

# SAGAMORE OIL AND GAS COMPANY

INDEPENDENCE, KANSAS

Company **Imo Oil Company, Covington, Okla.**

S. T. R. **18-31-10**  
 County **Elk**  
 State **Kansas**  
 Lease and Well No. **W. E. Pfrehn #1**

Contractor **J. D. Ladd, Eureka, Kansas**

Drilling Commenced **10/15/37**

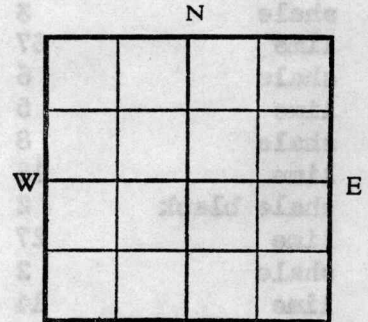
Drilling Completed **11/16/37**

Initial Production

Initial Rock Pressure

Location **Center of NW $\frac{1}{4}$  of NW $\frac{1}{4}$**

Casing	<b>12<math>\frac{1}{2}</math>"</b>	<b>600'</b>
	<b>10 "</b>	<b>776</b>
	<b>8<math>\frac{1}{4}</math>"</b>	<b>1484</b>
	<b>6 5/8"</b>	<b>2232</b>



## Driller's Record of Formations

soil	3	3	line	15	577
clay	24	27	sand	23	600 water
lime	12	38	shale	30	630
shale		82	lime	10	640
lime		98	shale	16	656
shale	12	110	lime hard	12	668
lime	22	132	shale black	4	672
shale	26	158	lime	4	676
lime	12	170	shale	4	680
shale	13	183	sand hard	13	693
lime hard	20	203	shale	3	696
shale	47	250	lime	31	727
lime	5	255	red rock	3	730
shale	15	270	lime	2	732
red rock	12	282	shale	6	738
lime	26	308	lime	7	745
shale	4	312	shale	19	764
lime	4	316	red rock	10	774
shells	7	323	shale white	20	794
lime	37	360	lime	2	796
shale	4	364	shale	17	813
lime	11	375	lime	22	835
red rock	10	385	shale	27	862
lime	7	392	lime	6	868
shale	8	400	shale	39	907
lime	5	405	lime sharp	6	913
red rock	4	409	shale	56	969
shale	11	420	lime	10	979
lime	8	428	shale	19	998
shale	5	433	lime	16	1014
lime	47	480	shale	18	1032
shale	10	494	lime	34	1066
lime	5	499	shale	34	1100
shale blue	11	510	lime	40	1140
lime	5	515	shale	8	1148
shale	39	554	lime	129	1277
lime	5	559	shale	25	1302
shale	3	562	lime	9	1311

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INDEPENDENCE, KANSAS

shale	114	1425
lime	3	1428
shale	9	1437
lime	13	1450
shale	28	1478
sand	7	1485
shale	3	1488
lime	67	1555
shale	5	1560
lime	5	1565
shale	8	1573
lime	15	1588
shale black	2	1590
lime	27	1617
shale	2	1619
lime	14	1633
shale	3	1636
lime	54	1690
shale black	26	1716
lime	18	1734
shale	48	1782
lime	26	1808
shale	8	1816
lime	10	1826
sand	11	1837
shale	36	1873
lime	35	1908
shale	10	1918
lime	28	1946
shale black	4	1950
lime	12	1962
shale	59	2021
sand	23	2044
shale	91	2135
red rock	5	2140
shale	30	2170
red rock	25	2195
shale		2229
lime		2230
lime pay	15	2245

gas on

Initial Rock Pressure

1680-1691 from 1670-1680

show oil 2021-2044

T.D.

oil 2234-2238  $\frac{1}{2}$  bailer oil  
 each 15 min.  
 1 bailer oil per hour 2238-41  
 Pay oil 2241-2245

U.C.P. Lot 104 182

18-31-10E

IMO OIL & GAS CO.  
Perehm No. 1

SEC. 18 T. 31 R. 10E  
CNW NW

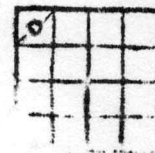
County Elk.

Total Depth. 2245  
Comm. 10-13-37 Comp. 12-23-37  
Shot or Treated.  
Contractor.  
Issued. 2-5-38

CASING.

12 1/2" 600'  
10" 860'  
8" 1470'  
6" 1800'

FEB 5 1938



Elevation.

Production. DRY.

Figures Indicate Bottom of Formations.

clay	16	sdv lime	727	lime	1808
lime	38	red rock	730	shale	1816
shale	98	lime	732	lime	1826
lime	100	shale	738	sand	1837
shale	110	lime	745	shale	1873
lime	132	shale	764	lime	1908
shale	158	red rock	774	shale	1918
lime	170	shale wtr	785	lime	1946
shale	183	lime	794	shale	1950
lime	203	shale	796	lime	1962
shale	250	lime	835	shale	2021
lime	255	shale	862	sand	2044
shale	270	lime	868	shale	2088
red rock	282	shale	907	red rock	2098
lime	292	lime	913	shale	2135
shale	300	shale	969	red rock	2140
lime	308	lime	979	shale	2170
shale	312	shale	998	red rock	2225
lime	316	lime	1014	shale	2229
shale	323	shale	1032	chat	2232
lime	360	lime	1066	lime Oil MISS.	2245
shale	364	shale	1100		
lime	375	lime	1140	Total Depth.	
red rock	385	shale	1148		
lime	392	lime	1158	1000 gal acid.	
shale	400	lime	1277	went to water.	
lime	405	shale	1302		
red rock	409	lime	1311		
shale	420	shale	1425		
lime	428	lime	1428		
shale	433	shale	1437		
lime	480	lime	1450		
shale	494	shale	1478		
lime	499	sand gas	1485		
shale	510	shale	1489		
lime	515	lime	1555		
shale	554	shale	1560		
lime	559	lime	1565		
shale	562	shale	1590		
lime	580	lime	1600		
lime sand	589	lime	1617		
sand	600	shale	1619		
shale	640	lime	1633		
lime	663	shale	1636		
shale	676	lime	1690		
shale	680	shale	1716		
sand	690	lime	1734		
shale	693	shale	1782		