



11 Lewis Drive

Paola, KS 66071

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

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WELL LOG

D & Z Exploration, Inc.

Cattle Track #7

API # 15-091-24,382

December 2 - December 3, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
16	soil & clay	16
9	shale	25
22	lime	47
6	shale	53
11	lime	64
8	shale	72
23	lime	95
18	shale	113
20	lime	133
10	shale	143
20	lime	163
32	shale	195
11	lime	206
11	shale	217
9	lime	226
22	shale	248
6	lime	254
5	shale	259
9	lime	268
46	shale	314
25	lime	339
9	shale	348
22	lime	370
3	shale	373
17	lime	390 base of the Kansas City
173	shale	563
5	lime	568
2	shale	570
3	lime	573
10	shale	583
3	lime	586
20	shale	606
4	lime	610
49	shale	659
5	lime	664
68	shale	732
6	oil sand	738 brown, light oil show
115	shale	853
1	oil sand	854 black 100% bleeding
1.5	limey sand	855.5 80% lime 20% sand 20% bleeding

2	oil sand	857.5 black 100% bleeding
1.5	limey sand	859 white, no oil
5	limey sand	864 black & white 40% bleeding
4	broken sand	868 black & grey no bleeding
72	shale	940 TD

Drilled a 9 7/8" hole to 23.9'

Drilled a 5 5/8" hole to 940'

Set 23.9' of 7" surface casing, cemented with 5 sacks of cement.

Set 914' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp

Bartlesville Formation Core Times

	<u>Minutes</u>	<u>Seconds</u>
884	1	18
885	1	33
886	1	23
887		43
888		41
889		34
890		35
891		36
892		34
893		31
894		35
895		31
896		31
897		32
898		36
899		34
900		38
901		46
902		36