

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

WELL LOG
Kansas Resource Exploration & Development, LLC
Cartwright KR-8

September 15, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
19.00	soil/clay	19.00	
21.00	lime	40.00	
19.00	shale	59.00	
4.00	lime	63.00	
42.00	shale	105.00	
15.00	lime	120.00	
8.00	shale	128.00	
29.00	lime	157.00	
9.00	shale	166.00	
26.00	lime	192.00	
4.00	shale	196.00	
13.00	lime	209.00	
138.00	shale	347.00	
1.00	lime	348.00	
8.00	sandy shale	356.00	
16.00	shale	372.00	
14.00	lime	386.00	
2.00	sandy shale	388.00	
2.00	grey sand	390.00	light gas smell;very light bleed
8.00	grey sand	398.00	
22.00	shale	420.00	
3.00	coal	423.00	
4.00	shale	427.00	
7.00	lime	434.00	
12.00	shale	446.00	
3.00	lime	449.00	
2.00	coal	451.00	
12.00	shale	463.00	
9.00	lime	472.00	
15.00	shale	487.00	
2.00	lime	489.00	
2.50	shale	491.50	

4.50	lime	496.00	
7.00	shale	503.00	
1.50	broken sand	504.50	light bleed
3.00	oil sand	507.50	good med.bleed
2.00	broken sand	509.50	no bleed
1.00	70%shale/brokensand	510.50	light bleed
1.50	90%shale/brokensand	512.00	no bleed
68.00	shale	580.00	TD

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

Drilled a 5 7/8" hole to 580'

Set 20' of 7" surface casing cemented with 5 sacks of portland cement

Set 567.30' of 2 7/8" round upset tubing. Baffle @ 536.40'

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