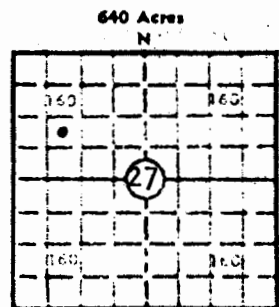


WELL COMPLETION REPORT AND SURVEY
DRILLER'S LOG

WICHITA BRANCH
API No. 15 — 009 — 21733 ✓
County Number

S. 27 T. 20S R. 13 W
Loc. NE SW NW
County Barton

Operator: Tenneco Oil Company
Address: Suite 139, Ciudad Bldg., 3000 United Founders Blvd. Oklahoma City, Oklahoma, 73112
Well No. C-4 Lease Name Sandrock Unit
Footage Location: 1650' feet from (N) (X) line 990 feet from (E) (W) line
Principal Contractor: Aspen Exploration Geologist: -
Spud Date: 10-10-79 Date Completed: 10-25-79 Total Depth: 3565' P.B.T.D.: 3531'
Directional Deviation: - Oil and/or Gas Purchaser: Koch Ind.



Elev.: Gr. 1880'
DF 1884' KB 1887'

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# | 309 | Class H | 225 | 2% Gel 3% CC |
| Production | 7-7/8" | 5-1/2" | 15.5# | 3564 | RFC | 225 | 10# Kolite, 3/4% D-6 Mud 2% D-46, W/500# Flush |
| | | | | | | | |
| | | | | | | | |

LINER RECORD

PERFORATION RECORD

| Top, ft. | Bottom, ft. | Sacks cement | Shots per ft. | Size & type | Depth interval |
|---------------|---------------------|---------------------|---------------|-------------|-----------------------------------|
| - | - | - | 2/ft. | | 3501-03, 3487 3470-72, 3400-03 |
| TUBING RECORD | | | 2/ft. | | 3412-18, 3378-80 |
| Size 2-7/8" | Setting depth 3500' | Packer set at 3280' | 2/ft. | | 3330-42, 3292-95 |

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

| Amount and kind of material used | Depth interval treated |
|--|------------------------|
| 2500 Gal. Retarded Acid 500 Gal. Acid | 3292-3503 |
| 3000 Gal. 15% HCL | 3292-3503 |
| 1000 Gal. Acid 500 Gal. 15% HCL. | 3292-3503 |

INITIAL PRODUCTION

Date of first production: 12-08-79 Producing method (flowing, pumping, gas lift, etc.): Pumping
RATE OF PRODUCTION PER 24 HOURS: Oil 30 bbls. Gas - MCF Water 223 bbls. Gas-oil ratio - CFPB
Disposition of gas (vented, used on lease or sold): Sold Producing interval(s): 3292-3503

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, 245 No. Water, Wichita, Kansas 67202. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be an open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

| | | |
|---|-----------------------------|--|
| Operator Tenneco Oil Company | | DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Oil |
| Well No. C-4 | Lease Name Sandrock Unit | |
| S <u>27</u> T <u>20S</u> R <u>13</u> X W | | |

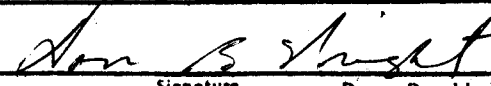
WELL LOG

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 |
|---------------------------------------|------|---------|------|-------|
| Top soil and shale | 0 | 36 | | |
| Shale/Sand | 36 | 242 | | |
| Blue Shale | 242 | 315 | | |
| Shale | 315 | 1230 | | |
| Shale/Lime | 1230 | 2982 | | |
| Lime/Shale | 2982 | 3242 | | |
| Lime | 3242 | 3565 TD | | |

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

| | |
|---------------|--|
| Date Received |  |
| | Signature Don B. Wright |
| | Administrative Supervisor |
| | Title |
| | January 22, 1980 |
| | Date |