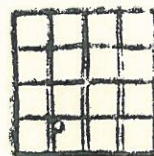


EMPIRE O. R.
Crawford No. 14.

SEC. 2 T. 14 R. 15W
NW SE SW
1661' S 998.7' W of Cen.

County. Russell

Total Depth. 3300'
Comm. 5-1-37 Comp. 6-7-37
Shot or Treated.
Contractor. Herman Trapp
Issued. 8-14-37



CASING:

20 " 21'4" P
15 1/2 " 369' UR 603' P
12 1/2 " 912'
10 " 2518' P
8 5/8 " 3047' P
7 " 3298'

Elevation.

Production. Pot. 301 B.
No wtr.

Figures Indicate Bottom of Formations.

cellar	10	lime grey	1980	lime	3246
clay yellow	20	shale grey	2000	shale	3256
sand	30	lime grey	2005	lime	3278
mud blue	90	lime	2025	shale blue	3285
shale blue	150	shale & red rock	2035	lime	3287
shale grey	160	lime	2060	shale	3294
shale blue	190	shale blue	2070	lime	3296
sand & shale	225	lime	2085	Gorham sand	3298
shale blue	235	red rock	2090	SIM Corr. 3298-3299	
red rock	250	lime	2095	Gorham sand	3300
shale white	265	lime grey	2100	Total Depth.	
red rock	295	shale grey	2110		
sand	315	lime	2150		
sand grey	350	red rock caving	2170	Top Gorham 3297' Corr.	
shale blue	365	lime	2200	Pen 3'	
mud blue	375	lime grey	2215	Total Depth 3300 Corr.	
shale white	400	shale blue	2225		
shale blue	443	red rock	2235		
iron	450	lime grey	2240		
shale blue	485	lime	2245	Fillup	
sand	540	shale & lime shells	2270	200' 45 min.	
red rock	588	lime	2300	2270' 13 hrs.	
sand red	596	shale blue	2315	2450' 17 hrs.	
red rock	902	shale & shells grey	2350	2535' 20 hrs.	
anhydrite	920	shale & shells	2385	2615' 23 hrs.	
lime	950	shale blue	2395	Total Fillup 2710' oil	
red rock	1095	lime	2405		
shale grey	1100	shale blue	2410		
shale blue	1140	shale & shells	2440		
red rock	1190	shale	2485		
shale grey	1275	S.S.O. 2470-80			
salt	1550	shale blue & shells	2515		
shale blue	1560	lime	2518		
lime grey	1590	lime brkn	2540		
shale grey	1600	shale	2550		
shale grey & shells	1650	shale & shells	2625		
shale	1670	shale	2630		
lime	1680	lime	2650		
lime grey	1690	shale	2670		
red rock	1700	shale blue	2710		
shale blue	1710	lime	2755		
lime grey	1730	shale blue	2765		
lime	1740	lime	2990		
shale grey	1750	shale blk	2995		
red rock	1755	lime	3000		
shale grey	1775	shale blue	3010		
lime	1795	lime	3027		
shale blue	1805	red rock	3030		
shale red	1825	red rock & shale	3045		
lime grey	1860	lime	3047		
shale grey	1870	lime	3063		
lime	1880	shale blk	3070		
shale	1885	lime	3105		
lime	1905	S.O. 3070-75			
shale	1910	shale blue	3110		
shale blue	1915	lime grey	3135		
lime	1945	lime	3215		
red rock	1960	red rock	3220		

WTR RECORD

6 BW 190-225
HFW 295
200' 445
HFW 485-540
3 BW 710-720
10 BW 755-785
Inc to 12 BW
880
1 BW 3080-85