

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

WELL LOG
Kansas Resource Exploration & Development, LLC
McDonald KR-7

March 31, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
13	soil/clay	13	
17	lime	30	
48	shale	78	
9	lime	87	
7	shale	94	
36	lime	130	
6	shale	136	
28	lime	164	
6	shale	170	
9	lime	179	
173	shale	352	
10	lime	362	
50	shale	412	
2	coal	414	
3	shale	417	
3	lime	420	
18	shale	438	
2	lime	440	
19	shale	459	
20	lime	479	
9	shale	488	
2	lime	490	
56	shale	546	
1	lime	547	
23	shale	570	
5	lime	575	
5	oil sand	580	light bleed
12	shale	592	
2	coal	594	
9	shale	603	
3	lime	606	
1	coal	607	
31	shale	638	
1	lime	639	

8	sandy shale	647	
3	brown sand	650	no bleed
4	oil sand	654	no bleed
16	shale	670	TD

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

Drilled a 5 7/8" hole to 670'

Set 20' of 7" surface casing cemented with 5 sacks of portland cement
No pipe ran

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