01-07-2008

24hrs to 24:00

1720 mMDRT

1447.0 mMDRT

5

373 m

57.1 m

39.9 m

Sandstone

ne

lS

Longtom-4

Report Number:

Depth @ 2400 Hrs:

Report Period:

Last Depth:

TD Lithology:

Water Depth:

RT Elevation:

Progress:

Date:

Last Casing:

Leak Off Test:

Mud Weight:

Mud Type:

Bit Type:

ECD:

Vis:

Current hole size:

Mud Fluid Loss:

406.4 mm (16") @ 750 mMDRT 1.64 ppg EMW 343 mm (13 ½") 1.45 SG 1.5 SG SOBM 78 4.4 REED RSX616M-A3

OPERATIONS SUMMARY

24 HOUR SUMMARY	Drilled 13 1/2" hole from 1447m to 1720m.
06:00 Update	Drilled 13 $\frac{1}{2}$ " hole from 1720m to 1835m.
NEXT 24 HOURS:	Continue drilling 13 1/2" hole.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT (mTVDSS)	Description
1447-1500 (1351-1395.5)	Interbedded SANDSTONE / SILTSTONE / CLAYSTONE:
ROP: 1-68 m/hr Avg: 36 m/hr	 SANDSTONE (10-60%): loose, white to very light grey, clear to translucent grains, trace milky, fine to medium, minor coarse to very coarse, moderately well sorted, subangular to subrounded quartz, with minor feldspar and lithics. SILTSTONE (20-70%): medium grey to brown grey, soft to firm, subblocky, argillaceous, carbonaceous in parts. CLAYSTONE (10-70%): light grey to yellowish grey, soft, amorphous, sticky. COAL (tr): black, firm.
1500-1570 (1395 5-1456)	SANDSTONE with SILTSTONE / CLAYSTONE / COAL
ROP: 0.1-80 m/hr Avg: 32 m/hr	 SANDSTONE (70-85%): quartzose, white to very light grey, clear to translucent grains, trace milky, returned loose, very fine to granule, predominantly fine to medium, common coarse to very coarse, trace granule, predominantly sub angular to rounded, minor angular to sub angular, moderate to high sphericity, low sphericity to elongate in very coarse to granule fraction, very poorly sorted, trace siliceous cement, trace pyrite frosting on coarser grains, fair to good inferred porosity. No shows. SILTSTONE (0-40%): medium grey to brownish grey, friable to moderately firm, amorphous to sub blocky, common argillaceous matrix, trace microcrystalline pyrite, minor carbonaceous fragments and laminae. CLAYSTONE (10-55%): medium grey to medium dark grey, moderately firm, amorphous to sub blocky, minor quartz silt, trace carbonaceous fragments. COAL: black, firm.

1570-1660	SILTSTONE with minor SANDSTONE and COAL:
(1456-1533.7)	
ROP: 6-83 m/hr	SILTSTONE (20-90%): medium grey to brownish grey, friable to moderately
Avg: 29 m/nr	firm, sub blocky to flakey, common argillaceous matrix, trace microcrystalline
	pyrite, minor to common carbonaceous fragments and laminae, grading to
	argillaceous Siltstone and silty Claystone.
	SANDSTONE (10-30%, 50-80% in parts): quartzose, white to very light grey,
	dominantly loose, trace soft, medium to very coarse, predominantly coarse,
	moderately sorted, angular to sub angular, minor sub rounded, trace soft
	aggregates with white argillaceous matrix, trace intergranular pyrite cement,
	trace pyrite grain frosting, good inferred porosity. No shows.
	CLAYSTONE (nil – 20%): medium grey to medium dark grey, moderately firm,
	amorphous to sub blocky, minor quartz silt, trace carbonaceous fragments, non
	calcareous.
	COAL (Trace-5%), 50% at 1600m: black, soft to firm, flakey.
1660-1695	SANDSTONE with minor SILTSTONE:
(1533.7 - 1563.9)	
Avg: 31 m/hr	SANDSIONE (70-90%): Interred from light grey to light brownish grey soft
/wg. 01 m/m	anorphous non-calcaleous slightly sanuy slightly carbonaceous rock noul,
	interpreted to represent clushed sandstone. With common to abundant loose
	sand, line to granule, dominantly line to medium, in parts medium to very
	porosity, no shows
	SILTSTONE (10.30%): as above
1695-1710	VOL CANICS with minor SANDSTONE and SIL TSTONE:
(1563 9-1576 9)	VOLCANOO WITH MINOR CANDOTONE and CIETOTONE.
ROP: 10-81 m/hr	VOI CANICS (50-80%): white very light vellowish brown / light greenish white
Avg: 30 m/hr	weathered to clavstone, trace weathered feldspar and weathered green
-	pyroxene, pyritic in part, trace chlorite, vague remnant crystalline structure in
	part.
	SANDSTONE (10-40%): white to very light grey, loose to soft, fine to granule,
	dominantly medium to coarse, poorly sorted, angular to sub angular, minor sub
	rounded, low to moderate sphericity, minor soft aggregates with white to brown
	argillaceous matrix, carbonaceous in parts, minor rock flour, moderate inferred
	porosity. No shows.
	SILTSTONE (10%): 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.
1710-1720	SANDSTONE:
(1576.9-1585.6)	
ROP: 25-76 m/hr	SANDSTONE (100%): white to very light grey, loose to soft, fine to granule,
Avg: 52 m/nr	dominantly coarse to granule, moderately sorted, angular to sub angular, minor
	sub rounded, low to moderate sphericity, minor soft aggregates with white to
	brown argillaceous matrix, carbonaceous in parts, minor rock flour, moderate
	Interred porosity. No shows.
	VOLCANICS (trace): white to orange clay, soft to firm, irregular masses,
	coarse to very coarse grain size, trace relict hornblende crystal form.

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
1447 - 1720	Nil

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
1447-1500	0.02-0.07	209- 586	5-36	2-13	0-1	0	0	0
1500-1570	0.01-0.15	64- 1241	5-88	2-33	0-4	0-7	0	0
1570-1660	0-0.16	121- 1341	8-52	5-33	0-3	0-7	0-1	0-1
1660-1695	0.01-0.06	58-442	2-39	5-29	0-3	2-6	0-1	0-1
1695-1710	0.02-0.04	129- 255	12-25	7-19	0-1	3-7	0	0
1710-1720	0.02-0.05	167- 321	12-27	9-23	0-1	3-10	0	0-1

SURVEYS

MD	ANGLE	Azi	TVD			
1,730.84	30.49	182.20	1,634.82			
1,760.64	30.44	183.16	1,660.50			
1,790.34	29.76	183.49	1,686.20			

FORMATION TOPS

WD = 57.1 m RTE = 39.9 m									
FORMATION	PROGNOSED DEPTHS (m)			ACTUAL DEPTHS (m)					
	MDKB	TVDSS	THICK	MDKB	TVDSS	HI/LO	тніск	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	-	-							
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:

Several H₂S reading weres recorded;

4ppm at the shakers at returns depth 1452m, and 1 ppm in the pit room at returns depth 1506m 4ppm at the shakers at returns depth 1550m, 2ppm at the shakers at returns depth 1653m, and 3ppm at the shakers from returns depth 1809m to 1829m

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