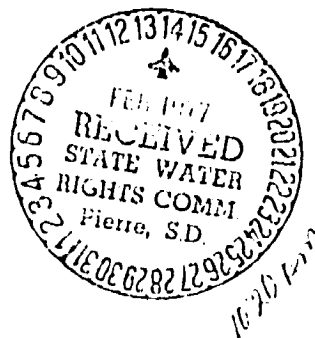


1. Considered 5.26 1977 3650-3
2. Name of Applicant WILLIAM MOE
3. Post Office Address BRUCE
4. Amount of water claimed 2.2
5. Source of water supply 75' DEEP WELL
6. Water to be used for IRRIGATION
- Acres to be irrigated 160
7. Water to be diverted and used in BROOKINGS county  
about 4N, 6W miles of BRUCE
8. Proof of Publication Received ~~DET~~ 9-2-77  
Not Received \_\_\_\_\_
9. Application Approved 3-28-79  
Subject to ~~land survey~~ well entry.  
Not Approved \_\_\_\_\_  
Action deferred \_\_\_\_\_
10. Remarks:

No. 3650-3  
 Map No. 2925-3 Water Division No. 3 Big Sioux River District \_\_\_\_\_  
 (Blanks to be filled by the Engineer for the W. R. C.)



## APPLICATION FOR PERMIT

## To Appropriate Water within the State of South Dakota

(NOTE--Draw a line through items not applicable)

1. Name of Applicant William Moe  
 Post-office address Bruce, State South Dakota 57220  
 If a corporation show date and place of incorporation \_\_\_\_\_  
 2. Method of accomplishing work (contract, employment of others, or by direct labor) Direct Labor  
 3. Name of diversion work William Moe - Unit # 2  
 4. Amount of water claimed (cubic feet per second) 2.2  
 5. Source of water supply Ground Water  
 6. Location of point of diversion NW<sup>4</sup> NW<sup>4</sup> SEC. 30-T112N-R51W  
 \_\_\_\_\_ County Brookings  
 7. Annual period or periods during which water is to be used March - November  
 8. Use to be made of water (irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation  
 9. For irrigation use, Total number of acres to be irrigated 160

List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

| Land Description                                                         | No. Acres Irr. | Land Description | No. Acres Irr. |
|--------------------------------------------------------------------------|----------------|------------------|----------------|
| <u>N<math>\frac{1}{2}</math> of NW<math>\frac{1}{4}</math>-30-112-51</u> | <u>80</u>      |                  |                |
| <u>N<math>\frac{1}{2}</math> of NE<math>\frac{1}{4}</math>-25-112-52</u> | <u>80</u>      |                  |                |
|                                                                          |                |                  |                |
|                                                                          |                |                  |                |

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 5 years. Additional time required to complete application of water to the proposed beneficial use 2 years.  
 11. Choice of newspaper for Notice of Intent to Appropriate Water publication Volga Tribune, Volga, SD  
 12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.

Pump Bowl

B. Works proposed to transport water to place of use.

Main Line

C. Works proposed to apply water to beneficial use.

Center Pivot

Estimated Total Cost \$ \_\_\_\_\_

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map.  
 (See instructions concerning preparation.)

STATE OF SOUTH DAKOTA )  
 ) ss.  
 County of Brookings )

I William Moe the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed William MoeSubscribed and sworn to before me this 9 day of February 1987

Notary Public (or other qualified officer)

# WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3650-3

WILLIAM MCE  
(Applicant)

POUCE  
(Post Office Address)

SOUTH DAKOTA 57230 With the following modifications.  
(State)

The irrigation well approved under this Permit will be located near domestic wells and other irrigation wells which may obtain water from the same aquifer. The irrigation well owner, under this Permit, shall control his irrigation withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in irrigation wells having prior water rights.

Date of first receipt of application FEBRUARY 14, 19 77

Date of return to applicant for correction, amendments or changes required \_\_\_\_\_, 19 \_\_\_\_\_

Date of receipt of corrected application WQ MARCH 1, 19 77

Approved MARCH 28, 19 79, Recorded in Book 20 Page 218

WATER RIGHT PERMIT NO. 3650-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3650-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is FEBRUARY 14, 19 77
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 28, 19 81
3. The whole of said work is to be completed on or before MARCH 28, 19 84
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 28, 19 86
5. The water appropriated shall be used for the purpose of IRRIGATION

6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.

7. The amount of the appropriation herein granted shall not exceed 2.2 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation must be limited to not more than 2 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before MARCH 28, 19 86 said water to be used during the following described annual period: MARCH - NOVEMBER

Witness my hand this 4th day of APRIL, 19 79

WATER RIGHTS COMMISSION

By: Clara H. H. H.  
Chief Engineer, Executive Officer

Certificate of Construction Issued \_\_\_\_\_, 19 \_\_\_\_\_

Water License Issued \_\_\_\_\_, 19 \_\_\_\_\_

PAGE NO.

Steve Kuehl

FOREMAN

[illegible]

12. Principal Features of the Proposed Water Supply System (continued.)

D. Well Information or Estimates

(1) Drill Hole, Diameter \_\_\_\_\_, Depth \_\_\_\_\_

(2) Casing, Type \_\_\_\_\_, Diameter \_\_\_\_\_, Thickness \_\_\_\_\_  
(wood, concrete, steel, etc.)

(3) Perforated Screen.

Type \_\_\_\_\_, Diameter \_\_\_\_\_, Length: \_\_\_\_\_

(4) Gravel Pack. Thickness \_\_\_\_\_, Length of gravel pack \_\_\_\_\_

E. Dugout Information or Estimates.

(1) Surface dimensions \_\_\_\_\_, Depth \_\_\_\_\_

F. Fill out for Either a Well or a Dugout. \*Log will be provided by driller

(1) Water Bearing Materials. (Please attach a copy to test well log if available.)

Character of Water bearing materials \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Depth to top of water bearing material \_\_\_\_\_

Depth to bottom of water bearing material \_\_\_\_\_

Thickness of water bearing material \_\_\_\_\_

Depth to water (ground surface to water level) \_\_\_\_\_

(2) Distance to nearest existing household or livestock watering wells.

On same owner's property 120 rds. On property owned by others 110 rds.

G. Water Storage Dams.

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

William L. Mc  
Signature of Applicant

CONSERVATION  
COMMISSION  
FORM W1 #1

STATE CONSERVATION COMMISSION  
SUPPORTING INFORMATION  
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE  
WITH SDCL 46-6-3 AS AMENDED  
(THIS FORM REQUIRED FOR PROPOSED GROUND WATER IRRIGATION ONLY)

NAME William Moe UNIT # 2

ADDRESS Bruce, So. Dak. 57220

COUNTY Brookings

LEGAL DESCRIPTION

1. WELL LOCATION East of middle of N $\frac{1}{2}$  of NW $\frac{1}{4}$  30-112-51  
2. LOCATION OF AREA TO BE IRRIGATED N $\frac{1}{2}$  of NW $\frac{1}{4}$  of 30-112-51, N $\frac{1}{2}$  of NE $\frac{1}{4}$  of 25-112-52

TYPE OF IRRIGATION

3. GRAVITY                      TOWLINE                      CENTER PIVOT                      X                      GUN                       
4. CROPS TO BE IRRIGATED Corn, Alfalfa, Small Grain

WATER QUALITY

5. SAMPLE NUMBER 77-196  
6. SALINITY (EC X 10<sup>6</sup>) 894 (moderately high)  
7. SODIUM (SAR) 0.36 (low)  
8. RESIDUAL SODIUM CARBONATE (meq/l.) 0

I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and:  
the soils information has been acquired from Brookings Co. Conservation District,  
County Extension office or Soil Conservation Service.  
and:  
that the legal description for the location of the well and land to be irrigated is true  
and correct.

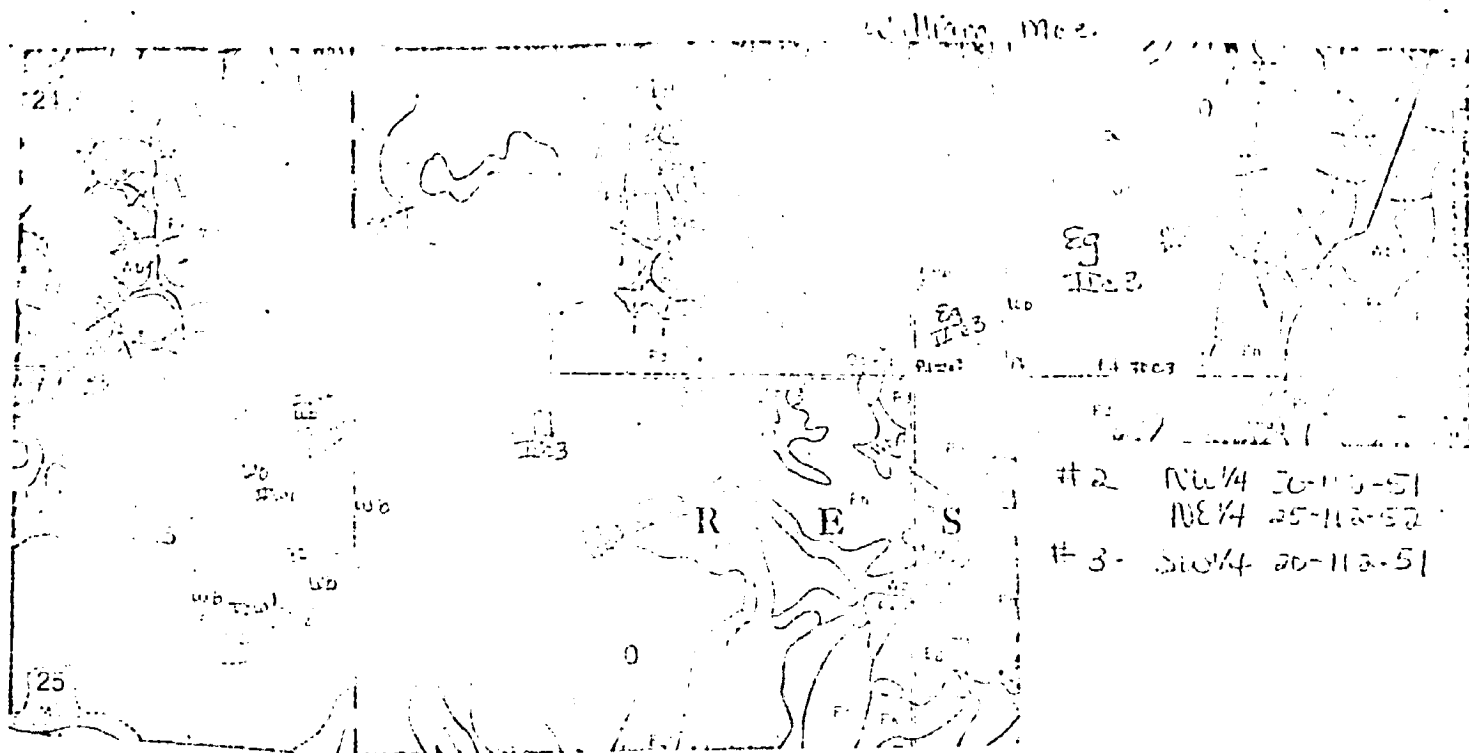
William L. Moe  
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS  
9 DAY OF February 19 77.

                      
(TITLE OR SEAL)

MY COMMISSION  
EXPIRES NOV. 4, 1984 (SOILS INFORMATION ON REVERSE SIDE)

                      
APPROVED/DENIED



**CLASS I**  
I2  
Pc

Soils with few limitations that restrict their use.

Pc - Poinsett silt loam; Range Site: Silty; WL Group: 3; Slope: 0-2; K-32.

Deep, loamy, well drained soils on nearly level upland slopes. They have few or no limitations in use.

**CLASS II**  
IIc3  
Eg  
Pe

Soils with some limitations that reduce the choice of plants or require moderate conservation practices.

Eg - Esteline silt loam; Range Site: Silty; WL Group: 3; Slope: 3-6; K-24.

Pe - Poinsett silt loam; Range Site: Silty; WL Group: 3; Slope: 5-8; K-32.

Deep, loamy, well drained soils on gently undulating and gently sloping upland. They have moderate water erosion and slight to moderate wind erosion hazards.

IIw1  
Wb

Wb - Waubay silty clay loam, drainage ways; Range Site: Overflow; WL Group: 2; Slope: 0-2.

Deep clayey and loamy, somewhat poorly or poorly drained soils with slow permeability or that are ponded. They occupy nearly level to flat slopes or depressions. Choice of crops and time of tillage is limited by seasonal wetness.

IIw3  
Oc

Oc - Oldham silty clay loam; Range Site: Overflow; WL Group: 2; Slope: 0-2.

Deep, clayey, limy, poorly drained soils on bottomlands that are sometimes flooded. Time of tillage is often delayed by wetness and yields are affected.

**CLASS III**  
IIc2  
Pe

Soils with severe limitations that reduce the choice of plants and/or require special conservation practices.

Pe - Poinsett silt loam; Range Site: Silty; WL Group: 3; Slope: 5-8; K-32.

Deep, loamy, well drained soils on sloping uplands and eroded soils on gently sloping uplands. Water erosion hazard is severe.

**REPORT OF ANALYSIS**  
 Water Quality Labora. /  
 Water Resources Research Institute  
 South Dakota State University  
 Brookings, South Dakota 57006

Submitted by: William Koe  
 Address: Huron, SD 57220  
cc: Huron Drilling, Inc.  
P.O. Box 1422  
Huron, SD 57350

Date Rec'd February 7, 1977  
 Sample No. 77-196  
 Identification #2 well-75'  
NEL, Sec. 30, T. 112N, R. 51W

**WATER ANALYSIS**

|                                       |      |                             |      |           |
|---------------------------------------|------|-----------------------------|------|-----------|
| Calcium (Ca)                          | 136  | ppm*                        | 6.80 | me/l**    |
| Magnesium (Mg)                        | 46   | ppm                         | 3.77 | me/l      |
| Sodium (Na)                           | 19   | ppm                         | 0.83 | me/l      |
| Potassium (K)                         | 6    | ppm                         | 0.16 | me/l      |
| Sulfate (SO <sub>4</sub> )            | 205  | ppm                         | 4.26 | me/l      |
| Nitrate (as N)                        |      | ppm                         |      | me/l      |
| Chloride (Cl)                         | 8    | ppm                         | 0.22 | me/l      |
| Bicarbonate (HCO <sub>3</sub> )       | 383  | ppm                         | 6.28 | me/l      |
| Carbonate (CO <sub>3</sub> )          |      | ppm                         |      | me/l      |
| Iron (Fe)                             |      | ppm                         |      | me/l      |
| Fluoride (F)                          |      | ppm                         |      | g.p.g.*** |
| Hardness (EDTA as CaCO <sub>3</sub> ) |      | ppm                         |      |           |
| Alkalinity (Methyl Orange)            | 314  | ppm (as CaCO <sub>3</sub> ) |      |           |
| Alkalinity (Phenolphthalein)          | 0    | ppm (as CaCO <sub>3</sub> ) |      |           |
| Electrical Conductivity               | 894  | micromhos per cm at 25° C.  |      |           |
| Sodium Adsorption Ratio               | 0.36 |                             |      |           |
| Sodium                                | 7.18 | % of cations                |      |           |
| Residual sodium carbonate             | 0.00 | me/l                        |      |           |
| pH                                    | 7.70 |                             |      |           |

\*ppm=parts per million  
 \*\*me/l=millequivalents per liter

\*\*\*g.p.g.=grains per gallon

COMMENTS: Total cations 11.56 me/l  
 Total anions 10.76 me/l

By: Shirley Litten

| Service Performed   | Amount Due   |
|---------------------|--------------|
| Irrigation analysis | \$15.00 PAID |

Make checks payable to Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 77-196

Amount Enclosed \$

Signed

February 22, 1977

Mr. William Moe  
Bruce, SD 57220

Dear Mr. Moe:

Your water sample (Lab. No. 77-196) has been analyzed and the results are reported on the accompanying sheet, which is your copy to keep.

I am also enclosing a copy of AES pamphlet #13 for your use. The quality of your water for irrigation use is plotted approximately by means of the red cross in the chart on the outside back cover.

Your water, as indicated by this analysis, is satisfactory for use on the soils you indicate will be irrigated. If a salt problem or a water table problem should develop, contact extension personnel for assistance.

The WI-1, soils information, and a copy of the water analysis are being forwarded to the State Conservation Commission for their action.

Sincerely yours,

*L. O. Fine*

L. O. Fine  
Water Quality Lab

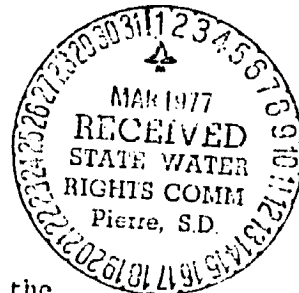
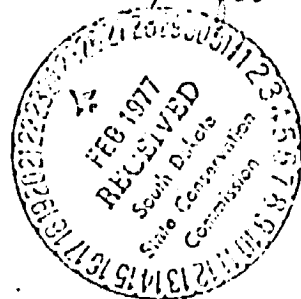
LOF:ckb

Enclosures

cc: State Conservation Commission

D. Pahl, Extension Service

P.S. This is a nearly unworkable proposal. The only area really suitable is the majority of the N 1/2 of the NW 1/4 sec. 30. The rest of the land is so cut up with poorly drained, marsh, and steep land that my judgement is you will be bitterly disappointed. Getting stuck, crops drowning and salt rise will be major problems. I recommend you reconsider.



4-21-77

William Moe

Bruce

called, said his  
appl. advertised for  
NW<sup>4</sup> NW<sup>4</sup> of sec.

should have been  
NE<sup>4</sup> NW<sup>4</sup> of sec.

I said this would  
be noted at the  
time, of ~~the~~ ~~note~~  
consideration.

JH

2843

(3650)

3651

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA )  
County \_\_\_\_\_ ) ss.

I, \_\_\_\_\_ hereby  
certify that the annexed printed copy of Notice of Intent to Appropriate  
Water was taken from the \_\_\_\_\_

A newspaper which during the whole time of publication of said notice  
herein after stated, has been and is printed and published in the \_\_\_\_\_

\_\_\_\_\_ of \_\_\_\_\_  
County of \_\_\_\_\_ and State of South Dakota;  
that the said notice was published in said newspaper on the following  
two dates:

April 21, 1977

April 28, 1977

*Thomas G. Beapolly*  
(Signature)

(Title)

April 28, 1977

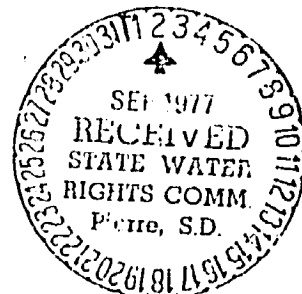
(Date Signed)

NOTICE OF INTENT  
TO APPROPRIATE WATER

Notice is hereby given that  
William Moe whose post office  
address is Bruce, South Dakota,  
has made an application in  
accordance with the provisions  
of the water laws of South  
Dakota for a permit to  
appropriate for beneficial use  
2.2 cubic feet of water per  
second of time from ground  
water through the William Moe  
#2, the point of diversion of  
which is to be located in the  
NW 1/4 NW 1/4 of Section 30,  
Twp. 112N, Range 51W. Said  
water to be used for the purpose  
of providing irrigation on  
portions of the following  
described land: N 1/2 NW 1/4,  
Section 30-T112N-R51W; N 1/2  
NE 1/4, Section 25-T112N-R52W.

This application No. 3650-3  
will be considered by the Water  
Rights Commission at their  
office at Pierre upon the 26th  
day of March, 1977, at 11:00  
a.m. All interested persons may  
appear and be heard.

WATER RIGHTS COMM.  
-s-James Winterton  
Water Rights Specialist



Form 6 - Notice of Intent to Appropriate Water

No. 3650-3

Publish first publication, on or before May 12, 1977

**NOTICE  
INTENT TO APPROPRIATE WATER**

Pierre, South Dakota 57501

March 29, 1977

Notice is hereby given that William Moe  
whose post office address is Bruce, South Dakota, has made an application in accordance  
with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use  
2.2 cubic feet of water per second of time from the ground water through the  
William Moe # 2, the point of diversion of which is to be located in the \_\_\_\_\_

\_\_\_\_\_ NW $\frac{1}{4}$  NW $\frac{1}{4}$   
of Section 30, Twp. 112N, Range 51W. Said water to be used for the purpose  
of providing irrigation on the following described land:

N $\frac{1}{2}$  NW $\frac{1}{4}$ , Section 30-T112N-R51W

N $\frac{1}{2}$  NE $\frac{1}{4}$ , Section 25-T112N-R52W

This application No. 3650-3 will be considered by the Water Rights Commission at their office at  
Pierre upon the 26th day of March, 1977, at 11:00 A. M. All interested  
persons may appear and be heard.

**WATER RIGHTS COMMISSION**

By:

**JAMES WINTERSTON**  
Water Rights Specialist

BFJ/bw

cc: William Moe, Bruce, South Dakota 57220



BROOKINGS COUNTY DEFERRED

3680-1

## Department of Natural Resource Development

### WATER RIGHTS COMMISSION

Joe Foss Building, Pierre, South Dakota 57501

Phone 605/224-3151

January 16, 1978

TO: Holders of Deferred Applications in Brookings County  
FROM: John Hatch, Chief Engineer, Water Rights Commission  
SUBJECT: Reconsideration of Deferred Applications

The Water Rights Commission will reconsider deferred Brookings County Water Right Applications at 2:00 P.M., January 25, 1978 at the South Dakota Education Association Building, 411 E. Capitol, Pierre, South Dakota.

This reconsideration hearing will be conducted in accordance with the provisions of SDCL 46-1-1 thru 46-1-8; 46-2-9 thru 46-2-11, 46-2-13; 46-5-1 thru 46-5-8, 46-5-10 thru 46-5-22, 46-5-41, 46-6-3, 46-6-5, 46-6-6.1, 46-6-10, 46-6-14 and Commission Rules ARSD 52:01:01:01 thru 52:01:01:13.

These Applications were deferred by the Water Rights Commission during 1977, pending Staff investigation.

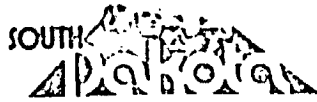
After reconsideration of the deferred Applications the Commission can approve, defer, or deny all or part of any of these Applications.

Very truly yours,

JOHN HATCH, Chief Engineer  
Water Rights Commission

JH/BFJ/bw

3650-2



# Department of Natural Resource Development

## WATER RIGHTS COMMISSION

Joe Foss Building, Pierre, South Dakota 57501  
Phone 605/224-3151

January 30, 1978

TO: Holders of Deferred Applications in Brookings County  
FROM: John Hatch, Chief Engineer, Water Rights Commission  
SUBJECT: Reconsideration of Deferred Applications

This is to inform you that the Water Rights Commission reviewed your Water Right Application at the January 25-26, 1978 meeting and decided, at this time, that it remain in a deferred status pending further investigation by the Commission Staff.

If you have any questions, feel free to contact this office.

Very truly yours,

A handwritten signature in cursive script that reads "John Hatch".

JOHN HATCH, Chief Engineer  
Water Rights Commission

JH/BW/gy

36-501-3



# Department of Natural Resource Development

WATER RIGHTS COMMISSION  
Joe Foss Building, Pierre, South Dakota 57501  
Phone 605/773-3151

March 14, 1979

TO: Holders of Deferred Applications in Brookings, Hamlin and Deuel Counties

FROM: John Hatch, Chief Engineer, Water Rights Commission

SUBJECT: Reconsideration of Deferred Applications

The Water Rights Commission will reconsider deferred water right applications in Brookings, Hamlin and Deuel Counties at 1:45 p.m. on March 28, 1979, at the Community Room of the Pierre City Hall, 222 East Dakota Ave, Pierre, South Dakota.

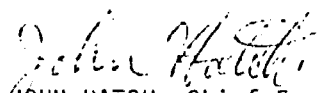
This reconsideration hearing will be conducted in accordance with the provisions of SDCL 46-1-1 thru 46-1-9; 46-1-14; 46-2-9 thru 46-2-11; 46-2-13; 46-5-1 thru 46-5-8; 46-5-10 thru 46-5-22; 46-5-41; 46-6-3; 46-6-5; 46-6-6.1; 46-6-10; 46-6-3.1; 46-6-14 and Commission Rules ARSD 52:01:01:01 thru 52:01:01:13.

These applications were deferred by the Water Rights Commission in 1977 and 1978, pending Staff investigation. Data from the computer model are not complete at this time, the Commission Staff may recommend deferral on some of the applications until this data is obtained.

After reconsideration of the deferred applications the Commission can approve, conditionally approve, defer, or deny all or part of the Application.

This hearing is an adversary proceeding. Any person has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised at the hearing. Decisions of the Commission may be appealed to the Courts as provided by law.

Very truly yours,

  
JOHN HATCH, Chief Engineer  
Water Rights Commission

JH:kjw

 **Department of  
Water & Natural Resources**

Joe Foss Building  
523 East Capitol  
Pierre, South Dakota 57501-2181

5169-3

SEP 14 1989

William Moe  
RR #2 Box 54  
Bruce, SD 57220

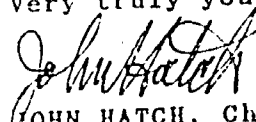
Dear Mr. Moe:

Enclosed is Water License No. 5169-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 411250 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 5169-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Very truly yours,



JOHN HATCH, Chief Engineer  
Water Rights Division  
(605) 773-3352

enclosures

Note: The applicable portions of Water Permit No. 3650-3 and Water Right No. 2843-3 have been incorporated into this Water License No. 5169-3.



HURON DRILLING INC.  
WELL LOCATION MAP

NAME William Moe

DATE February 9 19 77

WELL NO. #2

NW

QUARTER, SECTION 30

TWP. 112 RANGE 51

IN Brookings COUNTY

T112N, R52W

T112N, R51W

N<sup>2</sup>NE<sup>4</sup>  
SEC 25

#2 N<sup>2</sup>NW<sup>4</sup>  
SEC 30

Prepared By

Dick Fadgen

Dick Fadgen

PROPOSED LOCATION

Beadle County Extension Agent

3-05966N44W 3-5267 3-444W

NOT TO SCALE

3650-3

3762-3

