

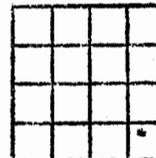
WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY 15-065-02786  
 508 East Murdock, Wichita, Kansas

Company- Empire Drlg. Co.  
 Farm- Madden-Davis "B" No. 4

SEC. 17 T. 8 R. 25W  
 NW SE SE

Total Depth. 3808'  
 Comm. 6-28-54 Comp. 7-7-54  
 Shot or Treated.  
 Contractor. Empire Drlg. Co.,  
 Issued. 8-14-54

County Graham  
 KANSAS



CASING:  
 8 5/8" 171' w/110 sx cem.  
 5 1/2" 3798' w/75 sx cem.

Elevation. 2352 K B.

Production. BHB 4274 BOPD/no wtr

Figures indicate Bottom of Formations.

|                   |          |
|-------------------|----------|
| surface holw      | 188      |
| shale             | 395      |
| shale-sand        | 1030     |
| shale-sand-shells | 1400     |
| shale             | 2050     |
| anhydrite         | 2085     |
| shale             | 2135     |
| shale-shells      | 2375     |
| shale             | 2510     |
| shale-shells      | 2775     |
| shale-lime        | 3000     |
| shale-shells      | 3085     |
| lime-shale        | 3165     |
| lime              | 3435     |
| lime-shale        | 3615     |
| lime              | 3808 RTD |
| Total Depth       |          |

TOPS:  
 Heebner 3590  
 Toronto 3619  
 Lansing Kansas City 3636