



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.

South Kempnich # 12-IWU

API #15-003-26,383

October 31 - November 3, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
13	soil & clay	13
3	clay & gravel	16
61	shale	77
26	lime	103
2	shale	105
2	lime	107
67	shale	174
11	lime	185
4	shale	189 oil show
37	lime	226
7	shale	233
20	lime	253
6	shale	259
20	lime	279 base of the Kansas City
66	shale	345
5	sand	350 no oil
107	shale	457
2	lime	459
8	shale	467
6	lime	473
18	shale	491
5	oil sand	496 green ok bleeding
1	shale	497
1	coal	498
4	shale	502
13	oil sand	515 green good bleeding
6	shale	521
2	coal	523
6	shale	529
5	lime	534
7	shale	541
2	lime	543
8	shale	551
3	lime	554
51	shale	605
3	lime	608
23	shale	631
1	limy sand	632 green, no oil
2	broken sand	634 brown & green, good bleeding

1	oil sand	635 brown good bleeding
2	broken sand	637 brown & green good bleeding
2	broken sand	639 brown & green, light bleeding
33	shale	672
1	lime & shells	673
6	oil sand	679 brown, good bleeding
42	shale	721
3	broken sand	724 brown & green, light bleeding
10	shale	734
2	oil sand	736 brown light bleeding
47	shale	783
48	sand	831 white & grey, no oil
49	shale	880 TD

Drilled a 9 7/8" hole to 22.6'

Drilled a 5 5/8" hole to 880'

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

Set 834.9' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.