

KANSAS DRILLERS LOG

IMPORTANT
Kans. Geo. Survey request
samples on this well.

API No. 15 — 175 — 20,864
County Number

Operator

Northern Pump Co.

Address

Box #937 Garden City, Kansas 67846

Well No.

#2

Lease Name

Satterfield

Footage Location

1320 feet from (N) line 1320

feet from (E) line

Principal Contractor

Sage Drilling Co.

Geologist

Joe Blair

Spud Date

4-29-80

Total Depth

5 515

P.B.T.D.

5 498

Date Completed

6-16-80

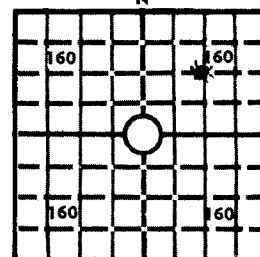
Oil Purchaser /or Gas Purchaser
Northern Natural Gas Co.

S. 13 T. 31 R. 32 E W

Loc. C NE

County Seward

640 Acres



Locate well correctly

Elev.: Gr. 2831

DF KB ? 3847

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
Conductor	17 $\frac{1}{2}$ "	13-3/8		566'	65/35 Pozmix Class H	455	2% CC
Surface	12 $\frac{1}{2}$ "	8-5/8"	23#	1721'	65/35 Pozmix Class H	755	2% CC
Production	7-7/8"	5-1/2"	15.5#	5 505	65/35 Pozmix	120	3% CC 1% D20

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
NA	NA	NA	2	Jet	5465 - 72
TUBING RECORD			2	Jet	5434 - 44
2-3/8"	Setting depth 5460	Packer set at 5452			

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
500 Gal 15% Acid - 1 gal. 10B - 2.5 gal CS-3	5465 - 72
6000 gal pad - 6,000 gal Apollo Jel 1/2# 20-40 sand-6000 gal Jel. 1# Sand - 6000 gal Jel 0# Sand - 6000 gal Jel. 2# Sand Flush 6000 gal.	5434 - 44

INITIAL PRODUCTION

Date of first production		Producing method (flowing, pumping, gas lift, etc.)			
		Flowing			
RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio	
	bbls.	350 MCF	bbls.	CFPB	
Disposition of gas (vented, used on lease or sold)			Producing interval(s)		
Sold			5465 to 72 - 5434 to 44		

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 Pump Company		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Gas
Well No. 2	Lease Name Satterfield	
S 13 T 31 R 32 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
KRIDER	2634		Compensated Density-Neutron	5514
WINFIELD	2682		Dual Induction	5514
COUNCIL GROVE	2970		Dual Induction	5514
TORONTO	4180		Compensated Acoustic Velocity	5514
Lansing	4272			
MORROW	5386		Micro-Seismogram Cased Hole	5494
CHESTER	5464			

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

Date Received	
	J. Leo Fife <small>Signature</small>
	Production Supt.
	<small>Title</small>
	8/3/80
	<small>Date</small>