

KANSAS DRILLERS LOG

API No. 15 — 159 — 20,799
County Number

Operator

Northern Natural Gas Co.

Address

P. O. Box 88 Lyons, Kansas 67554

Well No.

#35-11

Lease Name

Alderman

Footage Location

50 feet from (N) (S) line 2565 feet from (E) (W) line

Principal Contractor

Sterling Drilling

Geologist

Spud Date

March 8, 1979

Total Depth

3625

P.B.T.D.

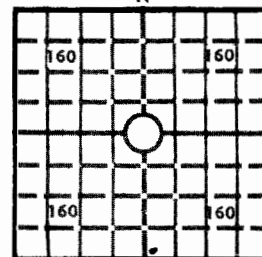
Date Completed

March 27, 1979

Oil Purchaser

S. 35 T. 19 R. 8 W
Loc. 2565' WEL & 50' NSL

County Rice

640 Acres
N

Locate well correctly

Elev.: Gr. 1722'

DF. KB 1735'

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	12½"	8 5/8"	24	1074	50-50 poz-mix	500	2% Gel. & 3% cc
Production	7 7/8"	5½"	15.5	3634	50-50 poz-mix	750	500 sks. w/4% Gel & 5# Gil. w/.5% Halad 9
							250 sks. w/2% Gel & 18% salt w/.75% CFR-2

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			4	D.P. Jet	3367'-3404'
					3414'-3448'
			4	D.P. Jet	3458'-3492'

TUBING RECORD

Size	Setting depth	Packer set at
2 7/8"	3511	3359

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
1400 Gal. 15% HCL	3367'-3404'
1400 Gal. 15% HCL	3414'-3448'
1400 Gal. 15% HCL	3458'-3492'

INITIAL PRODUCTION

Date of first production

Gas Storage Well

Producing method (flowing, pumping, gas lift, etc.)

RATE OF PRODUCTION
PER 24 HOURS

Oil

bbls.

Gas

MCF

Water

Gas-oil ratio

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

Operator Northern Natural Gas Company
Well No. 35-11
Lease Name Alderman

35-11 T 19 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
Hutchinson Salt	768	1032	GRN	Surf.-3612
Chase Group	1201		BHCS-Int.	1074-3610
Council Grove	1543		SCB/SS	Surf.-1082
Tarkio Lime	2075		Density	1081-3618
Howard Lime	2307		IES	2850-3615
Heebner Shale	2693			
Lansing/K.C. Group	2869			
Basal Perm. SH. & Cong.	3199			
Simpson Group	3326			
Arbuckle Dolomite Group	3365			

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

Date Received
Signature Henry Wilson
Title Director of Reservoir Engineering & Operations
Date April 4, 1979