



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

JRC Oil Company, Inc.

Cleveland #CZ-46

API #15-003-25,801

August 19 - August 20, 2013

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
5	soil & clay	5
40	shale	45
24	lime	69
22	shale	91
3	lime	94
2	shale	96
1	lime	97
17	shale	114
1	lime	115
32	shale	147
9	lime	156
6	shale	162
40	lime	202
6	shale	208
26	lime	234
5	shale	239 black
11	lime	250 light oil show, base of the Kansas City
183	shale	433
9	lime	442 oil show
12	shale	454
2	sand	456 green
11	shale	467
1	coal	468
7	shale	475
5	silty shale	480
6	shale	486
1	coal	487 base of the Kansas City
8	shale	495
8	lime	503
3	shale	506
2	lime	508
12	shale	520
2	lime	522
26	shale	548
8	lime	556
20	shale	576
1	lime & shells	577

2	shale	579
2	lime	581 grey
10	shale	591
1	lime	592
28	shale	620
3	silty shale	623
5	broken sand	628 brown sand & shale, light bleeding
2	broken sand	630 brown sand & shale, good bleeding
2	oil sand	632 brown sand, good bleeding
8	broken sand	640 brown sand & shale, good bleeding
6	broken sand	646 40% brown sand, 605 shale, good bleeding
11	shale	657
2	sand	659 black
76	shale	735 TD

Drilled a 9 7/8" hole to 22'

Drilled a 5 5/8" hole to 735'

Set 22' of 7" threaded and coupled surface casing, cemented with 6 sacks cement.

Set 731.42' of use 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 seating nipple, 1 clamp.