



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.

Finkenbinder #4-IWM

API #15-003-26,414

January 20 - January 21, 2015

| <u>Thickness of Strata</u> | <u>Formation</u> | <u>Total</u> |
|----------------------------|------------------|-----------------------------------|
| 16 | soil & clay | 16 |
| 4 | clay & gravel | 20 |
| 98 | shale | 118 |
| 27 | lime | 145 |
| 69 | shale | 214 |
| 10 | lime | 224 |
| 5 | shale | 229 |
| 36 | lime | 265 |
| 5 | shale | 270 |
| 19 | lime | 289 |
| 3 | shale | 292 |
| 26 | lime | 318 base of the Kansas City |
| 173 | shale | 491 |
| 2 | lime | 493 |
| 5 | shale | 498 |
| 8 | lime | 506 oil show |
| 6 | shale | 512 |
| 19 | oil sand | 531 green, ok bleeding |
| 1 | shale | 532 |
| 1 | coal | 533 |
| 2 | shale | 535 |
| 16 | oil sand | 551 green, good bleeding |
| 4 | shale | 555 |
| 2 | coal | 557 |
| 3 | shale | 560 |
| 9 | lime | 569 |
| 4 | shale | 573 |
| 2 | lime | 575 |
| 7 | shale | 582 |
| 5 | lime | 587 |
| 16 | shale | 603 |
| 11 | lime | 614 |
| 47 | shale | 661 |
| 2 | limey sand | 663 green & white, no oil |
| 4 | broken sand | 667 brown & green, good bleeding |
| 2 | broken sand | 669 brown & green, light bleeding |
| 32 | shale | 701 |
| 1 | lime & shells | 702 |

| | | |
|----|-------------|--------------------------------|
| 4 | oil sand | 706 brown, good bleeding |
| 2 | broken sand | 708 brown & black, ok bleeding |
| 6 | silty shale | 714 |
| 51 | shale | 765 TD |

Drilled a 9 7/8" hole to 23.5'

Drilled a 5 5/8" hole to 765'

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

Set 755.9' of 2 7/8" 8 round upset tubing including 3 centralizers, 1 float shoe, and 1 clamp.