

EMPIRE OIL & REFG. CO.
Crawford No. 15

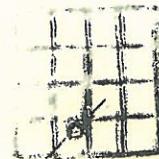
SEC. 2 T. 14 R. 15W
NE SE SW
995.4' N 330' W S $\frac{1}{4}$ Cor.

Total Depth. 3423'
Comm. 5-12-37 Comp. 6-19-37
Shot or Treated.
Contractor. Herman Trapp
Issued. 7-24-37

County. Russell

CASING:

20 " 25'10" P
15 $\frac{1}{2}$ " 372' UR 530' P
12 $\frac{1}{3}$ " 915' P
10 " 2518' P
8 $\frac{1}{4}$ " 3068' P
7 " 3288' UR 3324' P



Elevation.

Production. Dry

Figures Indicate Bottom of Formations.

cellar	10	red rock	1985	lime	3055
clay yellow	25	lime	2000	red rock & shale	3074
sand	55	shale blue	2020	lime	3090
slate blue	80	lime	2035	shale	3095
shale blue	150	lime grey	2040	lime (S.O. 3100-05)	3120
mud blue	180	shale blue	2045	SLM Corr. 3120=3117	
grey sdy shale	235	lime grey	2060	lime	3235
shale white	255	shale blue	2065	S.S.O. 3150-55	
red rock	260	lime grey	2070	red rock	3238
slate blk	275	lime	2085	lime	3255
shale blue	290	red rock	2090	lime grey	3265
sand	345	shale blue	2100	lime	3273
shale blue	380	lime	2110	shale blue	3278
shale blk	385	shale	2115	shale & shells	3288
wtr sand	390	lime	2140	lime	3300
shale drk	420	red rock	2175	shale	3304
sand wtr	445	lime	2180	lime	3307
slate	460	red rock	2190	sdv shale	3315
shale blk	500	lime	2205	lime	3321
sand	520	shale lgt	2215	Gorham sand	3322
sand grey	550	lime	2245	SLM Corr. 3322=3325	
red rock	575	red rock	2255	Gorham sand	3335
shale red	590	shale & shells	2290	sand white	3345
sand	600	lime	2310	sand	3355
shale red	650	shale	2320	sand grey	3365
red rock	760	shale & shells	2445	sand white	3400
sdv shale red	800	lime	2465	sand grey	3411
red rock	835	shale	2480	shale green	3413
shale red	905	shale blue	2500	lime grey	3415
anhydrite lime	915	shale	2518	lime	3423
lime	940	shale blue	2535	Total Depth.	
red rock	1090	shale	2540		
shale blue	1130	lime	2560		
red rock	1180	shale	2570	Top Oswald 3065	
shale blue	1190	shale & shells	2585	Top Gorham Sand 3321	
red rock	1195	lime	2595		
shale blue	1270	lime grey	2605		
salt	1565	shale blue	2610	WATER RECORD	
shale grey	1575	shale & shells	2630	HFV	290-345
shale & lime shells	1625	lime	2645	6 BW	385-390
lime	1645	shale blue	2650	2 BWPH	710-20
slate	1655	lime	2665	7 BWPH	760
lime	1665	lime brkn	2685	Inc. to	
lime grey	1675	shale & shells	2730	9 BW	875-80
red rock	1685	lime (S.O. 2665-70)	2745	1/2 BW	1985
lime grey	1735	shale	2755	8 BW	3150-55
shale	1745	shale & shells	2765	Wtr. inc. 3155-90	
lime	1775	lime Topeka	2775	10 BWPH	3326
lime grey	1785	lime grey	2800	1300' wtr - 500'	
shale blue	1790	lime	2840	oil 3326-31	
red rock	1815	lime grey	2863		
lime grey	1830	lime	2920	Plugged and abandoned.	
shale	1850	lime grey	2940		
lime	1925	lime	2965		
shale blue	1930	lime grey	2985		
red rock	1940	lime	3017		
lime grey	1955	shale	3025		
lime	1975	Dodge lime	3040		