



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

Joeckel #KRI-44

API # 15-121-30,338

May 8 - May 12, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
27	soil & clay	27
45	shale	72
23	lime	95
11	shale	106
5	lime	111
36	shale	147
14	lime	161
12	shale	173
18	lime	191
4	shale	195
3	lime	198
6	shale	204
24	lime	228
2	shale	230
4	lime	234
6	shale	240
6	lime	246 base of the Kansas City
149	shale	395
7	broken sand	402 light brown & shale hard, light bleeding
3	limey sand	405
4	broken sand	409 60% sand 40% shale, good bleeding
2	limey sand	411 no oil
5	oil sand	416 brown, good bleeding, good saturation
1	lime	417 no oil
12	shale	429
4	lime	433
9	lime	442 some porosity, good bleeding
5	lime	447 no oil
22	shale	469
2	coal	471
6	shale	477
6	lime	483
17	shale	500
2	lime	502
14	shale	516
3	lime	519
28	shale	547
8	lime	555
11	shale	566
1	lime	567
1	shale	568

1	coal	569
21	shale	590
3	broken sand	593 brown sand & shale, light bleeding
22	broken sand	615 brown & grey, no show
14	sand	629 light brown sand, no show, makes water
1	coal	630
15	shale	645
4	broken sand	649 40% sand 60% shale, light bleeding
10	silty shale	659
5	broken sand	664 50% brown sand 50% shale ok bleeding
14	oil sand	678 brown, very good bleeding
3	lime/sand/shale	681 light oil show
4	shale	685
1	coal	686
91	shale	777 TD

Drilled a 9 7/8" hole to 22'

Drilled a 5 5/8" hole to 777'

Set 22' of 7" surface casing cemented with 5 sacks of cement

Set 766.95' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe, 1 clamp and 1 baffle.

Baffle set 32.85' from bottom of tally.

Core Times

<u>Minutes</u>	<u>Seconds</u>
665	40
666	39
667	32
668	35
669	32
670	34
671	33
672	38
673	42
674	41
675	43
676	36
677	47
678	25
679	38
680	32
681	41
682	40
683	41