Longtom-4

Date:	03-07-2008
Report Number:	7
Report Period:	24hrs to 24:00
Depth @ 2400 Hrs:	2049 mMDRT
Last Depth:	2031 mMDRT
Progress:	18 m
TD Lithology:	Silty Claystone
Water Depth:	56.0 m (below LAT)
RT Elevation:	41.1 m (above LAT)

Last Casing: Leak Off Test: Current hole size: Mud Weight: ECD: Mud Type: Vis: Mud Fluid Loss: Bit Type:



OPERATIONS SUMMARY

24 HOUR SUMMARY 00:00 - 24:00:	POOH, Laid out BHA, picked up and made BHA#5, RIH to 1960m. Logged down from 1960m -1989m, washed down to bottom. No Fill. Drilled 13 1/2" hole from 2031m - 2049m.					
06:00 Update	Drilled 13 1/2" hole from 2049m - 2270m.					
NEXT 24 HOURS:	Drill 13 1/2" hole to sectional TD at +/-2600m.					

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description				
2031-2049 (1858.5-1875.2)	SILTY CLAYSTONE with minor SANDSTONE				
ROP: 9-75 m/hr Avg: 48 m/hr	SILTY CLAYSTONE (90-95%): medium to dark grey to olive black, soft to firm, amorphous to subblocky, minor flakey, silty, grading in parts to argillaceous siltstone, trace to common carbonaceous fragments, non calcareous. At 2045-2049m, grading to claystone with minor silt fraction.				
	coarse, dominantly coarse, moderately sorted, subrounded quartz, with minor friable to firm aggregates, very fine to fine grained, sub angular to sub rounded, moderate to high sphericity, well sorted, rare light grey to light brownish grey argillaceous matrix, trace coaly fragments, poor visible porosity. No Shows				
2040.2005	CUAL (II): Drownish Diack to Diack, IIIM, Drittle.				
(1875.2-1887.9)	SILTY CLAYSTONE and CLAYSTONE with minor SANDSTONE				
ROP: 54-99 m/hr Avg: 79 m/hr	 SILTY CLAYSTONE (85-95%): medium to dark grey to olive black, soft to firm, amorphous to subblocky, minor flakey, silty, grading in parts to argillaceous siltstone, trace to common carbonaceous fragments, non calcareous. In parts grading to CLAYSTONE: medium to dark grey to olive black, dominantly soft to minor firm, amorphous to subblocky, minor flakey, trace to common carbonaceous fragments, non calcareous. SANDSTONE (5-15%): light grey to medium light grey, loose, medium to very coarse, dominantly coarse, moderately sorted, subrounded quartz, with minor friable to firm aggregates, very fine to fine grained, sub angular to sub rounded, moderate to high sphericity, well sorted, rare light grey to light brownish grey 				

	argillaceous matrix, trace coaly fragments, poor visible porosity. No shows. COAL (tr): brownish black to black, firm, brittle.
2065-2190 (1887.9-1995.7)	CLAYSTONE, SILTY CLAYSTONE and SANDSTONE
Avg: 72 m/hr	 CLAYSTONE (50-95%): medium to dark grey to olive black, dominantly soft to minor firm, amorphous to subblocky, minor flakey, trace to common carbonaceous fragments, non calcareous. Grading to SILTY CLAYSTONE medium to dark grey to olive black, soft to firm, amorphous to subblocky, minor flakey, silty, grading in parts to argillaceous siltstone, trace to common carbonaceous fragments, non calcareous. From 2135m, claystone becoming pale to medium brownish grey, soft, amorphous, sticky, trace carbonaceous material. SANDSTONE (5-50%): light grey to medium yellow grey, friable to soft, very fine to fine, minor medium, well sorted, sub angular to sub rounded, minor rounded quartz, trace lithics, in abundant soft white to light brownish grey argillaceous matrix, slightly calcareous in parts, trace coaly fragments, poor visible porosity. No shows.
2190-2215	SILTY CLAYSTONE with CLAYSTONE and SANDSTONE
(1995.7-2017.0) ROP [.] 21-88 m/br	SILTY CLAYSTONE (60.90%); modium to dark grow firm to moderately bard
Avg: 59 m/hr	argillaceous, trace carbonaceous material, in parts grading to pale to medium grey siltstone. CLAYSTONE (10-20%): pale to medium grey to brownish grey, soft, amorphous, sticky, trace carbonaceous material.
	SANDSTONE (10-30%): white to light grey, soft, very fine to fine well sorted
	subrounded quartz, abundant soft white silty argillaceous matrix, trace lithic grains, trace carbonaceous fragments, poor visible porosity. No show. Trace loose coarse quartz, trace pyrite clusters.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
2031-2215	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
2031-2049	0-0.22	26- 2180	1-23	1-5	Tr	Tr	Tr	Tr
2049-2065	0.02-0.15	582- 2836	12-25	3-6	Tr	Tr	-	Tr
2065-2190	0.03-0.44	802- 5127	10-54	3-12	Tr-1	Tr	Tr	Tr
2190-2215	0.05-0.55	209- 3420	6-56	2-20	Tr-2	Tr-2	Tr	Tr

SURVEYS

MD	ANGLE	Azi	TVD			
2176.36	31.76	185.57	2023.9			
2206.21	31.48	183.82	2049.3			
2235.88	31.35	183.41	2074.6			

FORMATION TOPS

WD = 57.1 m								
RIE = 39.9 m								
FORMATION	PROGNOSED DEPTHS (m)			ACTUAL DEPTHS (m)				
	MDKB	TVDSS	THICK	MDKB	TVDSS	HI/LO	THICK	DIFF
Sea Floor/ Gippsland	78.5	-57	n/a	97.0	-57.1	0.1 Lo		
Limestone								
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		2186	1992.3	8.4 Lo		
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:

Washed from 1960-1988m at 60m/hr to verify LWD data acquisition.

No trip gas detected.

5m sample interval from 1600m.

MWD Sensor offsets; Resistivity: 12.31m GR: 12.36m Directional: 19.84m Density: 27.58m Neutron: 28.40m

WELLSITE GEOLOGISTS: Cliff Menhennitt Simon Ward