

195-20,660, W. Bowman, Box 37, Codell, KS, #1, Keller, NE NW NW, Sec. 16-13S-21W,
 (Buffalo Drig.), Rotary, Oil, T.D. 4000', S.P. 240', Alt. 2, 6/11/80.

KANSAS DRILLERS LOG

API No. 15 - 195 - 20,660
 County Number

Operator
W. Bowman

Address
Box 37 Codell, Kansas


Well No. Lease Name
1 Keller

Footage Location
330 feet from (N) (S) line 990 feet from (E) (W) line

Principal Contractor Geologist
Buffalo Drig. Co. Inc. Jerry Green

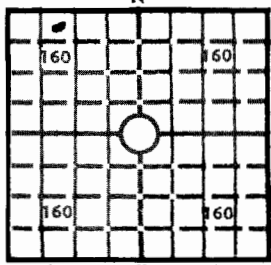
Spud Date Total Depth P.B.T.D.
6/22/80 3970 3915

Date Completed Oil Purchaser
7/1/80 Clear Creek

S. 16 T. 13S R. 21 

Loc. State NW-NW

County Wichita

640 Acres
 N

 Locate well correctly

Elev.: Gr. 2215

DF 2218 KB 2220

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 | 20# | 219 | | 165 | |
| Production | 7 7/8" | 4 1/2 | 9.5 | 3969 | 90 COMMON 60 Pos-Mix | 150 | 2% HCL 6% CFR2 18% Salt |

LINER RECORD

PERFORATION RECORD

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

| Size | Setting depth | Packer set at | | |
|-----------|---------------|---------------|-----|---------|
| 2" E.W.E. | 3915 | | TWO | 3874-82 |

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

| Amount and kind of material used | Depth interval treated |
|------------------------------------------|------------------------|
| 75% Quality Foam Frac (14,000 gal. Foam) | 3874-82 |
| W 110 sacks 20-40 sand and nitrogen - | |
| Form Flush - 3500 gal. 5% acid | |


INITIAL PRODUCTION

Date of first production Aug. 14, 1980 Producing method (flowing, pumping, gas lift, etc.) Pumping

| | | | | | |
|---------------------------------|----------------------|---------------------|-------------------------|---------------|------|
| RATE OF PRODUCTION PER 24 HOURS | Oil <u>TWO</u> bbls. | Gas <u>NONE</u> MCF | Water <u>NONE</u> bbls. | Gas-oil ratio | CFPB |
|---------------------------------|----------------------|---------------------|-------------------------|---------------|------|

Disposition of gas (vented, used on lease or sold) Producing interval(s) 3874-82 Marmaton Chert

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 W. Bowman DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:
 Well No. 1 Lease Name Keller Oil
 S 16T13SR 21 

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 |
|-------------------------------------------------------------------------------------------------------------------------------|------|--------|----------------|-------|
| | 1611 | 1652 | Anhydrite | +609 |
| | 3360 | 3504 | Topeka | -1040 |
| | 3504 | | Heebner | -1284 |
| | 3524 | 3534 | Toronto | -1304 |
| | 3539 | 3780 | HANS, -K.C. | -1319 |
| DST (1) 3590 - 3675 60-45-30-45 450' slightly oil specked muddy water IBHP 887 FBHP 863 IFP 83-225 FFP 248-284 | | | | |
| | | 3780 | Base LKC | -1560 |
| | 3781 | 3959 | Marmaton | -1560 |
| DST (2) 3781 - 3920 60-45-30-45 90' mud, 120' mud cut oil IBHP 650 FBHP 532 IFP 118-166 FFP 177-201 | | | | |
| | 3860 | 3900 | Marmaton Chert | -1620 |
| | 3941 | 3970 | Arbuckle | -1721 |

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

Date Received _____

 Signature
 Operator
 Title
 Feb 9, 1981
 Date