

Longtom- 3 H



Date:	17-08-2006	Last Casing:	273 mm (10 ¾") at 2374.3 mMDRT
Report Number:	6	Leak Off Test:	1.80 sg EMW at 2484 mMDRT
Report Period:	24hrs to 24:00	Current hole size:	241 mm (9½ ")
Depth @ 2400 Hrs:	3576 m	Mud Weight:	1.44 sg
Last Depth:	3338 m	ECD:	1.55 sg
Progress:	238 m	Mud Type:	SBM Petrofree
TD Lithology:	Massive Sandstone	V: 6 / 3	9 / 8
Water Depth:	56.0 m	Mud Fluid Loss:	3.0 cc
RT Elevation:	21.5 m	Bit Type:	Smith M716PXC

OPERATIONS SUMMARY

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

Drill 9 1/2" hole from 3338m MDRT to 3578m MDRT.

06:00 Update

Drill ahead 9 ½" hole at 3621m. Drilling Sandstone in the 100 sand.

NEXT 24 HOURS:

Drill ahead 9 ½" hole in the Admiral Formation 100 sand. Build angle to 95deg until good quality sand in encountered then drop angle to 93deg and follow the bedding plane.

GEOLOGICAL SUMMARY

LITHOLOGIC DESCRIPTION:

Interval mMDRT	Description
3338 – 3576 ROP 2 – 126 m/hr Av: 21 m/hr	<p>Massive Sandstone with trace Siltstone</p> <p>Sandstone has a consistent grain size and grain type through the section, variations occur in the amount of aggregate sand compared to loose sand and the quantity of matrix present in the aggregates, the carbonaceous content also varies slightly. As these litho logical variations occur continuously throughout the section for this report I have included a description of cleaner sand compared to lower porosity soft aggregate sand.</p> <p>SANDSTONE: (95-100%) light grey, light yellowish grey, occasionally mottled pale green/light grey, grains; clear to translucent, minor black, pale green, orange brown, fine to dominantly medium, well sorted, sub rounded to sub angular, 95% loose, 5% very soft aggregate with 10-20% argillaceous matrix, white kaolinitic matrix in part, good inferred porosity.</p> <p>SANDSTONE: (95-100%) light grey, olive grey, light yellowish grey, occasionally mottled pale green/light grey, grains; clear to translucent, occasional pale green, orange brown and black and carbonaceous, fine to medium, moderately well sorted, sub rounded to sub angular, trace calcareous grains, 50% loose, 50% very soft aggregate with 50-90% argillaceous matrix, white kaolinitic matrix in part,</p>

	slightly calcareous, occasionally carbonaceous with carbonaceous grains and laminae, fair inferred porosity. SILTSTONE (Nil- 5%): olive grey, moderately hard to hard, blocky, arenaceous.
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HYDROCARBON FLUORESCENCE:

INTERVAL (mMDRT)	FLUORESCENCE
	No fluorescence.

GAS SUMMARY:

INTERVAL (mMDKB)	Total GAS (%)	C1 (ppm)	C2 (ppm)	C3 (ppm)	IC4 (ppm)	NC4 (ppm)	IC5 (ppm)	NC5 (ppm)
3338 – 3546	7.8	67969	2328	659	109	104	19	11
Peak @ 3353m	28	210925	6893	1775	245	240	39	22
Sandstone								
3546 – 3576	3.4	32305	1238	373	74	65	14	7

Resistivity lower and GR higher than above interval

SURVEYS

Tie in point to Longtom -3 ST1 is 2400.00m

MD	ANGLE	Azi	TVD	MD	ANGLE	Azi	TVD
3287.16	79.84	188.47	2532.1	3484.74	86.88	187.52	2548.0
3316.29	81.38	189.94	2536.9	3513.53	88.17	186.43	2549.3
3344.87	84.32	189.94	2540.4	3542.58	89.71	187.25	2549.8
3373.11	87.05	190.33	2542.5	3573.26	90.54	186.93	2549.7
3401.37	88.54	190.95	2543.6				
3429.97	87.36	190.09	2544.7				
3456.45	85.84	189.31	2546.2				

FORMATION TOPS

WD = 56.7 m RTE = 21.5 m								
FORMATION	PROGNOSED DEPTHS (m)			ACTUAL DEPTHS (m)				
	MDKB	TVDSS	THICK	MDKB	TVDSS	HI/LO	THICK	DIFF
Top 200 sand	2405.0	2182.0	199.5	2406.0	2182.1	0.1 LO		
Base 200 sand at vertical section 800.4m				2649	2289.3			

Base 200 sand at vertical section 882.4m				2740	2327.9			
Base 200 sand at vertical section 1044.1m				2912	2385.9			
Top 100 sand at vertical section 1376.4m				3268.0	2507.2			
Sand 1 target	2852.36	2381.5						
Sand 2 target	3006.9	2450.0						
Sand 3 target	3431.5	2549.5						
Sand Drain target	3957.1	2539.5						
Sand 4 target	4481.2	2463.5						
TD	5833.0	2489.3						

COMMENTS:

Sensor Distances: Xceed D&I 4.2m, GR 9.8m, APWD 9.96m, Density 11m, Ultrasonic Caliper 11.42m, Resistivity 12.84m, Neutron Porosity 13.09, TeleScope D&I 20.16m

WELLSITE GEOLOGISTS:

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