



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

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WELL LOG

Kansas Resource Exploration & Development, LLC

Joeckel #KR-27

API # 15-121-30,246

April 18 - April 23, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
6	broken lime	6
107	shale	113
20	lime	133
20	shale	153
1	lime	154
3	shale	157
5	lime	162
30	shale	192
14	lime	206
12	shale	218
33	lime	251 oil show
2	shale	253
18	lime	271
3	shale	274
3	lime	277
1	shale	278
12	lime	290 base of the Kansas City
141	shale	431
3	shale	434 red bed
4	silty shale	438
3	lime/shale	441
2	broken sand	443 50% brown sand 50% shale, ok bleeding
1	limey sand	444 white & brown, ok bleeding
3	limey sand	447 light bleeding
1.5	limey sand	448.5 very good bleeding
0.5	lime	449
1.5	limey sand	450.5 very good bleeding
2.5	oil sand	453 brown sand, very good bleeding
1.5	lime	454.5
8	oil sand	462.5 brown, very good bleeding
2.5	limey sand	465 light bleeding
13	shale	478
6	lime	484
6	shale	490
4	lime	494
26	shale	520
9	lime	529
12	shale	541
3	lime	544
14	shale	558

6	limey sand	564
17	shale	581
4	limey sand	585
4	shale	589 light brown, light oil odor, makes water
1	coal	590
4	shale	594
2	limey sand	596
13	shale	609
2	coal	611
13	shale	624
2	silty shale	626
7	shale	633
1	broken sand	634 brown & shale, no show
3	silty shale	637
4	broken sand	641 50% brown sand 50% shale, ok bleeding
2	sand	643 light brown, makes water
21	broken sand	664 light brown sand & shale, makes water
8	sand	672 light brown sand makes water light show
1	coal	673
14	shale	687
1	coal	688
1	silty shale	689
3	broken sand	692 40% brown sand 60% shale, light bleeding
8	silty shale	700 hard
1	broken sand	701 30% brown sand 70% shale, ok bleeding
1	lime/sand/shale	702 10% sand 20% lime 70% shale, minimal bleeding
1	silty shale	703
1	lime/sand/shale	704 10% sand 20% lime 70% shale, minimal bleeding
2	broken sand	706 10% sand 90% shale
12	silty shale	718
1	shale	719
1	silty shale	720
6	shale	726
1	coal	727
1	shale	728
12	shale	740 TD

Drilled a 9 7/8" hole to 20.2'

Drilled a 5 5/8" hole to 740'

Set 20.2' of 7" surface casing cemented with 5 sacks of cement

Set 538.15' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe, 1 clamp and 1 baffle.

Baffle set 31.65' from bottom of tally.

Core Times

	<u>Minutes</u>	<u>Seconds</u>
444	1	36
445	1	38
446	1	48
447	1	10
448	1	50
449	2	50
450	1	3
451		28
452		40
453	4	30
454		59
455		37
456		53
457		54
458		30
459		32
460		38
461		40
462	4	1
463	4	2