



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 # 6-IWU

API #15-003-26,230

September 8 - September 10, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
11	soil & clay	11
4	clay & gravel	15
56	shale	71
40	lime	111
40	shale	151
10	lime	161
18	shale	179
10	lime	189
5	shale	194
35	lime	229
6	shale	235
21	lime	256
4	shale	260
21	lime	281 base of the Kansas City
171	shale	452
2	lime	454
2	shale	456
17	lime	473 oil show
18	shale	491
4	sand	495 green, no oil
4	oil sand	499 green good bleeding
1	coal	500
3	shale	503
13	oil sand	516 green, good bleeding
5	shale	521
1	coal	522
3	shale	525
9	lime	534
16	shale	550
4	lime	554
17	shale	571
9	lime	580
23	shale	603
2	lime	605
24	shale	629
2	limey sand	631 green & white, no oil
3	broken sand	634 brown & green 30% bleeding
34	shale	668
1	lime & shells	669

4	oil sand	673 brown 90% bleeding
7	broken sand	680 brown & grey 30% bleeding
48	shale	728 TD

Drilled a 9 7/8" hole to 21.7'

Drilled a 5 5/8" hole to 728'

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

Set 718.6' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.

Core Times

	<u>Minutes</u>	<u>Seconds</u>		<u>Minutes</u>	<u>Seconds</u>
632		43	670		31
633		31	671		25
634		35	672		27
635		29	673		30
636		34	674		26
637		43	675		27
638		34	676		28
639		34	677		25
640		37	678		26
641		32	679		24
642		28	680		31
643		29	681		28
645		30	682		26
		33	683		24
			684		25
			685		37