

LION OIL & REFINING COMPANY
El Dorado, Arkansas

Stumpff #1

Center of NW/4 of NE/4 of
NE/4, Sec. 33, Twsp. 14,
Range 11W, Russell County,
Kansas.

Contractor: H. W. Kine Drilling Company
Commenced: September 11, 1943

Completed: September 27, 1943

| <u>LOG</u> | |
|--------------------------|---|
| Sand & Shells | Top- 135 |
| Shale & Sand Shells | 135- 284 8 5/8" casing cemented at 284' |
| Sand | 284- 420 |
| Shale & Red Bed | 420- 565 |
| Anhydrite | 565- 600 |
| Red Bed | 600- 620 |
| Red Bed, Shale, & Shells | 620- 965 |
| Shale & Shells | 965-1000 |
| Salt | 1000-1075 |
| Shale & Shells | 1075-1180 |
| Lime & Shale | 1180-1636 |
| Sand | 1636-1645 |
| Shale & Lime | 1645-1715 |
| Lime (broken) | 1715-1975 |
| Shale | 1975-2110 |
| Shale & Shells | 2110-2435 |
| Lime | 2435-2475 |
| Lime & Shale | 2475-2565 |
| Lime | 2565-2755 |
| Sand & Sandy Shale | 2755-2807 |
| Shale & Lime | 2807-2818 |
| Lime | 2818-3165 |
| Shale | 3165-3173 |
| Sand & Chert | 3173-3177 |
| Lime | 3177-3238 Total Depth 3238' |

State of Kansas)
County of Barton) ss.

I, C. W. Goddard, do hereby certify that the above is a true and correct copy of the log of the Stumpff Well No. 1, located in the center of NW/4 of NE/4 of NE/4, Section 33, Township 14S, Range 11W, Russell County, Kansas.

C. W. Goddard
C. W. Goddard

Sworn to and subscribed before me this 30th day of September, 1943.

E. G. Doughton
E. G. Doughton

My commission expires December 4th, 1943

32 14 (11)
92 41