

COMPANY BEARDMORE et al.

SEC. 20 T. 31 R. 12W  
LOC. NW NW NW

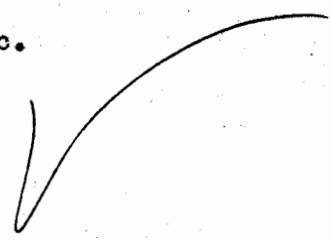
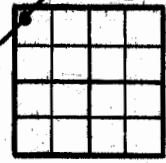
FARM Calloway

NO. 1

20-31-12W

COUNTY Barber

KANSAS



TOTAL DEPTH 4663'

COMM. 4-1-51

COMP. 4-24-51

SHOT OR TREATED

CONTRACTOR Beardmore Drilg. Co., Inc.

ISSUED 6-16-51

CASING

8 5/8" 147' w/100 SXS.

ELEVATION 1619 DF

PRODUCTION dry

FIGURES INDICATE BOTTOM OF FORMATIONS

|                    |      |
|--------------------|------|
| red bed            | 60   |
| red rock           | 130  |
| shale, shells      | 147  |
| red bed, shale     | 490  |
| shale, shells      | 1470 |
| shale, lime        | 1580 |
| lime               | 2200 |
| lime, shale        | 3570 |
| sand, shale        | 3600 |
| sand               | 3665 |
| sand, lime         | 3687 |
| lime, shale        | 3735 |
| lime               | 3825 |
| lime, shale broken | 3875 |
| lime, shale        | 3915 |
| lime               | 3950 |
| lime, shale        | 4180 |
| lime, chert        | 4217 |
| shale, lime        | 4240 |
| lime               | 4337 |
| lime, shale        | 4395 |
| lime               | 4460 |
| lime, shale        | 4501 |
| sand               | 4514 |
| sand, lime         | 4545 |
| lime, shale        | 4561 |
| shale              | 4612 |
| lime               | 4663 |
| Total depth        |      |

|              |      |
|--------------|------|
| Tops:        |      |
| Hobner Shale | 3499 |
| Lansing      | 3704 |
| Mississippi  | 4195 |
| Wanderhook   | 4312 |
| Viola        | 4416 |
| Simpson      | 4497 |
| Arbuckle     | 4609 |

BIT 4370 open 45 min; No BHP  
Recovered 10' mud.

BIT 4494-4509 open 15 min;  
no blow; No. BHP Recovered  
15' mud.