

23-15-14W

KANSAS WELL LOG BUREAU - KANSAS GEOLOGICAL SOCIETY.  
Union National Bk Bldg, Wichita, Kansas.

EMPIRE OIL AND REFINING COMPANY.  
Bender No. 2B.

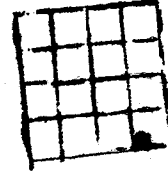
Plotted Texas CO.  
SEC. 23 T. 15 R. 14W.  
SW SE SE  
330' E. 330' N S1/16c SE 1/4

Total Depth. 3354  
Comm. 9-6-34 Comp. 11-8-34 DEC 8 1934  
Shot or Treated.  
Contractor. Twin Drilling Co.  
Issued. 12-8-34.

County. Russell.

CASING.

20" 20'9 8 1/2" 2535' UR 2800'  
15 1/2" 429' 65/8" 3165' UR 3349'  
12 1/2" 885'  
10" 2205'



Elevation!

Production! 223 B. in 24 hours.  
Potential.

Figures Indicate Bottom of Formations!

cellar	10	lime hard	1800	lime	2600
clay yellow	22	shale	1810	shale blue	2610
mud blue	50	red rock	1830	lime	2615
shale dark	130	lime	1855	shale blue	2630
shale blue	170	shale blue	1860	lime	2640
sdv	180	lime hard	1885	shale blk	2648
shale dark	220	lime med	1895	lime	2660
mud yellow	275	lime soft	1905	shale	2685
red rock	315	lime med	1920	lime	2690
shale blue	330	lime wh hard	1930	shale blue	2720
red rock	335	lime sdv	1945	lime	2730
sand hard	350	lime	1950	shale grey	2735
sand	360	shale blue	1955	shale & lime shells	2750
shale blue	410	lime	1980	lime	2770
iron	434	shale blue	1995	shale blue	2790
shale blue	455	lime	2000	shale and shells	2798
water sand	465	shale blue	2005	lime	2880
shale blue	482	lime	2015	shale	2885
iron	484	shale	2040	lime	3020
sand	495	shale blue	2045	shale & lime shells	3030
shale blue	515	lime	2060	lime	3050
shale blue	520	shale blue	2065	red rock (caving)	3055
sand	540	lime	2075	lime	3075
lime	545	lime & shale blue	2085	shale	3080
sdv iron	555	shale	2095	lime	3155
sand red	565	lime	2160	more oil and water than	
sand hard	580	shale grey	2175	could bail 3155-65	
red rock	875	red rock	2180	broken lime	3165
red rock & chalk	885	lime	2195	lime	3215
lime	920	red rock	2202	lime hard	3230
red rock	1095	lime	2230	lime	3255
shale blue	1135	shale grey	2240	shale	3260
red rock	1200	shale	2250	lime	3323
shale blue	1210	red rock	2255	shale and shells	3335
red rock	1225	lime	2275	conglomerate	3349
shale blue	1305	red rock	2280	lime	3350
salt	1585	shale blue	2290	S, L, M, correction 3350 =	3349
shale blue	1590	lime	2325	lime	3354
lime	1595	shale blue	2330	Total Depth.	
shale blue	1600	lime	2335		
lime	1630	shale blue	2345	Top of Siliceous lime corr.	3348
shale blue	1635	lime	2350		
lime	1640	shale & lime shells	2390		
lime & shale breaks	1655	shale & shells	2445		
lime	1660	shale blue	2450		
shale	1680	lime	2460		
lime hard	1690	shale brown	2475		
shale	1695	shale blue	2485		
red rock	1715	sdv shale	2500		
lime broken	1720	shale blue	2515		
lime	1750	lime	2535		
shale blue	1765	shale	2550		
lime	1780	shale grey	2580		

WATER RECORD.

HFW 350  
HFW 455-65  
1 BW 2485-2500  
1 BW 2580-90  
1 BWPHR 3100-05  
water 3155-65