

Longtom-4 H



Date:	07-08-2008	Last Casing:	273 mm (10.¾") @ 2590.8 mMDRT
Report Number:	7	Leak Off Test:	1.64 sg EMW
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½")
Depth @ 2400 Hrs:	3791 mMDRT	Mud Weight:	1.45sg
Last Depth:	3577 mMDRT	ECD:	1.57sg
Progress:	214 m	Mud Type:	SOBM
TD Lithology:	Sandstone	Vis:	81 sec/qt
Water Depth:	55.97 m (LAT)	Mud Fluid Loss:	5.0cc/30min
RT Elevation:	41.06 m (LAT)	Bit Type:	REED RSX616M-A4

OPERATIONS SUMMARY

24 HOUR SUMMARY**00:00 - 24:00:**

Changed out saver sub on TDS and continued RIH from 2577m to 3129m - hole tight. Worked tight spots and washed and reamed from 3129m to 3289m. Continued RIH from 3289m to 3555m. Washed and reamed to 3577m and drilled as per DD from 3577m to 3791m (2626.8mTVD).

06:00 Update

Continued controlled drilling as per DD and Geology requirements from 3791m to 3915m.

NEXT 24 HOURS:

Continue drilling 9½" hole from 3791m

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
3577 – 3636 (2585.2 - 2583.6) ROP: 10–51m/hr	<p>Claystone with occasional thinly bedded Sandstones</p> <p>CLAYSTONE: (60-95%) medium grey to dark grey, soft to firm, predominantly bit generated texture, sub blocky to blocky, hygroturgid, trace finely disseminated carbonaceous material, non calcareous.</p> <p>SANDSTONE: (5-40%) very light grey to light grey, clear to translucent grains, returned loose, trace friable aggregates, very fine to predominantly fine grained, angular to sub rounded, moderate sphericity, well sorted, minor light grey argillaceous matrix, trace greyish black lithics, trace feldspars, trace carbonaceous fragments, poor visual and fair inferred porosity. No Shows.</p>
3636 – 3880 (2583.6 – 2596.1) ROP: 4-51m/hr	<p>Sandstone</p> <p>SANDSTONE: (100%) very light grey to light grey, clear to translucent grains, trace moderate reddish orange and light greenish grey, returned loose, trace friable aggregates, very fine to coarse grained, predominantly fine, common medium, rare coarse, angular to sub rounded, sub spheroidal, well sorted, trace light grey argillaceous matrix, very weakly calcareous (possible LCM contamination), rare greyish black lithics, trace moderate reddish brown lithics, trace feldspars, fair inferred porosity. No Shows.</p>

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
3577 - 3880	Nil

GAS SUMMARY:

INTERVAL (mMDRT)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
3577 – 3636m	0.07-0.17	529-1518	6-24	4-14	-	-	-	-
3636 – 3878	1.0-3.84	7356-32164	197-475	71-173	8-16	13-23	2-3	1-2
3653 Peak	5.27	47069	1180	385	50	53	12	8

SURVEYS

MD	ANGLE	Azi	TVD					
3799.79	83.81	184.62	2627.8					
3829.12	82.94	183.90	2631.1					
3859.22	84.01	183.23	2634.6					

FORMATION TOPS

WD = 55.97 m LAT RTE = 41.06 m LAT								
FORMATION	PROGNOSSED DEPTHS (m)			ACTUAL DEPTHS (m)				
	MDRT	TVDSS	THICK	MDRT	TVDSS	H/LO	THICK	DIFF
Sea Floor/ Gippsland Limestone	78.5	-57	n/a	97.0	-55.97			
Lakes Entrance	-	-						
Latrobe	1299.2	-1223.8		1291	-1214.6	9.2 Hi		
K/T Boundary	-	-						
Un-named Volcanics	1690.5	-1561.7		1695	-1562.8	1.1 Lo		
Chimaera	1724.1	-1590.7		1710	-1575.8	14.2 Hi		
Kipper Shale	1757.4	-1619.5		1755	-1614.6	4.9 Hi		
Admiral Formation	2179	-1983.9		2215	-2015.9	32 Lo		
500 Sands	2287.8	-2077.7		2316	-2101.7	24 Lo		
400 Sands	2418.8	-2187.3		2494	-2241.5	54.2 Lo		
300 Sands	2544.2	-2278.6		2610	-2316.6	37.7 Lo		
200 Sands	2696.3	-2367.2		2696.3	-2367.2			
100 Sands	2828.8	-2450.9		2828.2	-2449.6	1.3 Lo		
50 Sands	3092.2	-2659.9		3132.0	-2571.3	11.4 Lo		
Emperor Volcanics								
TD								

COMMENTS:

Ultrasonic Caliper giving erroneous readings from 3790mMD

MWD/LWD Sensor Offsets BHA # 8 (Anadrill), Bit # 11

Sensor	Distance to bit	Record Rate
Gamma Ray	9.69 m	2 seconds
Resistivity	12.73 m	2 seconds
Thermal Neutron Porosity	13.14 m	4 seconds
Density	10.95 m	4 seconds
Spectroscopy	13.29 m	4 seconds
Ultrasonic Caliper	11.32 m	4 seconds
Pressure Whilst Drilling	9.86 m	4 seconds
Direction & Inclination	20.07 m	

Water depth and RT elevation are referenced to LAT.

- RT to Sea Level (LAT) = 41.06m
- RT to Sea Bed = 97.03m
- Water Depth = 55.97m (LAT)

WELLSITE GEOLOGISTS: Cliff Menhennitt Hamish Little