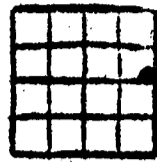


THE NATIONAL REFINING CO.
Trustee No. 1.

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'		
8½"	2307'		

Elevation.

Production, 420 B.

Figures Indicate Bottom of Formations.

shale	45	shale	780	lime	1260
lime	60	shaley lime	786	shalo	1276
anhydrite & gypsum	80	Micaceous shalo	792	lime	1283
shale gypsum & anhydrite	105	limo	800	shale	1286
liney shale	114	shalo	805	limo	1295
shale gypsum & anhydrite	135	limo	808	micaceous shalo	1300
anhydrite	148	shalo groon & marron	813	limo	1308
shale and anhydrite	164	limo	818	limoy sand	1313
anhydrite	170	shalo dark	826	shalo red	1315
Herrington lime	177	lime	833	shalo groon	1321
shale	190	shale	845	limo	1330
shale gypsum and anhyde.	222	fossiliferous lime little		shalo	1419
cherty Winfield lime	230	blk cherty and pyrite	874	glauconitic sand	1435
limy shale	240	fossiliferous lime	892	limo	1440
shale	261	shale dark	898	shalo	1442
lime	265	lime	902	limo	1466
shale	285	shale dark	905	shalo	1470
lime	305	lime	911	lime	1484
cherty lime	317	shale	915	micaceous sdy shalo	1486
shalo	325	chert	918	limo	1488
lime	335	detrital shale and		shale	1497
shale	350	lime	930	glauconitic limo	1503
lime	370	Micaceous shale grey and		shalo blk	1505
anhydrite	385	green and maroon	960	calcareous sand	1520
shaley lime	400	Micaceous sdy shalo	975	sdly shale	1535
lime	480	Micaceous shale	982	shalo	1546
shalo	495	mudstone	990	limo	1550
shalo rod and groon	504	maroon shalo	992	shalo	1555
limo	510	shaly lime	1000	limo	1575
shalo	525	shalo blue gray	1015	cherty limo	1580
lime	532	lime	1017	limo	1584
shalo	535	maroon shale	1020	Micaceous sdy shalo	1586
lime	555	shaley lime	1025	limo	1593
cherty limo	563	crystalline lime	1033	micaceous sdy shalo	1604
lime and chert	573	micaceous grey shalo	1043	limo	1606
shalo	582	lime	1048	micaceous shalo	1615
rod shalo	588	micaceous sand	1060	shalo	1630
cherty lime	600	shalo	1075	limo	1647
shaley lime	608	maroon & groon shalo	1080	micaceous shalo	1655
shalo	612	micaceous sand	1085	limo	1661
shaley lime	615	shalo	1098	shalo blk	1665
lime	621	fossiliferous limo	1103	shalo	1668
shalo groon	626	heavily micaceous		limo	1690
lime	637	shalo	1110	micaceous sdy shalo and	
shalo	645	shalo	1122	sand	1720
cherty lime	650	micaceous shaley sd	1130	shalo	1742
lime	656	micaceous sand	1145	limo	1748
shalo groon	660	micaceous shalo	1151	shalo	1760
lime	673	lime	1157	limo	1770
shalo	679	micaceous shalo	1163	shalo and coal	1773
lime	687	lime	1170	limo	1786
shalo	694	micaceous groon grey		shalo blk	1805
lime	696	shalo	1195	lime	1812
shalo	699	shalo groon and		shalo	1830
cherty lime	700	marron shalo	1203	lime	1835
shale	712	lime	1213	shalo	1844
lime	730	shalo	1218	limo	1867
shalo	743	lime	1220	shalo	1871
lime	764	shalo	1227	limo	1910
shalo rod & grey	768	lime	1251	shalo blk	1915
lime	775	micaceous sdy shalo	1258	shalo grey	OVER 1925

limo	1945
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	2753
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
donse limo	2827
blk carbonaceous shale	2832
shale grey	2836
maroon shale	2837
limo	2856
shale grey	2069
limo	2872
shale	2890
sdv shale	2900
donse pyritic limo	2910

shale grey and lime shells	2920
shale grey & yellow	2933
limo donse	2934
maroon grey green and yellow detrital shale with fragments of detrital limo	2945
glauconitic limo	2947
chert tripoli and limo	2953
chert and tripoli granular limo and chert	2983
chert	2986
chert	2990
maroon and green shale bedding plano	2991
chert white	3060
limo white and chert	3065
limo	3070
cherty limo	3080
dark grey chert	3084
donse limo	3092
maroon and green shale bedding plano	3093
limo white and grey	
chert	3112
brown chert, maroon limo and maroon and green shale	3120
limo grey	3125
donse buff limo	3130
olive drab limo	3140
limo grey	3150
shale green	3170
limo donse 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.	

Fill up, 1000' 8 hours total
fillup 2900'. PIB. 3261½ with 70 lbs.
load wool. 50 shots 3253-
3261. 1000 acid. Pot. 420 B.
750' off bottom.

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 3260-61½

WATER RECORD.
HF fresh wtr 45-50
1 BW 595-600
2 BW 720-730
1BW 1055-65
4 BW 1225-35
½ BW 1950-60
HFW 2205-10
HFW 2550-60
HFW 2961-64
2½ 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
Misonor dol. 3252
Viola 3258