



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 #KR-10

API # 15-091-23,932

January 10 - January 14, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
15	soil & clay	15
23	lime	38
9	shale	47
8	lime	55
4	shale	59
2	lime	61
3	shale	64
17	lime	81
19	shale	100
19	lime	119
6	shale	125
8	lime	133
2	shale	135
39	lime	174 making water
23	shale	197
10	lime	207
15	shale	222
9	lime	231
8	shale	239
12	lime	251
6	shale	257
2	lime	259
17	shale	276
1	lime	277
10	shale	287
18	lime	305 oil show
2	shale	307
5	lime	312
8	shale	320
21	lime	341
4	shale	345
4	lime	349
2	shale	351
8	lime	359 base of the Kansas City
173	shale	532
4	lime	536
3	shale	539
4	lime	543
1	coal	544
5	shale	549

8	lime	557
14	shale	571
5	lime	576
11	shale	587
8	lime	595
23	shale	618 red
2	lime	620
76	shale	696
4	silty shale	700 grey
16	shale	716
1	coal	717
5	shale	722
3	lime	725
28	shale	753
5	grey sand	758
30	shale	788
1	coal	789
21	shale	810
2.5	oil sand	812.5 brown sand, minimal bleeding
2.5	broken sand	815
14	shale	829
1	coal	830 TD

Drilled a 9 7/8" hole to 22'

Drilled a 5 5/8" hole to 810'

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