

RECEIVED SEP 26 2014

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

WELL LOG
Kansas Resource Exploration & Development, LLC
Cartwright KR-5

September 22, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
9.00	soil/clay	9.00	
21.00	lime	30.00	
18.00	shale	48.00	
7.00	lime	55.00	
40.00	shale	95.00	
17.00	lime	112.00	
8.00	shale	120.00	
30.00	lime	150.00	
6.00	shale	156.00	
24.00	lime	180.00	
6.00	shale	186.00	
13.00	lime	199.00	
159.00	shale	358.00	
14.00	lime	372.00	
11.00	grey sand	383.00	light bleed
32.00	shale	415.00	
2.00	coal	417.00	
3.00	shale	420.00	
9.00	lime	429.00	
11.00	shale	440.00	
3.00	lime	443.00	
2.00	coal	445.00	
12.00	shale	457.00	
21.00	lime	478.00	
5.00	shale	483.00	
2.00	lime	485.00	
1.00	coal	486.00	
4.00	lime	490.00	
3.00	lime w/oil bleed	493.00	
6.00	shale	499.00	
1.00	grey sand	500.00	
2.50	oil sand	502.50	med. Bleed