



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

Tailwater, Inc.

North Kempnich # 2-IWU

API #15-003-26,226

October 9 - October 20, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
11	soil & clay	11
4	clay & gravel	15
93	shale	108
35	lime	143
63	shale	206
10	lime	216
7	shale	223
33	lime	256
8	shale	264
20	lime	284
3	shale	287
22	lime	309 base of the Kansas City
173	shale	482
2	lime	484
4	shale	488
3	lime	491
5	shale	496
8	lime	504 oil show
8	shale	512
6	oil sand	518 green ok bleeding
10	shale	528
1	coal	529
2	shale	531
16	oil sand	547 green good bleeding
5	shale	552
2	coal	554
5	shale	559
9	lime	568
12	shale	580
4	lime	584
27	shale	611
2	lime	613
45	shale	658
2	limy sand	660 green & white, no oil
.1	broken sand	661 brown & green good bleeding
1	oil sand	662 brown, good bleeding
3	broken sand	665 brown & green good bleeding
24	shale	689 TD

Drilled a 9 7/8" hole to 22.6'

Drilled a 5 5/8" hole to 689'

Set 22.6' of 7" surface casing with 5 sacks of cement.

Set 683' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.