



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 #23-IWU

API #15-003-26,249

August 21 - August 22, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
10	soil & clay	10
4	clay & gravel	14
104	shale	118 oil show
35	lime	153
62	shale	215
11	lime	226
5	shale	231
34	lime	265
7	shale	272
22	lime	294
3	shale	297
20	lime	317 base of the Kansas City
30	shale	347
12	sand	359 grey no oil
133	shale	492
2	lime	494
6	shale	500
11	lime	511 oil show
9	shale	520
7	oil sand	527 green, ok bleeding
4	shale	531
1	coal	532
1	shale	533
20	oil sand	553 green great bleeding
5	shale	558
1	coal	559
24	shale	583
5	lime	588
17	shale	605
9	lime	614
50	shale	664
1	sand	665 green no oil
6	broken sand	671 brown & green good bleeding
23	shale	694 TD

Drilled a 9 7/8" hole to 21.6'

Drilled a 5 5/8" hole to 694'

Set 21.6' of 7" surface casing threaded and coupled cemented with 5 sacks of cement.

Set 689.5' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.