

RECEIVED APR 16 2014

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

WELL LOG
Kansas Resource Exploration & Development, LLC
McDonald KR-3

April 2, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
5	soil/clay	5	
20	lime	25	
13	shale	38	
3	lime	41	
48	shale	89	
8	lime	97	
12	shale	109	
54	lime	163	
7	shale	170	
20	lime	190	
180	shale	370	
15	lime	385	
45	shale	430	
4	lime	434	
16	shale	450	
2	lime	452	
19	shale	471	
30	lime	501	
4	shale	505	
14	lime	519	
37	shale	556	
3	lime	559	
11	shale	570	
1	lime	571	
1	oil sand	572	light bleed; gas smell
28	shale	600	
2	coal	602	
9	shale	611	
1	lime	612	
36	shale	648	
1	broken sand	649	light bleed
19	black sand	668	
5	oil sand/black sand	673	good bleed
87	shale	760	TD

Drilled a 9 7/8" hole to 19'7"

Drilled a 5 7/8" hole to 760'

Set 20' of 7" surface casing cemented with 6 sacks of portland cement

Set 746.60' of 2 7/8" round upset tubing. Baffle @ 715'

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