

Richards Well No. 1, Sutter et al
 NW c SE 1/4 sec. 30-20-12, Lyon County, Kansas
 Started Sept. 6, 1923 Completed Oct. 14, 1923

30-20-12 E
 DEC 12 1929

Elev. 1192.

| | |
|----------------------------|------|
| soil soft | 10 |
| lime hard dark | 15 |
| slate soft dark | 21 |
| lime medium white | 35 |
| slate soft dark | 65 |
| lime hard white | 75 |
| slate soft dark & white | 120 |
| shale soft blue & gray | 135 |
| slate soft blue | 200 |
| lime soft & hard dark blue | 225 |
| slate soft blue & white | 300 |
| lime hard white | 323 |
| slate soft blue | 340 |
| lime hard dark | 345 |
| shale soft blue | 380 |
| lime soft dark | 392 |
| shale | 460 |
| lime hard white | 465 |
| slate soft white | 482 |
| lime white hard | 490 |
| slate soft white | 505 |
| lime shells & shale | 540 |
| slate soft dark | 568 |
| lime hard dark | 575 |
| slate soft white | 595 |
| lime hard white | 620 |
| shale soft black | 625 |
| lime hard white | 630 |
| slate soft dark & white | 648 |
| lime red-hard white | 665 |
| slate soft hard | 700 |
| shale soft dark | 725 |
| slate soft white | 805 |
| lime white hard | 810 |
| slate soft white | 835 |
| sand soft white | 850 |
| slate dark soft | 855 |
| sand soft white | 882 |
| slate soft blue | 935 |
| lime hard gray | 980 |
| slate soft black | 985 |
| lime hard white | 1002 |
| slate soft blue | 1008 |
| lime white hard | 1065 |
| slate soft blue | 1070 |
| limey med-hard dark | 1125 |
| slate soft white | 1130 |
| lime hard white | 1212 |
| shale soft blue | 1230 |
| lime white hard | 1235 |
| slate soft white | 1245 |
| red rock soft | 1250 |
| lime white hard | 1270 |
| slate soft blue | 1275 |
| lime white & dark | 1311 |
| slate soft blue | 1325 |

| | |
|-------------------------|------|
| lime med-hard dark | 1352 |
| shale soft blue | 1357 |
| lime dark hard | 1373 |
| slate soft blue | 1392 |
| lime hard white | 1395 |
| slate soft white | 1525 |
| lime hard white | 1535 |
| shale soft black | 1539 |
| lime white hard | 1543 |
| slate soft white | 1570 |
| lime hard dark | 1580 |
| slate soft blue | 1585 |
| lime sandy soft white | 1600 |
| shale soft dark | 1610 |
| slate soft white | 1618 |
| lime slate soft white | 1690 |
| sand soft white | 1705 |
| shale soft dark & white | 1735 |
| sand sharp soft white | 1770 |
| shale soft black | 1775 |
| slate soft white | 1820 |
| sand sharp soft dark | 1838 |
| shale soft and white | 1853 |
| sand soft dark | 1910 |
| lime med-hard white | 1940 |
| shale soft dark | 1950 |
| lime hard black | 1952 |
| shale black | 2035 |
| slate soft white | 2057 |
| lime white hard | 2115 |
| lime soft brown & white | 2180 |
| lime hard white | 2183 |

Water Record:

HFV from 860' to 870'
 Water at 840-850-6BW
 1 BW from 1330-1340
 2 BW from 1690-1705
 More water at 1750
 4-5 BW from 1860-1875
 HFV at 1880
 Cave from 2010-2025
 2 BW from 2160-2170
 HFV from 2170-2180

Casing Record:

| | |
|-----|-------|
| 12" | 847 |
| 10" | 1350 |
| 8" | 1792' |
| 6" | 1952' |

SECRET
JUN 10 1950

State

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State
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