



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-3

API # 15-091-23,950

February 18 - February 20, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
15	soil & clay	15
3	shale	18
5	lime	23
3	shale	26
16	lime	42
9	shale	51
9	lime	60
7	shale	67
18	lime	85
18	shale	103
73	lime	176
26	shale	202
9	lime	211
16	shale	227
6	lime	233
7	shale	240
7	lime	247
9	shale	256
2	lime	258
33	shale	291
5	lime	296
5	shale	301
16	lime	317 oil show
7	shale	324
20	lime	344
5	shale	349
2	lime	351
6	shale	357
5	lime	362
31	shale	393
3	sand	396 green, light gas odor
137	shale	533
6	lime	539
9	shale	548
1	coal	549
5	shale	554
7	lime	561
19	shale	580
1	coal	581

13	shale	594
1	lime	595
24	shale	619 red
8	lime	627
70	shale	697
5	broken sand	702 light brown sand & shale, fair bleeding
2	oil sand	704 light brown, fair bleeding (gassy)
1	broken sand	705 brown sand & shale, light bleeding
22	shale	727
2	lime	729
25	shale	754
1	coal	755
8	shale	763
2	lime	765
53	shale	818
0.5	broken sand	818.5 40% brown sand, 60% shale, ok bleeding
1	lime	819.5
0.5	broken sand	820 brown sand & lime, good bleeding
2	oil sand	822 brown sand & few thin lime seams good bleeding
2	broken sand	824 brown sand & shale, good bleeding
13	shale	837
1	coal	838
34	shale	872 TD

Drilled a 9 7/8" hole to 22'

Drilled a 5 5/8" hole to 905' 872'

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

857'

Set 890' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.