

33-31-5W

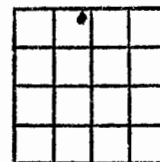
WELL LOG BUREAU—KANSAS GEOLOGICAL SOCIETY  
508 East Murdock, Wichita, Kansas

Company- NATURAL GAS & OIL CO.  
Farm- Ioerger No. 1

SEC. 33 T. 31 R. 5W  
NE NE NW

Total Depth. 4659'  
Comm. 3-17-58 Comp. 3-24-58  
Shot or Treated.  
Contractor. Prime Drlg. Co.  
Issued. 5-31-58

County Harper  
KANSAS



Elevation. 1330' RB

Production. 240 BOPD, 5% Wtr.

Figures indicate Bottom of Formations.

|                            |      |
|----------------------------|------|
| sand, clay & red bed       | 40   |
| red bed & sand             | 60   |
| red bed & shale            | 425  |
| shale & shells             | 700  |
| shale, shells, salt        | 918  |
| Anhydrite                  | 965  |
| shale & lime               | 3305 |
| sand                       | 3395 |
| shale                      | 3465 |
| shale & lime               | 3550 |
| shale                      | 3568 |
| lime                       | 3875 |
| shale & lime               | 4197 |
| Mississippi lime           | 4208 |
| cherty lime                | 4262 |
| shale & lime               | 4293 |
| lime, shale/cherty strks   | 4318 |
| chert                      | 4319 |
| chert, cherty lime & shale | 4333 |
| cherty lime                | 4518 |
| chert                      | 4550 |
| lime                       | 4555 |
| shale                      | 4643 |
| sand                       | 4659 |
| Total Depth                |      |

TOPS: SCHLUMBERGER

|                  |      |
|------------------|------|
| Anhydrite        | 918  |
| Kansas City      | 3570 |
| Base Kansas City | 3795 |
| Marmaton         | 3868 |
| Mississippi      | 4191 |
| Kinderhook sh.   | 4537 |
| Chatt. sh        | 4620 |
| Simpson Sand     | 4638 |

3702-3717, open 1 hr, fair blow for 1 hr.  
rec. 30' thin SI OCM & 50' watery  
mud, SI 20 min, IFP 15#, FFP 45#,  
BHP 975#.

4639-4643, open 1 hr, gas to surface in 17  
min, too small to gauge, rec. 330'  
gassy oil, 65' HO & GCM, IBHP 1870#,  
SI 20 min, IFP 25#, FFP 180#, BHP 1830#.

4643-4648, open 1 hr, rec. 1075' gas, 60' HO&GCM,  
IBHP 1840#, SI 20 min, IFP & FFP 0#,  
FBHP 1530#, still bldg.

Perf. 4653-56 w/6 bullets per foot.

DRILL STEM TESTS: