

KANSAS DRILLERS LOG

API No. 15 — 093 — 20,062
County Number

Operator **MOBIL Oil Corporation for Northern Natural Gas Producing Company**

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

Well No. **2** Lease Name **Groseclose Unit**

Footage Location **1250** feet from (X) (S) line **2600** feet from (X) (W) line

Principal Contractor **Zenith Drilling Company** Geologist **R. D. Wilkinson**

Spud Date **May 25, 1973** Total Depth **2905'** P.B.T.D. **2883'**

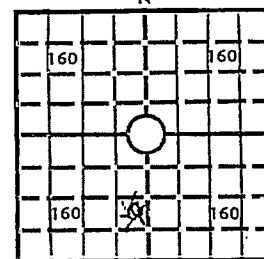
Date Completed **July 9, 1973** Gas Purchaser **Northern Natural Gas Company**

S. 30 T. 26 R. 36 **X**

Loc. Approx. **C E/2 SW**

County **Kearny**

640 Acres
N



Locate well correctly

Elev.: Gr. **3113'**

DF _____ KB **3124'**

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"		595'	Howco Lite Water Regular	350 150	3% CaCl ₂
Prod. Casing	8-3/4"	7"		2905'	Howco Lite Water Regular	250 150	18% Salt

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			1	Jet	2860-65', 2837-43', 2826-29', 2800-04', 2788-92', 2774-78'.

Size	Setting depth	Packer set at
2-3/8"	2974'	None

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
3500 gallons 15% HCL, 167,000 gallons water + 330,000# 20/40 sand, flushed w/192 barrels fresh water.	2774' - 2865' overall.

INITIAL PRODUCTION

Date of first production August 16, 1973	Producing method (flowing, pumping, gas lift, etc.) Flowing
RATE OF PRODUCTION PER 24 HOURS	Oil Gas 4 Pt. Test-CAOF Water Gas-oil ratio
	bbls. 3.291 M MCF bbls. CFPB
Disposition of gas (vented, used on lease or sold)	Producing interval (s) 2774' - 2865'

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.

REW

Operator Mobil Oil Corporation for
Northern Natural Gas Producing Company

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

Well No. 2 Lease Name Groseclose Unit

Gas

S 30 T 26S R 36 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
Sand, blue clay, red bed	Surface	525	Cimarron	1802'
Sand, clay	525	595	Chase	2466'
Red bed, shale	595	1050'	Council Grove	2765'
Red bed, sand, shale	1050	1890		
Shale, lime	1890	2500		
Lime	2500	2905		

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



Paul K. Langenberg Signature

Office Group Supervisor

Title

10-18-73

Date