

State Geological Survey
WICHITA, BRANCH

KANSAS DRILLERS LOG

S. 11 T. 20 R. 8 ^K/_W
 Loc. 2900' WEL & 2570' SNL
 County Rice

API No. 15 — 159 — 20,603
 County Number

Operator
Northern Natural Gas Company

Address
Box 88 Lyons, Kansas 67554

Well No. #11-05 Truesde Lease Name

Footage Location
2570 feet from (N) (S) line 2900 feet from (E) (W) line

Principal Contractor STERLING DRILLING Co. Geologist

Spud Date 2-9-76 Total Depth 3499' P.B.T.D. 3462

Date Completed 5-29-76 Oil Purchaser

640 Acres
N

Locate well correctly

Elev.: Gr. 1665

DF _____ KB 1678

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
<u>SURFACE</u>	<u>12 1/4"</u>	<u>8 5/8"</u>	<u>23</u>	<u>1060</u>	<u>50-50 Perm</u>	<u>440</u>	<u>3% CaCl</u>
<u>PRODUCTION</u>	<u>7 7/8"</u>	<u>5 1/2"</u>	<u>15.5</u>	<u>3499</u>	<u>50-50 Perm</u>	<u>750</u>	<u>200 SXW/18% salt</u>

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			<u>4</u>	<u>DP JET</u>	<u>3275-3279</u>
			<u>4</u>	<u>D.P. JET</u>	<u>3339-3344</u>
			<u>4</u>	<u>D.P. JET</u>	<u>3370-3390</u>

TUBING RECORD

Size	Setting depth	Packer set at
<u>2 7/8</u>	<u>3308</u>	<u>3300</u>

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
<u>250 GAL. 15% HCl</u>	<u>3275-3279+339-3344</u> <u>3370-3390</u>

INITIAL PRODUCTION

Date of first production GAS STORAGE WELL 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)	

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 an open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator

N. NATURAL GAS Co.

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

GAS STORAGE Well

Well No.

11-05

Lease Name

TRUESDELL

S 11 T 20 R 8 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
CORED	3190	3434	GR-N	0-3440
			DENSITY	1050-3440
			IES	2500-3439
			SONIC/FF.	0-3434
HUTCHINSON SALT	713	980		
CHASE GROUP	1155			
COUNCIL GROVE GROUP	1495			
TARKIO LM.	2034			
HOWARD LM.	2265			
HEEBNER SH.	2659			
LANSING /K.C. GROUP	2831			
BASAL PENN. SH. + CONG.	3193			
SIMPSON GROUP	ABSENT			
ARBUCKLE Dolomite Group	3244			

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

Date Received

Jerry A. Wilson
Signature

Project Engineer
Title

6-8-76
Date