

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 Rine Drilling Company

API NO. 15-025-20.591-00-00

ADDRESS Suite 600, 300 W. Douglas  
Wichita, KS 67202

COUNTY Clark

FIELD Snake Creek, N.E. (ARAD)

\*\*CONTACT PERSON Donna K. McKee  
PHONE 1-316-267-1333

PROD. FORMATION Morrow

PURCHASER Northern Natural Gas

LEASE Harper

ADDRESS 2223 Dodge Street  
Omaha, Nebraska 68102

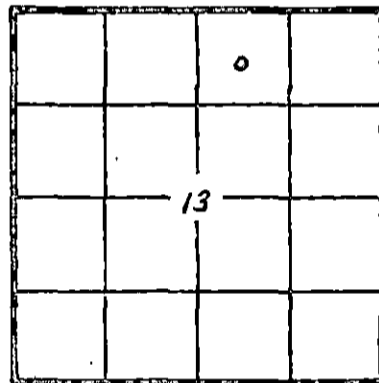
WELL NO. 1-13

WELL LOCATION C NW NE

DRILLING Rine Drilling Company  
CONTRACTOR  
ADDRESS Suite 600, 300 W. Douglas  
Wichita, KS 67202

660 Ft. from North Line and  
660 Ft. from West Line of  
the 13 SEC. 34S TWP 21W RGE.

WELL PLAT



KCC  
KGS  
(Office Use)

TOTAL DEPTH 5,600' PBTD 5,585'

SPUD DATE 4/30/82 DATE COMPLETED 6/21/82

ELEV: GR 1851' DF 1854' KB 1863'

DRILLED WITH (CABLE) (ROTARY) (RR) TOOLS

Amount of surface pipe set and cemented 13 3/8" @ 346' DV Tool Used? no

A F F I D A V I T

STATE OF KANSAS, COUNTY OF SEDGWICK SS, I,

E. J. RINE OF LAWFUL AGE, BEING FIRST DULY SWORN UPON HIS OATH,

DEPOSES THAT HE IS PRESIDENT (RR)(OF) RINE DRILLING COMPANY

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

THIS AFFIDAVIT FOR AND ON THE BEHALF OF SAID OPERATOR, THAT WELL NO. 1-13 ON

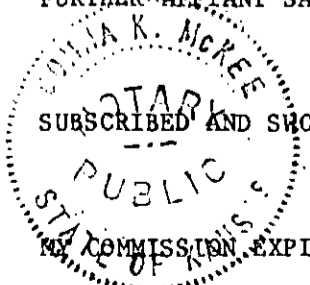
SAID LEASE HAS BEEN COMPLETED AS OF THE 21st DAY OF June, 19 82, AND THAT

ALL INFORMATION ENTERED HEREIN WITH RESPECT TO SAID WELL IS TRUE AND CORRECT.

FURTHER AFFIANT SAITH NOT. CONSERVATION DIVISION  
Wichita, Kansas

(S) [Signature] E. J. Rine, President  
July, 19 82

[Signature] NOTARY PUBLIC Donna K. McKee



\*\*The person who can be reached by phone regarding any questions concerning this information. Within 45 days of completion, a witnessed initial test by the Commission is required if the well produces more than 25 BOPD or is located in a Basic Order Pool.

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
DST #1 4354-87 30-60-60-90, weak blow Rec. 30' of mdy. salt wtr. IFP 85-65 FFP 68-68 ISIP 119 FSIP 85			Heebner Toronto Douglas Lansing Swope Hertha Base/K.C. Marmaton	4342 -2479 4367 -2504 4386 -2523 4537 -2674 4995 -3132 5046 -3183 5096 -3233 5124 -3261
DST #2 4930-5026 30-30-30-60, weak blow for 15 min. Rec. 15' of mud. IFP 79-79 FFP 80-80 ISIP 130 FSIP 179			Cherokee Sh. Morrow Sh. L. Morrow Sh. U. Morrow Sh. L. Morrow Sd. Mississippian	5285 -3422 5401 -3538 5421 -3558 5455 -3582 5476 -3613 5509 -3646
DST #3 5399-5497 30-60-30-60, strong blow G.T.S. immed. Ga. 6,160 MCF thruout 1st flow period. Ga. 6,160 MCF 1st 15 min. of 2nd flow. Ga. est 6,200 MCF in 20 and 6,250 MCF in 30 min. Rec. 3' of condensate; 90' of mdy wtr.* IFP 1299-1339 FFP 1299-1359 ISIP 2065 FSIP 2025				
*Lab analysis of this fluid condensate no salt water.				

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	30"	20"	24#	87'	Common	350	2%cc
Surface	17 1/4"	13 3/8"	48#	346'	Halco Lite Common	600 200	3%cc 2%gel FC 1/2# 5# CACEL
Intermediate	12 1/4"	8 5/8"	24#	850'	Halco Lite Common	500 100	3% CACL 1/2#FC 3% CACL 2%gel 1/2#
Production	7 7/8"	5 1/2"	15.5#	5,640'	Common	200	18% salt, 5# pills

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
N/A			2 SPF		5,482-88'

TUBING RECORD

Size	Setting depth	Packer set at
2 3/8	5,421'	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
500 gal. 10% acetic acid	5520-26'
D-T acidized with 1000 gal. 15% de-mud acid	5520-26'
D-T 500 gal. 10% acetic acid	5482-88'

Date of first production	Producing method (flowing, pumping, gas lift, etc.)	Gravity
7/12/82	flowing	BTU

RATE OF PRODUCTION PER 24 HOURS	Oil	Gas	Water	Gas-oil ratio
	none	5,291	0%	NA

Disposition of gas (vented, used on lease or sold)	Perforations
Waiting on pipeline connection	5,482-88' 2 SPF