

20-6-26W

S. 20 T. 6S R. 26 <sup>XE</sup> W

Loc. C N/2 N/2 NW/4

County Sheridan

API No. 15 — 179 — 20,542 ✓  
County Number

Operator  
A. Scott Ritchie

Address  
Suite 950 - 125 N. Market; Wichita, Kansas

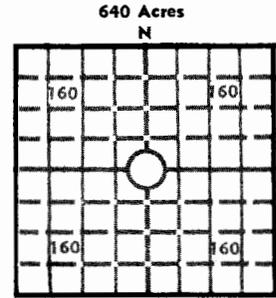
Well No. 1 Lease Name Hardesty

Footage Location  
feet from (N) (S) line feet from (E) (W) line

Principal Contractor Geologist  
Murfin Drilling Co. Kris Kennedy

Spud Date Total Depth P.B.T.D.  
10/22/79 3985'

Date Completed Oil Purchaser  
11/21/79 Clear Creek



Elev.: Gr. 2654'

DF KB 2659'

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

| Purpose of string | Size hole drilled | Size casing set (in O.D.) | Weight lbs/ft. | Setting depth | Type cement  | Sacks | Type and percent additives       |
|-------------------|-------------------|---------------------------|----------------|---------------|--------------|-------|----------------------------------|
| surface           | 12 1/4"           | 8 5/8"                    | 24#            | 360'          | 60/40 pozmix | 250   | 3% cc; 2% gel                    |
| production        |                   | 4 1/2"                    |                | 3980'         | 60/40 pozmix | 175   | 10% salt; 10 bbls brine preflush |

LINER RECORD

PERFORATION RECORD

| Top, ft.      | Bottom, ft.   | Sacks cement  | Shots per ft. | Size & type | Depth interval |
|---------------|---------------|---------------|---------------|-------------|----------------|
|               |               |               | 2             | SSB         | 3907' - 3911'  |
| TUBING RECORD |               |               | 2             | SSB         | 3890' - 3893'  |
| Size          | Setting depth | Packer set at | 2             | SSB         | 3858' - 3863'  |

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD 2 SSB from 3823' - 3828' &

| Amount and kind of material used | Depth interval treated                    |
|----------------------------------|---|
| 2400 gals 28% acid               | 3806' - 3808' & 3860' - 3908 1/2' overall |

INITIAL PRODUCTION

|  |  |   |       |                       |
|--|--|---|-------|-----------------------|
| Date of first production<br>January 1, 1980              | Producing method (flowing, pumping, gas lift, etc.)<br>pumping |   |       |                       |
| RATE OF PRODUCTION PER 24 HOURS<br>app. 60 bbls.         | Oil  | Gas   | Water | Gas-oil ratio<br>CFPB |
| Disposition of gas (vented, used on lease or sold)<br>-- |  | Producing interval (s)<br>3806' - 3911' overall |       |                       |

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

|   |                        |  |
|---|------------------------|--|
| Operator<br>A. Scott Ritchie                                  |                        | DESIGNATE TYPE OF COMP.: OIL, GAS,<br>DRY HOLE, SWDW, ETC.:<br>oil |
| Well No.<br>1   | Lease Name<br>Hardesty |  |
| S <u>20</u> T <u>6S</u> R <u>26</u> <sup>K</sup> <sub>W</sub> |                        |  |

**WELL LOG**

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

| FORMATION DESCRIPTION, CONTENTS, ETC.   | TOP | BOTTOM | NAME              | DEPTH         |
|---|-----|--------|-------------------|---------------|
| DST #1 3756'-3781' Rec. 5' mud. IFP 32-32#/30"; ISIP 312#/30"; FFP 32-32#/30"; FSIP 312#/30".   |     |        |                   |               |
| DST #2 3795'-3820' Misrun.  |     |        |                   |               |
| DST #3 3792'-3821' Rec. 120' gas in pipe; 5' clean oil; 60' slightly mud cut oil (90% oil, 10% mud); and 60' heavily oil cut mud(40% oil, 60% mud). IFP 32-32#/30"; ISIP 426#/30"; FFP 53-53#/45"; FSIP 436#/45".             |     |        |                   |               |
| DST #4 3819'-3845' Rec. 240' gas in pipe; 150' clean oil; 180' heavily oil cut mud; 180' muddy water. IFP 53-128#/30"; ISIP 660#/30"; FFP 170-223#/30"; FSIP 639#/30".  |     |        |                   |               |
| DST #5 3844'-3910' Rec. 240' gas in pipe; 125' clean oil (31 <sup>o</sup> gravity); 120' muddy oil (90% oil, 10% mud); 120' oil cut mud(20% oil, 80% mud). IFP 64-106#/30"; ISIP 1215#/30"; FFP 128-160#/30"; FSIP 1183#/30". |     |        | ELECTRIC LOG TOPS |               |
|   |     |        | Anh               | 2251' (+ 408) |
|   |     |        | B/Anh             | 2282' (+ 377) |
|   |     |        | Top               | 3496' (- 837) |
|   |     |        | Heeb              | 3700' (-1041) |
|   |     |        | Tor               | 3723' (-1064) |
|   |     |        | Lans              | 3738' (-1079) |
|   |     |        | B/Kc              | 3940' (-1281) |
|   |     |        | LTS               | 3958' (-1299) |
| DST #6 3909'-3960' Rec. 100' gas in pipe and 200' oil cut mud(32% oil, 68% mud). IFP 43-53#/30"; ISIP 1109#/30"; FFP 85-85#/45"; FSIP 1098#/45".  |     |        |                   |               |

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

|               |                               |
|---------------|-------------------------------|
| Date Received | <i>F. Johnson Higgs</i>       |
|               | Signature                     |
|               | Exploration Manager/Geologist |
|               | Title                         |
|               | January 22, 1980              |
|               | Date                          |

WELL LOG

20-6-26W

COMPANY A. Scott Ritchie

SEC. 20 T. 6S R. 26W  
 LOC.

FARM HARDESTY NO. 1

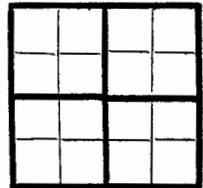
C N/2 N/2 NW

RIG. NO. 16

TOTAL DEPTH 3985'

COUNTY Sheridan  
 KANSAS

COMM. 10-22-79 COMP. 10-31-79



CONTRACTOR Murfin Drilling Company

CASING

20 10  
 15 8 -5/8" csg. set @ 360' w/250 sx. of  
 12 6 60-40 posmix, 3% CC, 2% gel.  
 13 5

ELEVATION

4 1/2" csg. set @ 3980' w/175 sx. of 60-40 posmix, 10% salt.

PRODUCTION

FIGURES INDICATE BOTTOM OF FORMATIONS

|       |                       |
|-------|-----------------------|
| 35'   | Surface Soil          |
| 280'  | Sand                  |
| 361'  | Shale (Blue)          |
| 1325' | Shale & Hard Sand     |
| 1352' | Pyrite                |
| 1360' | Shale                 |
| 1780' | Sand & Shale & Pyrite |
| 2248' | Sand & Shale          |
| 2280' | ANHYDRITE             |
| 2655' | Shale & Lime          |
| 2960' | Shale                 |
| 3255' | Shale & Lime          |
| 3960' | Lime & Shale          |
| 3960' | Lime                  |
| 3985' | Lime & Shale R T D    |