

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

WELL LOG
Lakeshore Operating, LLC
Sturdivan 3 LOI-7

August 23, 2016

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
3.00	Soil	3.00
8.00	Clay	11.00
11.00	Lime	22.00
15.00	Shale	37.00
5.00	Lime	42.00
146.00	Shale	188.00
73.00	Lime	261.00
20.00	Shale	281.00
117.00	Lime	398.00
9.00	Shale	407.00
2.00	Lime	409.00
67.00	Sand	476.00
23.00	Lime	499.00
77.00	Shale	576.00
100.00	Lime	676.00
99.00	Shale	775.00
8.00	Lime	783.00
186.00	Shale	969.00
19.00	Lime	988.00
20.00	Shale	1,008.00
1.00	Lime	1,009.00
3.00	Oil sand	1,012.00
27.00	Shale	1,039.00
2.00	Lime	1,041.00
7.00	Shale	1,048.00
1.00	Lime	1,049.00
16.00	Oil sand	1,065.00
21.00	Shale	1,086.00
6.00	Lime	1,092.00

Drilled a 9 7/8" hole to 39.5'

Drilled a 5 7/8" hole to 1092'

Set 40' of 7" surface casing cemented with 10 sacks of portland cement

Ran 1085' of 2 7/8"

No cores

No seating nipple

Cemented on 8/26/16

Sturdivan 3 LOI-7