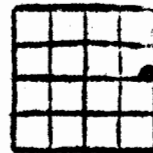


THE NATIONAL REFINING CO.
Trustee No. 1.

SEC. 8 T. 27 R. 2E.
SEc NE

Total Depth, 3262 P.B. 3261½.
Comm. 5-28-33 Comp. 7-31-33
Shot or Treated, 1000 gal acid 50 shots 3253-61
Contractor.
Issued, 3-27-33

County Sedgwick.



CASING.

15½"	68'	7"	2975'
12½"	1230'	5"	3252'
10"	1847'		
8¼"	2307'		

Elevation.

Production, 420 B.

Figures Indicate Bottom of Formations.

shale	45	shale	780	lime	1260
lime	60	shaley lime	786	shale	1276
anhydrite & gypsum	80	Micaceous shale	792	lime	1283
shale gypsum & anhydrite	105	lime	800	shale	1286
limey shale	114	shale	805	lime	1295
shale gypsum & anhydrite	135	lime	808	micaceous shale	1300
anhydrite	148	shale green & marron	813	lime	1308
shale and anhydrite	164	lime	818	limey sand	1313
anhydrite	170	shale dark	826	shale red	1315
Herrington lime	177	lime	833	shale green	1321
shale	190	shale	845	lime	1330
shale gypsum and anhydrite	222	fossiliferous lime little		shale	1419
cherty Winfield lime	230	blk cherty and pyrite	874	glauconitic sand	1435
limey shale	240	fossiliferous lime	892	lime	1440
shale	261	shale dark	898	shale	1442
lime	265	lime	902	lime	1466
shale	285	shale dark	905	shale	1470
lime	305	lime	911	lime	1484
cherty lime	317	shale	915	micaceous sdy shale	1486
shale	325	chert	918	lime	1488
lime	335	detrital shale and		shale	1497
shale	350	lime	930	glauconitic lime	1503
lime	370	Micaceous shale grey and		shale blk	1505
anhydrite	385	green and maroon	960	calcareous sand	1520
shaley lime	400	Micaceous sdy shale	975	sdly shale	1535
lime	480	Micaceous shale	982	shale	1546
shale	495	mudstone	990	lime	1550
shale red and green	504	maroon shale	992	shale	1555
lime	510	shaly lime	1000	lime	1575
shale	525	shale blue grey	1015	cherty lime	1580
lime	532	lime	1017	lime	1584
shale	535	maroon shale	1020	Micaceous sdy shale	1586
lime	555	shaly lime	1025	lime	1593
cherty lime	563	crystalline lime	1033	micaceous sdy shale	1604
lime and chert	578	micaceous grey shale	1043	lime	1606
shale	582	lime	1048	micaceous shale	1615
rod shale	588	micaceous sand	1060	shale	1630
cherty lime	600	shale	1075	lime	1647
shaley lime	608	maroon & green shale	1080	micaceous shale	1655
shale	612	micaceous sand	1085	lime	1661
shaley lime	615	shale	1098	shale blk	1665
lime	621	fossiliferous lime	1103	shale	1668
shale green	626	heavily micaceous		lime	1690
lime	637	shale	1110	micaceous sdy shale and	
shale	645	shale	1122	sand	1720
cherty lime	650	micaceous shaly sd	1130	shale	1742
lime	656	micaceous sand	1145	lime	1748
shale green	660	micaceous shale	1151	shale	1760
lime	673	lime	1157	lime	1770
shale	679	micaceous shale	1163	shale and coal	1773
lime	687	lime	1170	lime	1786
shale	694	micaceous green grey		shale blk	1805
lime	696	shale	1195	lime	1812
shale	699	shale green and		shale	1830
cherty lime	708	marron shale	1203	lime	1835
shale	712	lime	1213	shale	1844
lime	730	shale	1218	lime	1867
shale	743	lime	1220	shale	1871
lime	764	shale	1227	lime	1910
shale red & grey	768	lime	1251	shale blk	1915
lime	775	micaceous sdy shale	1258	shale grey	OVER 1925

limo 1943
 shale 1955
 micaceous sdy shale 1960
 shale 1965
 limo 1970
 shale 1985
 micaceous sdy shale 2010
 micaceous shaly sand 2040
 micaceous sdy shale 2065
 shale 2123
 limo 2131
 micaceous sdy shale 2140
 limo 2150
 shale 2155
 limo 2164
 micaceous shale 2170
 limo 2191
 shale 2194
 limo 2363
 micaceous sdy shale 2440
 micaceous shale 2470
 limo 2473
 shale dark 2485
 limo 2510
 shale 2515
 limo 2535
 shale dark 2540
 limo 2560
 limo and some chert 2595
 shale blk 2600
 limo 2657
 micaceous shale 2697
 limo 2699
 micaceous shale 2710
 limo 2712
 shale 2719
 limo 2722
 shale green and grey 2735
 micaceous sdy shale 2750
 limo 2758
 shale green and grey 2767
 limo 2772
 shale blk 2777
 maroon shale 2780
 shale grey 2794
 limo 2797
 shale blk 2800
 limo 2805
 shale grey 2820
 dense limo 2827
 blk carbonaceous shale 2832
 shale grey 2836
 maroon shale 2837
 limo 2856
 shale grey 2869
 limo 2872
 shale 2890
 sdy shale 2900
 dense pyritic limo 2910

shale grey and limo
 shells 2920
 shale grey & yellow 2933
 limo dense 2934
 maroon grey green and
 yellow detrital shale
 with fragments of detri-
 tal limo 2945
 glauconitic limo 2947
 chert tripoli and
 limo 2950
 chert and tripoli 2983
 granular limo and
 chert 2986
 chert 2990
 maroon and green
 shale bedding
 plane 2991
 chert white 3060
 limo white and
 chert 3065
 limo 3070
 cherty limo 3080
 dark grey chert 3084
 dense limo 3092
 maroon and green
 shale bedding plane 3093
 limo white and grey
 chert 3112
 brown chert, maroon limo
 and maroon and
 green shale 3120
 limo grey 3125
 dense buff limo 3130
 olive drab limo 3140
 limo grey 3150
 shale green 3170
 limo dense grey 3202
 shale blk 3220
 shale green and
 grey 3240
 shale grey 3249
 shale blk 3252
 finely micaceous sdy
 dolomite 3253
 granular limo 3262
 Total Depth.

OIL RECORD.
 SSO 2495-2502
 SSO 2520-2525
 S. free oil 2645-2650
 Slight trace oil 2750
 SSo 2757-58
 hole full 43 gravity
 corrected oil from 2972-74
 hole full oil 3253-57
 more oil 3260-31 $\frac{1}{2}$

WATER RECORD.
 HF fresh wtr 45-50
 1 BW 595-600
 2 BW 720-730
 1BW 1055-65
 4 BW 1425-35
 $\frac{1}{2}$ BW 1950-60
 HFV 2205-10
 HFV 2550-60
 HFV 2961-64
 2 $\frac{1}{4}$ BW 3033-43
 1 BW 3257

FORMATION TOPS.
 Ft. Riley 350
 Topoka 1630
 Base Oread 1970
 Lansing 2170
 Kansas City 2470
 Cong. 2920
 Chat 2945
 Misoner dol. 3252
 Viola 3258

Fill up, 1000' 8 hours total
 fillup 2900'. PIB. 3261 $\frac{1}{2}$ with 70 lbs.
 lead wool. 50 shots 3253-
 3261. 1000 acid. Pot. 420 B.
 750' off bottom.