

Longtom-4



Date:	02-07-2008	Last Casing:	406.4 mm (16") @ 750 mMDRT
Report Number:	6	Leak Off Test:	1.64 ppg EMW
Report Period:	24hrs to 24:00	Current hole size:	343 mm (13 1/2")
Depth @ 2400 Hrs:	2031 mMDRT	Mud Weight:	1.43 SG
Last Depth:	1720 mMDRT	ECD:	- SG
Progress:	311 m	Mud Type:	SOBM
TD Lithology:	Claystone	Vis:	72
Water Depth:	57.1 m	Mud Fluid Loss:	3
RT Elevation:	39.9 m	Bit Type:	REED RSX616M-A3

OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:

Drilled 13 1/2" to 2031m, unable to hold angle at 30 degrees. Circulated hole clean. POOH to change out Powerdrive. Lost 1.5 hours due to top drive RPM fault and 1 hour for cyber chair camera being inoperable.

06:00 Update

Continued to POOH to BHA. Hole in good condition. Flow checked at shoe and prior BHA at BOP'S. POOH with BHA, removed RA source from ADN tool.

NEXT 24 HOURS:

Change out Powerdrive, RIH and drill 13 1/2" hole to sectional TD at +/-2600m.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
1720-1755 (1585.6-1615.7) ROP: 15-100 m/hr Avg: 45 m/hr	<p>SANDSTONE, SILTSTONE, trace VOLCANICS:</p> <p>SANDSTONE (60-100%): white to very light grey, loose to soft, fine to granule, dominantly coarse to granule, moderately sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, common soft fine to medium grained aggregates with white to brown argillaceous matrix, carbonaceous in parts, minor to common rock flour, moderate inferred porosity. No shows.</p> <p>SILTSTONE (nil-40%): medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone.</p> <p>VOLCANICS (trace): white to orange clay, soft to firm, irregular masses, coarse to very coarse grain size, trace relict hornblende crystal form.</p>
1755-1805 (1615.7-1659) ROP: 11-44 m/hr Avg: 26 m/hr	<p>CLAYSTONE, SILTSTONE, minor SANDSTONE</p> <p>CLAYSTONE (20-95%): dark grey to olive black, soft, amorphous to subblocky, sticky, slightly silty.</p> <p>SILTSTONE (5-60%): medium grey to brownish grey, friable to moderately firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae, grading to argillaceous Siltstone.</p> <p>SANDSTONE (Tr-20%): white to very light grey, loose to soft, fine to granule,</p>

	dominantly coarse to granule, moderately sorted, angular to sub angular, minor sub rounded, low to moderate sphericity, common soft fine to medium grained aggregates with white to brown argillaceous matrix, carbonaceous in parts, minor to common rock flour, moderate inferred porosity. No shows.
1805-1865 (1659-1711.7) ROP: 10-66 m/hr Avg: 29 m/hr	CLAYSTONE with minor SANDSTONE CLAYSTONE (80-100%): dark grey to olive black, soft to moderately firm, amorphous to subblocky, trace to rare quartz silt, trace to rare carbonaceous fragments, non calcareous. SANDSTONE (0-20%): quartzose, light grey to medium light grey, friable, very fine to fine grained, sub angular to sub rounded, minor rounded, high sphericity, well sorted, weak siliceous cement, trace black lithic grains, poor visible porosity. No Shows
1865-1915 (1711.7-1755.5) ROP: 8-89 m/hr Avg: 48 m/hr	SANDSTONE with minor CLAYSTONE, trace COAL SANDSTONE (70-100%): quartzose, light grey to medium light grey, friable to firm aggregates, very fine to medium grained, sub angular to sub rounded, minor rounded, moderate to high sphericity, well sorted, weak siliceous cement, rare light grey to light brownish grey argillaceous matrix, trace black and moderate red lithic grains, trace weathered feldspar grains, trace coaly fragments, poor visible porosity. No Shows CLAYSTONE (0-25%): dark grey to olive black, soft to moderately firm, amorphous to subblocky, trace to rare quartz silt, trace carbonaceous fragments, non calcareous. COAL (0-5%): brownish black to black, firm, brittle, sub vitreous to vitreous lustre, earthy in part, common silt, interbedded in Sandstone.
1915-2015 (1755.5-1843.5) ROP: 6-41m/hr Avg: 23 m/hr	CLAYSTONE with minor SANDSTONE and COAL CLAYSTONE (60-100%): dark grey to olive black, soft, soft to moderately firm, amorphous to subblocky, trace quartz silt, trace carbonaceous fragments, non calcareous. SANDSTONE (Nil-15%, 30% at 1935m): quartzose, light grey to medium light grey, predominantly returned loose, trace friable to firm aggregates, very fine to fine grained, sub angular to sub rounded, minor rounded, moderate to high sphericity, very well sorted, rare light grey to light brownish grey argillaceous matrix, trace black and moderate red lithic grains, trace coaly fragments, poor visible porosity. No Shows. COAL (nil-5%, 40% at 2005m): brownish black to black, firm, brittle, sub vitreous to vitreous lustre, earthy in part, common silt.
2015-2031 (1843.5-1858.5) ROP: 7-31 m/hr Avg: 16 m/hr	SILTY CLAYSTONE with minor SANDSTONE SILTY CLAYSTONE (80-90%): medium to dark grey to olive black, soft to firm, amorphous to subblocky, minor flakey, silty, trace to common carbonaceous fragments, non calcareous. SANDSTONE (10-20%): as above. COAL (tr): as above. SILTSTONE (tr): pale to medium yellow brown, firm, blocky, argillaceous.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
1720 - 2031	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
1720-1755	0.01-0.04	18-145	3-10	1-7	-	0-2	0-tr	0-tr
1755-1805	0-0.05	38-761	5-30	2-24	0-2	1-4	-	0
1805-1865	0.03-0.06	91-530	6-23	5-13	0-1	0-2	0-tr	0-tr
1865-1915	0.03-0.08	101-573	5-10	3-6	0-1	-	0-tr	0-tr
1915-2015	0.01-0.04	66-1324	2-32	1-7	0-1	0-2	0-2	0-tr
2015-2031	0.01-0.03	88-316	1-4	1-3	0-tr	0-1	0-tr	0-tr

SURVEYS

MD	ANGLE	Azi	TVD					
1,938.97	29.25	182.37	1,816.36					
1,968.51	27.81	181.63	1,842.32					
1,998.05	27.26	181.66	1,868.51					

FORMATION TOPS

<i>WD = 57.1 m</i> <i>RTE = 39.9 m</i>								
FORMATION	PROGNOSED DEPTHS (m)			ACTUAL DEPTHS (m)				
	MDKB	TVDSS	THICK	MDKB	TVDSS	HI/LO	THICK	DIFF
Sea Floor/ Gippsland Limestone	78.5	-57	n/a	97.0	-57.1	0.1 Lo		
Lakes Entrance	-	-						
Latrobe	1299.2	-1223.8		1291	-1215.7	8.1 Hi		
K/T Boundary	-	-						
Un-named Volcanics	1690.5	-1561.7		1695	1563.9	2.2 Lo		
Chimaera	1724.1	-1590.7		1710	1576.9	13.8 Hi		
Kipper Shale	1757.4	-1619.5		1755	1615.7	3.8 Hi		
Admiral Formation	2179	-1983.9						
500 Sands	2287.8	-2077.7						
400 Sands	2418.8	-2187.3						
300 Sands	2544.2	-2278.6						
200 Sands	2595.3	-2310.9						
100 Sands	2682.0	-2361.9						
50 Sands	2789.9	-2425.0						
Emperor Volcanics	2849.4	-2459.7						
TD								

COMMENTS:

POOH at 2031m to change out PowerDrive due to poor directional control.

5m sample interval from 1600m.

MWD Sensor offsets;

Resistivity: 10.47m

GR: 10.52m

Directional: 18.94m

Density: 26.67m

Neutron: 27.5m

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward