

18-15-11W

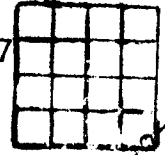
EMPIRE O & R.
Frederick No. 1.

SEC.18 T.15 R.11W
SEc SE
330' N 330' W of SE Cor.

Total Depth. 3401'
Comm. 11-18-36 Comp. 1-15-37
Shot or Treated.
Contractor. R.W.Rine Drlg.Co.
Issued. 2-27-37

County. Russell

FEB 21 1937



CASING:
20 " 23' Pulled 6 5/8" 2981' UR 3036'
15 1/2" 385' UR 472' Pulled Pulled
12 1/2" 1140' Pulled 5 3/16" 3300' UR 3395'
10 " 2045' Pulled SIM-Pulled.
8 1/4" 2575' Pulled

Elevation. 1,800

Production. Dry

Figures Indicate Bottom of Formations.

cellar	10	shale blue	1850	Hole casing	2950
shells & clay yellow	35	lime	1875	red rock	2978
shale blue	125	shale	1900	lime	2981
shale light	135	lime	1940	shale blue	3035
mud white	150	hole casing	1940	lime	3039
lime brown	159	red rock	1965	shale blue	3052
lime	165	lime	2015	lime	3063
red rock	175	shale	2020	slate blue	3070
shale & shells	205	red rock	2040	lime	3085
sand	215	hole casing	2030	SLM Corr.	3085-3082
red rock	225	lime	2057	lime	3200
slate blue	245	slate	2065	shale blue	3203
red rock	250	lime	2083	lime	3211
shale blue	260	shale	2085	shale brown	3214
red rock	270	shale white	2108	shale varicolored	3225
mud blue	285	lime	2123	lime	3250
red rock	310	shale	2125	shale blue	3265
water sand	380	shale blue	2130	lime	3281
shale blue	385	lime	2190	shale blue	3285
slate blue	410	shale	2243	lime	3305
sand	435	lime shells	2246	shale blue	3310
slate blue	455	shale blue	2300	lime	3315
mud blue	470	shale brown	2305	shale	3322
red rock	697	slate blue	2315	shale blue	3330
anhydrite	730	lime	2320	shale brown	3340
red rock	750	shale	2415	lime	3342
shale blue	760	hole casing	2410	conglomerate	3376
red rock	920	lime	2435	(Top 3335)	
slate blue	930	shale	2465	chert	3391
slate & shale blue	975	lime	2475	(Top Sil. 3391)	
red rock	1015	lime brkn	2500	Corr.	3391-3392
shale blue	1100	lime	2504	lime	3396
shale & shells	1128	slate hole casing	2510	SLM Corr.	3396-3399
salt & lime	1134	shale, slate & lime	2510	lime	3401
slate & lime	1140	shells	2517	Total Depth.	
salt	1392	lime	2525		
shale blue	1400	shale	2532		
shale & lime shells	1430	lime	2547	WATER RECORD	
slate & lime shells	1450	slate blue	2570	1 1/2" BW	205-15
lime	1470	shale blue & slate	2575	125' wtr	340-50
lime shells & shale	1490	shale blue	2600	HFV	410-35
lime	1507	lime	2625	4 BWPH	1770-80
shale brown	1517	shale	2640	1 BW	2730-35
lime	1527	lime	2648	1 1/2" BWPH	2765-72
slate light	1535	lime	2648	7 BW SLM	3070-82
shale brown	1570	slate light	2655	1/4" BWPH	3392
sand & lime	1575	shale	2668	1 BWPH(long) SIM	3399'
shale	1595	shale & shells	2675	2 BWPH(long)	3400'
lime	1640	Top Topeka	2700	2400' wtr	3401'
shale blue	1645	lime	2772		
shale brown	1660	shale	2780	Plugged & Abnd.	
lime	1675	lime	2783		
shale sdy	1700	shale	2800		
shale	1708	lime	2850		
lime	1738	slate blue	2855		
sand	1745	lime	2870		
lime	1810	lime	2937		
shale brown	1825	slate blue	2940		
		lime	2970		