

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

EMPIRE OIL AND REFG. CO.
 Guldner No. 1.

SEC. 9 T. 18 R. 9W.
 SW SE SW

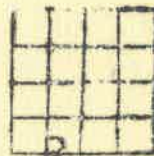
51553

Total Depth. 3245 SIM.
 Comm. 9-14-35 Comp. 11-17-35.
 Shot or Treated, 250 gal
 Contractor. Rine Drilling Co.
 Issued. 1-11-36

County. Rice.

CASING.

| | | | |
|---------|-------|--------|-----------|
| 20" | 150' | 65/8" | 3024' |
| 15 1/2" | 420' | 53/16" | 3243' SIM |
| 12 1/2" | 1540' | | |
| 10" | 2232' | | |
| 8 1/2" | 2956' | | |



Elevation.

Production. 843 B. 24 Hr.

Figures Indicate Bottom of Formations.

| | | | | | |
|-----------------|------|------------------|---------|-----------------------|------------------|
| clay loose sand | 50 | broken lime | 1730 | shale blue | 2865 |
| clay yellow | 115 | lime | 1735 | lime | 2870 |
| red rock | 120 | shale and shells | 1745 | shale blue | 2885 |
| shale blue | 180 | lime | 1770 | lime | 2900 |
| lime | 195 | shale | 1775 | broken lime | 2914 |
| shale blue | 240 | lime | 1780 | lime | 2970 |
| lime | 250 | red rock | 1790 | 10" hole reduced | 2952 |
| shale blue | 270 | lime | 1800 | 3300 M. Gas at | 2970 |
| red rock | 420 | red rock | 1815 | lime | 3024 |
| lime | 435 | lime | 1835 | lime | 3178 |
| red rock | 500 | shale blue | 1840 | show oil | 3077-85 |
| shale grey | 530 | lime | 1845 | shale | 3182 |
| red rock | 665 | shale | 1865 | conglomerate | 3211 |
| shale grey | 720 | red rock | 1870 | lime | 3216 |
| shale blue | 735 | lime | 1915 | conglomerate | 3239 |
| red rock | 775 | broken lime | 1950 | lime | 3240 |
| shale blue | 905 | broken lime | 1970 | S.S. oil | 3235-40 |
| salt | 1070 | shale blue | 2020 | Sil lime | 3242 |
| salt | 1140 | lime | 2045 | SIM corr. | 3242 equals 3245 |
| shale blue | 1160 | show gas | 2030-40 | Total Depth. | |
| lime | 1180 | shale blue | 2050 | acidized with | 250 gal |
| shale blue | 1185 | lime | 2070 | november 27, | 1935. |
| lime | 1195 | shale blue | 2080 | 2380' oil in hole | in 9 1/2 hrs. |
| shale blue | 1200 | lime | 2085 | Top of Simpson lime | 3234 |
| lime | 1205 | shale blue | 2090 | Top of siliceous lime | 3242 |
| shale blue | 1210 | lime | 2105 | S.O. | |
| lime | 1215 | shale dark | 2120 | | |
| shale blue | 1220 | shale | 2160 | | |
| lime | 1225 | lime | 2180 | | |
| red rock | 1230 | shale | 2190 | | |
| lime | 1240 | lime | 2195 | | |
| shale blue | 1250 | shale | 2205 | | |
| lime | 1260 | broken lime | 2220 | | |
| shale blue | 1270 | shale | 2232 | | |
| red rock | 1280 | lime | 2240 | | |
| lime | 1290 | broken lime | 2260 | | |
| shale blue | 1300 | shale blue | 2285 | | |
| lime | 1325 | lime | 2295 | | |
| shale blue | 1350 | shale and shells | 2305 | | |
| lime | 1380 | shale blue | 2314 | | |
| shale blue | 1385 | lime | 2320 | | |
| lime | 1390 | Blue shale | 2335 | | |
| red rock | 1405 | lime | 2340 | | |
| lime | 1430 | shale blue | 2380 | | |
| shale blue | 1440 | lime | 2410 | | |
| lime | 1550 | shale blue | 2415 | | |
| shale blue | 1555 | lime | 2440 | | |
| red rock | 1560 | shale blue | 2470 | | |
| lime | 1570 | lime | 2595 | | |
| shale blue | 1600 | shale blue | 2605 | | |
| lime | 1635 | lime | 2755 | | |
| shale blue | 1635 | show oil | 2690-95 | | |
| lime | 1645 | shale | 2760 | | |
| red rock | 1655 | lime | 2775 | | |
| lime | 1670 | shale | 2780 | | |
| shale blue | 1690 | red rock | 2785 | | |
| lime | 1700 | shale blue | 2845 | | |
| red rock | 1710 | lime | 2850 | | |

WATER RECORD.

| | |
|----------|-----------|
| 6 BW | 50' |
| 10" BW | 180-95 |
| 2 BW | 1485-90 |
| 5 BW | 1525-35 |
| 3 BW | 2090-2105 |
| 2 BW | 2190-95 |
| 1 BW | 2470-80 |
| 1 BW PHR | 2615-20 |
| 2 BW PHR | 3077-85 |