

Longtom-3



Date:	26-07-2006	Last Casing:	406 mm (16") @ 995.3 mMDRT
Report Number:	9	Leak Off Test:	1.62 sg EMW @ 1008.0 mMDRT
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9 1/2")
Depth @ 2400 Hrs:	3437.0 mMDRT	Mud Weight:	1.45 sg
Last Depth:	3214.0 mMDRT	ECD:	1.5 sg (calculated)
Progress:	223 m	Mud Type:	SBM Petrofree
TD Lithology:	Sandstone, Siltstone, Claystone, Weathered volcanic.	V: 6 / 3	14 / 13
Water Depth:	56.7 m	Mud Fluid Loss:	2.8 cc
RT Elevation:	21.5 m	Bit Type:	SMITH M716PXC 5x18, 2x16 jets

OPERATIONS SUMMARY

24 HOUR SUMMARY

00:00 - 24:00:

Drill 9 1/2" pilot hole from 3214m MDRT to 3437m MDRT. Circulate hole clean. Pulled out of hole from 3437m MDRT to 1645m MDRT, 50klbs overpull observed, attempt to work through, obstruction not mobile. Commence back reaming from 1645m MDRT to 1463m MDRT.

06:00 Update

Rigging up Schlumberger Wireline.

NEXT 24 HOURS:

Rig up and run Schlumberger Wireline Logs. Run (1) CMR-XPT-PEX

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT	Description
3214 - 3230 ROP 13 – 83 m/hr Av 27 m/hr	<p>Sandstone and Siltstone</p> <p>SANDSTONE (30-70%): 70% clear to translucent, 30% light greyish yellow, very soft aggregates, very fine to fine, trace carbonaceous grains, lithic grains, 20-40% argillaceous matrix, fair – good inferred porosity.</p> <p>SILTSTONE (30-70%): brownish grey, brownish black, very soft to soft, sub blocky, trace to common carbonaceous specks, arenaceous to very argillaceous and gradational to CLAYSTONE.</p>
3230 – 3267 ROP 9 – 112 m/hr Av 30 m/hr	<p>Siltstone grading to Claystone with depth, trace Sandstone</p> <p>SILTSTONE (20-100%): brownish grey, soft, sub blocky to blocky, common carbonaceous specks in part, very arenaceous in part and gradational to very fine sandstone interlamination.</p> <p>CLAYSTONE (0-75%): brownish grey, greenish grey, firm, blocky, splintery in part, rare carbonaceous specks in parts.</p> <p>CLAYSTONE: (trace) reddish brown, soft to firm, brittle, very uniform and homogenous.</p>

	<p>SANDSTONE (trace): clear to translucent, light brownish grey, dominantly loose to soft aggregates, very fine to fine, well rounded, well sorted, 10-40% argillaceous matrix in aggregates, fair – good inferred porosity.</p>
<p>3267 – 3311 ROP 9 – 96 m/hr Av 44 m/hr</p>	<p>Sandstone, Siltstone and Claystone</p> <p>SANDSTONE (5-60%): off white, light greenish / off white, yellow brown, clear to translucent, 20% loose, 80% soft and friable aggregates, commonly very fine to fine, grading to silt, rounded, well sorted, common carbonaceous grains common to occasional lithic grains, 10-40% argillaceous matrix, fair inferred porosity.</p> <p>SILTSTONE (20-60%): brownish grey, brownish black, very soft, sub blocky to blocky, crumbly, trace carbonaceous specks, very arenaceous.</p> <p>CLAYSTONE (5-75%): brownish grey, soft – firm, brittle in part, blocky to splintery, rare slightly silty, common homogenous and massive.</p>
<p>3311 – 3359 ROP 12 – 77 m/hr Av 21 m/hr</p>	<p>Siltstone gradational to Claystone with depth</p> <p>SILTSTONE (20-100%): brownish grey, soft – firm, blocky, arenaceous, carbonaceous specks.</p> <p>CLAYSTONE (0-70%): brownish grey, very soft – soft, blocky elongate, splintery in part, massive and uniform.</p> <p>CLAYSTONE (0-20%): greenish grey, soft – sub firm, splintery, elongate, massive and uniform.</p>
<p>3359 – 3412 ROP 9 – 94 m/hr Av 35 m/hr</p>	<p>Sandstone with minor Siltstone and Claystone</p> <p>SANDSTONE (20-100%): clear, translucent light green and loose, off white, light brown / green, greenish grey, very soft aggregates, very fine to medium, moderately well sorted, rounded, 10-20% argillaceous matrix, chloritic in part, trace carbonaceous grains, good inferred porosity. GasPeak @ 3375.5 mMD 28.38%</p> <p>SILTSTONE (0-20%): brownish grey, soft – firm, blocky, arenaceous, carbonaceous specks.</p> <p>CLAYSTONE (0-60%): brownish grey, very soft – soft, blocky, elongate, splintery in part, massive and uniform.</p>
<p>3412 – 3437 ROP 1.5 – 47 m/hr Av 5 m/hr</p> <p>ROP 47 m/hr at top decreases gradually with depth to 3424 mMD.</p> <p>Between 3424- 3437 mMD ROP 5-1.5 m/hr</p>	<p>Volcanic with Sandstone and minor Claystone (volcanic source)</p> <p>VOLCANICS (40-100%): green, mottled green, green speckled black, brown, commonly weathered to clay with no discernable crystal structure. Un-weathered samples are hard, microcrystalline or very fine to fine crystalline, and have common quartz, white feldspar commonly weathered to clay, calcite and trace very small black mafic minerals, very rarely the volcanics display an indistinct flow structure. Secondary clay becomes more common with weathering and the mafic component disappears, quartz shards and orange brown to brown chalcedony shards are present.</p> <p>SANDSTONE (25-40%): clear – translucent, light – pale green, dusky green in part, dominantly loose, occasional aggregates, fine to medium occasionally coarse, moderately sorted, rounded to sub rounded, common lithics, argillaceous matrix, variation in clays suggest a possible volcanic source, rare hard strong silica cement aggregates, poor to good inferred porosity.</p> <p>CLAYSTONE (Tr-20%): greenish white, white, common dark brown, black, very soft, occasionally hard and silicified, commonly derived from weathered volcanic.</p>

HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
	No fluorescence observed

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
3214-3230	0.45	2797	80	18	7	3	3	0
3230 -3267	0.39	2797	80	18	7	3	3	0
Peak 3200.5	1.48	12578	289	63	14	11	7	1
3230 – 3267	0.38	2596	44	18	9	7	9	0
3267-3311	0.37	2596	87	22	9	7	3	1
3311 - 3359	0.76	5704	262	74	12	14	6	1
3359 – 3412	14.12	101856	2605	560	67	71	9	5
Peak 3373.5	28.39	165709	4301	918	106	115	13	9
3412 - 3437	2.0	14126	1414	319	31	67	15	5

SURVEYS

MD	ANGLE	Azi	TVD
3136.72	55.73	189.71	2408.6
3165.72	55.99	189.65	2424.8
3194.38	55.36	188.87	2441.0
3224.19	55.41	188.71	2457.9
3251.09	54.64	188.63	2473.4
3280.73	53.54	188.69	2490.7
3309.44	53.51	188.46	2507.8
3338.29	54.91	188.63	2524.7
3367.15	55.26	188.76	2541.2
3396.12	55.88	188.66	2557.6
3423.72	55.65	188.44	2573.1

FORMATION TOPS

WD = 56.7 m RTE = 21.5 m								
FORMATION	PROGNOSD DEPTHS (m)			ACTUAL DEPTHS (m)				
	MDKB	TVDSS	THICK	MDKB	TVDSS	HI/LO	THICK	DIFF
Sea Floor/ Gippsland Limestone	56	78	n/a	78.2	56	No depth	1077.5	
Lakes Entrance	1172	1150	64	1156.0	1133.5	16.5 HI	64.3	-0.3
Latrobe	1237	1214	241	1221.0	1197.8	16.2 HI	262	+21.0
K/T Boundary	1505	1455	30	1500.5	1460.44	5.4 LO		
Un-named Volcanics	1544	1485	37	1569.0	1514.9	30.0 LO	21	n/a
Kipper Shale	1595	1522	508	1651	1566.4	44.4 LO	505.6	
Admiral Formation (Nexus)	2474	2030	124	2578	2072	42 LO		

Admiral Formation (SRD)	2692	2154					
500 Sands	2692	2154	59				
400 Sands	2794	2213	134				
300 Sands	3028	2347	41				
200 Sands	3100	2388	59				
100 Sands	3203	2447	53				
Observed un-named Sands from cuttings							
Sand 2850 – 2880m				2850	2225		
Sand 3016 – 3026m				3016	2320		
Sand 3050 – 3126m				3050	2338.5		
Sand 3200 – 3230m				3200	2423		
Sand 3267 – 3311m				3267	2461.2		
Sand 3359 – 3412 m				3359	2515.0		
Emperor Volcanics	3296	2500	18+	3412	2545	45 LO	
TD	3327	2518					

COMMENTS:

TD hole section 3437 mMDRT, 2580.6 mTVDRT, 2559.1 mSS

WELLSITE GEOLOGISTS:

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