

WELL LOG BUREAU - KANSAS GEOLOGICAL SOCIETY  
 Union National Bk Bldg, Wichita, Kansas.

Plotted  
LEV.

EMPIRE OIL AND REFG. CO.  
 Dees No. 1,

SEC. 23 T. 17 R. 9W.  
 NE NW NW  
 330' S 1000' E of NW cor.

Total Depth, 3173 SLM  
 Comm. 10-19-35 Comp, 11-17-35,  
 Shot or Treated,  
 Contractor, Shaffer Drilling Co.  
 Issued, 2-1-36.

County, Ellsworth.

FEB 1 1936



CASING.

12 1/2" 178' 65/8" 3169' SLM

Elevation,

Production, 1938 B. oil  
 no water 24 hrs.

Figures Indicate Bottom of Formations,

cellar	8
surface and sand	30
sdv lime	50
sand	65
red rock	85
shale	102
sand	116
red rock	131
shale and shells	178
shale and shells	400
red bed	420
shale	560
sand	600
shale	660
red bed	705
shale and shells	777
red bed	794
shale	830
salt	1015
salt and shale	1157
lime	1200
broken lime	1265
shale and lime	1346
broken lime	1409
shale	1502
lime	1541
shale	1652
sand	1688
shale	1726
shale and shells	1814
shale	1870
shale and shells	1905
lime	1925
lime broken	1960
shale	2148
sand	2163
sdv shale	2233
shale lime shells	2372
shale	2400
lime	2416
broken lime	2450
shale and lime	2473
lime broken	2498
lime	2555
broken lime and shale	2609
lime	2631
lime and shale	2653

broken lime	2693
shale and lime	2739
lime	2795
broken lime	2830
lime	2850
shale	2884
shale and lime	2932
lime	2942
shale	2955
lime	2982
lime and shale	3068
lime	3093
broken lime and shale	3130
lime	3150
conglomerate	3161
lime and green shale	3170
lime	3172
SLM	3172 equal 3173 SLM
Total Depth,	

Top lime 3170 SLM drilled to  
 3173 and 3125 oil in 4 1/2 hours.