

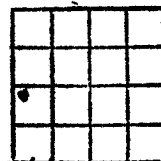
WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY
508 East Murdock, Wichita, Kansas

18-21-3E

Company- CITIES SERVICE OIL COMPANY
Farm- Loewen "C" No. 4

SEC. 18 T. 21 R. 3E
NW NW SW
400' S & 330' E of
N/4 Corner
County Marion KANSAS

Total Depth. 2905'
Comm. 12-26-56 Comp. 1-2-57
Shot or Treated.
Contractor. White & Ellis Drilling Company
Issued. 3-23-57



CASING:
8 5/8" @104' w/80 sx cem.
5 1/2" @2886' w/150 sx cem.

Elevation. 1468' RTD(5' above G. L.)

Production. I. P. 371 BO, no wtr. 24 hrs. (natural)

Figures indicate Bottom of Formations. All measurements from RTB 17,856 BOPD (State Draw Down) (5' above G.L.) (after az.)

soil 5
clay & shale 55
shale 65
lime 70
shale 90
lime 100
lime & Anhydrite 145
shale & lime strk 650
shale & shells 780
shale & lime strk 900
shale & shells 1075
sand 1115
lime & shale strk 1540
lime 1565
shale & lime strk 1625
lime 1695
sand & sdy. shale 1756
lime 1812
shale & lime strk 1846
sand 1943
shale 1960
lime & shale 2049
lime 2174
shale 2181
lime 2417
lime & shale strk 2611
chert 2678
shale 2817
Core #1 2849
shale 2884
lime 2905

TOPS
Misener Sd. 2820' (-1352)
Base 2821' No oil noted.
Hunton Ls. 2821' (-1353)
Base 2831'
2821-27 Best sat. & perm.
2827-31 Med. Por. & sat.
Viola Ls. 2884' (-1416)
Pen. 21'

Schlumberger electric log run
This well was not shot.

DRILL STEM TEST
DST #1 2822-49' Op. 15 min.
Closed 30 min. Strong blow
thr-out. I.F. 220#; F.F. 890#;
B.H.P. 1000#. Rec. 2200' free
oil, 30' H.O.C.M. no gas. no wtr.
DST #2 2884-88' Op. 1 hr.
Closed 30 min. Weak blow dying
10 min. 0# all pressures.
Rec. 2' muddy wtr., no oil,
no gas.

Drill In: 1-5-57 C.O. to 2860', hole dry
6 G.P. 25 shots 2821-2825'
F.U. 200' oil - 0 wtr. - 1/2 hr.
F. U. 850' oil - 0 wtr. - 3 hrs.
Pumped (mach.) 120 - 0 - 11 hrs. N.P.O.
11 Pumped 371 BO.- 0 wtr. - 24 hrs. P. O.
17 Az. w/250 gals. 15% acid, tubing press.
500# to vac., csg. press. 750# to vac.

Total Depth

Core #1 2817-49' (32') (Rec. 28')
2817-20 shale
2820-21 sand
2821-25 dolomite
2825-27 lost core, est. as above
2827-31 dolomite
2831-47 shale
2847-49 lost core, est. as above

Steel Line Measurement S.H.S.
516' - 516' 516' O.K.
1018' - 1018' 1018' O.K.
1520' - 1520' 1520' O.K.
2018' - 2018' 2018' O.K.

TOPS

Douglas Sand 1834' (-366)
Base 1943' No oil noted.
Lansing Ls. 2048' (-580)
Base 2166' No oil noted.
Kansas City Ls. 2172' (-704)
Base 2420' No oil noted.
Mississippi 2610' (-1142)
Base 2673' No oil noted

(Tops continued)