

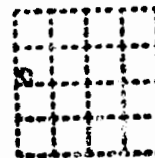
CITIES SERVICE OIL CO.
Krug No. 1-E.

SEC. 17 T. 14 R. 14W
SWc NW
330'N 330'E of W/4 Cor.

DEEPENING RECORD

County. Russell

Total Depth. 3311'
Comm. 11-18-37 Comp. 12-21-37
Shot or Treated. 5000 Gals
Contractor. John E. Mabco
Issued. 10-9-43



CASING:
12 $\frac{1}{2}$ " 346' 8" Cem.
8 $\frac{1}{4}$ " 3077' Cem.

Elevation.

Product on. Pot. 210 B.

Figures Indicate Bottom of Formations. 9% wtr 24 hrs aftc acid.

surface & cellar	9	shale	3255
clay & sand	40	lime	3296
clay, sand & shells	140	sand	3300
shale	390	3300 equals 3307 SIM	
shale & red beds	570	sand	3311
shale & shells	765	Total Depth.	
shale & lime shells	885		
anhydrite	920	All meas. based on original derrick floor	
shale & shells	1090		
shale	1274	Corr. Top Gorham	3305
shale & shells	1325	Penetration	6
salt	1415		
salt & shale	1560	Fillup:	
shale & lime	1650	1200' oil in 50 min	
lime	2083	1500' oil in 2 hrs	
brkn lime	2195	1800' oil in 3 hrs	
lime & shale	2290	1900' oil in 4 hrs	
brkn lime	2340		
shale	2665	800' fluid (600' oil, 200' wtr) in hole when deepening commenced.	
shale & lime	2770		
lime	2902	At 3201 bailed fluid from hole; hole making 1 blr fluid/hr	
lime & shale	2950		
shale	2970	8 blrs (8 btls.) oil per hr at 3210-15. Oil exhausted to $\frac{1}{2}$ BPH	
lime	3038		
lime cored	3046		
lime & shale cored	3053		
shale	3055		
lime & shale cored	3077		
lime	3123		
shale	3127		
lime sh oil 3133-34 $\frac{1}{2}$	3152		
Total Depth.			

Top Lansing-K.C. Lime 3052
Penetration 100

Porosity but no sat. 3092-95
Pay 3134-3135
400' fluid in 11 hrs.
1/3 BWPB 3141-49 (Por. but no sat.)

DEEPENING RECORD:

Comm. 6-20-43 Comp. 6-29-43
Phy. Pot. 363 BO, 45 BW

Contractor - G.W. Keyes Drilling Co.

5 $\frac{1}{2}$ " at 3305 $\frac{1}{2}$ ' Cem. (Pld 3041')

lime 3152-3176
3176 equals 3179 SIM
lime (good sh oil 3210-15) 3217
red rock 3221
lime 3245