



11 Lewis Drive

Paola, KS 66071

**Oil & Gas Well Drilling  
Water Wells  
Geo-Loop Installation**

Phone: 913-557-9083

Fax: 913-557-9084

**WELL LOG**

Tailwater, Inc.

North Kempnich #22-IWU

API #15-003-26,248

August 22 - August 25, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
16	soil & clay	16
3	clay & gravel	19
104	shale	123
27	lime	150
68	shale	218
12	lime	230
6	shale	236
33	lime	269
6	shale	275
21	lime	296
3	shale	299
22	lime	321 base of the Kansas City
30	shale	351
11	sand	362 grey no oil
128	shale	490
2	lime	492
3	shale	495
4	lime	499
6	shale	505
6	lime	511
13	shale	524
11	oil sand	535 green, ok bleeding
1	coal	536
1	shale	537
23	oil sand	560 green good bleeding
1	coal	561
8	shale	569
10	lime	579
9	shale	588
3	lime	591
20	shale	611
9	lime	620
21	shale	641
3	lime	644
26	shale	670
5	broken sand	675 brown & green good bleeding
20	shale	695 TD

Drilled a 9 7/8" hole to 21.6'

Drilled a 5 5/8" hole to 695'

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

Set 689.9' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.