



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.

P. Winfrey #9-T

API #15-003-25,793

March 15 - March 18, 2013

| <u>Thickness of Strata</u> | <u>Formation</u> | <u>Total</u> |
|----------------------------|------------------|-----------------------------------|
| 10 | soil & clay | 10 |
| 3 | clay& gravel | 13 |
| 37 | shale | 50 |
| 28 | lime | 78 |
| 65 | shale | 143 |
| 10 | lime | 153 |
| 5 | shale | 158 |
| 37 | lime | 195 |
| 12 | shale | 207 |
| 22 | lime | 229 |
| 3 | shale | 232 |
| 21 | lime | 253 base of the Kansas City |
| 172 | shale | 425 |
| 3 | lime | 428 |
| 3 | shale | 431 |
| 3 | lime | 434 |
| 2 | shale | 436 |
| 8 | lime | 444 oil show |
| 7 | shale | 451 |
| 11 | broken sand | 462 brown & green, light bleeding |
| 11 | shale | 473 |
| 20 | oil sand | 493 green, good bleeding |
| 2 | shale | 495 |
| 1 | coal | 496 |
| 7 | shale | 503 |
| 6 | lime | 509 |
| 15 | shale | 524 |
| 8 | lime | 532 |
| 33 | shale | 565 |
| 7 | lime | 572 |
| 29 | shale | 601 |
| 3 | broken sand | 604 brown & green, light bleeding |
| 3 | shale | 607 |
| 4 | broken sand | 611 brown & green, light bleeding |
| 34 | shale | 645 |
| 1 | lime & shells | 646 |
| 1 | sand | 647 black, no oil show |
| 5 | oil sand | 652 brown, ok bleeding |

| | | |
|-----|----------|--------------------------|
| 116 | shale | 768 |
| 7 | sand | 775 white, no oil |
| 5 | oil sand | 780 brown, good bleeding |
| 70 | shale | 850 TD |

Drilled a 9 7/8" hole to 22.5'

Drilled a 5 5/8" hole to 850'

Set 22.5' of 7" surface casing cemented with 6 sacks of cement.

Set 840.5' of 2 7/8" 8 round upset tubing with 3 centralizers, 1 float shoe and 1 clamp.