

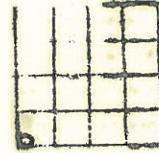
WELL LOG BUREAU - KANSAS GEOLOGICAL SOCIETY.
Union National Bk Bldg, Wichita, Kansas.

EMPIRE OIL & REFG. CO.
Crawford No. 2.

SEC. 2 T. 14 R. 15W
SW c SW 330'N-330'E of SW cor.

County. Russell

Total Depth. 3293'
Comm. 1-26-36 Comp. 3-6-36
Shot or Treated.
Contractor. Herman Trapp
Issued. 4-4-36



CASING.
20 " 19'9" 5 3/16" 26'8" 3289'
15 1/2" 417'
12 1/2" 606' UR 911'9" mudded
10 " 2525' sand line (talley 2523)
8 1/4" 3045'
6 5/8" 3279'

Elevation.

Production. Pot. 1463 Fbbls.

Figures Indicate Bottom of Formations.

cellar	11	lime grey	1735	lime	2725
clay yellow	25	shale grey&shells	1760	mud blue	2735
slate blue	85	lime	1780	lime	2755
mud blue	175	shale	1800	mud blue	2765
sandy shale	210	red rock	1820	lime Topeka	2795
red rock	215	sandy shale	1830	lime	2887
mud yellow	225	lime grey	1860	slate & shells	3010
sand water	255	shale grey	1868	lime	3025
red rock	270	lime	1900	red rock	3035
shale blue	285	slate blue	1905	shale blue	3041
sand water	320	lime	1950	Top Oswald 3042'	
sand	330	red rock	1960	lime	3060
mud blue	375	shale green	1965	shale black	3065
mud grey	400	lime grey	1985	lime	3110
slate grey	420	shale	1995	show of oil 3070-75	
sand grey	435	lime	2015	shale blue	3117
slate blue	445	shale grey	2045	lime grey	3135
water sand	465	lime	2080	show of oil 3125-35	
slate blue	470	red rock	2085	lime sandy	3140
mud blue	485	lime	2100	lime	3173
sand	530	shale	2110	shale blue	3177
sand red	535	lime	2150	lime	3215
red rock	580	red rock	2165	red rock	3220
red sand	585	lime	2190	lime	3238
sand	595	shale grey	2195	shale blue	3243
red mud	625	lime	2210	lime grey	3246
red rock	695	shale	2215	correction SIM 3246=3248	
sand	700	lime	2225	lime grey	3268
red mud	765	shale	2235	shale grey	3277
sand	775	lime	2245	lime white	3281
red mud	790	shale	2270	shale	3287
red rock	895	lime	2295	lime GSO	3292
red mud	905	shale grey	2300	Top Gorham (erosional sand)	
lime	913	slate blue	2320		3292
anhydrite	923	shale blue	2330	sand	3293
lime	944	lime	2350	Total Depth	
anhydrite	948	shale blue	2360		
red rock	960	lime grey	2380	Filled up 2150' oil in 1 hr. 15min	
red mud	985	shale blue	2395	Filled up 2600' oil in 2 hrs.	
red rock	1100	slate blue	2420		
shale blue	1145	shale grey	2425	3-9-36 pumped 453 bbls. in 7 hrs.	
red rock	1190	red rock	2435	3-10-36 pumped 1029 bbls. in 16 1/2	
shale blue	1200	shale black	2440	WATER RECORD	hrs.
slate blue	1245	lime	2450	5 BWPH	175-85'
shale blue	1285	sandy shale	2465	HFW	225-55'
salt	1545	lime grey	2480	HFW	445-65'
shale grey	1580	shale blue	2520	HFW	530'
lime grey	1600	lime	2525	3 BW	695'
slate blue	1610	broken lime	2560	5 BW	765'
lime grey	1620	shale blue	2570	7 BWPH	825'
shale grey	1640	lime	2585	1/2 BWPH	2955-60'
lime	1655	broken lime	2615	3 BW	3135-40'
mud white	1670	shale blue	2630		
lime	1680	lime	2650		
shale	1685	shale&shells grey	2695		
red rock	1695	slate blue	2705		