

Jackman Oilfield Services
1 West Mulberry St.
Colony, KS 66015
620-852-3350

WELL LOG
Lakeshore Operating, LLC
Sturidvan 3 LO-40

May 27, 2016

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
8.00	Soil/clay	8.00
6.00	Lime	14.00
7.00	Shale	21.00
176.00	Lime	197.00
8.00	Sandy lime	205.00
13.00	Lime	218.00
6.00	Sandy lime	224.00
45.00	Lime	269.00
19.00	Shale	288.00
168.00	Lime	456.00
11.00	Shale	467.00
21.00	Lime	488.00
11.00	Shale	499.00
6.00	Lime	505.00
17.00	Shale	522.00
40.00	Lime	562.00
3.00	Shale	565.00
72.00	Lime	637.00
5.00	Shale	642.00
29.00	Lime	671.00
183.00	Shale	854.00
10.00	Lime	864.00
54.00	Shale	918.00
6.00	Lime	924.00
8.00	Shale	932.00
1.00	Coal	933.00
24.00	Lime	957.00
10.00	Shale	967.00
10.00	Lime	977.00
6.00	Shale	983.00
9.00	Lime	992.00
15.00	Shale	1,007.00

3.00	Broken sand	1,010.00	
7.00	Shale	1,017.00	
15.00	Oil sand	1,032.00	
0.50	Broken sand	1,032.50	
2.50	Oil sand	1,035.00	
14.00	Shale	1,049.00	
1.00	Lime	1,050.00	
1.50	Shale	1,051.50	
6.50	Oil sand	1,058.00	
2.00	Oil sand/Sandy shale	1,060.00	
3.00	Oil sand	1,063.00	
1.00	Sandy Shale	1,064.00	
0.50	Sandy Shale	1,064.50	
0.50	Sandy shale	1,065.00	
0.50	Sandy shale	1,065.50	
15.50	Sandy shale	1,081.00	
11.00	Shale	1,092.00	TD

Drilled a 9 7/8" hole to 39'7"

Drilled a 5 7/8" hole to 1092'

Set 40' of 7" surface casing cemented with 9 sacks of portland cement

Ran 1082' of 2 7/8"

2 cores

Seating nipple @ 1048'

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