



11 Lewis Drive

Paola, KS 66071

Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation

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WELL LOG

Kansas Resource Exploration & Development, LLC
Guetterman #KRI-33
API # 15-091-23,980
April 5 - April 9, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
6	soil & clay	6
63	shale	69
4	lime	73
5	shale	78
6	lime	84
4	shale	88
17	lime	105
9	shale	114
9	lime	123
8	shale	131
19	lime	150
16	shale	166
19	lime	185
7	shale	192
51	lime	243
22	shale	265
8	lime	273
15	shale	288
9	lime	297
6	shale	303
17	lime	320
36	shale	356
24	lime	380
6	shale	386
23	lime	409
4	shale	413
4	lime	417
4	shale	421
7	lime	428 base of the Kansas City
30	shale	458
5	sand	463 green
139	shale	602
4	lime	606
4	shale	610
3	lime	613
7	shale	620
10	lime	630
13	shale	643
3	lime	646

5	shale	651	
11	lime	662	
21	shale	683	
2	lime	685	
16	shale	701	
3	lime	704	
60	shale	764	
3	broken sand	767	brown & grey, light bleeding
5	oil sand	772	brown, ok bleeding
24	shale	796	
2	lime	798	
25	shale	823	
1	coal	824	
38	shale	862	
1	coal	863	
23	shale	886	
0.5	broken sand	886.5	brown sand & lime, ok bleeding
1.5	lime	888	
1.5	broken sand	889.5	brown sand & lime, good bleeding
1	oil sand	890.5	brown, good bleeding
3.5	broken sand	894	brown & grey, good bleeding
52	shale	946	TD

Drilled a 9 7/8" hole to 22.5'

Drilled a 5 5/8" hole to 946'

Set 22.5' of 7" surface casing cemented with 6 sacks of cement

Set 931' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.