



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 # 10-IWU

API #15-003-26,381

November 11 - November 12, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
10	soil & clay	10
4	clay & gravel	14
76	shale	90
29	lime	119
70	shale	189
9	lime	198
8	shale	206
33	lime	239
1	shale	240
27	lime	267
1	shale	268
26	lime	294 base of the Kansas City
176	shale	470
6	lime	476
3	shale	479
6	lime	485 oil show
16	shale	501
4	oilsand	505 green oil bleeding
1	shale	506
1	coal	507 green light oil show
3	shale	510
17	oilsand	527 green good bleeding
5	shale	532
2	coal	534
4	shale	538
3	lime	541
4	shale	545
4	lime	549
11	shale	560
5	lime	565
22	shale	587
10	lime	597
46	shale	643
2	limey sand	645 green & white no oil
2	broken oil sand	647 brown & green good bleeding
1	oilsand	648 brown good bleeding
3	broken sand	651 brown & green good bleeding
2	broken sand	653 brown & green 90%shale lite bleeding
20	shale	673 TD

Drilled a 9 7/8" hole to 22.6'

Drilled a 5 5/8" hole to 673'

Set 22.6' of 7" surface casing with 4 sacks of cement.

Set 668.1' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.