



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.

Lickteig # 1-US

API #15-003--30,902

January 21 - January 22, 2015

<u>Thickness of Strata</u>	<u>Formation</u>	<u>Total</u>
20	soil & clay	20
4	clay & gravel	24
114	shale	138
27	lime	165
68	shale	233
10	lime	243
2	shale	245
37	lime	282
2	shale	284
13	lime	297
1	shale	298
35	lime	333 base of the Kansas City
170	shale	503
3	lime	506
9	shale	515
8	lime	523 oil show
23	shale	546
1	coal	547
4	shale	551
13	oil sand	564 green, good bleeding
4	silty shale	568
2	coal	570
6	shale	576
4	lime	580
14	shale	594
4	lime	598
76	shale	674
2	limy sand	676 green & white, no oil
3	broken sand	679 brown & green 40% bleeding
2	broken sand	681 brown & green, no bleeding
31	shale	712
1	lime & shells	713
4	oil sand	717 brown, good bleeding
6	broken sand	723 brown & black, ok bleeding
50	shale	773 TD

Drilled a 9 7/8" hole to 35.6'

Drilled a 5 5/8" hole to 773'

Set 35.6' of 7" surface casing with 8 sacks of cement.

Set 763.6' 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>
673		40
674		36
675		34
676		33
677		40
678		35
679		37
680		48
681		38
682		37
683		38
684		39
685		42
686		55
687	1	5
688		55
689		53