



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-20
API # 15-091-23,967
April 10 - April 12, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
14	soil & clay	14
23	shale	37
5	lime	42
2	shale	44
11	lime	55
15	shale	70
18	lime	88
8	shale	96
17	lime	113
17	shale	130
18	lime	148
8	shale	156
50	lime	206
24	shale	230
8	lime	238
18	shale	256
6	lime	262
11	shale	273
11	lime	284
36	shale	320
3	lime	323
7	shale	330
15	lime	345
9	shale	354
23	lime	377
3	shale	380
5	lime	385
5	shale	390
4	lime	394 base of the Kansas City
174	shale	568
5	lime	573
5	shale	578
3	lime	581
4	shale	585
10	lime	595
14	shale	609
4	lime	613
1	shale	614
1	coal	615

11	shale	626
3	lime	629
37	shale	666 red
2	lime	668
5	shale	673
1	lime	674
55	shale	729
4	broken sand	733 brown & grey, light bleeding
2	oil sand	735 brown, good bleeding
2	broken sand	737 brown & grey, ok bleeding
88	shale	825
1	coal	826
21	shale	847
3.5	broken sand	850.5 brown & white, light bleeding
1.5	broken sand	852 brown & grey, good bleeding
1	oil sand	853 brown, good bleeding
3	broken sand	856 brown & grey, ok bleeding
43	shale	899 TD

Drilled a 9 7/8" hole to 22'
 Drilled a 5 5/8" hole to 899'

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

Set 883.5' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.