



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-31
API # 15-091-23,978
January 31 - February 5, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
11	soil & clay	11
42	shale	53
4	lime	57
5	shale	62
1	lime	63
7	shale	70
17	lime	87
9	shale	96
8	lime	104
9	shale	113
18	lime	131
20	shale	151
20	lime	171
5	shale	176
9	lime	185
1	shale	186
40	lime	226
21	shale	247
9	lime	256
17	shale	273
7	lime	280
8	shale	288
8	lime	296
4	shale	300
3	lime	303
23	shale	326
1	lime	327
11	shale	338
23	lime	361
7	shale	368
24	lime	392
4	shale	396
2	lime	398
7	shale	405
5	lime	410 base of the Kansas City
31	shale	441
5	sand	446 green
136	shale	582
5	lime	587

15	shale	602
4	lime	606
17	shale	623
3	lime	626
6	shale	632
2	lime	634
31	shale	665
1	lime	666
4	shale	670
3	lime	673
71	shale	744
5	broken sand	749 brown & grey, ok bleeding
3	oil sand	752 brown, ok bleeding
3	broken sand	755 brown & grey, ok bleeding
15	shale	770
1	coal	771
73	shale	844
1	coal	845
22	shale	867
4	oil sand	871 brown, good bleeding
0.5	broken sand	871.5 brown & grey, good bleeding
0.5	oil sand	872 brown, good bleeding
2	broken sand	874 brown & white, light bleeding
46	shale	920 TD

Drilled a 9 7/8" hole to 22'

Drilled a 5 5/8" hole to 920'

Set 22' of 7" surface casing cemented with 6 sacks of cement

Set 905' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.