

WELL LOG BUREAU--KANSAS GEOLOGICAL SOCIETY  
508 East Murdock, Wichita, Kansas

Company- MURFIN DRILLING CO.  
Farm- Rein F No. 3

SEC. 20 T. 14 R. 13W  
NE SE NW

Total Depth. 2394  
Comm. 9-4-52 Comp. 10-13-52  
Shot or Treated.  
Contractor. Murfin Drilling Co.  
Issued. 1-3-53

County Russell  
KANSAS



Elevation. 1846 DF

Production. 30 BOPD

CASING:

3" 178  
7" 2384

Figures indicate Bottom of Formations.

|                          |            |
|--------------------------|------------|
| clay                     | 9          |
| post rock                | 15         |
| shale                    | 155        |
| sand 4 BWPB 155-175      | 185        |
| shale                    | 220        |
| sand                     | 230        |
| shale                    | 245        |
| sand water HFW 345       | 365        |
| shale                    | 400        |
| sand                     | 405        |
| Dakota shale HFW 480     | 788        |
| anhydrite 2 BWPB 625-635 | 805        |
| red rock                 | 985        |
| shale                    | 1235       |
| salt                     | 1490       |
| shale                    | 1495       |
| broken lime              | 1585       |
| red rock                 | 1600       |
| lime                     | 1845       |
| shale                    | 1850       |
| red rock                 | 1855       |
| lime & shale             | 1880       |
| lime                     | 1950       |
| shale 1/2 BWPB 1865      | 1975       |
| lime                     | 1995       |
| red rock                 | 2000       |
| lime                     | 2060       |
| shale                    | 2070       |
| red rock                 | 2075       |
| lime                     | 2135       |
| shale                    | 2140       |
| red rock                 | 2150       |
| shale                    | 2175       |
| sandy lime               | 2215       |
| wshale                   | 2200       |
| broken lime              | 2255       |
| shale & shells           | 2343       |
| red rock                 | 2347       |
| shale                    | 2356       |
| lime                     | 2366       |
| shale                    | 2369       |
| Tarkio sand              | 2377       |
| shale                    | 2384       |
| Tarkio                   | 2394 T. D. |

TOPS  
Anhydrite 788  
Tarkio 2384

Water Record:  
4 BWPB at 155 to 175'  
HFW @ 345'  
HFW @ 480'  
2 BWPB at 625-35'  
1/4 BWPB @ 1865'  
50 gals. 15% inhibited  
Sand oil w/500# sand &  
100 gals. acid (bulk)  
Hydrafrac.

50 gals. 15% inhibited Sandoil w/ 3500# sand & 100 gals. acid (bulk)  
Hydrafrac.