



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: 34

API # 15-091-23,000 23970-00-00

February 20 - February 25, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
4	soil & clay	4
26	sandstone	30
56	shale	86
6	lime	92
8	shale	100
1	lime	101
7	shale	108
16	lime	124
9	shale	133
9	lime	142
6	shale	148
21	lime	169
15	shale	184
19	lime	203
8	shale	211
52	lime	263
22	shale	285
7	lime	292
15	shale	307
9	lime	316
6	shale	322
16	lime	338
24	shale	362
3	lime	365
8	shale	373
15	lime	388
2	shale	390
8	lime	398
9	shale	407
21	lime	428
4	shale	432
3	lime	435
7	shale	442
5	lime	447 base of the Kansas City
173	shale	620
5	lime	625
3	shale	628
5	lime	633
5	shale	638
7	lime	645

16	shale	661
3	lime	664
2	shale	666
1	coal	667
4	shale	671
10	lime	681
20	shale	701
12	lime	713
69	shale	782
10	broken sand	792 brown & grey, fair bleeding
16	shale	808
1	coal	809
27	shale	838
1	coal	839
41	shale	878
1	coal	879
24.5	shale	903.5
3	broken sand	906.5 brown & grey, ok bleeding (limey)
1.5	oil sand	908 brown, good bleeding, few thin lime seams
3	broken sand	911 brown & grey, ok bleeding
69	shale	980 TD

Drilled a 9 7/8" hole to 42'
 Drilled a 5 5/8" hole to 980'

Set 42' of 7" surface casing cemented with 12 sacks of cement

Set 965' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.