



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-30

API # 15-091-23,977

January 25 - January 31, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
15	soil & clay	15
16	shale	31
5	lime	36
13	shale	49
10	lime	59
6	shale	65
16	lime	81
10	shale	91
8	lime	99
4	shale	103
1	lime	104
3	shale	107
19	lime	126
14	shale	140
24	lime	164
6	shale	170
50	lime	220
21	shale	241
8	lime	249
17	shale	266
9	lime	275
6	shale	281
11	lime	292
2	shale	294
3	lime	297
23	shale	320
4	lime	324
7	shale	331
25	lime	356
7	shale	363
22	lime	385
4	shale	389
2	lime	391
7	shale	398
6	lime	404 base of the Kansas City
26	shale	430
8	sand	438 making gas, green sand
135	shale	573
6	lime	579

5	shale	584
1	lime	585
9	shale	594
5	lime	599
16	shale	615
5	lime	620
2	shale	622
1	coal	623
11	shale	634
1	lime	635
29	shale	664 red
3	lime	667
69	shale	736
2	broken sand	738 brown & grey sand, ok bleeding
5	oil sand	743 brown sand, good bleeding
3	broken sand	746 brown & grey sand, ok bleeding
16	shale	762
1	coal	763
47	shale	810
4	coal	814
6	grey sand	820
1	lime	821
14	shale	835
1	coal	836
7	shale	843
3	silty shale	846 white
7	shale	853
1	lime	854
5	shale	859
5	oil sand	864 brown, good bleeding
3.5	broken sand	867.5 brown & grey, ok bleeding
42.5	shale	910 TD

Drilled a 9 7/8" hole to 21'
 Drilled a 5 5/8" hole to 910'

Set 21' of 7" surface casing cemented with 6 sacks of cement

Set 895' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.