

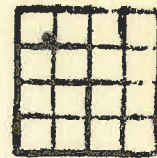
40032

EMPIRE OIL & REFG.
Sifers No. 1-B.

SEC. 10 T. 21 R. 11W
SE NW NW
1220'S 1391'W of N/4 Cor.

County. Stafford

Total Depth. 3337'
Comm. 5-17-37 Comp. 7-28-37
Shot or Treated.
Contractor. R.W.Rine Drlg.Co.
Issued. 8-28-37



CASING:
20 " 189' 7" 3093'P
15 1/2 " 485'P 5" 3331'SLM
12 1/2 " 1002'P
10 " 1965'UR 2333'P
8 1/4 " 2765' UR 2863 & 2890'

Elevation.

Production. Pot.437 B.
No wtr.

Figures Indicate Bottom of Formations.

sand	180	lime	2070	slate blk	3140
red rock	350	shale	2075	brkn lime	3150
sand red	360	lime	2110	wtr sand	3157
red rock	480	shale blk	2145	lime	3202
chalky lime	485	lime	2160	shale blk	3204
anhydrite	505	shale	2175	lime & shale breaks	3215
red rock	585	lime	2185	lime	3246
red rock & shale blue	625	shale	2200	L.S.O. 3205-08	
shale blue	645	lime	2207	shale	3248
red rock	780	shale	2210	lime	3301
shale grey (shelly)	815	lime brkn	2225	shale	3305
shale blue	860	red rock	2230	lime	3310
red rock	895	lime	2238	shale, red & blue	3315
shale blue	910	shale blue	2242	shale	3316
shale blue & shells	950	lime	2250	lime	3320
shale blue & lime		shale	2265	shale	3325
shells	985	lime	2270	shale green	3329
wtr sand	990	shale blue	2280	lime S.S.O.	3330
shale blue	998	shale	2320	SLM 3330-3331	
shale	1001	lime	2348	lime	3334
lime	1002	sdv shale	2380	Siliceous lime	3336
shale blue	1007	shale	2385	lime	3337
salt	1305	lime	2425	Total Depth.	
lime	1315	lime & shale brks	2445		
lime & shale	1370	shale & shells	2450	Fill up	
lime	1450	red rock	2453	1500' oil 5 hrs 3334	
red rock	1457	lime	2485	2400' oil 10 hrs 3337	
lime	1500	shale blue	2535	2570' oil 12 3/4 hrs 3337	
shale	1505	lime	2593		
red rock	1510	shale	2620	Top K.C. lime 3085	
brkn limo	1520	sdv lime	2635	Top Simpson 3324	
lime	1555	lime	2755	Top Siliceous 3330 SLM	
shale brown	1565	sand	2785	Pen. 7'	
red rock	1575	lime	2855	T.D. 3337	
lime brkn	1600	shale blk	2857		
sdv shale	1610	lime	2870	WATER RECORD	
lime	1725	sand	2885	HFW 35	
red rock	1735	lime	2918	HFW 985-90	
lime	1745	slate blk	2925	1/3 B 1575-1600	
shale	1755	brkn lime	2940	1 B. 1665-70	
red rock	1765	lime	2953	5 B. 1690-1700	
lime	1785	1 1/4 Mil. gas 2945-53		12 BPH 2050-60	
shale	1790	red rock	2963	1/2 B 2340-48	
lime	1815	shale brown	2990	Water 2620-35 Unable to	
red rock	1820	shale	3012	bail down	
lime	1933	sand	3025	HFW 2755-65	
sh gas 1870-75 quickly		1/4 Mil 3012-17		HFW 2880-85	
exhausted.		3 to 4 Mil.gas 3017-20		HFW 3150-57	
shale	1940	shale	3044		
red rock	1945	lime	3048		
lime	1955	shale blue	3062		
red rock-caving 1965	1960	slate blk	3076		
lime	1985	5 Mil.gas 3020-28			
shale	1990	brkn lime	3087		
lime	2005	lime	3093		
shale blue	2010	SLM Corr.3093-3094			
lime	2020	lime	3108		
shale	2023	shale	3111		
red rock	2030	lime	3128		
lime	2060	shale	3132		
shale	2065	lime	3135		