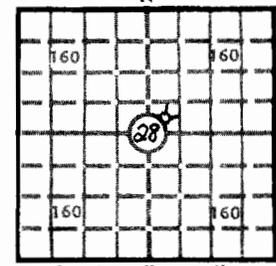


KANSAS DRILLERS LOG

S. 28 T. 12S R. 17W^E_W
 Loc. SW SW NE
 County Ellis

API No. 15 — _____
 County _____ Number _____

640 Acres
N



Locate well correctly
Elev.: Gr. 2113

DF 2116 KB 2118

Operator
John O. Farmer, Inc.

Address
Box 352, Russell, Kansas 67665

Well No. 4 Lease Name STAAB

Footage Location
330 feet from XX (S) line 330 feet from XX (W) line

Principal Contractor John O. Farmer, Inc. Geologist Sam Farmer

Spud Date 3-8-78 Total Depth 3685 P.B.T.D. _____

Date Completed 3-18-78 Oil Purchaser None -- D & A

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 | 26 | 202 | Common | 160 | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

LINER RECORD

PERFORATION RECORD

| Top, ft. | Bottom, ft. | Sacks cement | Shots per ft. | Size & type | Depth interval |
|----------|-------------|--------------|---------------|-------------|----------------|
| | | | | | |
| | | | | | |
| | | | | | |

TUBING RECORD

| Setting depth | Packer set at |
|---------------|---------------|
| | |
| | |

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

| Amount and kind of material used | Depth interval treated |
|----------------------------------|------------------------|
| | |
| | |
| | |

INITIAL PRODUCTION

| | | | | | |
|--|-----------------|---|------------------------------|--------------------------|--|
| Date of first production _____ | | Producing method (flowing, pumping, gas lift, etc.) _____ | | | |
| RATE OF PRODUCTION PER 24 HOURS | Oil _____ bbls. | Gas _____ MCF | Water _____ bbls. | Gas-oil ratio _____ CFPB | |
| 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 **John O. Farmer, Inc.** DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:

Well No. **4** Lease Name **STAAB** Dry Hole

S 28 T 12 S R 17 ^W_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 |
|---------------------------------------|------|--------|------------|--------------|
| Shale & Sand | 202 | 800 | Anhydrite | 1329 (+789) |
| Sand | 800 | 965 | Base/Anhy. | 1367 (+751) |
| Red Bed | 965 | 1329 | Heebner | 3334 (-1216) |
| Anhydrite | 1329 | 1367 | Toronto | 3357 (-1239) |
| Shale & Shells | 1367 | 1940 | Lansing | 3378 (-1260) |
| Shale & Lime | 1940 | 3460 | Arbuckle | 3638 (-1520) |
| Lime & Shale | 3460 | 3520 | T.D. | 3685 (-1567) |
| Lime | 3520 | 3625 | | |
| Arbuckle | 3625 | 3685 | | |

DST #1 3605-3645
 Tool Open 30-45-30-45; weak blow
 27 min.
 Rec: 20' mud
 IFP: 32-53 FFP: 53-53
 BHP: 215-150

DST #2 3642-3652
 Tool Open 30-45-60-60; weak blow
 Rec: 40' muddy oil; 60' muddy water
 IFP: 11-17 FFP: 21-32
 BHP: 654-633

DST #3 3652-3662
 Tool Open 30-45-60-60; good blow
 Rec: 160' heavy oil cut mud; 30'
 muddy water
 IFP: 43-43 FFP: 64-58
 BHP: 697-591

DST #4 3670-3685
 Tool Open 30-45-30-45; strong
 blow
 Rec: 1300' Salt water
 IFP: 107-431 FFP: 484-569
 BHP: 760-760

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

| | |
|---------------|-----------------------------|
| Date Received | <i>John O. Farmer, Inc.</i> |
| | Signature |
| | Vice-President |
| | Title |
| | March 20, 1978 |
| | Date |