

KANSAS DRILLERS LOG

REVISED TO INDICATE INITIAL PRODUCTION.

S. 33 T. 26S R. 37 ^E/_W

API No. 15 — 093 — 20,076
County Number

Loc. Approx. C SW/4

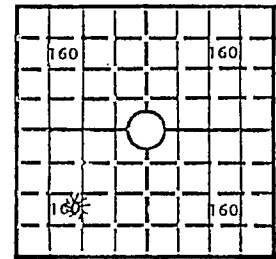
Operator Mobil Oil Corporation for Northern Natural Gas Producing Company

County Kearny

Address P. O. Box 1934, Oklahoma City, Oklahoma 73101

640 Acres
N

Well No. 2 Lease Name Johnson 1-A Unit



Footage Location 1250 feet from (X) (S) line 1250 feet from (X) (W) line

Elev.: Gr. 3065'

Principal Contractor Wakefield Drilling Company Geologist R. D. Wilkinson

Spud Date September 22, 1973 Total Depth 2793' P.B.T.D. 2771'

DF _____ KB 3073'

Date Completed October 31, 1973 Gas Purchaser Northern Natural Gas Company

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 Casing | 13-3/4" | 10-3/4" | | 618' | Howco Lite Water Regular | 225 150 | 3% CaCl ₂ |
| Production Csg. | 8-3/4" | 7" | | 2793' | Howco Lite Water Regular | 225 150 | 18% Salt |
| | | | | | | | |
| | | | | | | | |

LINER RECORD

PERFORATION RECORD

| Top, ft. | Bottom, ft. | Sacks cement | Shots per ft. | Size & type | Depth interval |
|----------|-------------|--------------|---------------|-------------|--|
| | | | 2 | Jet | 2654-58', 2668-71', 2677-79', 2707-11', 2719-26', 2741-47' |
| | | | 2 | Jet | |

TUBING RECORD

| Size | Setting depth | Seating Nipple | Packer set at |
|--------|---------------|----------------|---------------|
| 2-3/8" | 2693' | | None |

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

| Amount and kind of material used | Depth interval treated |
|---|------------------------|
| 4000 gallons 15% HCL, 178,000 gallons fresh water, 350,000# | 2654' - 2747' |
| 20/40 sand, flushed w/6000 gallons fresh water. | |

INITIAL PRODUCTION Will be reported on a revised report as soon as it is available.

Date of first production June 2, 1974 Producing method (flowing, pumping, gas lift, etc.) Flowing

RATE OF PRODUCTION PER 24 HOURS Gas 4 Point Test Water Gas-oil ratio
bbls. CAOF 4,860 M MCF bbls. CFPB

Disposition of gas (vented, used on lease or sold) Sold Producing interval (s) 2654' - 2747' Council Grove

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.

State Geological Survey
WICHITA, BRANCH

KANSAS DRILLERS LOG

API No. 15 — 093 — 20,076
County Number

S. 33 T. 26S R. 37 E
W

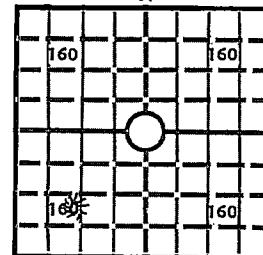
Loc. Approx. C SW/4

Operator Mobil Oil Corporation for
Northern Natural Gas Producing Company

County Kearny

Address
P. O. Box 1934, Oklahoma City, Oklahoma 73101

640 Acres
N



Locate well correctly
Elev.: Gr. 3065'

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INITIAL PRODUCTION

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| | | | | |
|--|---|-----|------------------------|---------------|
| Date of first production | Producing method (flowing, pumping, gas lift, etc.) | | | |
| RATE OF PRODUCTION PER 24 HOURS | Oil | Gas | Water | Gas-oil ratio |
| | bbls. | MCF | bbls. | CFPB |
| Disposition of gas (vented, used on lease or sold) | | | Producing interval (s) | |

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Operator Mobil Oil Corporation for
Northern Natural Gas Producing Company

DESIGNATE TYPE OF COMP.: OIL, GAS,
DRY HOLE, SWDW, ETC.:

Well No.

2

Lease Name

Johnson 1-A Unit

Gas

S 33 T 26S R 37 E
W

WELL LOG

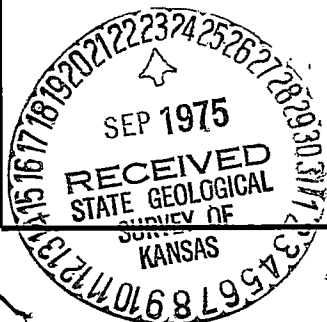
Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN,
OR OTHER DESCRIPTIVE INFORMATION.

| FORMATION DESCRIPTION, CONTENTS, ETC. | TOP | BOTTOM | NAME | DEPTH |
|---------------------------------------|---------|--------|---------------|-------|
| Surface soil & clay | Surface | 90 | Cimarron | 1698 |
| Clay & sand | 90 | 250 | Chase | 2344 |
| Blue shale, red bed | 250 | 619 | Council Grove | 2644 |
| Shale & sand, red bed | 619 | 735 | | |
| Red bed, sand, anhydrite | 735 | 1306 | | |
| Red bed, sand, anhydrite & shale | 1306 | 1656 | | |
| Shale, anhydrite & shells | 1656 | 1821 | | |
| Shells, shale & lime | 1821 | 2053 | | |
| Lime | 2053 | 2793 | | |
| R.T.D. | | 2793 | | |

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

Date Received



Paul K. Langenberg
Paul K. Langenberg Signature
Office Group Supervisor

Title

December 6, 1973

Date