

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

WELL LOG  
 Lakeshore Operating, LLC  
 Sturdivan 3 LO-43

June 26, 2016

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
6.00	Soil/clay	6.00	
3.00	Lime	9.00	
28.00	Shale	37.00	
5.00	Lime	42.00	
117.00	Shale	159.00	
94.00	Lime	253.00	
25.00	Sand stone	278.00	
23.00	Lime	301.00	
17.00	Sand stone	318.00	
158.00	Lime	476.00	
17.00	Sand stone	493.00	
171.00	Lime	664.00	
183.00	Shale	847.00	
8.00	Lime	855.00	
57.00	Shale	912.00	
4.00	Lime	916.00	
6.00	Shale	922.00	
7.00	Lime	929.00	
12.00	Shale	941.00	
4.00	Lime	945.00	
64.00	Shale	1,009.00	
3.00	Top oil sand	1,012.00	Good bleed
3.00	Broken sand	1,015.00	Light bleed
6.50	Oil sand	1,021.50	Good bleed
0.50	Shale	1,022.00	
3.00	Oil sand	1,025.00	Good bleed
17.00	Shale	1,042.00	
1.00	Lime	1,043.00	
6.00	Oil sand	1,049.00	Good bleed
4.00	Shale/oil sand	1,053.00	
2.50	Oil sand	1,055.50	Good bleed
36.50	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 10 sacks of portland cement

Ran 1083' of 2 7/8"

2 cores

No seating nipple

Cemented on 6/27/16

Sturdivan 3 LO-43

F103

Replacement Chart M3181-X

LLF18103

Mining Services Chart

CHANGE CHARTS AT 9:00 A.M. AND 9:00 P.M.

OPERATION

10825912

No. 43 LEASE Standard 3

LOC \_\_\_\_\_ SEC \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_

COUNTY Woodson STATE KS

DATE ON Nov 6 1976 T. D. OFF \_\_\_\_\_

TIME ON  A.M.  P.M. T. D. ON \_\_\_\_\_

DR LG TIME DR LG OPERATIONS

8:00

05

10

15

20

25

30

35

40

45

50

55

9:00

05

10

15

20

25

30

35

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10:00

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11:00

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10

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20

25

30

35

40

45

50

55

12:00

05

10

15

20

25

30

35

10825912

SW 1055

TD 1092

2005

62316

DR LG OPERATIONS

