

KANSAS

WELL COMPLETION REPORT AND
DRILLER'S LOG



WICHITA BRANCH

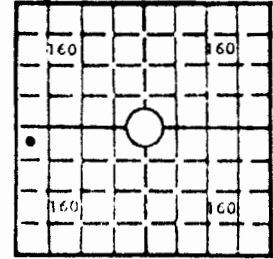
S. 12 T. 32 R. 12 ^{EC}_W

Loc. NW-NW-SW

API No. 15 — 007 — 20,991
County Number

County Barber

640 Acres
N



Locate well correctly

Elev.: Gr. 1455

DF 1464 KB 1466

Operator
Aylward Drilling Company

Address
909 First National Bank Building, Wichita, Kansas 67202

Well No. 4 Lease Name Doherty

Footage Location
2310 feet from (N) (S) line 330 feet from (E) (W) line

Principal Contractor Geologist
Graves Drilling Company Kenneth B. Hamlin

Spud Date Date Completed Total Depth P.B.T.D.
9-28-80 10-5-80 4300

Directional Deviation Oil and/or Gas Purchaser
N/A Permian Corporation

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" | N/A | 210 | Common | 185 | Regular |
| Production | 7 7/8" | 5 1/2" | 14# | 4299 | " | 75 | " |
| | | | | | | | |
| | | | | | | | |

LINER RECORD

PERFORATION RECORD

| Top, ft. | Bottom, ft. | Sacks cement | Shots per ft. | Size & type | Depth interval |
|----------|-------------|--------------|---------------|-----------------|----------------|
| | | | 2 | 5/8" Jumbo Jets | 4238-4244 |
| | | | 2 | 5/8" Jumbo Jets | 4254-4260 |

| Size | Setting depth | Packer set at |
|--------|---------------|---------------|
| 2 3/8" | 4275 | N/A |

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

| Amount and kind of material used | Depth interval treated |
|----------------------------------|------------------------|
| Acidized w/250 gals. mud acid | 4254-4260 & 4238-4244 |
| Fraced w/15,000# Sand | 4254-4260 & 4238-4244 |

INITIAL PRODUCTION

Date of first production 10-15-80 Producing method (flowing, pumping, gas lift, etc.) Flowing

| RATE OF PRODUCTION PER 24 HOURS | Oil | Gas | Water | Gas-oil ratio |
|---------------------------------|----------|---------|----------|---------------|
| | 30 bbls. | 220 MCF | 18 bbls. | CFPB |

Disposition of gas (vented, used on lease or sold) Producing interval(s) 4238-4244 & 4254-4260

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 on an open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

| | | |
|--|-----------------------|---|
| Operator Aylward Drilling Company | | DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: |
| Well No. 4 | Lease Name Doherty | Oil & Gas |
| S 12 T 32 R 12 W NW-NW-SW, Barber County, Kansas | | |

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 |
|---------------------------------------|------|--------|------|-------|
| Sand | 0 | 60 | | |
| Red Bed | 60 | 500 | | |
| Red Bed & Shale | 500 | 1725 | | |
| Shale & Lime | 1725 | 2107 | | |
| Lime & Shale | 2107 | 2824 | | |
| Shale & Lime | 2824 | 3607 | | |
| Sand & Shale | 3607 | 3770 | | |
| Shale & Lime | 3770 | 4192 | | |
| Lime & Shale | 4192 | 4250 | | |
| Lime | 4250 | 4300 | | |
| Rotary Total Depth | | 4300 | | |

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

| | |
|---------------|------------------------|
| Date Received | <i>P. Frank Hamlin</i> |
| | Signature |
| | Manager |
| | Title |
| | 8-4-81 |
| | Date |

D

12-32-12W
State Geological Survey
WICHITA, BRANCH

R O T A R Y D R I L L E R S ' L O G

OPERATOR: Aylward Drilling Co. DRILLING COMMENCED: September 28, 1980
 909 First National Bank Bldg.
 Wichita, Kansas 67202

CONTRACTOR: Graves Drilling Co., Inc. DRILLING COMPLETED: October 5, 1980
 910 Union Center
 Wichita, Kansas 67202

CASING RECORD: 5 Jts. 210' of new 8-5/8" LOCATION: Doherty No. 4
 cemented with 185 sacks. NW NW SW
 Section 12-32S-12W
 Barber County, Kansas
 103 Jts. 4299' of new 5 1/2"
 cemented with 75 sacks.

| | |
|-------------|--------------------|
| 0 - 60 | Sand |
| 60 - 500 | Red bed |
| 500 - 1725 | Red bed & shale |
| 1725 - 2107 | Shale & lime |
| 2107 - 2824 | Lime & shale |
| 2824 - 3607 | Shale & lime |
| 3607 - 3770 | Sand & shale |
| 3770 - 4192 | Shale & lime |
| 4192 - 4250 | Lime & shale |
| 4250 - 4300 | Lime |
| 4300 | Rotary Total Depth |

I hereby certify the foregoing statements to be true and correct to the best of my knowledge.

Copy sent to:
State Corporation Commission
Kansas Geological Society
Kansas Geological Survey

GRAVES DRILLING CO., INC.

By Betty Brandt
Secretary-Treasurer