

BEFORE THE INDUSTRIAL COMMISSION
OF THE STATE OF NORTH DAKOTA

IN THE MATTER OF A HEARING CALLED ON A MOTION
OF THE COMMISSION TO CONSIDER THE APPLICATION
OF CARDINAL PETROLEUM COMPANY FOR AN ORDER
PERMITTING A WELL TO BE DRILLED IN THE SE SW
OF SECTION 11, TOWNSHIP 140 NORTH, RANGE 96
WEST, STARK COUNTY, NORTH DAKOTA, AS AN
EXCEPTION TO THE SPACING PATTERN IN THE
DICKINSON FIELD.

CASE NO. 1102
ORDER NO. 1179

ORDER OF THE COMMISSION

BY THE COMMISSION:

Pursuant to legal notice this cause came on for hearing at 9:30 a.m. on the 14th day of November, 1972, at Bismarck, North Dakota, before the Industrial Commission of North Dakota, hereinafter referred to as the "Commission."

NOW, on this 30th day of Nov, 1972, the Commission, a quorum being present, having considered the testimony adduced and the exhibits received at said hearing, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That Cardinal Petroleum Company is the owner of an oil and gas leasehold estate in the south half of Section 11, Township 140 North, Range 96 West, Stark County, North Dakota, which lands are adjacent to the boundary of the Dickinson-Heath Pool, and comprise a spacing unit for that pool.

(3) That a well drilled on the above described spacing unit at the proper location encountered minor amounts of oil in non-commercial quantities and was plugged and abandoned.

(4) That evidence presented to the Commission indicates that there is recoverable crude oil in the Heath Reservoir underlying the spacing unit described above.

(5) That the prevention of waste and protection of correlative rights requires that another well be drilled on said spacing unit.

IT IS THEREFORE ORDERED:

(1) That Cardinal Petroleum Company be and the same is hereby granted permission to drill a well in the approximate center of the SE SW of Section 11, Township 140 North, Range 96 West, Stark County, North Dakota.

(2) That Cardinal Petroleum Company make application to the office of the State Geologist for permit to drill said well.

DONE, at Bismarck, North Dakota, this 31st day of Nov., 1972.

N. D. INDUSTRIAL COMMISSION



William L. Guy, Governor



Helgi Johanneson, Attorney General



Arne Dahl, Commissioner of Agriculture

R. 97 W.

R. 96 W. Proposed Location

T. 140 N.

T. 139 N.

CARDINAL PETROLEUM COMPANY
Billings, Montana

Case No. 1102
Exhibit No. 1
Nov. 14, 1972

EXHIBIT "B"

INDUSTRIAL COMMISSION
STATE OF NORTH DAKOTA

NOV 14 1972

Introduced by *CARDINAL*

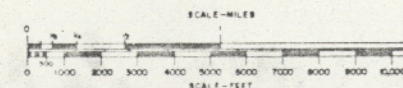
Identified by *CA*

DICKINSON TOWNSITE

LEGEND

- Location
- Oil Well
- ✱ Shut-in Well
- ✱ Abandoned

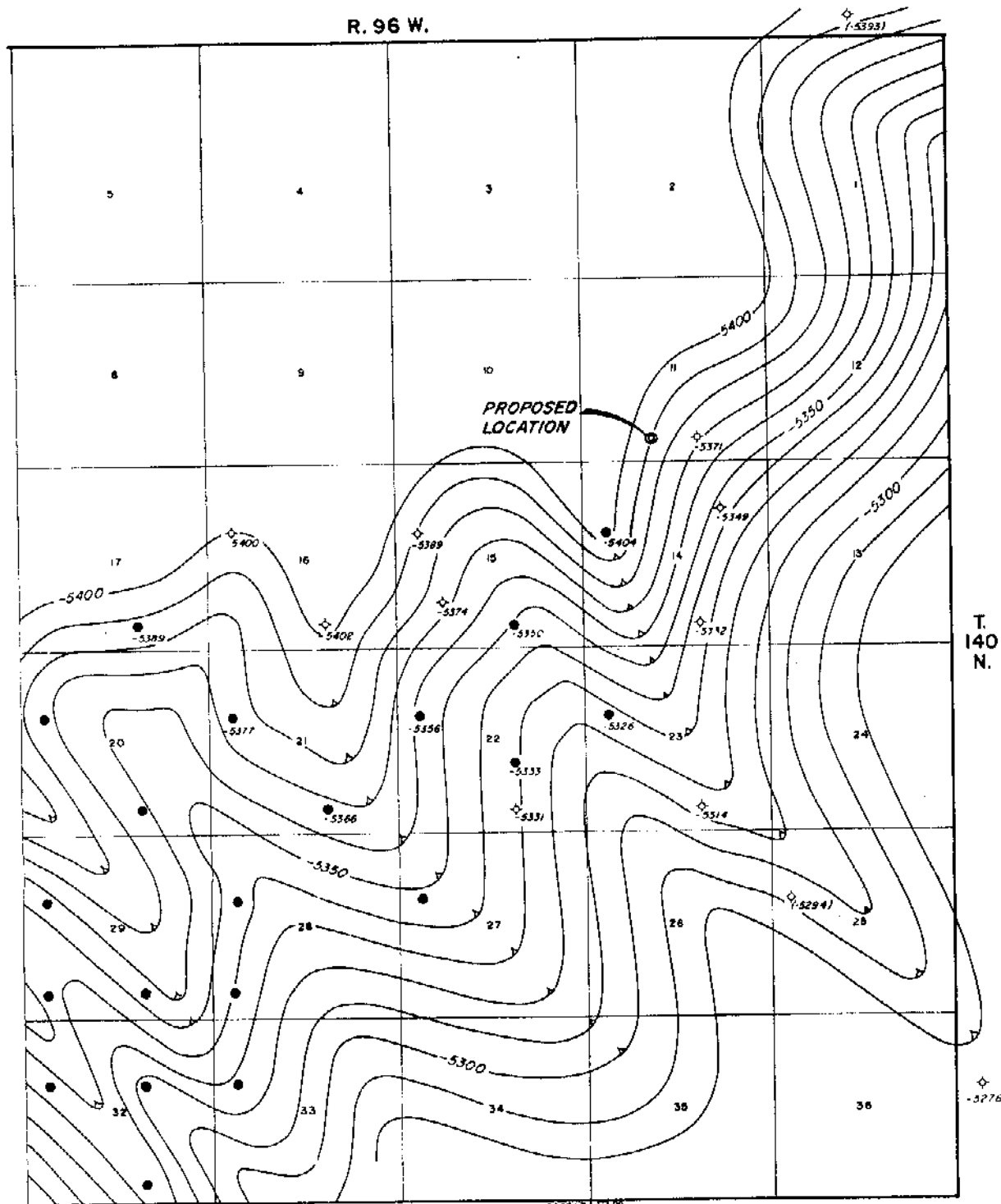
- Dickinson Field 160 Acre Spacing
- Dickinson Field 320 Acre Spacing
- West Dickinson Field 320 Acre Spacing
- Unit Outline - Proposed
- 33 Tract Number



CONTINENTAL OIL COMPANY
ENGINEERING SUB-COMMITTEE
Casper, Wyoming

TRACT AND OWNERSHIP MAP

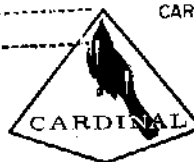
County: Stark State: North Dakota
Engineering Committee: B.S. Date: 10-11-71
Scale: 1" = 2640' Well Status Posted to: 10-11-71



A PART OF
 DICKINSON FIELD
 STARK COUNTY, NORTH DAKOTA
STRUCTURE CONTOUR MAP
 TOP OF THE
 HEATH "B" SAND POROSITY

CONTOUR INTERVAL = 10'

INDUSTRIAL COMMISSION
 STATE OF NORTH DAKOTA
 NOV 14 1972
 Submitted by _____
 Checked by _____
 Is copied by _____

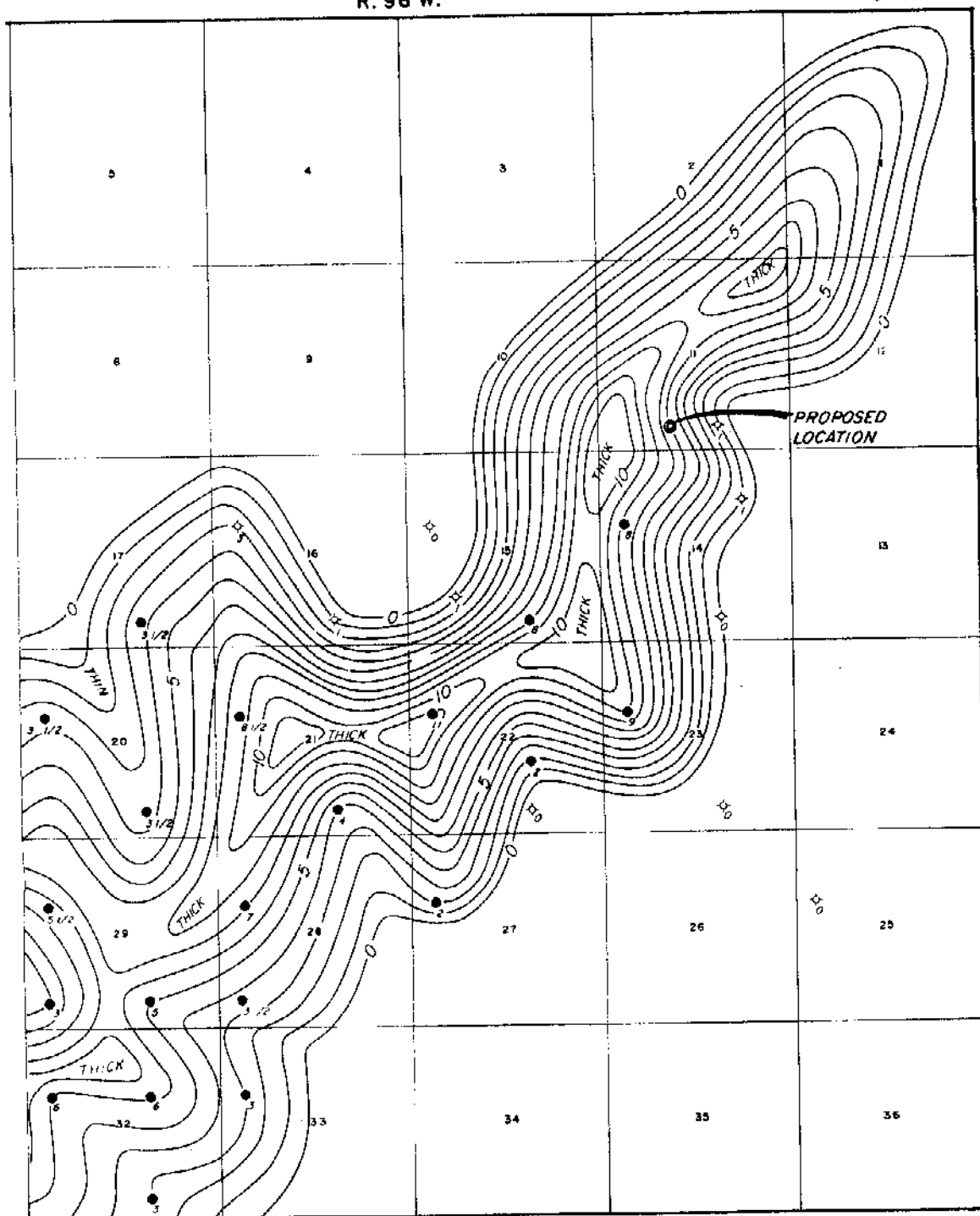


CARDINAL PETROLEUM COMPANY
 BILLINGS, MONTANA
 Prepared by
 RAY L. HARRISON
 PETROLEUM GEOLOGIST

CASE NO.: 1102
 EXHIBIT NO.: 2
 NOV. 14, 1972

R. 96 W.

T. 140 N.



T. 140 N.

NOV 14 1972

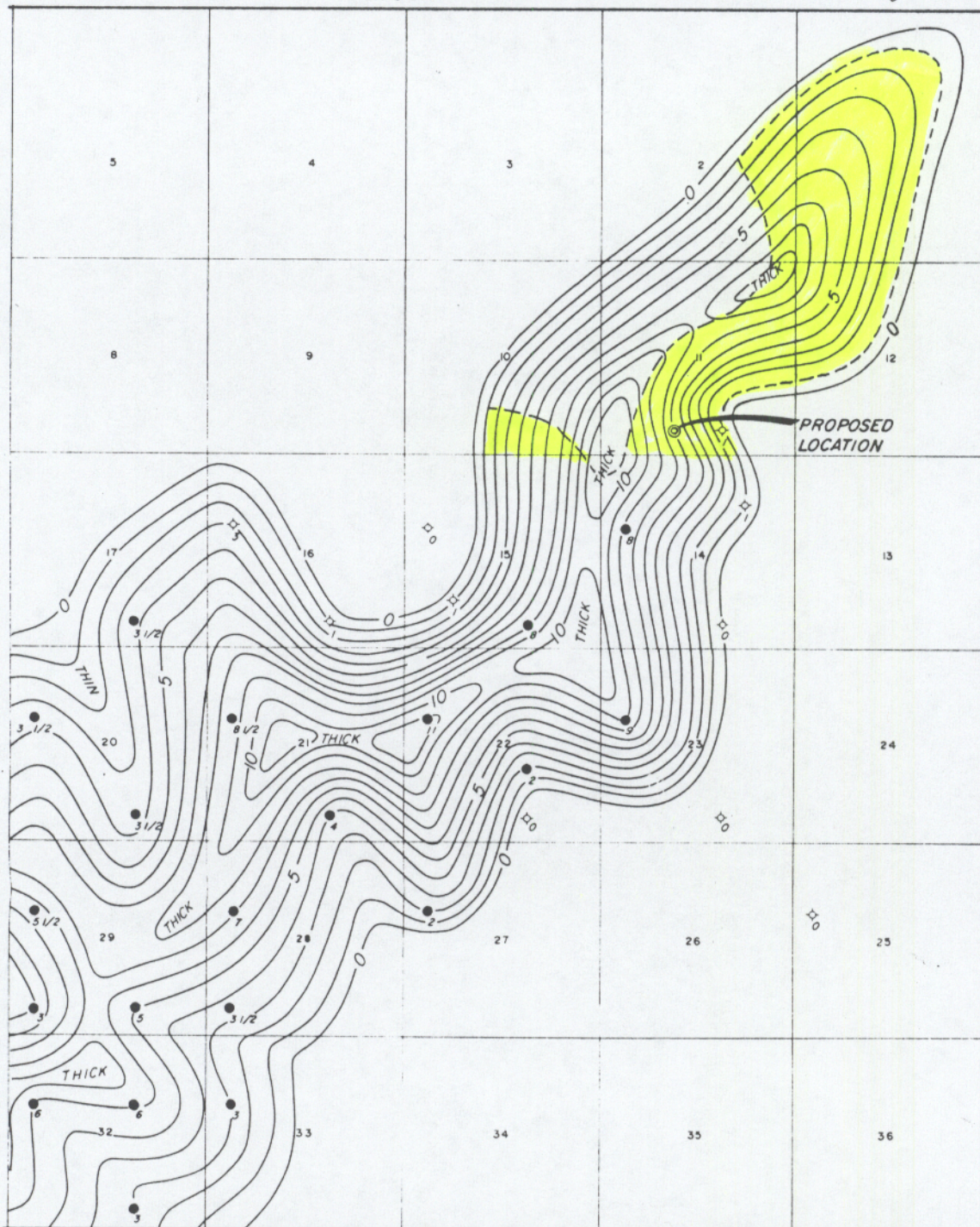
A PART OF
DICKINSON FIELD
STARK COUNTY, NORTH DAKOTA
ISOPACH MAP
HEATH "B" SAND POROSITY THICKNESS
CONTOUR INTERVAL = 1'



CARDINAL PETROLEUM COMPANY
BILLINGS, MONTANA
Prepared by
RAY L. HARRISON
PETROLEUM GEOLOGIST

CASE NO: 1102
EXHIBIT NO: 3
NOV 14, 1972

◆



T.
140
N.

NOV 14 1972 Case No. 422

NOV 14 1972 Case No. 1122

Interdicted by CAPOVAK.....

Enlighten

Deposited by _____

POSSIBLE UNDEVELOPED RESERVOIR
OUTSIDE OF PROPOSED UNIT AREA

CONTOUR INTERVAL = 1

Prepared by
RAY L. HARRISON
PETROLEUM GEOLOGIST

CASE NO: 1102
EXHIBIT NO: 4
NOV. 14, 1972



P. O. BOX 1077
BILLINGS, MONTANA
59103



AREA CODE 406
PHONE 248-7324

*Received
10/16/72 per*

October 13, 1972

Industrial Commission
State of North Dakota
State Capitol Building
Bismarck, North Dakota 58501

Re: Request for Off-Pattern Location
Dickinson Field
Stark County, North Dakota

Gentlemen:

On June 30, 1972, Cardinal Petroleum Company plugged and abandoned its No. 15-11 Pavlicek well located in the center SW/4 SE/4 Section 11, 140N 96W, Stark County, North Dakota. This well was drilled as the on-pattern location for the 320 acre drilling unit consisting of the south-half of Section 11. Non-commercial amounts of oil were recovered on drill stem test of the Heath sand in this well.

It is felt that the recovery of such oil from the No. 15-11 Pavlicek dry hole indicates that commercial amounts of oil could possibly underly the south-half of Section 11. It is therefore requested that Cardinal Petroleum Company be granted permission to drill an off-pattern well on the drilling unit consisting of the south-half of Section 11, said off-pattern location to be in the center SE/4 SW/4 of Section 11, 140N 96W.

It is further requested that this matter be considered at the next monthly hearing of the Industrial Commission, at which time Cardinal will present further evidence to substantiate the feasibility of this request.

Yours very truly,

CARDINAL PETROLEUM COMPANY

By *Ray L. Harrison*
Ray L. Harrison
Vice President

RLH/se

Copy forwarded to North Dakota Geological Survey
University Station
Grand Forks, North Dakota

CERTIFICATE OF PUBLICATION

THE DICKINSON PRESS

Dickinson, North Dakota

STATE OF NORTH DAKOTA, }

County of Stark.

Legal Notice

NOTICE OF PUBLICATION N. D. INDUSTRIAL COMMISSION BISMARCK, NORTH DAKOTA

The State of North Dakota by its Industrial Commission hereby gives notice pursuant to law and the rules and regulations of said Commission promulgated thereunder of the following public hearing to be held at 9:30 a.m. on 14 November, 1972 in the Hearing Room, State Capitol Building, Bismarck, North Dakota.

STATE OF NORTH DAKOTA TO:

All named parties and persons having any right, title, interest or claim in the following cases and notice to the public. CASE NO. 1102: On a motion of the Commission to consider the application of Cardinal Petroleum Company for an order permitting a well to be drilled in the SE SW of Section 11, T. 140N., R. 96W., Stark County, North Dakota, as an exception to the spacing pattern in the Dickinson Field. CASE NO. 1095: (Rehearing) On a motion of the Commission to consider the application of the Continental Oil Company for an order creating the Dickinson Heath Unit, providing for the unitized management, operation and further development of the Dickinson Heath Sand source of supply of oil and gas, located in Townships 139 and 140 North, Range 97 West, and Township 140 North, Range 96 West, Stark County, North Dakota, defining the unit area and approval of the plan of unitization to such unit and unit area.

N. D. INDUSTRIAL
COMMISSION
William L. Guy, Governor
(Published November 1, 1972)

Ed Hauck

, of said state and county, being first duly

sworn, on oath says: That he is the Publisher of the Dickinson Press, Inc., publisher of THE DICKINSON PRESS, a daily newspaper of general circulation, printed and published at Dickinson, in said county and state, and has been such during the time hereinafter mentioned; and that advertisement headed Notice Of Publication N.D. Industrial Commission Bismarck, North Dakota

a printed copy of which is hereunto annexed, was printed and published in THE DICKINSON PRESS, and in the regular and entire issue of each and every number 1 consecutive weeks, commencing on the 1 day of November A. D. 19 72, and ending on the 1 day of November A. D. 19 72, both inclusive.

Sworn to and subscribed to before me this

day of

A. D. 19 72

Date

HAROLD NELSON
State Printer

RICHARD KNAUP

Notary Public, STARK COUNTY, N. DAK.
My Commission Expires SEPT. 26, 1974

AFFIDAVIT OF PUBLICATION

STATE OF NORTH DAKOTA, }
County of Burleigh. } ss.

Nancy Bethke, being duly sworn,
says that she is a clerk of the Bismarck Tribune Company and that
the annexed printed copy of

Notice of Publication

ND Industrial Commission

was taken from The Bismarck Tribune, a daily newspaper, which
during the whole time of publication of said notice hereinafter
stated, has been, and was printed and published in the City of
Bismarck, County of Burleigh, and State of North Dakota. That
the said notice was published in said newspaper on the following

dates: 11/2

in each and every issue of the full number thereof, commencing
on the 2 day of November 19 72, and
ending on the 2 day of November 19 72,
upon which days or times of publication aforesaid the said news
paper was regularly published. *ok*

Nancy Bethke
Subscribed and sworn to before this 9 day of
November, A. D. 19 72.

Date 11/13/72

HAROLD NELSON
State Printer

Paul J. Patera
Notary Public, Burleigh County, N. D.

My commission expires March 24, 1976.

Cost of Publication, \$ 13.12

nlb
N1-25

PAUL J. PATERA
Notary Public, BURLEIGH CO., N. Dak.
My Commission Expires Mar. 24, 1976.

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N.D. INDUSTRIAL
COMMISSION
William L. Guy,
Governor
11-2-9471