

AFFIDAVIT AND COMPLETION FORM

ACO-1

This form must be filed in triplicate with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within five days after the completion of the well, regardless of how the well was completed. Circle one: Oil, gas dry, SWD, OWWO, injection. Please type. Complete ALL sections. Applications must be filed for dual completion, commingling, salt water disposal and injection. Attach wireline logs (i.e. electrical log, sonic log, gamma ray neutron log, etc.) KCC#-(316) 263-3238.

OPERATOR Rine Drilling Company API NO. 15-025-20,396-0000  
 ADDRESS Suite 600, 300 W. Douglas COUNTY Clark  
Wichita, Kansas 67202 FIELD Clark Creek Morrow  
 \*\*CONTACT PERSON Donna McKee LEASE Tuttle  
 PHONE 267-1333

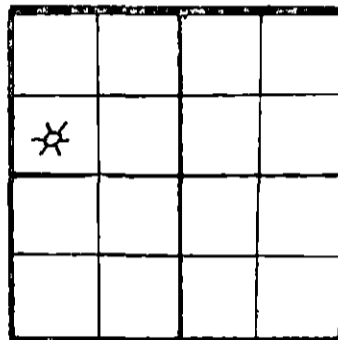
PURCHASER Northern Natural Gas Company WELL NO. 1-7  
 ADDRESS 2223 Dodge WELL LOCATION C SW NW  
Omaha, Nebraska 68102 660 Ft. from South Line and  
660 Ft. from West Line of

DRILLING CONTRACTOR Beredco  
 ADDRESS 970 Fourth Financial Center  
Wichita, Kansas 67202

PLUGGING CONTRACTOR N/A  
 ADDRESS N/A

TOTAL DEPTH 5,694' PBDT 5,652.98'  
 SPUD DATE 7/20/81 DATE COMPLETED 9/29/81  
 ELEV: GR 1845 DF 1855 KB 1857'

the NW/4 SEC. 7 TWP. 35S RGE. 21W



WELL PLAT  
 (Quarter) or (Full) Section - Please indicate.

KCC   
 KGS   
*PWC*

DRILLED WITH (CABLE) (ROTARY) (AIR) TOOLS  
 Report of all strings set - surface, intermediate, production, etc. (New) / (Used) casing.

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#	95'	common	300 sx	
Surface	17 1/4"	13 3/8"	42#	360'	LW common	400 sx	3% cc.; 1/4# FC
Intermediate	12 1/4"	8 5/8"	23#	860'	HLW common	600 sx	2% gel.; 1/4# FC
Production	7 7/8"	4 1/2"	10.5#	5,693.83	common	75 sx	3% cc.; 2% gel. .75% gel.; 5#/SK gil.
						200 sx	18% CaCl2

LINER RECORD			PERFORATION RECORD		
Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval
N/A			4 SPF	Jumbo Jets	5,569-75'

TUBING RECORD		
Size	Setting depth	Packer set at
2 1/16"	5575'	N/A

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD	
Amount and kind of material used	Depth interval treated
750 gal. 15% de-mud acid	5,569-75'
3250#'s 20-40 sand	5,569-75'

RECEIVED  
 STATE CORPORATION COMMISSION  
 11-13-1981  
 NOV 13 1981  
 CONSERVATION DIVISION  
 Wichita, Kansas

TEST DATE: 10/29/81 Gas Test PRODUCTION  
 Date of first production 10/29/81 Producing method (flowing, pumping, gas lift, etc.) Flowing A.P.I. Gravity No. Oil  
 RATE OF PRODUCTION PER 24 HOURS Oil N/A Gas 844 MCF 100 Water 0 Gas-oil ratio 100 CFPD  
 Disposition of gas (vented, used on lease or sold) Well shut-in...waiting on pipeline connection Producing interval(s) 5569-75'

\*\* The person who can be reached by phone regarding any questions concerning this information.  
 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.

Name of lowest fresh water producing stratum Sand & Gravel Depth 225'  
 Estimated height of cement behind pipe 4,690'

**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
D.S.T. #1 5536-80'			Heebner	4362 (~2505)
30-60-60-90 Strong blow			Toronto	4393 (~2536)
G.T.S. in 7 min of 2nd flow period.			Douglas	4433 (~2576)
Guaged: 40.9 MCF/D in 5 min.			Lansing	4552 (~2695)
40.2 MCF/D in 10 min.			Swope	5080 (~3223)
38.2 MCF/D in 15 min.			Hertha	5126 (~3269)
37.6 MCF/D in 20 min.			Base/K.C.	5182 (~3325)
36.7 MCF/D in 30 min.			Marmaton	5210 (~3353)
35.9 MCF/D in 35 min.			Cherokee	5371 (~3514)
36.7 MCF/D in 45 min.			Atoka	5525 (~3668)
37.6 MCF/D in 52 min.			Morrow Shale	5554 (~3697)
37.6 MCF/D in 57 min.			Morrow Sand	5569 (~3712)
Rec. 120' of gas cut mud; 180' of watery mud.			Chester Lm.	5594 (~3737)
IFP 60-100 FFP 70-150				
ISIP 1967 FSIP 2108				
D.S.T. #2 5650-96'				
(Log mers.) 30-30-60-60				
V. wk. blow for 5 min.-1st flo.				
V. wk. blow for 20 min.-2nd flo.				
Rec. 120' of mud.				
IFP 90-90 FFP 90-90				
ISIP 110 FSIP 110				
Gas detector off-blew main power fuse approx. 5620'.				

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

**A F F I D A V I T**

STATE OF KANSAS, COUNTY OF SEDGWICK SS,

E. J. RINE OF LAWFUL AGE, BEING FIRST DUELY SWORN UPON HIS OATH, DEPOSES AND SAYS:

THAT HE IS President OF Rine Drilling Company OPERATOR OF THE Title LEASE, AND IS DULY AUTHORIZED TO MAKE THIS AFFIDAVIT FOR AND ON BEHALF OF SAID OPERATOR, THAT WELL NO. 1-7 ON SAID LEASE HAS BEEN COMPLETED AS OF THE 29th DAY OF September 19 81, AND THAT ALL INFORMATION ENTERED HEREIN WITH RESPECT TO SAID WELL IS TRUE AND CORRECT.

FURTHER AFFIANT SAITH NOT.

(S) [Signature]  
 E. J. Rine, President  
 12th DAY OF November 19 81



[Signature]  
 NOTARY PUBLIC Donna K. McKee

COMMISSION EXPIRES: January 21, 1985