



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 # 14-IWU

API #15-003-26,238

September 24 - September 25, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
14	soil & clay	14
4	clay & gravel	18
49	shale	67
28	lime	95
68	shale	163
10	lime	173
7	shale	180
33	lime	213
7	shale	220
22	lime	242
3	shale	245
21	lime	266 base of the Kansas City
176	shale	442
3	lime	445
6	shale	451
7	lime	458
17	shale	475
24	oil sand	499 green oil sand
5	shale	504
2	coal	506
3	shale	509
8	lime	517
14	shale	531
4	lime	535
21	shale	556
5	lime	561
25	shale	586
4	lime	590
9	shale	599
4	lime	603
7	shale	610
1	limey sand	611 green no oil
1	broken sand	612 brown & green oil bleeding
2	oil sand	614 brown good bleeding
3	broken sand	617 brown & green oil bleeding
33	shale	650
1	lime	651
5	oil sand	656 brown good bleeding

5	broken sand	661 brown & grey oil bleeding
21	shale	682
1	coal	683
51	shale	734 TD

Drilled a 9 7/8" hole to 22.5'

Drilled a 5 5/8" hole to 734'

Set 22.25' of 7" surface casing with 5 sacks of cement.

Set 724' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.