

State Geological Survey
WICHITA, BRANCH

KANSAS DRILLERS LOG

S. 2 T. 20 R. 8 ^W
Loc. 1887' WEL + 1195' NSL
County RICE

API No. 15 — 159 — 20,616
County Number

Operator
NORTHERN NATURAL GAS COMPANY

Address
Box 88 LYONS, KANSAS 67554

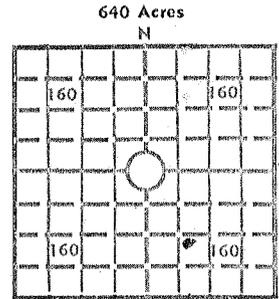
Well No. 2-07 Lease Name POLAND

Footage Location
1195 feet from (N) (S) line 1887 feet from (E) (W) line

Principal Contractor STERLING DRILLING CO. Geologist

Spud Date 6-15-76 Total Depth 3514 P.B.T.D. 3478

Date Completed 7-21-76 Oil Purchaser



Elev.: Gr. 1698
DF _____ KB 1211

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	12 1/4"	8 5/8"	23	1051	50-50 portmix	490	2% GEL 3% C.C.
PRODUCTION	7 7/8"	5 1/2"	15.5	3513	50-50 portmix	940	5% gilsonite 2% GEL 18% SALT 200S

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
			4	DP JET	3265 - 3300
			4	DP JET	3310 - 3350

TUBING RECORD

Size	Setting depth	Packer set at	Shots per ft.	Size & type	Depth interval
2 7/8"	3348	3252	4	DP JET	3310 - 3350

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
3000 GAL. HCL	3310 - 3350 + 3265-3300

INITIAL PRODUCTION

Date of first production <u>GAS STORAGE WELL</u>		Producing method (flowing, pumping, gas lift, etc.)			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	bbis.	MCF	bbis.	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

Operator **NORTHERN NATURAL GAS Co.** DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:

Well No. **2-07** Lease Name **POLAND** **GAS STORAGE WELL**

S **2** T **20** R **8** 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
			GR-N	0 - 3478
			DENSITY	1051 - 3519
			IES	2800 - 3518
			SONIC	1051 - 3519
			FF/SS	28 - 3510
HUTCHINSON SALT	730	999		
CHASE GROUP	1173			
COUNCIL GROVE GROUP	1511			
TARKIO LM.	2039			
HOWARD LM.	2269			
HEEBNER SH.	2654			
LANSING /K.C. GROUP	2827			
BASAL PENN. SH. & CONG.	3161			
SIMPSON GROUP	3212			
ARBUCKLE DOLOMITE GROUP	3261			

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

Date Received _____

Signature **Gary D. Wilson**

Title **Project Engineer**

Date **8-25-76**