



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.

South Kempnich #3-IWM

API #15-003-26,416

January 23 - January 26, 2015

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
15	soil & clay	15
3	clay & gravel	18
95	shale	113
27	lime	140
69	shale	209
10	lime	219
7	shale	226
34	lime	260
6	shale	266
20	lime	286
3	shale	289
22	lime	311 base of the Kansas City
175	shale	486
3	lime	489
6	shale	495
4	lime	499 oil show
10	shale	509
14	oil sand	523 green, ok bleeding
3	shale	526
1	coal	527
2	shale	529
16	oil sand	545 green, good bleeding
4	silty shale	549
2	coal	551 green, light oil show
4	shale	555
5	lime	560
17	shale	577
3	lime	580
19	shale	599
10	lime	609
45	shale	654
1	limy sand	655 green & white, no oil
2	broken sand	657 brown & green, light bleeding
4	broken sand	661 brown & green, good bleeding
3	broken sand	664 brown & green, light oil show
31	shale	695
1	lime & shells	696

4	oil sand	700 brown, good bleeding
4	broken sand	704 brown & black, ok bleeding
37	shale	741 TD

Drilled a 9 7/8" hole to 23.5'

Drilled a 5 5/8" hole to 741'

Set 23.5' of 7" surface casing with 6 sacks of cement.

Set 731.7' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.