



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

Kitchen #KRI-13

API # 15-121-29,960

March 20 - March 21, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
5	soil & clay	5
1	broken lime	6
18	shale	24
21	lime	45
20	shale	65
6	lime	71
38	shale	109 red bed
15	lime	124
10	shale	134
12	lime	146
1	shale	147
15	lime	162
9	shale	171
22	lime	193
5	shale	198
3	lime	201
1	shale	202
7	lime	209 base of the Kansas City
14	shale	223
5	sand	228 hard grey sand, no oil or gas
2	silty shale	230
83	shale	313
2	limey sand	315
64	shale	379
6	lime	385 oil show
4	shale	389
4	sand	393 hard green sand (gassy)
7	silty shale	400
35	shale	435
4	lime	439
14	shale	453
1	lime	454
17	shale	471
8	lime	479
19	shale	498
2	lime	500
3	shale	503
6	lime	509 oil show
4	shale	513

3	silty shale	516	70% green silty shale 30% lime
1	broken sand	517	90% oil sand 10% shale good bleeding
1	oil sand	518	brown sand, good bleeding
1.5	oil sand	519.5	brown sand hard good bleeding
2.5	oil sand	522	brown sand, good bleeding
1	broken sand	523	20% brown sand 80% limey sand
1	oil sand	524	brown & grey sand, ok bleeding
3	broken sand	527	25% brown sand 75% shale minimal bleeding
3	shale	530	
7	shale	537	vertical limey oil sand streaks light bleeding
45	shale	582	
2	oil sand	584	brown hard minimal bleeding
1	black sand	585	no oil
2	silty shale	587	
13	shale	600	TD

Drilled a 9 7/8" hole to 22.4'

Drilled a 5 5/8" hole to 600'

Set 22.4' of 7" surface casing cemented with 6 sacks of cement

Set 594.55' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp, 1 baffle.
Baffle set 31.85' from bottom of tally.

Core Times

<u>Minutes</u>	<u>Seconds</u>
516	46
517	50
518	40
519	41
520	39
521	41
522	42
523	47
524	48
525	48
526	47
527	45
528	42
529	41
530	45
531	45
532	42
533	45
534	45
535	43