

KANSAS GEOLOGICAL SURVEY
508 East Murdock
Wichita, Kansas

MAR 8 1969

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KANSAS GEOLOGICAL SOCIETY

508 East Murdock
WICHITA, KANSAS 67214

25-22-21W

Company..... Cities Service Oil Company..... Well No..... 1..... Farm..... Nichols "C"
 Location..... ^{CMSW} 1980' FWL & 1980' FSL..... Sec..... 25..... T..... 22..... R..... 21W
 2294' DF
 Elevation..... 2292' GL, 2297' KB..... County..... Hodgeman..... State..... Kansas
 State Test (2-14-69)
 Initial Prod. 15 bbls. oil, 12 bbls. water, 24 hrs. Contractor. Leben Drilling, Inc.
 Acid..... 750 gals. acid; fraced w/ 5000 gals. gelled crude..... Drlg. Comm. Dec. 9, 1968
 T.D. 4545', PBTD 4519'..... Drlg. Comp. Dec. 23, 1968

CASING RECORD:

8-5/8" @ 401' cem. with 225 sx
4-1/2" @ 4541' cem. with 100 sx

FORMATION RECORD:

| | |
|---------------------------|---------|
| sand & clay | 0-60' |
| shale with sand stringers | 401 |
| shale | 450 |
| sand & red bed | 1353 |
| shale | 1404 |
| anhydrite | 1423 |
| shale, shells, salt | 1900 |
| shale & lime | 2660 |
| lime | 2740 |
| lime & shale | 3985 |
| lime | 4445 |
| lime & chert | 4545 TD |

DRILL STEM TESTS:

DST #1 - 4510-4523, open 60 mins., S.I. 30-30, strong blow throughout test; recovered 1080' gas in drill pipe, 210' clean-cut and 60' mud-cut oil, 60' oil-cut mud; 3/4" choke bottom, 1" choke top; ISIP 934#, IFP 37#, FFP 128#, FSIP 641#.

DST #2 - 4523-4533, 10', Miss., open 60 mins., S.I. 30-30, weak blow throughout, recovered 68' slightly oil-cut mud; ISIP 1393#, IFP 37#, FFP 55#, FSIP 1357#. Choke 1" top, 3/4" bottom

DST #3 - 4533-4545, 12', Miss., open 60 mins., S.I. 30-30, weak blow throughout, choke 1" top, 3/4" bottom, recovered 40' thin watery mud, 120' muddy water; ISIP 1366#, IFP 37#, FFP 128#, FSIP 1292#.

ELECTRIC LOG TOPS:

| | |
|------------------|--------------|
| Heebner | 3860 (-1563) |
| Toronto | 3876 (-1579) |
| Lansing | 3935 (-1638) |
| Base Kansas City | 4296 (-1999) |
| Fort Scott | 4442 (-2145) |
| Cherokee | 4466 (-2169) |
| Mississippi | 4509 (-2212) |

COMPLETION:

Perf. Miss. 4510-18' w/ 16 shots.
Acidized with 750 gals.
Fraced with 5000 gals. gelled crude oil, 3900 gals. oil flush.

SLOPE TESTS:

| | |
|-------|--------|
| 401' | 0° |
| 1000' | 1/2° |
| 1835' | 1-1/4° |
| 2440' | 3/4° |
| 2686' | 1° |
| 3035' | 2° |
| 3376' | 1° |
| 3725' | 1° |
| 3985' | 1-1/4° |
| 4455' | 3/4° |

