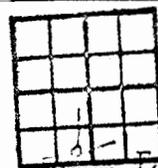


508 East Murdock
Wichita, Kansas

WELL RECORD



SE SW
18-31-17W

APR 24 1972

API# 15-033-20, 118

Company Cities Service Oil Company Well No. 1 Farm Ridge-Pepperd "A"

Location 660' FSL & 1980' FWL Sec. 18 T. 31 R. 17W

Elevation R.K.B. 2046' County Comanche State Kansas

Initial Prod. Dry Hole - P&A 3/30/72 Contractor Garvey Drilling Company

Acid None Drlg. Comm. March 17, 1972

T.D. Rotary T.D. 5069' - Log T.D. 5071' Drlg. Comp. March 30, 1972

CASING RECORD:

8-5/8" set at 530' with 260 sacks regular pozmix + 2% C.C. and 75 sacks common + 2% C.C.

FORMATION RECORD:

| | |
|----------------|--------------|
| Clay | 0 - 30' |
| Sand | 65' |
| Clay | 100' |
| Sand | 160' |
| Shale & Redbed | 1100' |
| Shale | 1545' |
| Shale & Lime | 4250' |
| Shale | 4320' |
| Lime | 5069' - T.D. |

DRILL STEM TESTS:

D.S.T. #1 - 4958-4990' Mississippi - 32'.
 Open 10 mins. - Strong blow -
 S.I. 30 mins. - Open 60 mins. -
 Gas to surface in 1 min. - 49 MCF
 in 10 mins. - 60 MCF in 60 mins.
 Recovered 55' Gas Cut Drill Mud.
 ISIP 1550# - 30 mins.; IF 47#;
 FF 47#; FSIP 1533# - 30 mins.
 B.H.T. 118°F.

D.S.T. #2 - 4990-5020'. Open 10 mins. Strong blow.
 S.I. 30 mins. Open 60 mins. Gas
 to surface 10 mins. Too small to
 measure - 6 mins. S.I.
 Recovered 75' G.C.D.M.
 ISIP 1356# - IF 28# - FF 47# -
 FSIP 1318#.

LOG TOPS:

| | | |
|------------------|-------|-------|
| Heebner | 4156' | -2110 |
| Toronto | 4170' | -2124 |
| Lansing | 4324' | -2278 |
| Base Kansas City | 4768' | -2722 |
| Marmaton | 4779' | -2733 |
| Ft. Scott | 4903' | -2859 |
| Cherokee | 4912' | -2866 |
| Mississippi | 4966' | -2920 |
| Log T.D. | 5071' | |

SLOPE TESTS:

| | | |
|-------|---|------|
| 532' | - | 1/2° |
| 1100' | - | 1/2° |
| 2085' | - | 3/4° |
| 2320' | - | 1/2° |
| 2854' | - | 3/4° |
| 3490' | - | 3/4° |
| 4130' | - | 1/2° |
| 4690' | - | 1/2° |

