

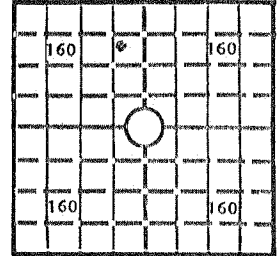
State Geological Survey
WICHITA, BRANCH

KANSAS DRILLERS LOG

S. 11 T. 20 R. 8 *
W
Loc. 900'SNL & 2090'EW
County RICE

API No. 15 — 159 — 20614
County Number

640 Acres
N



Locate well correctly
Elev.: Gr. 1676
DF _____ KB 1689

Operator
NORTHERN NATURAL GAS CO.

Address
Box 88 Lyons, Ks. 67554

Well No. 0811-08 Lease Name TRUESDELL

Footage Location
900 feet from (N) line 2090 feet from (W) line

Principal Contractor STERLING DRILLING CO. Geologist _____

Spud Date 5-21-76 Total Depth 3651 P.B.T.D. 3622

Date Completed 9-9-76 Oil Purchaser _____

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>1058</u>	<u>50-50 pozmix</u>	<u>500</u>	<u>3% C.C.</u>
<u>PRODUCTION</u>	<u>7 7/8"</u>	<u>5 1/2"</u>	<u>15 1/2</u>	<u>3649</u>	<u>50-50 pozmix</u>	<u>750</u>	<u>500 w/gel + gilsonite</u> <u>250 w/18% salt</u>

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			<u>2</u>	<u>DP JET</u>	<u>3360-72</u> <u>3378-90</u>
			<u>2</u>	<u>DP JET</u>	<u>3560-70</u>

TUBING RECORD

Size	Setting depth	Packer set at	Shots per ft.	Size & type	Depth interval
<u>2 1/16"</u>	<u>3348 + 3557</u>	<u>3343 + 3550</u>	<u>2</u>	<u>DP JET</u>	<u>3560-70</u>

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
<u>1000 GAL 15% HCL</u>	<u>3360-72 + 3378-90</u>
<u>500 GAL 15% HCL</u>	<u>3560-70</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.	bbls.	MCF	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 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

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

Operator NORTHERN NATURAL GAS Co.

Well No. 0811-08

Lease Name TRUESDELL

GAS STORAGE WELL

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
			GRN	0 - 3651
			DEN.	1058 - 3600
			FF-SS	0 - 3584
			ZES	2800 - 359
			SONIC	1058 - 359
			DIP	2801 - 3650
HUTCHINSON SALT	927	995		
CHASE GROUP	1173			
COUNCIL GROVE GROUP	1518			
TARKIO LM.	2059			
HOWARD LM.	2295			
HEEBNER SH.	2692			
LANSING / K.C. GROUP	2868			
BASAL PENN. SH. & Cong.	3209			
SIMPSON GROUP	3473			
ARBUCKLE DOLOMITE GROUP	3557			

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

Date Received

Gary H. Wilson
Signature
Project Engineer
Title
9/17/76
Date