

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

WELL LOG
 Kansas Resource Exploration & Development, LLC
 Hays KR-18

October 21, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
17.00	soil/clay	17.00	
21.00	lime	38.00	
20.00	shale	58.00	
3.00	lime	61.00	
39.00	shale	100.00	
20.00	lime	120.00	
13.00	shale	133.00	
27.00	lime	160.00	
10.00	shale	170.00	
41.00	lime	211.00	
127.00	shale	338.00	
1.00	coal	339.00	
11.00	shale	350.00	
4.00	lime	354.00	
19.00	shale	373.00	
7.00	lime	380.00	
5.00	shale	385.00	
1.00	lime	386.00	
9.00	grey sand	395.00	very light oil bleed
23.00	shale	418.00	
2.00	coal	420.00	
11.00	shale	431.00	
6.00	lime	437.00	
14.00	shale	451.00	
3.00	lime	454.00	
3.00	coal	457.00	
11.00	shale	468.00	
9.00	lime	477.00	
10.00	shale	487.00	
2.00	lime	489.00	
5.00	shale	494.00	
2.00	lime	496.00	

2.00	coal	498.00	
6.00	lime	504.00	
5.00	shale	509.00	
4.00	grey sand	513.00	
2.00	broken oil sand	515.00	light-med.bleed
5.00	shale	520.00	TD

Drilled a 12 1/4" hole to 19'7"

Drilled a 5 7/8" hole to 520'

Set 20' of 7" surface casing cemented with 8 sacks of portland cement
No pipe ran

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