

State of Iowa

IOWA NATURAL RESOURCES COUNCIL

Drilling



Hermi

Permit No. 862

Lease Name Lloyd Chaloupka

Date Issued 5 April 1974

Well No.

Permission is hereby granted to Northern Natural Gas Company, 2223 Dodge St., Omaha, Nebraska 68102 to drill a well for geological information located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 36, T. 81 N., R. 31 W., in Guthrie County, Iowa

This permit is granted subject to the provisions of Chapter 84, Code of Iowa, 1962, as amended, and the rules, regulations, requirements, and orders of the Iowa Natural Resources Council and the State Geologist.

Dwight Van Dyke
STATE GEOLOGIST

FORM OG-7
9-18-83
CP. 34954

Iowa Natural Resources Council

WELL PLUGGING RECORD

Permit No. 862 Date April 9, 1974

Lessee or Operator Northern Natural Gas Co. Address Omaha, Nebraska

Lease Name Lloyd Chaloupka Well No. 74-75 County Guthrie

Location NW 1/4 NW 1/4 SW 1/4, Sec. 36 T. 81 N., R. 31 W. E.W.

Type of well Geological Information Total depth 580 Formation Miss.
(OIL, GAS, GEOLOGICAL INFORMATION, ETC.)

Date well was plugged April 9, 1974 Give results of all drill stem tests on reverse side.

Electric or other logs run? Gamma Ray and Sample

Was this well cored? No If so, give intervals _____

*NAME OF EACH FORMATION CONTAINING OIL, GAS, OR WATER	FLUID CONTENT EACH FORMATION	DEPTH INTERVAL EACH FORMATION	**SIZE, KIND, AND DEPTH OF PLUGS USED
<u>Drift</u>	<u>Water</u>	<u>0-122'</u>	<u>5 sx. cement 40' to 2'</u>
<u>Penn.</u>	<u>Water</u>	<u>122-471'</u>	<u>5 sx. cement @ 130'</u>
<u>Miss.</u>	<u>Water</u>	<u>471-580'</u>	<u>5 sx. cement @ 480'</u>

*Indicate which formation open to well bore at time of plugging.
**Indicate zones squeeze cemented, giving amount of cement.

CASING SIZE	WHERE SET	AMOUNT RECOVERED	PERFORATED	BRIDGE OR PLUGS	DEPTH PLACED	NUMBER SACKS CEMENT

Describe in detail how well was plugged Pumped through the drill pipe, 5 sx. cement at the top of the Miss., 5 sx. cement at the top of the Penn., 4 sx. cement at 40', and dumped 1 sack cement, filling hole to within 2' of the surface. Filled hole with cuttings. (Use reverse side, if needed)

Was circulation lost? No If so, give details _____

Was any equipment, etc., lost or left in the hole before or during plugging? No If so, give details _____

Was notice given before plugging to all available adjoining lease and land owners? _____

Name and address of person in charge of plugging Charley V. Shank, Wichita, Kansas

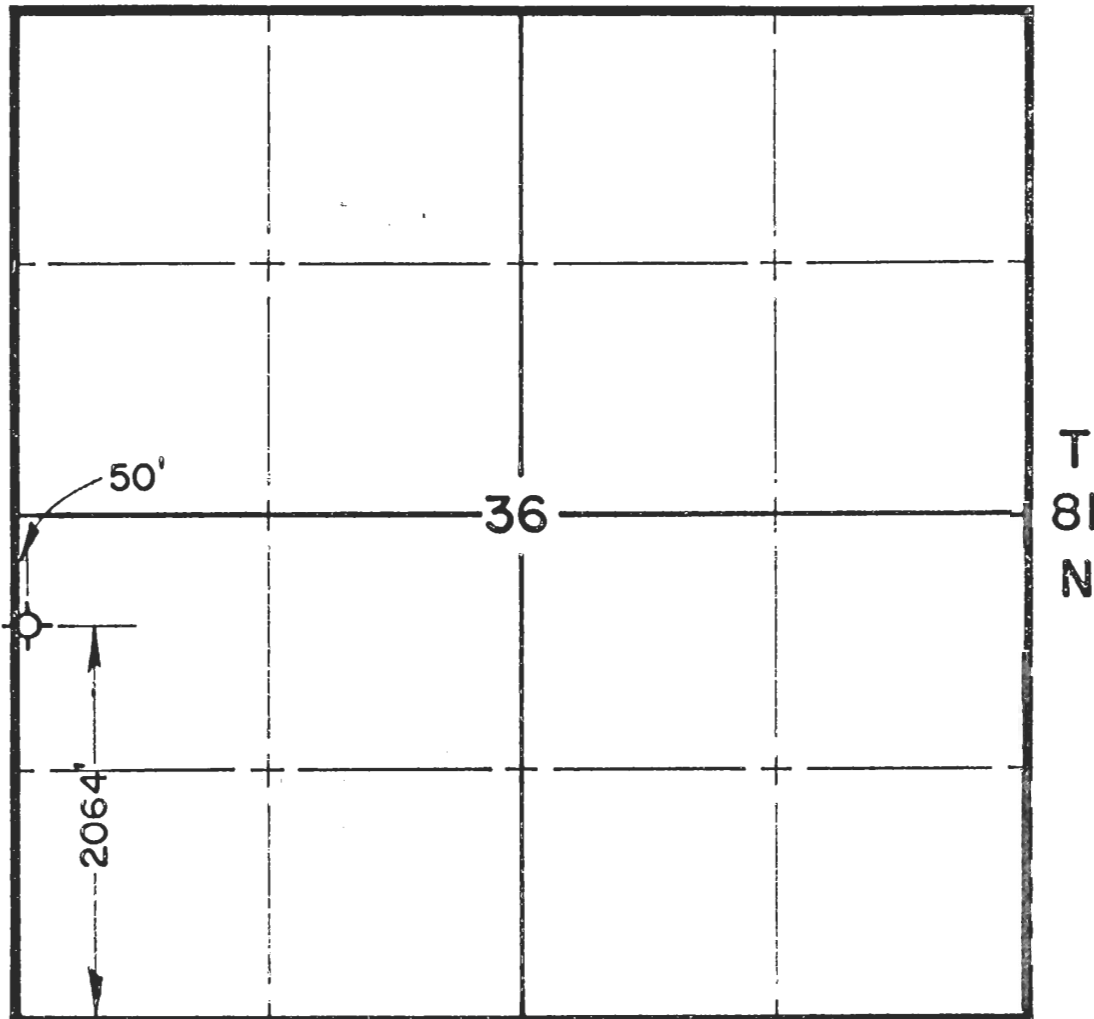
Representatives of owner, operator, company, or contractor who witnessed plugging L. J. Richardson

STATE OF Iowa)
(COUNTY OF Dallas))SS.
Hydrocarbon Survey, Inc.)
(LESSEE OR OPERATOR)
Charley V. Shank, Geologist)
(SIGNATURE) (TITLE)

Before me, the undersigned, a Notary Public in and for the County and State aforesaid, on this day personally appeared Charley V. Shank known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein and that the report is true and correct.

Subscribed and sworn to before me this 30 day of April, 1974.
My commission expires 9-30-76 Edna A. McMichael
NOTARY PUBLIC

R 31 W

LESSEE: NORTHERN NATURAL GAS CO. - OMAHA, NEB.LESSOR: Lloyd Chaloupka WELL NO. 74-75WELL LOCATION: App. NW NW SW SEC. 36 TWP. 81 N RNG. 31 WSTATE: Iowa COUNTY: GuthrieWELL ELEVATION: 1150 [±]_{GL} METHOD: Altimeter (Accurate to 1 ft.)SCALE: 1" = 1,000' DATE: 4-29-74PREPARED BY: K. R. Frost APPROVED BY: R. R. Miller