

1. Considered 7-27-77 3969.3
2. Name of Applicant ROBERT E. MOBERG
3. Post Office Address BRUCE
4. Amount of water claimed 2.1
5. Source of water supply 2-50' WELL
6. Water to be used for IRRIGATION
- Acres to be irrigated 14.7
7. Water to be diverted and used in BROOKINGS county
about 15 1/2 miles of BROOKINGS
8. Proof of Publication Received 6-28-77
Not Received _____
9. Application Approved ✓
Subject to _____
Not Approved _____
Action deferred _____

10. Remarks:

No. 3969-3Map No. 3220-3 Water Division No. 3 BIG SIOUX RIVER District
(Blanks to be Filled by the Engineer for the W. R. C.)

APPLICATION FOR PERMIT

To Appropriately Water within the State of South Dakota

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

1. Name of Applicant Robert E. Moberg
Postoffice address Bruce Rt 1 Box 41 Stat. S 72-20 South Dakota
If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract & Direct Labor
3. Name of diversion work Robert E. Moberg Irrigation Project #2
4. Amount of water claimed (cubic feet per second) 2.1
5. Source of water supply 2 wells
6. Location of point of diversion Well #1 - 1980' N 88° W at SE corner Sec 6 - 112-49
Well #2 - 1320' N 87° W at SE corner Sec 6 - 112-49
County Brookings
7. Annual period or periods during which water is to be used April through October
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 147

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.
NW 1/4 SE 1/4 Sec 6 - 112-49	35		
NE 1/4 " " " "	39		
SW 1/4 " " " "	35		
SE 1/4 " " " "	38		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system Five years. Additional time required to complete application of water to the proposed beneficial use three years.
11. Choice of newspaper for Notice of Intent to Appropriately Water publication Brookings Register
12. Principal Features of the Proposed Water Supply System.
- A. Works proposed to divert water from its natural source. 2 wells with dug well turbines
- B. Works proposed to transport water to place of use close to conduit
- C. Works proposed to apply water to beneficial use. center pivot irrigation system

Estimated Total Cost \$ 60,000Attachments: 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)

County of Brookings)I, Robert E. Moberg, 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 Robert E. MobergSubscribed and sworn to before me this 28 day of April, 1977

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3969-3
ROBERT E. MOBERG RT #1, Box 41, BRUCE
 (Applicant) (Post Office Address)

SOUTH DAKOTA 57220 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.

WELLS APPROVED UNDER THIS PERMIT SHALL BE SPACED SO THAT THERE IS AT LEAST 660' BETWEEN WELLS.

Date of first receipt of application MAY 4, 19 77
 Date of return to applicant for correction, amendments or changes required MAY 4, 19 77
 Date of receipt of corrected application MAY 10, 19 77
 Approved JULY 28, 19 77 Recorded in Book 19 Page 13

WATER RIGHT PERMIT NO. 3969-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3969-3 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 MAY 4, 19 77
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JANUARY 28, 19 80
3. The whole of said work is to be completed on or before JULY 28, 19 82
4. The limit of time from onset of beneficial use of water appropriated in accordance herewith is JULY 28, 19 85
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 2.1 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 3 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 JULY 28, 19 85; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 5TH day of AUGUST, 19 77

WATER RIGHTS COMMISSION

By:

John H. Hatcher
 Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 _____

Water License Issued _____, 19 _____

2 nearly identical wells.

Form 2A - Wells, Dugouts or Water Storage Dams (Supplement to form 2)

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

D. Well Information or Estimates

(1) Drill Hole, Diameter 30", Depth 50'
(2) Casing, Type steel Diameter 16" Thickness 1/4"
(wood, concrete, steel, etc)
(3) Perforated Screen.
Type Cent slot, Diameter 16", Length 20'
(4) Gravel Pack, Thickness 5", Length of gravel pack 30'

E. Dugout Information or Estimates.

(1) Surface dimensions , Depth

F. Fill out for Either a Well or a Dugout.

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

Character of Water bearing materials 0' to 2' top soil, 2' to 6' mixed
clay sand, 6' to 50' water bearing sand.

Depth to top of water bearing material 6'
Depth to bottom of water bearing material 50'
Thickness of water bearing material 44'
Depth to water (ground surface to water level) 6'

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

On same owner's property 10 S. 8th rds. On property owned by others 48 well #1
88 well #2

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.

Robert E. Moberg
Signature of Applicant

SECTION
#1 #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)



NAME Robert E Moberg
ADDRESS Rt 1 Bruce S. Dakota
COUNTY Brackley

LEGAL DESCRIPTION

1. WELL LOCATION South side of SE⁴ Sec 6-112-49
2. LOCATION OF AREA TO BE IRRIGATED SE⁴ Sec 6-112-49

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT ☒ GUN _____
4. CROPS TO BE IRRIGATED corn & alfalfa

WATER QUALITY

5. SAMPLE NUMBER 76-683
6. SALINITY (EC x 10⁶) 558
7. SODIUM (SAR) 0.20
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 _____ 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.

Robert E. Moberg
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
9 DAY OF August 1972.
John L. Williams
(TITLE OR SEAL)

Approved
APPROVED/DISAPPROVED

REPORT OF ANALYSIS
Water Quality Laboratory
Water Resources Research Institute
South Dakota State University
Brookings, South Dakota 57006

Submitted by: Robert E. Koberg
Address Rt. 1, Box 41
Bruce, SD 57220

Date Rec'd April 29, 1977
Sample No. 77-633
Identification Well-50
S&S, Sec. 6, T. 112N, R. 49W

WATER ANALYSIS

Calcium (Ca)	96	ppm*	4.80	me/l**
Magnesium (Mg)	34	ppm	2.76	me/l
Sodium (Na)	9	ppm	0.39	me/l
Potassium (K)	3	ppm	0.08	me/l
Sulfate (SO ₄)	33	ppm	0.69	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	58	ppm	1.61	me/l
Bicarbonate (HCO ₃)	307	ppm	5.04	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	252	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	558	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.20			
Sodium	4.85	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.67			

Others:
*ppm==parts per million
**me/l==milliequivalents per liter

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

COMMENTS: Total cations 8.03 me/l
Total anions 7.34 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. 77-633

Amount Enclosed \$

Signed

A
May 4, 1977

Mr. Robert E. Moberg
R.R. #1, Box 41
Bruce, SD 57220

Dear Mr. Moberg:

Your water sample (Lab. No. 76-683) 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

LJFickb
Enclosures

cc: State Conservation Commission
D. Pahl, Extension Service

P.S. You are hereby advised that the Lignora soils have permeability rates less than 0.2 inches per hour below the 17 inch depth. This is not compatible with thorough irrigation with overhead systems applying 0.3 in. per hour and more. Getting stuck will be one of your problems.

Publish first publication, on or before **July 14, 1977**

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Fierre, South Dakota 57501

June 13, 1977

Notice is hereby given that Robert E. Moberg whose

post office address is Bruce, South Dakota, has made an application 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, ~~Future Use 46-5-36, Temporary Permit 46-5-39, 46-5-40~~; Ground Water 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, ~~Future Use 52:01:01:21~~.

~~and 52.01.01.24~~, for a permit to appropriate for beneficial use 2.1 cubic feet of water per second of time from ~~the~~ **ground water** through

Robert E. Moberg #2
the _____, the point^s of diversion of which ~~is~~ are
to be located in the _____ SW $\frac{1}{4}$ SE $\frac{1}{4}$ (two wells)

of Section 6, Twp. 112N, Range 49W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

SE4, Section 6, T112N, R49W

This Application No. 3969-3 will be considered by the Water Rights Commission at the Staurolite Inn, Brookings, S.D. at their office at Pierre upon the 27th day of July, 1977, at 10 A.M. The Commission is authorized to make a determination of this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Commission decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Commission in writing prior to the hearing or orally at the hearing.

WATER RIGHTS COMMISSION

JANES WINTERTON
Water Rights Specialist

cc: Robert E. Mohr, Rt. 1, Box 41, Bruce, S.D. 57220

No. 3969-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
County Brookings)

I, James M. McLellan Jr. hereby
certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Brookings Daily Register

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

City of Brookings

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

June 20, 1977

June 27, 1977

J. M. R. L.
(Signature)

Editor - General Manager
(Title)

6-27-77
(Date Signed)

Legal No. 148-June 20 and 27
NOTICE OF HEARING ON
APPLICATION TO
APPROPRIATE WATER
Pierre, South Dakota 57501
June 12, 1997

June 13, 1977
Notice is hereby given that Robert E. Moberg whose post office address is Bruce, South Dakota, has made an application 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, Ground Water 46-6-2, 46-6-5, 46-6-8.1, 46-6-10, 46-6-14 and Commission Rules ARSD 52:01:01:01 thru 52:01:01:13, for a permit to appropriate for beneficial use 2.1 cubic feet of water per second of time from ground water through the Robert E. Moberg No. 2, the points of diversion of which are to be located in the SW¼ SE¼ (two wells) of Section 6, Twp. 112N, Range 49W. Said water to be used for the purpose of providing irrigation on portions of the following described land: SE¼, Section 6, T112N, R49W.

This Application No. 3969-3 will be considered by the Water Rights Commission at the Staurolite Inn, Brookings, S.D. upon the 27th day of July, 1977, at 10 A.M. The Commission is authorized to make a determination on this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Commission decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Commission in writing prior to the hearing or orally at the hearing.

WATER RIGHTS COMMISSION
James Winterton
Water Rights Specialist





Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

WATER RIGHTS DIVISION
Phone (605) 773-3352

No. 4981-3

3969-3

APR 29 1985

Robert E. Moberg
RR#1, Box 41
Bruce, South Dakota 57220

Dear Mr. Moberg:

Enclosed herewith is, Water License No. 4981-3. This is the final water right document completing your process of obtaining a water right.

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.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division

JH: MS

Enclosures

Applicable portions of Water Permit No. 3969-3 have been incorporated into this Water License No. 4981-3. A May 4, 1977 priority date is retained for all lands and water.

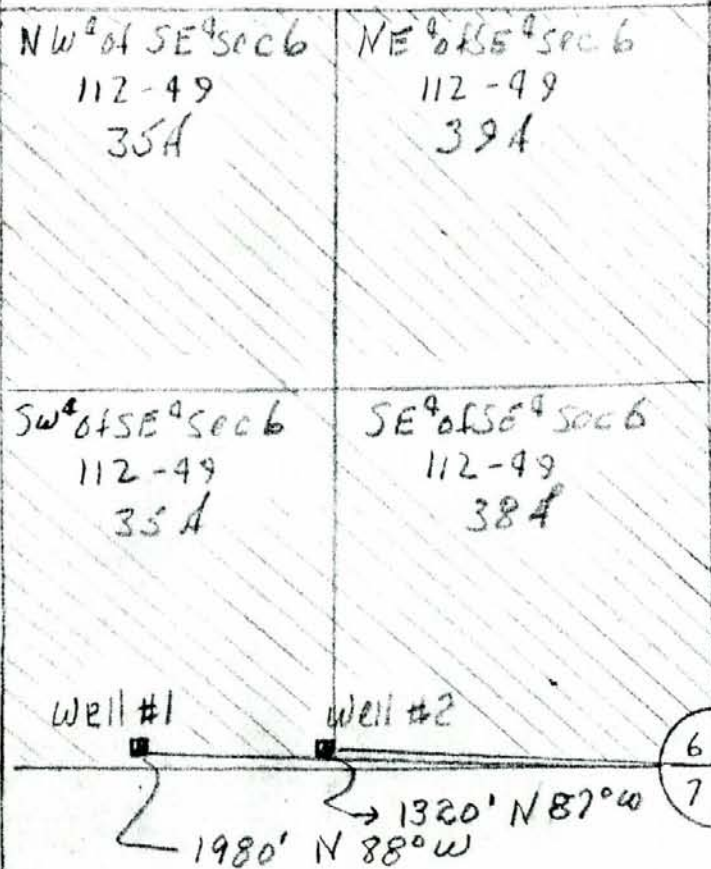
WNR-817 3/83

Transmittal of Water License

Robert E. Moberg
Irrigation Project # 2
Bruce S. Dakota
57220

Acres Irrigated - 147
Water claimed - 2.1 cfs.
Brookings County
Land in SE⁴ Sec 6 - 112-48

Highway I 29



Points of diversion:
Well #1 - 1980' N 88° W
Well #2 - 1320' N 87° W
at SE corner Sec 6 - 112-48

5-1-77
Certified Correct
John F. Williams
P.E. 1976

Incorporated into
4981-3

112-48-3-2003 App N° 3969-3

NOT TO SCALE

