



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.

Andrew A #2

API # 15-091-24,403

December 8 - December 9, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
10	soil & clay	10
10	sand & gravel	20
8	lime	28
5	shale	33
14	lime	47
8	shale	55
9	lime	64
9	shale	73
16	lime	89
17	shale	106
69	lime	175
33	shale	208
13	lime	221
13	shale	234
6	lime	240
8	shale	248
18	lime	266
17	shale	283
2	lime	285
9	shale	294
9	lime	303
2	shale	305
15	lime	320
6	shale	326
22	lime	348
4	shale	352
15	lime	367 base of the Kansas City
178	shale	545
4	lime	549
3	shale	552
3	lime	555
8	shale	563
8	lime	571
14	shale	585
6	lime	591
95	shale	686
4	lime	690
17	shale	707
12	oil sand	719 brown, light bleeding
22	shale	741

6	lime	747
88	shale	835
1.5	limey sand	836.5 black & white 2% bleeding
3	shale	839.5
4	limey sand	843.5 black & white, 20% bleeding
3	shale	846.5
0.5	broken sand	847 black & green, no bleeding
2.5	shale	849.5
3.5	broken sand	853 black & green, no bleeding
67	shale	920 TD

Drilled a 9 7/8" hole to 20.5'

Drilled a 5 5/8" hole to 920'

Set 20.5' of 7" surface casing, cemented by Consolidated Oil Well Service..

Set 894.45' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, 1 clamp, 1 seating nipple

	<u>Minutes</u>	<u>Seconds</u>
836		13
837	1	4
838		26
839		59
840		33
841		40
842		24
843		25
844		28
845		37
846		41
847		37
848		34
849		39
850		36
851		37
852		34
853		29
854		39
855		41