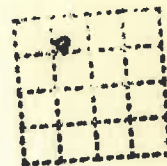


BLACK & MARSHALL
 Grossard No. 2

SEC. 4 T. 17 R. 11 W.
 SW NE NW

Total Depth. 3325
 Comm. 12-8-41 Comp. 1-30-42
 Shot or Treated.
 Contractor.
 Issued. 3-21-42

County Barton



CASING.

20" 24'7" 5 1/2" 3290' Corr.
 12 1/2" 375'
 10" 704'
 8" 2050'
 UR 2385'

Elevation.

Production. Pot. 3136 B.

Figures Indicate Bottom of Formations.

| | | | | | |
|------------------|------|-------------------|------|-------------------------|------|
| shale | 75 | lime | 2055 | lime | 3105 |
| shale | 160 | shale | 2065 | shale | 3110 |
| red rock | 180 | shells and shale | 2095 | lime | 3170 |
| shale | 190 | red rock | 2105 | shale | 3175 |
| sand | 255 | lime | 2140 | lime | 3195 |
| shale | 275 | shale | 2150 | shale | 3200 |
| red rock | 300 | lime | 2155 | lime show oil | 3245 |
| sand | 310 | shale lime shells | 2200 | lime | 3270 |
| shale | 420 | lime | 2210 | shale | 3280 |
| sand | 440 | shale | 2240 | lime | 3295 |
| shale | 460 | lime | 2245 | shale | 3300 |
| red rock | 625 | shale | 2255 | lime | 3325 |
| sand | 639 | shale and shells | 2295 | Total Depth. | |
| red rock | 704 | shale | 2345 | 8 BW 430 | |
| anhydrite | 740 | lime | 2355 | 5 BW 630 | |
| red rock | 940 | shale | 2385 | 3 BW 1765-85 | |
| shale | 1080 | lime | 2400 | 2 BW 2725 | |
| shale shells | 1140 | shale | 2455 | 2 BW 2755 | |
| shale | 1170 | lime | 2470 | 5 BW 3130-50 | |
| salt | 1365 | shale | 2475 | Cave 2385 | |
| shale | 1385 | lime | 2785 | show oil 3097-3100 | |
| broken lime | 1450 | shale | 2790 | show oil 3240-45 | |
| lime | 1460 | lime | 2510 | | |
| shale | 1470 | shale | 2530 | | |
| lime | 1480 | lime | 2540 | | |
| shale | 1490 | shale | 2545 | | |
| lime | 1500 | lime | 2550 | | |
| shale and shells | 1610 | shale | 2590 | | |
| lime | 1620 | lime | 2620 | | |
| red rock | 1630 | shale | 2625 | | |
| lime | 1635 | lime | 2645 | | |
| shale | 1645 | shale | 2660 | Anhydrite 695- 740 | |
| lime | 1795 | lime | 2765 | Top Topeka 2654 Corr. | |
| shale | 1800 | shale | 2770 | Top Lansing - brown | |
| broken lime | 1860 | lime | 2815 | lime 3002 corr. | |
| lime | 1865 | shale | 2820 | Top Lansing - white | |
| shale | 1880 | lime | 2912 | lime 3025 corr. | |
| lime | 1885 | shale | 2916 | Top Arbuckle 3287 Corr. | |
| red rock | 1895 | lime | 2920 | | |
| lime | 1920 | shale | 2925 | | |
| red rock | 1925 | lime | 2940 | | |
| lime | 1945 | red rock | 2945 | | |
| red rock | 1950 | lime | 2955 | | |
| lime | 2015 | shale | 2960 | | |
| red rock | 2025 | lime | 2965 | | |
| | | shale | 3005 | | |