State Geological Survey
WICHITA, BRANCH

# KANSAS DRILLERS LOG

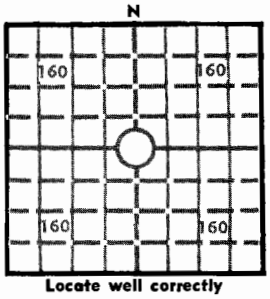
API No. 15 — 065 — 20589
County Number

S. 3 T. 10 R. 23 E W

Loc. SW NW SE

County Graham

640 Acres
N




Locate well correctly

Elev.: Gr. 2408

DF KB 2413

Operator
National Oil Co.

Address
Suite 550 - 200 W. Douglas, Wichita, KS 67202

| Well No. | Lease Name |
|---|---|
| #1 | Klenk |

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

| Principal Contractor | Geologist |
|---|---|
| Gabbert-Jones | Larry Gray |

| Spud Date | Total Depth | P.B.T.D. |
|---|---|---|
| 12-31-72 | 4264' | |

| Date Completed | Oil Purchaser |
|---|---|
| 1-11-73 | |

## 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 |
|---|---|---|---|---|---|---|---|
| | | 8-5/8" | | 259' | Common | 160 | 2% gel, 3% cc |
| | | 5 ½" | | 3900' | Common | 150 | |
| | | | | | | | |
| | | | | | | | |

## LINER RECORD

| Top, ft. | Bottom, ft. | Sacks cement |
|---|---|---|
| | | |

## TUBING RECORD

| Size | Setting depth | Packer set at |
|---|---|---|
| 2-3/8" | 3945' | |

## PERFORATION RECORD

| Shots per ft. | Size & type | Depth interval |
|---|---|---|
| 2 holes/ft. | | 3866-69 |
| " | | 3847-50 |
| " | | 3836-38 |

## ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

| Amount and kind of material used | Depth interval treated |
|---|---|
| Acidized w/250 gal. MCA | 3869-70' |
| " w/250 gal. MCA | 3847-50 |
| " w/250 gal. MCA | 3836-38 |
| " w/1500 gal. MCA | 3866-69 |
| " w/1000 gal. NE | 3847-50 |

## INITIAL PRODUCTION

| Date of first production | Producing method (flowing, pumping, gas lift, etc.) |
|---|---|
| 4-14-73 | Pumping |

| RATE OF PRODUCTION PER 24 HOURS | Oil | Gas | Water | Gas-oil ratio |
|---|---|---|---|---|
| | 30 bbls. | 0 MCF | Trace bbls. | CFPB |

| Disposition of gas (vented, used on lease or sold) | Producing interval(s) |
|---|---|
| Sold | 3707-3982' |

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.

C-10-1972

| Operator | DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: |
|---|---|
| National Oil Company | |
| **Well No.** #1 / **Lease Name** KLENK | Oil |
| S 3 T 10S R 23 E (W) SE NW SE | |

## 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 |
|---|---|---|---|---|
| D.S.T.#1, 3729-3750, Open 1 hr., Wk blow 6"; Rec 10' Mud; FSIP 562#; FP 44-53#. | | | Electric Log Tops: | |
| D.S.T.#2, 3751-3780, 45-30-45-30; Rec 680' Sl GC Mdy Sw, ISIP 719-696#; FP 58-334#. | | | Anhy | 1977 + 436 |
| D.S.T.#3, 3840-3875, Rec 1145' GIP; 510' Mdy Oil; ISIP 1308-1252#; FP 81-219#. | | | Top | 3452 -1039 |
| D.S.T.#4, 3890-3925, Wk Blow 32"; Open 1 hr; Si 30"; Rec 75' th wtry mud, no pressures reported, clock stopped. | | | Heeb | 3672 -1259 |
| | | | Lans | 3708 -1295 |
| | | | B/KC | 3935 -1522 |
| | | | Cong | 4120 -1707 |
| | | | Arb | 4246 -1833 |
| | | | TD | 4264 |

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

Date Received

RECEIVED OCT 1974 STATE GEOLOGICAL SURVEY OF KANSAS

Arden Ratzlaff
Signature

Exploration Manager
Title

Date

L0029

...IA, BRANCH

GABBERT-JONES, INC.
WICHITA, KANSAS
DRILLERS' WELL LOG

3-10-23W

KLENK #1
C SW NW SE
Section 3-10S-23W
Graham County, Kansas

RECEIVED
STATE CORPORATION COMMISSION
SEP 23 1974
CONSERVATION DIVISION
Wichita, Kansas

Commenced: December 31, 1972
Completed: January 10, 1973

OPERATOR: NATIONAL OIL CO. INC.

| Depth From | Depth To | Formation | Remarks |
|---|---|---|---|
| 0 | 40 | Topsoil - Clay | Ran 6 double joints of used 28# 8 5/8" |
| 40 | 263 | Clay-sand-shale | csg. set @ 259' cemented w/160 sks |
| 263 | 1643 | Shale-sand | common, 2% Gel, 3% CC |
| 1643 | 1977 | Shale-sand-redbed | P.D. 9 PM 12/31/1972 |
| 1977 | 2015 | Anhydrite | |
| 2015 | 2496 | Shale-shells | |
| 2496 | 2988 | Shale-lime | |
| 2988 | 3185 | Lime-shale | |
| 3185 | 3515 | Shale-lime | |
| 3515 | 3738 | Lime-shale | |
| 3738 | 3925 | Lime | |
| 3925 | 4005 | Shale-lime | |
| 4005 | 4134 | Lime-shale | |
| 4134 | 4235 | Lime-shale-chert | |
| 4235 | 4265 | Lime-shale | |
| 4265 | TD | | Ran 135 joints of used 14# 5 1/2" csg. set @ 3978' cemented w/150 sks common. P.D. @ 5:15 PM 1/10/1973 |

RECEIVED
OCT 1974
STATE GEOLOGICAL SURVEY OF KANSAS

I, James S. Sutton, II, certify this is a correct copy of the Drillers' Log for the well drilled in the C SW NW SE, Section 3-10S-23W, Graham County, Kansas to the best of my knowledge and belief.

James S. Sutton, II

STATE OF KANSAS )
) SS
COUNTY OF SEDGWICK )

Before me, the undersigned, a Notary Public within and for said County and State, on this 24th day of January, 1973, personally appeared James S. Sutton, II, to me personally known to be the identical person who executed the within and foregoing instrument and acknowledged to me that he executed the same as his free and voluntary act and deed for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above written.

Marjorie Hall, Notary Public

My Commission expires
November 29, 1975