

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 GOFOR OIL, INC., FOR PERMISSION TO DISPOSE
OF SALT WATER PRODUCED WITH CRUDE OIL IN THE
MOHALL FIELD, BOTTINEAU COUNTY, NORTH DAKOTA,
BY INJECTING SAID WATER INTO THE DAKOTA SAND
FORMATION THROUGH ITS GEORGE WITTEMAN NO. 1
WELL LOCATED IN THE NE/4 NE/4 OF SECTION 7,
TOWNSHIP 161 NORTH, RANGE 83 WEST.

CASE NO. 910
ORDER NO. 970

ORDER OF THE COMMISSION

BY THE COMMISSION:

A hearing having been held in Grand Forks, North Dakota, on July 9, 1968, at 9:30 a.m., before Clarence B. Folsom, Jr., a Special Examiner appointed for the purpose.

NOW, on this 29 day of July, 1968, the Industrial Commission of North Dakota, hereinafter referred to as 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 no objection has been received from other operators in the area.
- (3) That the amount of salt water produced from the Madison Formation in the Mohall Field, Bottineau and Renville Counties, North Dakota, as a result of crude oil producing operations, exceeds the amount that can be readily disposed of by evaporation from surface pits.
- (4) That the Dakota-Lakota Group, within the limits of the Mohall Field, contains natural water of sufficient salinity to be unsuitable for domestic or irrigation use.
- (5) That the Dakota-Lakota Group in the Mohall Field is similar, in character, to the Dakota Sandstone in the other fields where successful salt water disposal projects already are in operation.
- (6) That unless some means of subsurface disposal is provided, surface damage will result and potable surface waters will be polluted.

IT IS THEREFORE ORDERED:

- (1) That Gofor Oil, Inc., be, and the same is hereby permitted to dispose of salt water into the Dakota Formation through the George Witteman No. 1 well located in the NE/4 NE/4 of Section 7, Township 161 North, Range 83 West, Mohall Field, Renville County, North Dakota.
- (2) That the permission granted in (1) above is conditioned upon the following considerations:

(a) That the porous intervals above, and below, the proposed injection interval be properly protected by cement, squeezed through perforations in the casing, so as to prevent the migration of the injected water through the annulus behind the casing.

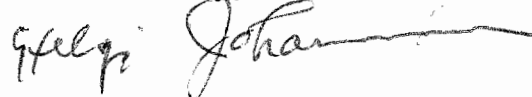
(b) That the amounts of water injected, and the sources thereof, be reported to the State Geologist at the same time that crude oil production reports are submitted.

(3) That this order shall remain in full force and effect until further order of the Commission.

DONE, at Bismarck, North Dakota, this 29 day of July, 1968.

THE NORTH DAKOTA INDUSTRIAL COMMISSION

William L. Guy, Governor



Helgi Johanneson, Attorney General



Arne Dahl, Commissioner of Agriculture

INDUSTRIAL COMMISSION

STATE OF NORTH DAKOTA

CASE NO. 910

ON A MOTION OF THE COMMISSION TO)
CONSIDER THE APPLICATION OF GOFOR OIL,)
INC. FOR PERMISSION TO DISPOSE OF SALT)
WATER PRODUCED WITH CRUDE OIL IN THE)
MOHALL FIELD, BOTTINEAU COUNTY, NORTH)
DAKOTA, BY INJECTING SAID WATER INTO THE)
DAKOTA SAND FORMATION THROUGH ITS)
GEORGE WITTEMAN #1 WELL LOCATED IN THE)
NE NE OF SECTION 7, TOWNSHIP 161 N.,)
RANGE 83 W.)

TRANSCRIPT

Leonard Hall
University of North Dakota
Grand Forks, North Dakota
July 9, 1968
9:30 o'clock a.m.

Met pursuant to notice.

BEFORE THE NORTH DAKOTA STATE INDUSTRIAL COMMISSION.

CLARENCE B. FOLSOM, JR., PRESIDING.

APPEARANCES:

VERN LUND, appearing for Gofor Oil, Inc.

1 MR. FOLSOM: The hearing will come to order. This is Case No.
2 910 on a motion of the Commission to consider the application of
3 Gofor Oil, Inc. for permission to dispose of salt water produced
4 with crude oil in the Mohall Field, Bottineau County, North Da-
5 kota, by injecting said water into the Dakota sand formation through
6 its George Witteman #1 well located in the NE NE of section 7,
7 Township 161 N., Range 83 W. This case has been referred to C.
8 B. Folsom or Wesley Norton as Trial Examiners. Let the record
9 show that there have been no written objections filed to these two
10 examiners; and so therefore, the hearing may proceed. Let the re-
11 cord also indicate that this case was advertised as required by law.
12 Said advertisement having appeared in the Bismarck Tribune and the
13 Bottineau County Courant on June 26, 1968. Ten days having
14 elapsed since the appearance of these advertisements, the Com-
15 mission has jurisdiction of this case; and we will proceed. Who
16 wishes to appear for the applicant?
17

18 MR. LUND: I do, Vern Lund, President of Gofor Oil.

19 MR. FOLSOM: Will you rise and take the oath? Do you solemnly
20 swear that the testimony you are about to give in the matter now in
21 hearing shall be the truth, the whole truth, and nothing but the
22 truth, so help you God?
23

24 MR. LUND: I do.

25 MR. FOLSOM: State your name, address, and who you represent.

26 MR. LUND: Vern Lund, Minot, North Dakota; I represent Gofor Oil.
27

1 MR. FOLSOM: Have you ever appeared before the Industrial Com-
2 mission or its Examiners as an expert witness?

3 MR. LUND: Yes, I have.

4 MR. FOLSOM: You may proceed.

5 MR. LUND: We merely ask to make a water disposal well of the
6 Barron-Kidd-George Witteman #1 in the NE NE of section 7-161-83
7 in Bottineau County. We propose to run 4 1/2 inch casing to a depth
8 of 3100, bottom being the lower sand of the Dakota Formation.
9

10 MR. FOLSOM: What is the present condition of this well?

11 MR. LUND: It was plugged and abandoned in 1964 in December.

12 MR. FOLSOM: Is there any production from the Dakota sand in the
13 area?
14

15 MR. LUND: No.

16 MR. FOLSOM: What is the nature of the fluids in the Dakota sands?

17 MR. LUND: Brackish water.

18 MR. FOLSOM: What is the nature of the fluid you intend to dispose
19 of?

20 MR. LUND: Salt water with not total saturation but probably in the
21 nature of 250 parts per million salt.
22

23 MR. FOLSOM: Has this Dakota Formation been used as a salt dis-
24 posal reservoir in this area previously?

25 MR. LUND: Yes, I believe it has with an Amerada disposal well.

26 MR. FOLSOM: How much salt water do you intend to dispose of in
27 this well?

1 MR. LUND: Probably, for awhile, about 300 barrels a day.

2 MR. FOLSOM: Where will this water come from?

3 MR. LUND: It will come from our George Witteman #1 adjacent to
4 this hole as well as from the Shurson #1, Gilseth #1 and #2, prob-
5 ably.

6 MR. FOLSOM: Will this disposal well be available to other opera-
7 tors in this area for the disposal of salt water?
8

9 MR. LUND: Yes, I presume it could be. The facilities would prob-
10 ably have to be set up if other than our own.

11 MR. FOLSOM: Do you know of anything else that would be per-
12 tinent to this hearing?

13 MR. LUND: No, I do not.

14 MR. FOLSOM: What other operators are in the area adjacent to this?
15

16 MR. LUND: Quintana, Amerada, and Monsanto.

17 MR. FOLSOM: Have you had any correspondence with these opera-
18 tors relative to the use of this well as a salt water disposal.

19 MR. LUND: No, I have not. It is my understanding that their dis-
20 posal well is to the north end of the field, and this would be to the
21 extreme south end of the Mohall Field.

22 MR. FOLSOM: Does anyone else have anything to offer in con-
23 nection with this application? Let the record show that there were
24 no parties appearing in opposition to the application and that the
25 Examiners are not in receipt of any communications regarding the
26 application. Do you have any exhibits to enter?
27

1 MR. LUND: No, I do not.

2 MR. FOLSOM: There being nothing further to come before the Ex-
3 aminer at this time the hearing will adjourn. A transcript will be
4 prepared and forwarded to the Industrial Commission for their ac-
5 tion.

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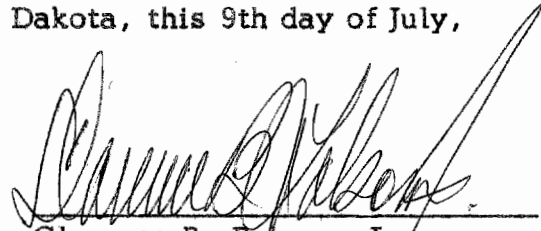
27

1 STATE OF NORTH DAKOTA)
2)
3 COUNTY OF GRAND FORKS)

ss

4 I CERTIFY that the record of this hearing was made under my
5 direction, and has been continuously in my custody; that no alter-
6 ations or additions have been made to the record; and that this
7 transcript thereof is true and correct, to the best of my knowledge
8 and belief.

9 DONE at Grand Forks, North Dakota, this 9th day of July,
10 1968.

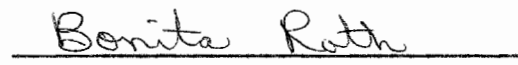
11 
12 Clarence B. Folsom, Jr.
13 Chief Petroleum Engineer

14 STATE OF NORTH DAKOTA)
15)
16 COUNTY OF GRAND FORKS)

ss

17 I HEREBY CERTIFY that the foregoing is a true and correct
18 transcript of the original tape recording of said hearing, and a full
19 and complete statement of the testimony and other proceedings
20 which it purports to contain.

21 DONE at Grand Forks, North Dakota, this 9th day of July,
22 1968.

23 
24 Bonita Roth, Secretary
25 North Dakota Geological Survey
26
27



VERN O. LUND, President
RESIDENCE - PHONE 833-9207

EARL SCHWARTZ, Vice President
KENMARE, N. D., PHONE 848-5415

201 Sullivan Building — P. O. Box 296 — Telephone 838-1114

June 12, 1968

Minot, North Dakota 58701

Ref: Examiner Hearing for
Water Disposal Well
George Witteman #1 (Barron Kidd)
NENE/4 Sec. 7-161N-83W
Bottineau County, North Dakota

9/10

North Dakota Geological Survey
University of North Dakota
Grand Forks, North Dakota

Attention: Mr. B. -Folsom

Dear Sir

We herewith request an examiner hearing to make a Salt Water Disposal Well of the above referenced dry hole in accord with the following plan:

1. Drill out cement plug in Surface Casing and the top of the Dakota Sand to the top of the second main Dakota sand body.
2. Run 4 1/2" 9.5lb. casing open ended to the top of the second sand. Cement with 150 sacks 1 to 1 posmix W/ 2% Gel.
3. Drill out and perforate to dispose of Salt Water.

In that time is of importance we would appreciate as early a date as possible for a hearing.

Very truly yours

GOFOR OIL INC.

By Vern O. Lund Pres.
Vern O. Lund

Copy to: Attorney General Office, Attention: J. Vanderwahl
Bismarck, North Dakota.

VOL/jw

AFFIDAVIT OF PUBLICATION

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

Mary Kuhn, being duly sworn,
says that she is a clerk of The Bismarck Tribune and that the
annexed printed copy of

Notice of Publication - N. D. Industrial
Commission, Bismarck, North Dakota.
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: 6/26/68

in each and every issue of the full number thereof, commencing
on the 26 day of June 1968, and
ending on the 26 day of June 1968,
upon which days or times of publication aforesaid the said news-
paper was regularly published.

Mary Kuhn
Subscribed and sworn to before me this 27 day of
June, A. D. 19 68.

[Signature]
Notary Public, Burleigh County, N. D.
My commission expires March 7, 1972

Cost of Publication, \$ 7.84

MK JL-45

JOHN EHRLMANTRAUT,
Notary Public, BURLEIGH CO., N. DAK.
My Commission Expires MARCH 7, 1972 ✓

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 there-
under of the following public
hearing to be held at 9:30 a.m.
on 9 July 1968 in the Geology
Building, University of North
Dakota, Grand Forks, North Da-
kota.

STATE OF NORTH DAKOTA TO:
All named parties and persons
having any right, title, interest,
or claim in the following case
and notice to the public, CASE
NO. 919: On motion of the
Commission to consider the ap-
plication of Geo. O. H. for
permission to dispose of salt
water produced with crude oil
in the Mohall Field, Bottineau
County, North Dakota by in-
jecting said water into the Da-
kota Sand formation through its
George Witteman No. 1 well lo-
cated in the NE 1/4 of Section
7, T. 161 N., R. 34 W. and for
the purpose of this hearing
Clarence B. Bolson, Jr. and
Wesley D. Norton is directed to con-
duct a hearing at the Leonard
Hall on the campus of the Uni-
versity of North Dakota, at
Grand Forks, at 9:30 a.m. on
9 July 1968. Immediately after
the conclusion of the hearing,
the examiner shall forward a
transcript of said hearing to-
gether with exhibits received to
the Commission for its action.

N. D. INDUSTRIAL
COMMISSION
William L. Guy,
Governor.

49
784
Date 6-28-68

[Signature]
HAROLD NELSON
State Printer

AFFIDAVIT OF PUBLICATION

STATE OF NORTH DAKOTA,
County of Bottineau

ss.

Betty Jean Erickson

of said State and County, being duly sworn, on her oath, says: That she is the bookkeeper of The Bottineau Courant, a legal newspaper of general circulation, printed and published in the City of Bottineau, North Dakota, and has been during the time hereinafter mentioned; that the advertisement of

Notice of Publication - N. D. Industrial Com.

a printed copy of which is hereto annexed, was printed and published in each issue of said newspaper for a period of 1 consecutive weeks, to-wit:

June 26 19 68; 19

\$ 6.40 19; 19

Date 7-2-68 19; 19

19; 19

[Signature]

Betty Erickson

HAROLD NELSON
State Printer
Subscribed and sworn to before me this _____ day of

_____, A. D. 19

[Signature]

J. E. JOHNSON
Notary Public, Bottineau County, N. D.
My Commission Expires May 1, 1970

Publication Fee \$ _____ My commission expires _____

Received payment _____, 19

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 9 July 1968, in the Geology Building, University of North Dakota, Grand Forks, North Dakota.
STATE OF NORTH DAKOTA TO:

All named parties and persons having any right, title, interest or claim in the following case and notice to the

public CASE NO. 910: On a motion of the Commission to consider the application of Gofor Oil, Inc., for permission to dispose of salt water produced with crude oil in the Mohall Field, Bottineau County, North Dakota by injecting said water into the Dakota Sand Formation through it George Wittman No. 1 well located in the NE NE of Section 7, T. 161 N., R. 83 W., and for the purpose of this hearing Clarence B. Folsom, Jr Wesley D. Norson is directed to conduct a hearing at the Leonard Hall on the campus of the University of North Dakota, at Grand Forks, at 9:30 a. m. on 9 July 1968. Immediately after the conclusion of the hearing, the examiner shall forward a transcript of said hearing, together with exhibits received to the Commission for its action.

N. D. INDUSTRIAL COMMISSION
William L. Guy, Governor
6-26