

State Geological Survey
This form shall be filed in duplicate with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within ten days after the completion of the well, regardless of how the well was completed.

Attach separate letter of request if the information is to be held confidential. If confidential, only file one copy. Information on side one will be of public record and side two will then be held confidential.

Circle one: Oil, Gas, Dry, SWD, OWWO, Injection. Type and complete ALL sections.

Applications must be filed for dual completion, commingling, SWD and injection, T.A.

Attach wireline logs (i.e. electrical log, sonic log, gamma ray neutron log, etc.).
KCC # (316) 263-3238. (Rules 82-2-105 & 82-2-125)

OPERATOR Northern Natural Gas Company

API NO. 15-095-21206

ADDRESS P. O. Box 178

COUNTY Kingman

Cunningham, KS 67035

FIELD N/A

CONTACT PERSON P. B. Horsch

PROD. FORMATION Viola

PHONE (316) 257-5146

LEASE Voss

PURCHASER N/A

WELL NO. 17-22

ADDRESS N/A

WELL LOCATION See Below

DRILLING Sterling Drilling Company

95 Ft. from East Line and

CONTRACTOR

1300 Ft. from North Line of

ADDRESS P. O. Box 129

the -- SEC. 17 TWP. 27 RGE. 10 W

Sterling, KS 67579

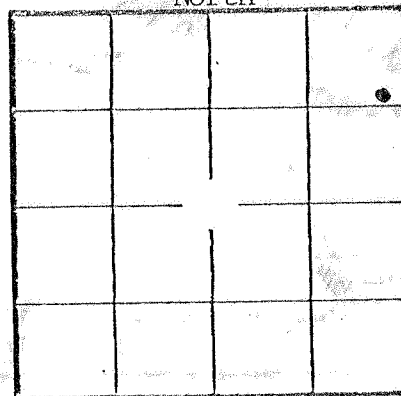
PLUGGING N/A

WELL PLAT

North

CONTRACTOR

ADDRESS N/A



KCC
KGS
(Office Use)

TOTAL DEPTH 4478.53' KB PBTD N/A

SPUD DATE 1/3/82 DATE COMPLETED 3/29/82

ELEV: GR 1779 DF N/A KB 1792

FILLED WITH (CABLE) (ROTARY) (AIR) TOOLS

Amount of surface pipe set and cemented 1513.43' KB. DV Tool Used? Yes

AFFIDAVIT

STATE OF Kansas, COUNTY OF Pice SS, I, John

P. B. Horsch OF LAWFUL AGE, BEING FIRST DULY SWORN UPON HIS OATH,

DEPOSES THAT HE IS Paul B. Horsch (FOR) (OF) Northern Natural Gas

OPERATOR OF THE Voss LEASE, AND IS DULY AUTHORIZED TO MAKE

THIS AFFIDAVIT FOR AND ON THE BEHALF OF SAID OPERATOR, THAT WELL NO. 17-22 ON

SAID LEASE HAS BEEN COMPLETED AS OF THE 29th DAY OF March, 1982, AND THAT

SIDE TWO

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.

17-27-10w

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
Hutchinson Salt	1111'	1575'	GRN	0-4470'
Chase Group	1721'	2081'	IES	0-4470'
Council Grove Group	2081'	2440'	BHCS/INT	1500'-4470'
Admire Group	2446'	2560'	SCB/SS	0-1550'
Tarkio Lime	2693'	2765'	CDL	1500'-4470'
Howard Lime	2938'	3085'		
Heebner Shale	3442'	3459'		
Lansing/Kansas City Group	3630'	3965'		
Pleaston Marmaton Group	3965'	4109'		
Osagian Chert	4109'	4160'		
Kinderhook	4161'	4309'		
Viola	4361'	4449'		
Viola cored from 4358' to 4410'				

ACID FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used				Depth interval treated	
1,000 gal. 15% Hydrochloric Acid				4362' to 4382'	
Date of first production N/A				Producing method (flowing, pumping, gas lift, etc.) None (Observation Well)	
Gravity N/A				Rate of production per 24 hours N/A	
Oil N/A				Gas N/A	
Water N/A				Gas-oil ratio N/A	
Disposition of gas (vented, used on lease or sold) N/A				Perforations N/A	

Report of all strings set — surface, intermediate, production, etc. CASING RECORD New or (Used)

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 Pipe	17½"	13-3/8"	48LB	KB Depth 221.43'	Portland-Common	200	3% Calcium chloride ¼ lb. Flocele/sack
Surface Casing	12½"	8-5/8"	24LB	KB Depth 1513.43'	50/50 Poz	750	3% Calcium chloride ¼ lb. Flocele/sack
Well Casing	7-7/8"	5-1/2"	15.5LB	KB Depth 4478.53'	Howco Lite 50/50 Poz	825	6% Gel, 10% Gilsonit 18% Salt, .9% Ha 19

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
N/A	N/A	N/A	4-shots	D.P. Charges	4362' to 4382'
TUBING RECORD					
Setting depth	Packer set at				