSL)			Prognosis	H/L	Pick Criteria	Remarks
	MD	TVD	TVDSS	MD			
						break - no change in cuttings	

### Well Geologist

Graham McClung