

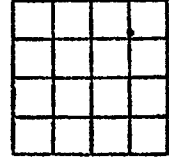
WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY  
508 East Murdock, Wichita, Kansas

Company- COOPERATIVE REFINERY ASS'N.  
Farm- Phinney No. 15

SEC. 30 T. 14 R. 13W  
CS/2 N/2 NE  
150' N of C NE/4

Total Depth. 3173'  
Comm. 5-28-57 Comp. 6-7-57  
Shot or Treated.  
Contractor. Shields Drlg. Co.  
Issued. 8-31-57

County Russell  
KANSAS



Elevation. 1765' DF

Production. 90 BOPD

CASING:

8 5/8" 710' cem w/400 sx.  
5 1/2" 3172' cem w/100 sx.

Figures indicate Bottom of Formations.

|                            |          |
|----------------------------|----------|
| sand                       | 50       |
| shale                      | 200      |
| shale, sand, iron          | 395      |
| redbed                     | 700      |
| anhydrite                  | 740      |
| shale                      | 840      |
| shale, salt, shale, shells | 1455     |
| shale, lime streaks        | 1580     |
| shale shells               | 1730     |
| lime and shale             | 1840     |
| shale, lime streaks        | 1910     |
| shale and shells           | 2049     |
| shale                      | 2395     |
| shale and shells           | 2500     |
| shale and lime             | 2612     |
| lime                       | 3173 RTD |
| Total Depth                |          |

TOPS: SCOUT

|             |      |
|-------------|------|
| Anhydrite   | 700  |
| Aspenwall   | 2199 |
| Tarkio Lime | 2326 |
| Almont      | 2394 |
| Topeka      | 2604 |
| Heebner     | 2833 |
| Toronto     | 2851 |
| Lansing     | 2900 |
| Reagan Sand | 3171 |