

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

EMPIRE OIL AND REFG.
Crawford No. 1.

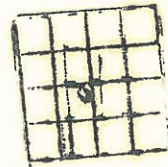
SEC. 2 T. 14 R 15W.
NEc SW
330' S. 330' W. of Cen.

Total Depth. 3108
Comm. 6-9-35 Comp. 8-7-35
Shot or Treated, 1000 gal acid.
Contractor. Rine Drilling Co.
Issued. 8-31-35.

County. Russell.

CASING.

20" 30' 10" 2534'
15 1/2" 433' 8 1/2" 2780' UR 3025
12 1/2" 920' 65/8" 58'6 set at 3059'



Elevation.

Production. 867 bbls in 24H.
after acid.

Figures Indicate Bottom of Formations.

cellar	10	red rock	1725	shale blue	2623
clay yellow	45	lime	1760	lime	2636
shale blue	60	shells and shale	1770	hole caving.	
shale brown	85	lime	1835	shale blue	2647
shale blue	100	red rock	1850	lime	2660
shale brown	115	lime	1860	shale	2662
mud blue	165	shale and shells	1900	lime & shale	2666
shale brown	190	lime	1950	shale blue	2730
sdv shale	225	sdv lime sharp	1960	shale & shells	2755
sand	240	red rock	1977	shale blue	2762
mud yellow	260	lime	2005	shale sft dk	2770
shale blue	310	shale dark	2010	shale blue	2780
water sand	350	lime	2045	lime	2836
sdv shale	355	shale and shells	2055	lime	2862
shale blue	365	lime	2080	shale	2865
slate blue	370	red rock	2087	lime	2872
shale blue	405	lime	2125	shale	2874
slate blue	445	shale blue	2130	lime	2910
sand	460	lime	2155	shale	2913
shale blue	500	shale	2160	lime	2928
sdv shale grey	550	red rock	2170	shale	2931
red rock	570	lime	2220	lime	3003
red rock	575	red rock	2235	show oil 2989-92	
shale blue	600	lime	2245	shale blk	3007
red rock	695	red rock	2265	lime	3011
sand	705	shale blue	2277	shale blue	3023
red rock	750	lime	2295	lime	3038
red rock sdv	775	shale blue	2300	shale dark	3043
red rock	905	lime shells & shale	2330	red rock	3050
shale blue	912	lime shells & shale blue	2360	shale dark	3060
pyrite	915	shale dark	2366	Corr. 3060 equals 3059	
chalk	918	lime	2374	SIM	
anhydrite & lime	920	shale blue	2400	lime	3075
anhydrite	930	lime	2405	shale	3082
anhydrite & lime	950	shale blue	2450	lime	3100
anhydrite	962	lime shells	2465	show oil 3086-88	
red rock	1105	shale blue	2475	lime	3108
shale brown	1145	lime	2480	Total Depth,	
red rock	1190	shale blue	2520		
shale grey	1200	shale dark	2524	WATER RECORD,	
shale brown	1220	lime	2531	12 BWPH 190-240	
shale grey	1295	shale soft blue	2534	HFV 310-350	
lime	1330	hole cave at 2534		HFV 440-60	
salt	1375	lime	2540		
salt	1560	shale blue	2585		
shale	1565	lime	2596		
lime	1580	shale break	2598		
lime shells	1700	lime	2615		