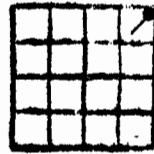


EMPIRE OIL & REFG. CO.
Hall No. 1.

SEC. 14 T. 11 R. 17W.
NEc NE
330' S 330' W. NE cor.

Total Depth. 3420 corr.
Comm. 6-23-37 Comp. 7-25-37
Shot or Treated.
Contractor. Twin Drlg. Co.
Issued. 9-11-37

County. Ellis,



Elevation.

Production. DRY.

CASING.

15 1/2" 91 10" 1020' SEP 11 1937

Figures Indicate Bottom of Formations.

shale dark	79	broken limo	2575
lime	108	limo light hard	2595
shale lime shells	150	limo brokon	2610
shale blue and wash		limo light hard	2700
gravel	292	shalo blue	2760
red shale soft	312	shalo	2765
shale red	325	lime	2800
sand red soft	405	limo light hard	2852
sand light hard	470	limo hard	2886
sand light soft	490	limo light hard	2954
sand iron	512	limo hard	2977
shale and lime		limo light hard	3005
shells	560	limo	3010
sand and lime		shale cored	3015
shells	625	limo cored	3030
lime hard	635	shalo grey cored	3035
lime and iron	643	shale brown to green	
sand and shells	663	cored	3039
shale blue & Shells	752	lime cored	3043
red shale and shells	849	shalo cored	3051
shale red	1014	lime cored	3059
anhydrite	1057	lime	3065
red shale soft	1107	shalo	3073
lime grey mod	1118	brokon limo	3115
shale light green		lime	3140
sticky	1150	brokon limo	3166
shale blue	1215	limo light hard	3216
shale red	1268	limo hard some shalo	
shalo & limo shells	1385	breaks	3244
salt	1405	limo light & hard	3295
shalo blue & shells &		lime	3300
salt mod	1572	shalo hard brown	3305
shale blue	1597	limo light hard	3311
limo light hard	1625	conglomerate	3403
shale dark	1632	limo	3407
lime light hard	1648	cored limo	3417
lime	1663	SLM corr. 3417 =	3420
shale and shells	1685	Total Depth.	
lime hard	1710		
lime grey hard	1785	Top Topoka	2760
lime hard	1819	Base Topoka	2995
lime grey hard	1828	Top Oswald	3039
shale brown med	1858	Top Silicoous	3406
brokon limo	1900	Ponotration	14'
lime grey med	1920		
lime grey hard	1973		
lime grey	2055		
shelly shale	2075		
lime light hard	2105		
lime	2150		
brokon lime&shale	2172		
lime grey hard	2192		
lime light grey mod	2240		
lime light hard	2265		
shalo blue	2273		
limo light hard	2293		
lime	2305		
brokon limo& shalo	2340		
lime light hard	2400		
shalo shelly	2450		
lime	2490		