



11 Lewis Drive

Paola, KS 66071

**Oil & Gas Well Drilling
Water Wells
Geo-Loop Installation**

Phone: 913-557-9083

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WELL LOG

Kansas Resource Exploration & Development, LLC

Guetterman #KRI-29

API # 15-091-23,976

January 23 - January 25, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
18	soil & clay	18
16	shale	34
6	lime	40
7	shale	47
16	lime	63
9	shale	72
8	lime	80
8	shale	88
19	lime	107
19	shale	126
19	lime	145
7	shale	152
9	lime	161
2	shale	163
38	lime	201
20	shale	221
9	lime	230
17	shale	247
7	lime	254
9	shale	263
16	lime	279
23	shale	302
1	lime	303
11	shale	314
24	lime	338
8	shale	346
21	lime	367
5	shale	372
3	lime	375
5	shale	380
6	lime	386 base of the Kansas City
25	shale	411
6	silty shale	417 green
143	shale	560
4	lime	564
13	shale	577
5	lime	582
16	shale	598
3	lime	601

36	shale	637 red
3	lime	640
73	shale	713
10	broken sand	723 brown & grey, light bleeding, gassy
22	shale	745
2	lime	747
23	shale	770
1	coal	771
6	shale	777
3	sand	780 grey, limey sand
31	shale	811
1	coal	812
24	shale	836
4.5	oil sand	840.5 brown sand, few thin lime streaks, good bleeding
1.5	broken sand	842 sand & shale, ok bleeding
1	lime	843 brown
1	broken sand	844 shale & brown sand, light bleeding
10.5	shale	854.5
1.5	coal	856
33	shale	889 TD

Drilled a 9 7/8" hole to 22'
 Drilled a 5 5/8" hole to 889'

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

Set 879' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.