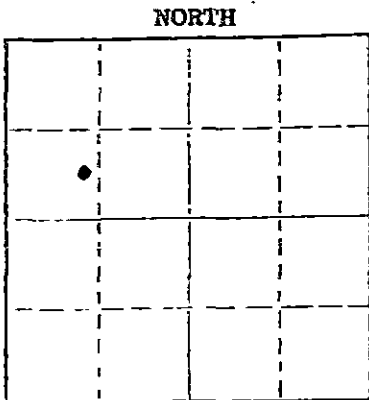


STATE OF KANSAS  
STATE CORPORATION COMMISSION  
CONSERVATION DIVISION  
P. O. BOX 17027  
WICHITA, KANSAS 67217

WELL PLUGGING RECORD

Meade County. Sec. 5 Twp. 35s Rge. 30 (E) W (W)  
Location as "NE/CNWSW" or footage from lines 1120' F.W.L. 1980' F.N.L.  
Lease Owner Northern Natural Gas Co.  
Lease Name Adams Well No. 1-5  
Office Address P.O. Box 25288, Tulsa, Okla 74135  
Character of Well (completed as Oil, Gas or Dry Hole) Dry Hole  
Date well completed 7-28 1978  
Application for plugging filed 7-28 1978  
Application for plugging approved \_\_\_\_\_ 19\_\_\_\_  
Plugging commenced 7-28 1978  
Plugging completed 7-28 1978  
Reason for abandonment of well or producing formation Dry Hole  
If a producing well is abandoned, date of last production \_\_\_\_\_ 19\_\_\_\_  
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes



Locate well correctly on above Section Plot

Name of Conservation Agent who supervised plugging of this well Bill Owens  
Producing formation \_\_\_\_\_ Depth to top \_\_\_\_\_ Bottom \_\_\_\_\_ Total Depth of Well 6231 Feet  
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS				CASING RECORD			
FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT	
				<u>8 5/8</u>	<u>1499</u>	<u>None</u>	

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from \_\_\_\_\_ feet to \_\_\_\_\_ feet for each plug set.

Drilling fluid circulated thru D.P. before plugging and during plugging.  
Plug #1, spotted 50sx @ (4340-4190'), Plug #2, spotted 50sx @ (1500-1350')  
Plug #3, spotted 15sx @ (40' to 3' BGL) on top of a sack bridge. Spotted 5sx in rat hole and 5sx in mouse hole. Welded plate on 8 5/8" csg with a 2" collar and plug.

(If additional description is necessary, use BACK of this sheet)  
Name of Plugging Contractor Pine Drly Co & Halliburton  
Address Wichita, Kansas and Liberal, Ks.

STATE OF \_\_\_\_\_, COUNTY OF \_\_\_\_\_, ss.

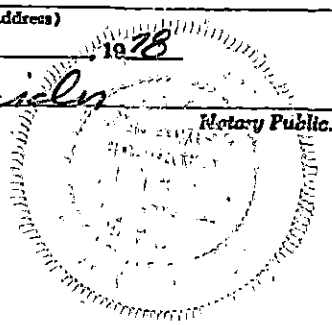
\_\_\_\_\_, (employee of owner) or (owner or operator) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) Robert W. Ward

Subscribed and sworn to before me this 3rd day of Aug. 1978

My commission expires 5-13-81

(Address) \_\_\_\_\_  
Tracy Finley  
Notary Public.



IMPORTANT

Kans. Geo. Survey request samples on this well.

15-119-20318-0000

KANSAS DRILLERS LOG

API No. 15 — 119 — 20,318
County Number

Operator Northern Natural Gas Company

Address P. O. Box 35288 Tulsa, Okla 74135

Well No. #1-5 Lease Name Adams

Footage Location 1980' feet from (N) line 1120' feet from (W) line

Principal Contractor Rine Drilling Geologist

Spud Date July 12, 1978 Total Depth 6231' P.B.T.D.

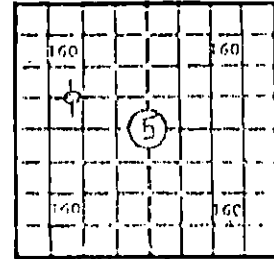
Date Completed July 28, 1978 Oil Purchaser

S. 5 T. 35 R. 30 W

Loc. 1120' FWL & 1980' FNL

County Meade

640 Acres N



Locate well correctly

Elev.: Gr. 2431'

DF 2439' KB 2442'

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Table with 8 columns: Purpose of string, Size hole drilled, Size casing set (in O.D.), Weight lbs/ft., Setting depth, Type cement, Sacks, Type and percent additives. Row 1: Surface, 12 1/4", 8-5/8", 24#, 1499', Class H Halliburton, 150, 3% CC, 2% CC, 1/4# flocele.

LINER RECORD

PERFORATION RECORD

Table with 6 columns: Top, ft., Bottom, ft., Sacks cement, Shots per ft., Size & type, Depth interval.

TUBING RECORD

Table with 4 columns: Size, Setting depth, Packer set at.

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Table with 2 columns: Amount and kind of material used, Depth interval treated.

RECEIVED STATE CORPORATION COMMISSION

SEP 25 1978

CONSERVATION DIVISION Wichita, Kansas

INITIAL PRODUCTION

Date of first production None Producing method (flowing, pumping, gas lift, etc.)

Table with 5 columns: RATE OF PRODUCTION PER 24 HOURS, Oil, Gas, Water, Gas-oil ratio. Sub-columns: bbls., MCF, bbls., 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.

Operator

Northern Natural Gas Co.

DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:

Dry Hole

Well No.  
1-5

Lease Name  
Adams

S 5 T 35 R 30 <sup>K</sup>/<sub>W</sub>

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
Surface	0	111		
Red bed	111	446		
Red bed & gypsum	446	1405		
Red bed & anhydrite	1402	1505		
Red bed, shale & anhydrite	1505	1760		
Shale & anhydrite	1760	2275		
Shale	2275	2451		
Dolomite	2451	2730		
Lime & shale	2730	3025		
Dolomite	3025	3217		
Lime & shale	3217	5865		
Lime	5865	5925		
Lime & shale	5925	6231		

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STATE CORPORATION COMMISSION  
SEP 25 1978  
CONSERVATION DIVISION  
Wichita, Kansas

Go Wireline Ran The Following Logs:  
Compensated Density Compensated Neutron Log  
Dual Induction-Laterolog  
Analysis Induction Density  
Complex Lithology

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

Date Received

*[Handwritten Signature]*  
Signature

Director of Production & Engineering

Title

August 7, 1978

Date