

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

WELL LOG
 Kansas Resource Exploration & Development, LLC
 Chisam KR-37

March 22, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
8	soil/clay	8	
77	lime	85	
4	black shale	89	
14	lime	103	
7	lime	110	
143	shale	253	
3	lime	256	
18	shale	274	
14	lime	288	
1	sand	289	good bleed
1	lime	290	
50	shale	340	
8	lime	348	
14	shale	362	
2	lime	364	
1	coal	365	
34	shale	399	
20	lime	419	
7	shale	426	
4	lime	430	
3	coal	433	
3	lime	436	
10	shale	446	
1	lime	447	
1	shale	448	
1	lime	449	
2	coal	451	
5	shale	456	
5	coal	461	
10	shale	471	
2.50	broken sand	473.50	good bleed
3.00	oil sand	476.50	heavy bleed
37	shale	513	
1	lime	514	

31	shale	545	
4	lime	549	
8	black shale	557	
1	lime	558	
6	shale	564	
6	sandy shale	570	TD

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

Drilled a 5 7/8" hole to 570'

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

Set 565.80' of 2 7/8" round upset tubing. Baffle @ 532.60'

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