

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

WELL LOG
Kansas Resource Exploration & Development, LLC
Chisam KR-36

March 12, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>	
8	soil/clay	8	
15	lime	23	
4	shale	27	
16	lime	43	
2	shale	45	
14	lime	59	
8	shale	67	
28	lime	95	
3	shale	98	
2	lime	100	
4	shale	104	
9	lime	113	
1	coal	114	
110	shale	224	
2	lime	226	
57	shale	283	
16	lime	299	
1	broken sand	300	light bleed
48	shale	348	
9	lime	357	
2	shale	359	
1	lime	360	
10	shale	370	
4	lime	374	
13	shale	387	
8	lime	395	
7	shale	402	
23	lime	425	
5	shale	430	
1	lime	431	
7	shale	438	
1	coal	439	
13	shale	452	
7	lime	459	

2	coal	461	
1	shale	462	
1	coal	463	
14	shale	477	
6	broken sand	483	medium bleed
3	oil sand	486	good bleed
1	broken sand	487	good bleed
6	shale	493	
7	lime/shale	500	
9	shale	509	
14	black sand	523	
29	shale	552	
3	lime	555	
15	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 7 sacks of portland cement

Set 559.0' of 2 7/8" round upset tubing. Baffle @ 527.10'

Chisam KR-36