

10-9-21W

DRILLERS LOG

LOVERIDGE NO. 5 WELL

| | | | |
|------------------------------------|-------------|----------------------|---|
| CASING RECORD: | OPERATOR: | Continental Oil Co. | DESCRIPTION: |
| Set 268' 8-5/8" w/200 sx cement | CONTRACTOR: | John O. Farmer, Inc. | E/2 E/2 SE Sec. 10-9S-21W Graham Co, Kansas |
| TOTAL DEPTH: 3770' | COMMENCED: | December 9, 1972 | |
| | COMPLETED: | December 20, 1972 | |

| <u>FORMATION</u> | <u>FROM</u> | <u>TO</u> | <u>REMARKS</u> |
|------------------|-------------|-----------|----------------|
| Surface | 0 | 267 | |
| Shale | 268 | 1160 | |
| Sand | 1160 | 1415 | |
| Red bed | 1415 | 1490 | |
| Shale & Shells | 1490 | 1673 | |
| Anhydrite | 1673 | 1706 | |
| Shale & Shells | 1706 | 2106 | |
| Shale & Lime | 2106 | 3435 | |
| Lime | 3435 | 1760 | |
| Arbuckle | 3760 | 3770 | |
| R.T.D. | 3770 | | |

| | | | |
|--|------------|-------------|--------------|
| | Log | tops | depth |
| | Heeb | | 3353 |
| | Lans | | 3391 |
| | Bkc | | 3610 |
| | Ord Cong | | 3698 |
| | Ltd | | 3750 |
| | Arb | | 3753 |
| | Rtd | | 3770 |

5-1/2" set @ 3768'
with 200 sacks cement.

I certify that this is a true and correct copy of the above log to the best of my knowledge.

JOHN O. FARMER, INC.

John O. Farmer
John O. Farmer
President-Drilling Contractor

Subscribed and sworn to before me this 27th day of December, 1972.