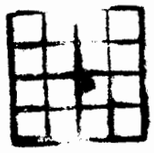
412 Union National Bk Bldg., Wichita, Kansas

23 - 15 - 14W

CITIES SERVICE OIL CO.
Bender No. 2-D.

SEC. 23 T. 15 R. 14W
NWc SE
330'E 330'S Center

County. Russell



Elevation.

Total Depth. 3354'
Comm. 2-11-39 Comp. 4-1-39
Shot or Treated. 2000 Gals.Acid.
Contractor. R.W.Rine Drlg.Co.
Issued. 5-13-39

CASING:
15½" 600'P 6 5/8" 3341' Corr.
12½" 909'
10¾" 2532'P
8¼" 3100'P

Production. Pot. 972 B.
No wtr.

Figures Indicate Bottom of Formations.

| | | | | | |
|---|---|---|---|---|---|
| clay yellow | 40 | red rock | 2100 | 3340 equals 3341 SLM | |
| shale | 50 | brkn lime shale | 2135 | lime | 3354 |
| shale blue | 180 | shale & shells | 2145 | Total Depth. | |
| shale grey | 240 | lime | 2170 | | |
| water sand | 310 | red rock | 2180 | | |
| red rock | 337 | lime | 2220 | | |
| shale blue | 343 | shale | 2225 | | |
| red rock | 348 | lime | 2240 | Pay good 3344-48 | |
| sand | 360 | red rock | 2254 | Pay fair 3349-54 | |
| red rock | 370 | lime | 2280 | | |
| lime | 380 | shale blue | 2285 | Top Arbuckle 3340 Corr. | |
| shale & lime | 400 | lime & shale | 2295 | Penetration 14 | |
| shale | 412 | shale & shells | 2300 | Total Depth. 3354 | |
| sand | 422 | lime | 2322 | | |
| shale lgt | 445 | shale blue | 2330 | Fillup: | |
| shale blue | 464 | shale & shells | 2370 | 300' in 1½ hrs. | |
| shale | 495 | shale lgt | 2405 | 2400' in 8½ hrs. | |
| sand | 500 | shale | 2415 | Water: | |
| shale | 540 | lime & shale | 2430 | HFW 245-50 | |
| sand | 545 | shale & shells | 2465 | 7 BW 495-500 | |
| shale & iron | 555 | red rock | 2470 | HFW 520-45 | |
| sand | 580 | shale | 2490 | 1½ BW 690-700 | |
| red rock | 690 | sand | 2495 | 7 BW 745-770 | |
| sand red | 705 | shale | 2526 | 1 BW 2490-95 | |
| red rock | 745 | lime | 2545 | | |
| sand red | 770 | lime & shale | 2555 | | |
| dy red rock | 875 | shale | 2587 | | |
| red rock | 895 | lime | 2640 | | |
| chalk | 901 | lime & shale | 2650 | | |
| anhydrite | 934 | lime | 2675 | | |
| red rock | 1105 | shale & shells | 2685 | | |
| shale blue | 1160 | lime | 2690 | | |
| red rock | 1185 | shale | 2720 | | |
| shale blue | 1190 | lime | 2745 | | |
| red rock | 1205 | shale | 2750 | | |
| shale blue | 1260 | lime | 2770 | | |
| shale & shells | 1310 | shale | 2795 | | |
| salt | 1595 | lime | 2880 | | |
| shale & lime | 1610 | shale | 2885 | | |
| shale & lime shells | 1655 | lime | 2931 | | |
| shale & lime | 1690 | shale | 2936 | | |
| shale & shells | 1715 | lime | 3025 | | |
| red rock | 1725 | shale | 3030 | | |
| lime | 1760 | lime | 3032 | | |
| shale & lime | 1775 | shale | 3044 | | |
| lime | 1820 | lime | 3060 | | |
| red rock | 1842 | red rock | 3074 | | |
| lime | 1895 | shale green | 3099 | | |
| shale lgt | 1905 | lime | 3115 | | |
| lime | 1940 | 3107 equals 3107 SLM | | | |
| sand | 1965 | shale | 3118 | | |
| shale | 1975 | lime | 3167 | | |
| rock pink | 1980 | shale | 3170 | | |
| lime | 1985 | lime | 3196 | | |
| shale blue | 2000 | shale | 3200 | | |
| shale & lime | 2015 | lime | 3297 | | |
| lime | 2035 | shale | 3308 | | |
| shale blue | 2040 | lime | 3316 | | |
| shale & shells | 2050 | shale | 3318 | | |
| shale blue | 2055 | lime | 3325 | | |
| lime | 2090 | shale | 3331 | | |
| shale | 2095 | lime | 3340 | | |