

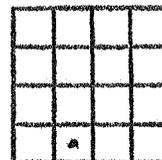
Company- CITIES SERVICE OIL COMPANY
 Farm- O'Brien "A" No. 1

SEC. 6 T. 20 R. 21W
 C SE SW

6-20-31W

Total Depth. 4385½'
 Comm. 1-26-64 Comp. 2-15-64
 Shot or Treated. 600 gals. 7½% acid frac 3000, sand 3000#.
 Contractor. Peel Bros. Inc.
 Issued. 7-25-64

County Ness
 KANSAS



Elevation. 2234' DF

Production. 131 BO, 56 BW/24 Hrs.
 30% wtr.

CASING:

8 5/8" 507' cem w/300 sx.
 4½" 4375' cem w/275 sx.

Figures Indicate Bottom of Formations.

clay & limestone	60
shale & shells	275
sand	340
shale & shells	910
sand	1100
shale & shells	1433
Anhydrite	1500
shale & shells	1835
lime & shale	2595
lime	2690
lime & shale	3335
shale & lime	3466
lime & shale	3560
lime	3650
chalk & lime	3745
lime & chalk	3890
lime	4245
lime & shale	4304
lime	4377 RTD
dolomite & chert	4385½
Total Depth	

TOPS: LOG

Heabner	3736
Toronto	3757
Lansing	3782
Base Kansas City	4106
Pawnee	4206
Ft. Scott	4286
Cherokee	4308
Conglomerate	4352
Mississippian	4375
(Top Miss. could not be logged)	

Drill In:

Drld. shoe @ 4377 & cleaned out to bottom rotary hole. 8 gals. oil & 1 gal. mud. Drilled deeper 4379-83½'. Bailed 63½ gals. oil & 62½ gals. oily mud. Drilled deeper 4383½-85½'. 268' oil in 3 hrs. & 35 min. 720' oil in 12 hrs. Swb. 14.21 oil, no wtr. in 3 hrs. 40 min. .84 bbls. per hr. last 2 hrs. Acidized w/100 gals. 7½%. No increase. Acidized w/500 gals. 7½%. No increase. Acid frac. w/3000 gals. jelled acid & 3000# sand. Recovered load. Swb. 46.40 oil, 27.99 wtr., 7 hrs. Pumped 131 oil, 56 wtr.,