



**DAILY GEOLOGICAL REPORT**

DATE: 27 May 2010  
 REPORT NO.: 11  
 ( associated DDR # 11 )

**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)	439.0 m	SPUD DATE	22 May 2010
DAYS SINCE SPUD	5.67 ( Days on well: 10.67)	LAST CASING	7.000 in @ 247.0 m MD
PRESENT DEPTH MD	439.0 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	86,759.93 m/h	ECD	
Operations Status @ 0600hrs	POOH after second fishing trip	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:	Repaired pump. Drilled ahead in Algebuckina Sandstone from 301 to 435m where ROP dropped dramatically. There was no obvious change in lithology apart from the appearance of numerous angular broken quartz grains. POOH to inspect bit - lowest collar & bit remained in hole after twist off. Ran fishing trips - no success
HYDROCARBON SHOWS:	Nil
NEXT OPERATION:	Set cement plug around fish. Kick off from about 400m and drill ahead to casing point in Purni, now expected around 500m+

**Lithology Summary**

Interval MDBRT (m) From To	Lithology	%	Description
370.00 - 400.00	Sandstone	100	<b>Sandstone</b> Note depth change at top from Day 10 report 370 - 400m Sandstone, as fine loose quartz grains, generally very well sorted, rounded to sub rounded with high % rounded but variable through interval. Rare carbonaceous fragments. Quartz clear, milky, trace light yellow or yellow brown.
400.00 - 410.00	Sandstone	100	<b>Sandstone</b> 400 - 410 Sandstone, as loose medium to fine quartz grains, becoming finer downwards and similar to overlying unit. Rare coal and carbonaceous fragments, quartz as above.
410.00 - 415.00	Sandstone	100	<b>Sandstone</b> 410 - 415m Sandstone as loose very coarse quartz grains, subangular to subrounded, well sorted. Quartz clear, milky, rare smoky, trace light yellow, trace light grey chert.
415.00 - 439.00	Sandstone	100	<b>Sandstone</b> 415 - 439 Sandstone, as 370 - 400m. Sample from last 5m affected by drilling problems and bottom depth subject to change once drilling recommences.

**Gas Readings**

Depth (m)	Total Gas (ppm)	BGG (ppm)	C1 (ppm)	C2 (ppm)	C3 (ppm)	iC4 (ppm)	nC4 (ppm)	iC5 (ppm)	nC5 (ppm)
408.00 - 434.00	400.000	200.00	-	-	-	-	-	-	-

**Comment-** No C1- C2 - probably exhaust contamination. CO2 2 units

**Prognosis and Preliminary Correlation**

Top	Actual Depth (159.30 m RT MSL)			Prognosis MD	H/L	Pick Criteria	Remarks
	MD	TVD	TVDSS				
Eyre Formation	4.00	4.00	-155.30	4.00	N/A	Top grey claystones	Top may be unweathered Eyre Fmn
Winton Formation	20.00	20.00	-139.30	60.00	40.0 H		
MacKunda Fm	198.00	198.00	38.70		N/A		



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Top	Actual Depth (159.30 m RT MSL)			Prognosis	H/L	Pick Criteria	Remarks
	MD	TVD	TVDSS	MD			
Cadna-owie Fm	291.00	291.00	131.70	484.00	193.0 H	First glauconitic sandstones, slightly calcareous	Top boundary clear, but could contain equivalents of Oodnadatta and Bulldog Formations
Algebuckina Sandstone	314.00	314.00	154.70	490.00	176.0 H	Top first quartz sandstone Second fast drilling break - no change in cuttings	Very thin, indistinguishable from Algebuckina while drilling. Better defined on wireline logs May include Poolowanna Formation and/or other early Mesozoic units

**Well Geologist**

Graham McClung