

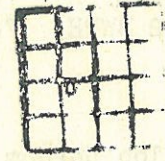
EMPIRE OIL & REFG.
Crawford No. 8.

SEC. 2 T. 14 R. 15W
NW NE SW
998 1/2' W 330' S of Cen.

Total Depth. 3318'
Comm. 8-22-36 Comp. 10-11-36
Shot or Treated. 3000 Gals Acid.
Contractor. Herman Trapp
Issued. 11-28-36

County. Russell

CASING.
20 " 21' Pulled
15 1/2" 416' UR 603' Pulled
12 1/2" 925' UR 927'
10 " 2523' Pulled
8 5/8" 3064'
7 " 3272' UR 3315'



Elevation.

Figures Indicate Bottom of Formations.

Production Pot. 1740
Bbls. Oil, No water.

cellar	10	lime grey	1970	lime	2750
clay yellow	45	lime	1975	lime grey	2760
mud blue	65	shale blue	1980	shale blue	2770
shale blue	180	lime	2030	small sh oil	2775-80
shale white	210	red rock	2035	lime Topeka	2780
sand	245	shale blue	2040	lime	2800
red rock	290	lime	2050	lime brown	2815
shale grey	300	lime grey	2080	slate	2825
sand grey	330	red rock	2090	lime	2845
shale blue	350	lime	2105	lime brown	2870
red rock	355	red rock	2110	slate	2875
mud blue	390	lime	2120	lime	2910
shale grey	405	shale & shells	2130	lime brown	2917
shale blue	430	lime	2160	shale blue	2920
sand grey	450	red rock	2170	lime	3015
shale grey	460	lime grey-red cave-	2200	shale black	3017
mud blue	480	shale blue	2203	lime grey	3020
sand grey	490	lime	2215	shale blue	3031
shale blue	495	shale & shells	2225	lime Dodge	3040
sand grey	520	red rock	2230	lime	3050
sdv shale grey	535	lime	2250	red rock	3055
sand	540	lime grey	2260	shale	3058
red rock	588	shale blue	2270	shale blue	3067
sand	593	lime grey	2280	lime Oswald	3068
red rock	705	lime	2290	SIM 3068-3064	
sand	710	shale blue	2293	lime	3077
red rock	780	lime	2300	shale black	3078
sdv red rock	800	red rock	2305	lime	3082
red rock	913	lime-red rock cavo-	2320	shale	3086
lime	925	shale & shells grey	2345	lime sh oil	3090
anhydrite	940	lime grey	2355	lime	3097
lime	956	shale & shells	2370	partly por & sat	
red rock	1100	shale blue	2385	lime-good por & sat	3104
shale grey	1140	lime	2390	No fill-up	
red rock	1200	shale blue	2400	lime	3108
shale blue	1280	lime	2410	poor por & little sat	
salt	1585	lime grey	2415	lime grey	312 5
shale blue	1590	shale blue	2420	lime 2 BW & oil/hr	3150
lime grey & shale		lime grey	2430	lime grey	3180
breaks	1630	lime	2435	lime	3215
shale blue	1650	shale blue	2438	shale	3217
lime	1655	lime	2445	lime	3224
shale grey	1665	shale blue	2455	red rock	3226
lime	1690	lime	2460	lime grey	3258
shale blue	1695	shale blue	2473	shale blue	3263
red rock	1715	lime	2478	lime grey	3267
lime grey	1740	shale blue	2518	SIM Corr. 3267-3272	
shale grey	1760	lime white	2523	lime	3292
lime	1770	lime	2528	shale	3296
shale blue	1775	lime grey	2545	shale blue	3299
lime	1805	shale blue	2575	lime	3304
red rock	1825	lime	2585	shale green	3308
lime grey	1835	shale blue	2590	lime brown	3312
shale grey	1845	lime	2605	lime	3315
lime grey	1855	shale blue	2610	sand Gorham	3315 1/2
shale blue	1860	lime	2625	sand	3318
lime brkn	1895	shale & shells	2690	Total Depth.	
lime	1930	shale blue	2720		
lime grey	1950	lime	2725		
red rock	1965	shale blue	2735		

(OVER)

EMPIRE OIL & REFG. Crawford No. 8.
 Sec. 2-14-15W NW NE SW
 Total Depth. 3318'

WATER RECORD

5 BWPH 210-45
 HFV 300-30
 HFV 430-50
 2 BWPH 705-10
 2 BWPH 780

Top Gorham 3315' - Pen. 3'

Oswald lime acidized 10-1-36 with
 3000 gals. - Pumped 46 bbls. in
 24 hrs. after acid.

3318	lime	grey
3317	lime	grey
3316	lime	grey
3315	lime	grey
3314	lime	grey
3313	lime	grey
3312	lime	grey
3311	lime	grey
3310	lime	grey
3309	lime	grey
3308	lime	grey
3307	lime	grey
3306	lime	grey
3305	lime	grey
3304	lime	grey
3303	lime	grey
3302	lime	grey
3301	lime	grey
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3299	lime	grey
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3297	lime	grey
3296	lime	grey
3295	lime	grey
3294	lime	grey
3293	lime	grey
3292	lime	grey
3291	lime	grey
3290	lime	grey
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3287	lime	grey
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3005	lime	grey
3004	lime	grey
3003	lime	grey
3002	lime	grey
3001	lime	grey
3000	lime	grey