

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

EMPIRE OIL AND REFG. CO.
A.J. Hlad No. 1

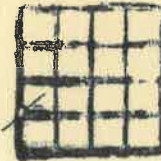
SEC. 10 T. 15 R. 13W.
SW NW SW
330' N. 330' E of W/16Cor.
SW $\frac{1}{4}$

Total Depth. 3374
Comm. 5-2-37 Comp. 6-23-37
Shot or Treated. 1000 gal.
Contractor. R.W. Rino Drig. Co.
Issued. 8-7-37

County Russell.

CASING.

20" 30'
15 $\frac{1}{2}$ " 365'
12 $\frac{1}{2}$ " 823' Pulled
10" 2471' Pulled
8 $\frac{1}{2}$ " 3053' Corr. Pulled.
7" OD 3330' SLM UR 3336'



Elevation. 1866

Production. DRY.

Figures Indicate Bottom of Formations.

clay yellow	25	lime	1875	shale	2605
shale brown	60	shale blue	1885	lime	2620
mud blue	110	red rock	1895	shale	2635
shale blue	150	lime	1920	shale blue	2670
sand	165	shale and shells	1935	lime	2675
slate white	185	lime	1950	shale blue	2678
red rock	195	shale blue	1955	lime	2725
shy shale	205	shells and shale	1975	shale and shells	2735
red rock	235	lime	2020	lime	2980
shale blue	270	red rock	2025	shale blue	2995
red rock	320	lime	2035	lime	3005
shale blue	335	shale blue	2040	shale blue	3010
sand	345	lime	2090	red rock	3018
red rock	360	shale blue	2095	shale blue	3046
shale blue	365	red rock	2105	lime	3050
lime	385	lime	2125	SLM corr. 3050	3053
shale dark	420	shale & lime		lime	3190
sand	430	shells	2155	shale blue	3195
shale blue	465	lime	2165	lime	3235
red rock	510	shale and lime		red rock	3240
shale blue	516	shells	2170	lime	3259
anhydrite	823	red rock	2180	S.S.O. 3245-49'	
Top Anhydrite 816		lime	2200	slate blk	3267
lime	850	shale blue	2215	lime	3315
red rock	1025	lime	2220	conglomerate	3329
shale blue	1060	shale and lime		S.L.M. Corr. 3329	3330
red rock	1110	shells	2245	conglomerate	3336
shale blue	1215	lime	2250	lime	3341
salt	1520	shale blue	2260	S.S.O. 3336-39'	
shale blue	1525	lime	2270	2 B.O. 1 $\frac{1}{2}$ hrs. (Trace wtr	
salt	1530	shale and shells	2375		3341)
shale blue	1555	shale blue	2385	lime	3374
shells and shale	1570	lime	2390	Total Depth.	
lime	1615	red rock	2400	Top Oswald 3049 SLM	
shale blue	1620	lime S.G. 2400	2402	Top Siliceous 3335	
red rock	1630	shale	2415	S.O. at 3338'	
lime	1670	slate blk	2460	2 B.O. in 1 $\frac{1}{2}$ hrs.	
shale blue	1680	shale	2462	T.D. 3374	
lime	1720	lime	2485	Pon. 39'	
shale blue	1735	shale	2500	WATER RECORD.	
red rock	1755	sand	2503	10 BW 335'	
lime	1780	S.O. 2500-03		5 BW 380-85	
shale blue and shells	1790	shale	2525	7 BW 420-30	
lime	1835	lime	2555	10BW 1035-45	
shale blue	1840	shale and shells	2595	1 BW 2850	
		lime	2600	Inc. 5 BW 3312-14	
				2000' wtr 3374'	

3335
1866
-1469

3049
1866
-1183