



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-23

API # 15-091-23,966

December 5 - December 7, 2012

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
16	soil & clay	16
7	shale	23
5	lime	28
7	shale	35
16	lime	51
10	shale	61
7	lime	68
5	shale	73
1	lime	74
4	shale	78
16	lime	94
19	shale	113
20	lime	133
6	shale	139
50	lime	189
22	shale	211
9	lime	220
15	shale	235
7	lime	242
7	shale	249
18	lime	267
35	shale	302
10	lime	312
5	shale	317
9	lime	326
8	shale	334
21	lime	355
5	shale	360
4	lime	364
4	shale	368
6	lime	374 base of the Kansas City
170	shale	544
6	lime	550 oil show
3	shale	553
4	lime	557
1	coal	558
6	shale	564
8	lime	572
14	shale	586
2	lime	588

7	shale	595
8	lime	603
21	shale	624
5	lime	629
73	shale	702
3	broken sand	705 brown & shale, light bleeding (gassy)
1	oil sand	706 brown, ok bleeding
7	broken sand	713 brown & shale, ok bleeding
23	shale	736
1	lime	737
65	shale	802
1	coal	803
21	shale	824
3	broken sand	827 lime & sand, ok bleeding
1	oil sand	828 brown, good bleeding
2.5	broken sand	830.5 brown sand & lime streaks, ok bleeding
2.5	broken sand	833 20% brown sand, 80% shale, light bleeding
50	shale	883 TD

Drilled a 9 7/8" hole to 21.5'

Drilled a 5 5/8" hole to 883'

Set 21.5' of 7" surface casing cemented with 6 sacks of cement

Set 873' of 2 7/8" 8 round upset tubing, with 3 centralizers, 1 float shoe, & 1 clamp.