



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**

D & Z Exploration, Inc.

Cattle Track #2

API # 15-091-24,376

December 4 - December 9, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
14	soil & clay	14
17	shale	31
5	lime	36
4	shale	40
17	lime	57
8	shale	65
9	lime	74
10	shale	84
24	lime	108
15	shale	123
21	lime	144
12	shale	156
16	lime	172
31	shale	203
14	lime	217
12	shale	229
8	lime	237
23	shale	260
7	lime	267
3	shale	270
12	lime	282
43	shale	325
24	lime	349
11	shale	360
15	lime	375
8	shale	383
10	lime	393
2	shale	395
8	lime	403 base of the Kansas City
172	shale	575
6	lime	581
2	shale	583
2	lime	585
10	shale	595
6	lime	601
17	shale	618
3	lime	621
41	shale	662
5	lime	667
79	shale	746

2	oil sand	748 brown, oil odor
2	broken sand	750 brown & grey, oil odor
120	shale	870
4	lime	874 white, no oil show, oil odor
1.5	limey sand	875.5 black & white, 90% bleeding
1.5	oil sand	8777 black, 100% bleeding
2.5	limey sand	879.5 black & white, 80% bleeding
4	broken sand	883.5 black & grey, a few thin bleeding seams
76.5	shale	960 TD

Drilled a 9 7/8" hole to 24'

Drilled a 5 5/8" hole to 960'

Set 24' of 7" surface casing, cemented with 5 sacks of cement.

Set 932' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp

	<u>Minutes</u>	<u>Seconds</u>
875		52
876		36
877		37
878		42
879		42
880		40
881		38
882		38
883		41
884		45
885		55
886		36
887		52
888		51
889		49
890		55
891		55
892		52