

## Longtom- 3 H



Date:	24-08-2006	Last Casing:	273 mm (10 ¾") at 2374.3 mMDRT
Report Number:	13	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:	4153 m	Mud Weight:	1.28 sg
Last Depth:	4090 m	ECD:	1.58 sg
Progress:	63 m	Mud Type:	SBM Petrofree
TD Lithology:	Silty Claystone	V: 6 / 3	12 / 10
Water Depth:	56.0 m	Mud Fluid Loss:	3.2 cc
RT Elevation:	21.5 m	Bit Type:	Smith M716PXC Serial #: JW8664

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**OPERATIONS SUMMARY**


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

Made up rotary build BHA. Ran in hole and drilled ahead from 4090m MDRT to 4153m MDRT. Note: control drilling used for directional steering.

**06:00 Update**

Pulling out of the hole, current depth 3650m.

**NEXT 24 HOURS:**

Pull out of hole. Slip and cut drilling line. Make up Xceed rotary streerable BHA. Run in hole and drill ahead 9 1/2".

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**GEOLOGICAL SUMMARY**


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**LITHOLOGIC DESCRIPTION:**

Interval mMDRT	Description
4080 - 4102m  ROP: 7.2 - 80 Av: 24.0 m/hr	<p><b>Sandstone with minor Siltstone.</b></p> <p>SANDSTONE (80-90%): light yellowish grey, occasionally light grey grains, clear to translucent, very fine to fine, moderately well sorted, sub rounded to sub angular, trace to common calcareous grains, very soft aggregates with 60-70% argillaceous matrix, white kaolinitic matrix in part, poor to fair inferred porosity.</p> <p>SILTSTONE (10-20%): medium to dark brownish grey, rare light medium grey, sub blocky to blocky, soft and friable, arenaceous to argillaceous, carbonaceous specks, occasional trace very fine sand grains.</p>
4102 - 4116m  ROP: 3.5 - 31 Av: 7.9 m/hr	<p><b>Massive calcareous cemented Sandstone with minor Siltstone.</b></p> <p>SANDSTONE (85-90%): light yellowish grey, occasionally light grey grains, clear to translucent, very fine to fine, moderately well sorted, sub rounded to sub angular, common calcareous grains, soft to hard aggregates with 60-70% argillaceous matrix, white kaolinitic matrix in part, moderate calcareous cement, poor inferred porosity.</p> <p>SILTSTONE (10-15%): medium to dark brownish grey, rare light medium grey, sub blocky to blocky, soft and friable, arenaceous to argillaceous, carbonaceous specks, occasional trace very fine sand grains.</p>

4116 – 4153m  ROP: 2.0 - 29 Av: 6.1 m/hr	<p><b>Siltstone gradation with depth to Silty Claystone.</b></p> <p>SILTSTONE (0-100%): medium to dark brownish grey, light medium grey, sub blocky to blocky, soft and friable, arenaceous to argillaceous grading to SILTY CLAYSTONE, carbonaceous specks, trace very fine sand grains.</p> <p>SILTY CLAYSTONE: (0-100%) medium grey to medium dark grey, very soft to soft, rare firm, sub blocky to commonly bit deformed, trace carbonaceous specks.</p>
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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)
TRIP GAS @ 4090m	41.9%	241086	3573	436	72	47	4	1
4080-4090m	1.0	8926	131	25	9	5	3	1
Peak at 4088.5m	2.4	22483	229	41	16	7	2	2
4090-4102m	0.9	8414	190	39	12	7	3	1
Peak at 4102m	1.2	9811	224	42	13	10	4	2
4102-4116m	1.8	16099	406	79	19	13	3	1
Peak at 4104.5m	3.6	32325	680	113	25	15	4	1
4116-4153m	0.36	3379	114	29	11	6	3	0

**SURVEYS**

Tie in point to Longtom -3 ST1 is 2400.00m

MD	ANGLE	Azi	TVD	MD	ANGLE	Azi	TVD
4059.30	94.50	189.67	2520.3	4138.21	98.66	189.78	2512.2
4081.97	94.27	189.35	2518.5				
4110.82	96.63	189.40	2515.8				

**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			
Top 100 sand at vertical section 1864.6m				3758.0	2517.0			
100 sand at vertical section 1939.5m				3833.0	2512.4			
Top 100 sand at vertical section 2028.3m				3922.0	2507.5			
100 sand at vertical section 2144.1m				4038.0	2500.1			
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:** GR 13.45m, Density 14.66m, Ultrasonic Caliper 15.08m, Resistivity 16.50m, Neutron Porosity 16.75m, TeleScope D&I 23.81m, APWD 23.81m.

**WELLSITE GEOLOGISTS:**

**Mike Woodmansee**

**Trevor Lobo**