



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 #17-L

API #15-003-26,199

October 6 - October 7, 2014

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
15	soil & clay	15
4	clay & gravel	19
46	shale	65
27	lime	92
69	shale	161
10	lime	171
6	shale	177
33	lime	210
6	shale	216
27	lime	243
3	shale	246
24	lime	270 base of the Kansas City
176	shale	446
4	lime	450
5	shale	455
8	lime	463 oil show
8	shale	471
10	oil sand	481 green, light bleeding
4	shale	485
1	coal	486
2	shale	488
20	oil sand	508 green ok bleeding
4	shale	512
2	coal	514
6	shale	520
5	lime	525
6	shale	531
3	lime	534
6	shale	540
4	lime	544
24	shale	568
11	lime	579
14	shale	593
2	lime	595
24	shale	619
1	limy sand	620 green & white no oil
6	broken sand	626 brown & green good bleeding
34	shale	660
1	lime & shells	661

4	oil sand	665 brown, good bleeding
2	broken sand	667 brown & grey ok bleeding
56	shale	723
1	broken oil sand	724 brown & grey light bleeding
12	shale	736
3	broken sand	739 brown & grey light bleeding
3	shale	742
4	broken sand	746 brown & grey light bleeding
1.5	shale	747.5
1	oil sand	748.5 brown, 90% bleeding
1	shale	749.5
2	broken sand	751.5 brown & grey 80% bleeding
4.5	oil sand	756 brown, 100% bleeding
1	limey sand	757 white, no oil
1	oil sand	758 black, no bleeding
2	oil sand	760 brown 90% bleeding
2	broken sand	762 brown & grey 5% bleeding
2	shale	764
0.5	broken sand	764.5 brown & grey 20% bleeding
3	oil sand	767.5 brown 100% bleeding
0.5	shale	768
1	broken sand	769 brown & grey 50% bleeding
0.5	shale	769.5
2.5	oil sand	772 brown 100% bleeding
1	shale	773
1.5	oil sand	774.5 brown 100% bleeding
1.5	shale	776
1	broken sand	777 brown & grey 40% bleeding
7	shale	784
5	oil sand	789 black & white light bleeding
5	silty shale	794
13	oil sand	807 brown good bleeding
10	broken sand	817 black & white light bleeding
7	shale	824
13	sand	837 white, no oil
24	shale	861 TD

Drilled a 9 7/8" hole to 22.6'

Drilled a 5 5/8" hole to 861'

Set 22.6' of 7" surface casing with 5 sacks of cement.

Set 851' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.

Core Times

	<u>Minutes</u>	<u>Seconds</u>		<u>Minutes</u>	<u>Seconds</u>
746		57	767		51
747		35	768		36
748		24	769		33
749		30	770		32
750		24	771		32
751		25	772		34
752		17	773		32
753		24	774		27
754		24	775		34
755		22	776		33
756	1	21	777		33
757		43	778		30
758		33	779		36
759		34	780		35
760		38	781		34
761		29	782		40
762		36	783		42
763		37	784		38
764		34	785		32
765		34			
766		33			