

RECEIVED JUN 04 2014

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

WELL LOG
Kansas Resource Exploration & Development, LLC
Cartwright KR-27

May 21, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
11	soil/clay	11	
14	lime	25	
25	shale	50	
1	lime	51	
41	shale	92	
18	lime	110	
6	shale	116	
30	lime	146	
5	shale	151	
29	lime	180	
6	shale	186	
3	lime	189	
6	shale	195	
3	lime	198	
136	shale	334	
6	grey sand	340	
14	shale	354	
12	lime	366	
9	grey sand	375	slight odor
2	shale	377	
1	coal	378	
34	shale	412	
3	coal	415	
6	lime	421	
12	shale	433	
4	lime	437	
2	coal	439	
15	shale	454	
10	lime	464	
15	shale	479	
1	lime	480	
6	shale	486	

1	lime	487	
1	lime	488	oil show
5	shale	493	
2	oil sand	495	no bleed
1	oil sand	496	very light bleed
2	broken sand	498	very light bleed
2	oil sand	500	very light bleed
1	broken sand	501	very light bleed
2	very broken sand	503	no bleed
2	broken sand	505	no bleed 50% sand
1	very broken sand	506	no bleed 95% shale
2	grey sand	508	no bleed
12	sandy shale	520	TD

Drilled a 5 7/8" hole to 520'

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

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