

## State Geological Survey

WICHITA, BRANCH

## KANSAS DRILLERS LOG

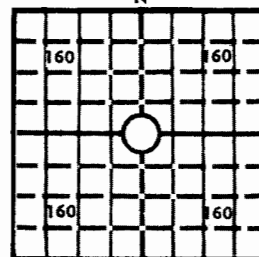
API No. 15 — 083 — 20,459-A  
County Number

MAR 17 1977

S. 30 T. 21 R. 23 E W

Loc. NW SW

County Hodgeman

640 Acres  
N

Locate well correctly

Elev.: Gr. \_\_\_\_\_

DF \_\_\_\_\_ KB 2407 K.B.

|                                                                        |                               |                  |
|------------------------------------------------------------------------|-------------------------------|------------------|
| Operator<br>Thunderbird Drilling, Inc.                                 |                               |                  |
| Address<br>P. O. Box 18407 Wichita, Kansas 67218                       |                               |                  |
| Well No.<br>#1                                                         | Lease Name<br>Tammen "C" OWWO |                  |
| Footage Location<br>feet from (N) (S) line      feet from (E) (W) line |                               |                  |
| Principal Contractor                                                   |                               | Geologist        |
| Spud Date                                                              | Total Depth<br>4670           | P.B.T.D.<br>4649 |
| Date Completed                                                         | Oil Purchaser                 |                  |

## 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 |
|-------------------|-------------------|---------------------------|----------------|---------------|-------------|-------|----------------------------|
| Production        |                   | 4 1/2                     |                | 4669          |             | 100   |                            |
|                   |                   |                           |                |               |             |       |                            |
|                   |                   |                           |                |               |             |       |                            |

## LINER RECORD

## PERFORATION RECORD

| Top, ft. | Bottom, ft. | Sacks cement | Shots per ft. | Size & type | Depth interval |
|----------|-------------|--------------|---------------|-------------|----------------|
|          |             |              | 2             |             | 4616-4622      |
|          |             |              | 2             |             | 4632-4645      |

## ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

| Amount and kind of material used | Depth interval treated |
|----------------------------------|------------------------|
| 1000 gal. MCA                    | 4616-4622 & 4632-4645  |
|                                  |                        |

## INITIAL PRODUCTION

|                                                    |                 |                                                             |                  |
|----------------------------------------------------|-----------------|-------------------------------------------------------------|------------------|
| Date of first production<br>9/7/76                 |                 | Producing method (flowing, pumping, gas lift, etc.)<br>Pump |                  |
| RATE OF PRODUCTION PER 24 HOURS                    | Oil<br>63 bbls. | Gas<br>MCF                                                  | Water<br>3 bbls. |
| Disposition of gas (vented, used on lease or sold) |                 | Producing interval (s)                                      |                  |

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>Thunderbird Drilling, Inc. | DESIGNATE TYPE OF COMP.: OIL, GAS,<br>DRY HOLE, SWDW, ETC.: |
|----------------------------------------|-------------------------------------------------------------|

|               |                                 |  |
|---------------|---------------------------------|--|
| Well No.<br>1 | Lease Name<br>Tammen "C" (OWWO) |  |
|---------------|---------------------------------|--|

|                           |  |
|---------------------------|--|
| S 30 T 21 S R 23 W E<br>W |  |
|---------------------------|--|

|                                                                                                                                                                                                                                        |                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| <b>WELL LOG</b><br>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,<br>OR OTHER DESCRIPTIVE INFORMATION. |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|

| FORMATION DESCRIPTION, CONTENTS, ETC.                         | TOP  | BOTTOM | NAME | DEPTH |
|---------------------------------------------------------------|------|--------|------|-------|
| DST #1<br>/20", rec. 10' mud, FP 52-54#,<br>FSIP 1159#        | 4647 | 4670   |      |       |
| USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD. |      |        |      |       |

|               |                                                       |
|---------------|-------------------------------------------------------|
| Date Received | <div>Signature</div> <div>Title</div> <div>Date</div> |
|---------------|-------------------------------------------------------|