



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 # 5-IWU

API #15-003-26,229

September 10 - September 11, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
6	soil & clay	6
4	clay & gravel	10
86	shale	96
29	lime	125
49	shale	174
2	lime	176
18	shale	194
10	lime	204
3	shale	206
18	lime	225
4	shale	229
40	lime	269
6	shale	275
18	lime	293 base of the Kansas City
176	shale	469
5	lime	474
10	shale	484
4	lime	488 oil show
10	shale	498
9	oil sand	507 green ok bleeding
1	coal	508
3	shale	511
15	oil sand	526 green good bleeding
5	shale	531
2	coal	533
2	shale	535
5	lime	540
18	shale	558
3	lime	561
18	shale	579
15	lime	594
16	shale	610
3	lime	613
24	shale	637
2	limey sand	639 green & white, no oil
4	broken sand	643 brown & green light bleeding
33	shale	676 oil bleeding
1	lime & shells	677

1	limey sand	678 brown & white, no oil
5	oil sand	683 brown good bleeding
5	broken sand	688 brown & grey good bleeding
28	shale	716 TD

Drilled a 9 7/8" hole to 21.7'

Drilled a 5 5/8" hole to 716'

Set 21.7' of 7" surface casing threaded and coupled cemented with 5 sacks of cement.

Set 706' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.