



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 #28-IWU

API #15-003-26,254

August 28 - August 29, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
4	soil & clay	4
4	clay & gravel	8
77	shale	85
25	lime	110
72	shale	182
10	lime	192
4	shale	196
35	lime	231
8	shale	239
20	lime	259 oil show
3	shale	362
23	lime	285 base of the Kansas City
30	shale	315
22	sand	337 grey no oil
126	shale	463
2	lime	465
5	shale	470
7	lime	477 oil show
16	shale	493
4	oil sand	497 green light bleeding
5	silty shale	502
1	coal	503
1	shale	504
16	oil sand	520 green good bleeding
8	shale	528
1	coal	529
4	shale	533
6	lime	539
17	shale	556
3	lime	559
27	shale	586
2	lime	588
20	shale	608
3	lime	611
26	shale	637
1	broken sand	638 brown & green good bleeding
3	oil sand	641 brown good bleeding
1	broken sand	642 brown & green good bleeding
25	shale	667 TD

Drilled a 9 7/8" hole to 21.4'
Drilled a 5 5/8" hole to 667'

Set 21.4' of 7" surface casing threaded and coupled cemented with 5 sacks of cement.

Set 661.9' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.