



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-32

API # 15-091-23,979

February 5 - February 8, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
6	soil & clay	6
61	shale	67
4	lime	71
7	shale	78
1	lime	79
7	shale	86
17	lime	103
9	shale	112
8	lime	120
8	shale	128
17	lime	145
19	shale	164
19	lime	183
7	shale	190
51	lime	241
21	shale	262
10	lime	272
15	shale	287
8	lime	295
8	shale	303
7	lime	310
2	shale	312
4	lime	316
26	shale	342
1	lime	343
10	shale	353
18	lime	371
2	shale	373
4	lime	377
8	shale	385
22	lime	407
4	shale	411
4	lime	415
6	shale	421
5	lime	426 base of the Kansas City
173	shale	599
4	lime	603
3	shale	606
1	lime	607

4	shale	611
1	coal	612
4	shale	616
7	lime	623
17	shale	640
2	lime	642
3	shale	645
1	coal	646
4	shale	650
3	lime	653
3	shale	656
2	lime	658
23	shale	681
7	lime	688
73	shale	761
3	broken sand	764 brown & grey, light bleeding
2	oil sand	766 brown, ok bleeding
3	broken sand	769 brown & grey, ok bleeding
18	shale	787
1	coal	788
46	shale	834
1	coal	835
46	shale	881
1	broken sand	882 brown sand & lime, light bleeding
3.5	oil sand	885.5 brown sand, good bleeding, few thin lime
2.5	broken sand	888 brown & grey, good bleeding
44	shale	932 TD

Drilled a 9 7/8" hole to 21'
 Drilled a 5 5/8" hole to 932'

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

Set 917' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.