

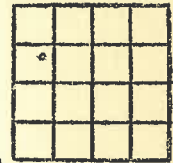
WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY
 508 East Murdock, Wichita, Kansas

Company-THUNDERBIRD DRILLING CO., INC.
 Farm- Lucas No. 1

SEC. 4 T. 19 R. 12W
 NE SW NW

Total Depth. 3387'
 Comm. 11-27-59 Comp. 12-6-59
 Shot or Treated.
 Contractor. Co Tools
 Issued. 3-19-60

County Barton
 KANSAS



Elevation. 1802 DF

Production. 182 BOPD

CASING:

8 5/8" 223' com. w/130 sx.
 5 1/2" 3383' com. w/110 sx.

Figures indicate Bottom of Formations.

| | |
|------------------|---------|
| shale | 75 |
| shale & sand | 185 |
| hard sand & iron | 250 |
| shale & red bed | 640 |
| anhydrite | 675 |
| shale & shells | 1420 |
| shale & lime | 1550 |
| lime | 1700 |
| shale & lime | 1830 |
| lime | 2015 |
| shale & lime | 2195 |
| shale & shells | 2645 |
| shale & lime | 2775 |
| lime | 3020 |
| shale & lime | 3098 |
| lime | 3387RTD |
| Total Depth | |

TOPS: SCOUT

| | |
|---------------------|------|
| Anhydrite | 640 |
| Heebner | 2976 |
| Toronto | 2994 |
| Douglas | 3010 |
| Brown Lime | 3083 |
| Lansing | 3097 |
| Cherty Conglomerate | 3366 |
| Arbuckle | 3379 |