



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.

N. Kempnich #5-IWM

API #15-003-26,419

January 27 - January 28, 2015

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
18	soil & clay	18
5	clay & gravel	23
104	shale	127
28	lime	155
69	shale	224
10	lime	234
5	shale	239
36	lime	275
5	shale	280
19	lime	299
3	shale	302
26	lime	328 base of the Kansas City
171	shale	499
4	lime	503
7	shale	510
6	lime	516
20	shale	536
1	coal	537
1	shale	538
20	oil sand	558 green, good bleeding
3	shale	561
2	coal	563
4	shale	567
4	lime	571
10	shale	581
5	lime	586
3	shale	589
3	lime	592
22	shale	614
5	lime	619
51	shale	670
2	limy sand	672 green & white, no oil
4	broken sand	676 brown & green ok bleeding
3	broken sand	679 brown & green
30	shale	709
1	lime & shells	710
4	oil sand	714 brown, good bleeding

4
50

broken sand
shale

718 brown & grey, ok bleeding
768 TD

Drilled a 9 7/8" hole to 27.6'

Drilled a 5 5/8" hole to 768'

Set 27.2' of 7" surface casing with 5 sacks of cement.

Set 758.9' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.