

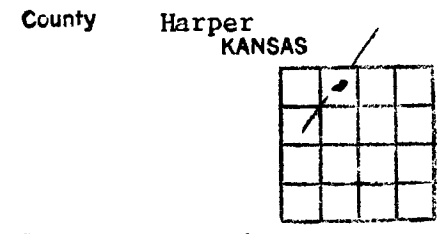
31 - 33 - 60

WELL LOG BUREAU - NATIONAL SOCIETY
508 East Murdock, Wichita, Kansas

Company- AMERADA PETROLEUM CO.
Farm- Steward No. 1

SEC. 31 T. 33 R. 6W
C NE NW

Total Depth. 5010'
Comm. 12-10-65 Comp. 12-29-65
Shot or Treated.
Contractor. Leben DRlg., Inc.
Issued. 3-26-66



CASING:
8 5/8" 256' w/200 sx cem.

Elevation. 1308' RB

Production. DRY

Figures Indicate Bottom of Formations.

| | |
|--------------------|----------|
| Red bed | 0-258 |
| shale | 548 |
| shale, shells | 1200 |
| lime, shale | 2155 |
| shale | 2425 |
| shale, lime strks | 3240 |
| shale, lime | 3650 |
| shale, sand | 3720 |
| shale, lime | 3767 |
| shale, sand | 3880 |
| lime, shale | 4068 |
| lime | 4188 |
| shale, lime | 4510 |
| lime | 4545 |
| lime, shale | 4675 |
| lime | 4745 |
| lime, shale | 4915 |
| lime, shale, chert | 4955 |
| lime, shale | 4958 |
| sand | 4965 |
| Simpson sand | 5010 RTD |
| Total Depth | |

TOPS: SCOUT

| | |
|------------------|------|
| Heebner | 3238 |
| Toronto | 3256 |
| Douglas | 3277 |
| Stalnaker sand | 3637 |
| Lansing | 3618 |
| Kansas City | 3868 |
| * Strakio shale | 4017 |
| * Swope lime | 4019 |
| B/Kansas City | 4110 |
| Cherokee | 4347 |
| Mississippi | 4496 |
| Kinderhook | 4846 |
| Viola | 4935 |
| Simpson Dolomite | 4951 |
| Simpson sand | 4960 |

* Sample tops.