

1. Considered 7-21, 1976 2814-3
2. Name of Applicant RICHARD VOS
3. Post Office Address ANDOVER
4. Amount of water claimed .85
5. Source of water supply 14' DEEP DUGOUT - 58' DEEP WELL
6. Water to be used for IRRIGATION
- Acres to be irrigated 59.7
7. Water to be diverted and used in DAY county
about 3 S ~~2 1/4~~ ~~7 1/2~~ miles of ANDOVER
8. Proof of Publication Received 1st 7-21-76
Not Received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action deferred _____
10. Remarks:

No. 2814-3Map No. 2152-3 Water Division No. 3 JAMES RIVER
(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 RICHARD VOSS
Postoffice address ANDOVER State S.D.

If a corporation show date and place of incorporation _____

2. Method of accomplishing work (contract, employment of others, or by direct labor) CONTRACT3. Name of diversion work VOSS FARMS, IRRIGATION PROJECT # 24. Amount of water claimed (cubic feet per second) 0.85 CFS (380 GPM)5. Source of water supply DUGOUT 11 Spring in DUGOUT #16. Location of point of diversion 2000' N 96° E OF NW CORNER
SEC 22, T122N, R59W7. Annual period or periods during which water is to be used APRIL - OCTOBER County DAY8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) IRRIGATION9. For irrigation use, Total number of acres to be irrigated 57.7

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>NN 1/4, NW 1/4, SEC 22,</u>	<u>39.0</u>		
<u>T122N, R59W</u>			
<u>SW 1/4, NW 1/4, SEC 22,</u>	<u>20.7</u>		
<u>T122N, R59W</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 _____ years.11. Choice of newspaper for Notice of Intent to Appropriate Water publication ABERDEEN AMERICAN NEWS

12. Principal Features of the Proposed Water Supply System.

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

CENTRIFUGAL Pump

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

PIPE LINE

C. Works proposed to apply water to beneficial use.

CENTER PIVOTEstimated Total Cost \$30,000Attachments: 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 DayI, Richard Voss 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 Richard VossSubscribed and sworn to before me this 26 day of June 1976

Notary Public (or other qualified officer)

GORDON H. FLEMMER
Notary Public - Day Co., So. Dak.
My Commission Expires Aug. 27, 1981

WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 2814-3

RICHARD VOSS
(Applicant)

ANDOVER
(Post Office Address)

SOUTH DAKOTA 57422 With the following modifications:
(State)

Date of first receipt of application JUNE 28 19 76
Date of return to applicant for correction, amendments or changes required —, 19 —
Date of receipt of corrected application JULY 2 19 76
Approved JULY 21 19 76, Recorded in Book 15, Page 293

WATER RIGHT PERMIT NO. 2814.3

The Water Resources Commission hereby grants and issues this Water Right Permit No. 2814.3 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 JUNE 28 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JANUARY 21 19 79
3. The whole of said work is to be completed on or before JULY 21 19 81
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JULY 21 19 81
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 .85 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 21 19 81; said water to be used during the following described annual period: APRIL - OCTOBER

Witness my hand this 2ND day of AUGUST 1976

WATER RESOURCES COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer

Certificate of Construction Issued —, 19 —

Water License Issued —, 19 —

3281-3

3978-3

Department of Natural Resource Development

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

June 21, 1979

Richard Voss
Andover, SD 57422

Dear Mr. Voss:

SDCL 46-1-14 authorizes the Water Rights Commission to issue amended permits recognizing the date of priority of the original application if certain conditions are met.

At the May 24, 1979 Commission meeting, the Commission reviewed the amended Permits that had been issued with the later priority and granted the earlier priority date to such amended permits.

By this action, the priority date for your Permit No. 3978-3 was established as .85 cfs-July 26, 1976, .98 cfs-October 25, 1976 instead of May 24, 1977 as now shows on your copy of the Permit.

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

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Commission

JH/gy

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 _____, Depth _____
- (2) Casing, Type (wood, concrete, steel, etc) Diameter _____ Thickness _____
- (3) Perforated Screen.
Type _____, Diameter _____, Length _____
- (4) Gravel Pack, Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates.

- (1) Surface dimensions 10' x 340', Depth 3-4' 14'

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 spring water

Depth to top of water bearing material top

Depth to bottom of water bearing material to bottom of dugout

Thickness of water bearing material 14' 4"

Depth to water: (ground surface to water level) over

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

On same owner's property 640' rds. On property owned by others 640' 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.

Richard Voss

Signature of Applicant

June 29, 1976

Mr. Richard Voss
Andover, SD 57422

Dear Mr. Voss:

About 2 weeks ago we mailed you the original copy of the report of analysis on water sample 076-587 from a dugout. I have now received the WI-1 form in connection with your intent to irrigate in the northwest quarter of section 22-122-59.

The water you propose to use is only fairly well suited to irrigation, being high in total salt load but low in sodium. Thus, this water has a considerable hazard for increasing the total salt load of the surface soil. Each acre foot of this water you add to the soil would increase the salinity by approximately 1.1/ tons per acre. This salt must be moved down and out of the root zone or it will seriously interfere with the growth and yield of crops. I would be very concerned about the use of a center pivot system with this kind of water because of the need for frequent, light applications with this. This water should be used in amounts of 3 inches at a time and it should not be used more than 4 times in a growing season. This is the minimum application of 3 inches and the maximum number of times I would use it. I would also seriously question whether a dugout can supply enough water to operate a center pivot system over the considerable area of land you intend to irrigate. You should think carefully about these problems before going ahead with this development.

The application materials and a copy of the water analysis are accompanying this letter to the State Conservation Commission for their formal action.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ckb

Enclosures

cc: State Conservation Commission

D. Pahl

Denver Parks, County Extension Agent



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 Richard Voss
ADDRESS Anderson, S. Dak. 57422
COUNTY Day

LEGAL DESCRIPTION

1. WELL LOCATION NE of NW 1/4 of 22-122-59
2. LOCATION OF AREA TO BE IRRIGATED W 1/2 NW of 22-122-59

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT X GUN _____
4. CROPS TO BE IRRIGATED alfalfa

WATER QUALITY

5. SAMPLE NUMBER 76-587
6. SALINITY (EC X 10⁶) 1625 (high)
7. SODIUM (SAR) 2.08 (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 Day County 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.

Richard Voss
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
15 DAY OF June 1976.

Gordon H. Flemmer
(TITLE OR SEAL)

GORDON H. FLEMMER
Notary Public - Day Co., So. Dak.
My Commission Expires Aug. 27, 1981

Alvin J. [Signature]
APPROVED/DISAPPROVED

(SOILS INFORMATION ON REVERSE SIDE)

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

Submitted by: Richard Woss
 Address: Brookings, SD 57422

Date Rec'd: June 17, 1976
 Sample No. 76-587
 Identification Drainout
HW, Sec. 22, T 122N, R 59W

WATER ANALYSIS

Calcium (Ca)	168	ppm*	8.40	me/l**
Magnesium (Mg)	84	ppm	6.80	me/l
Sodium (Na)	132	ppm	5.74	me/l
Potassium (K)	16	ppm	0.43	me/l
Sulfate (SO ₄)	590	ppm	12.06	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	24	ppm	0.67	me/l
Bicarbonate (HCO ₃)	509	ppm	8.32	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)	416	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1625	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	2.03			
Sodium	26.74	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.66			
Others:				

*ppm=parts per million
 **me/l=millequivalents per liter
 ***g.p.g.=grains per gallon

COMMENTS: Total cations 21.46 me/l
 Total anions 21.05 me/l

By: Shirley Gibson

Service Performed	Amount Due
Irrigation analysis	\$8.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-587

Amount Enclosed \$.....

Signed.....

Form 6. - Notice of Intent to Appropriate Water

No. 2814-3

Publish first publication, on or before

July 12, 1976

NOTICE OF INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

July 6, 1976

Notice is hereby given that

Richard Voss

whose post office address is Andover, 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 .85 cubic feet of water per

second of time from ~~the~~ ground water (dugout) through the

Voss Farms #2, the point of diversion of which is to

be located in the

NE 1/4 NW 1/4

of Section 22, Twp. 122N, Range 59W. Said water to be used for the purpose of providing irrigation on ~~the~~ the following described land:
portions of

W 1/2 NW 1/4, Section 22, T122N, R59W

This application No. 2814-3 will be considered by the Water Rights

Commission at ~~XXXXXXXXXX~~ the Court House in Winner, S.D.

upon the 21st day of July, 1976 at 10:00 A. M. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES, Water Rights Specialist

James
BFJ/bw
cc:

Richard Voss, Andover, S.D. 57422

Form 8 - Proof of Publication Notice of
Intent to Appropriate Water

No. 2814-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Brown) ss.

I, Dianne Brenden hereby

certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Aberdeen American News

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 Aberdeen

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

July 12, 1976

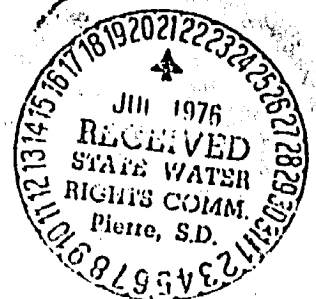
July 19, 1976

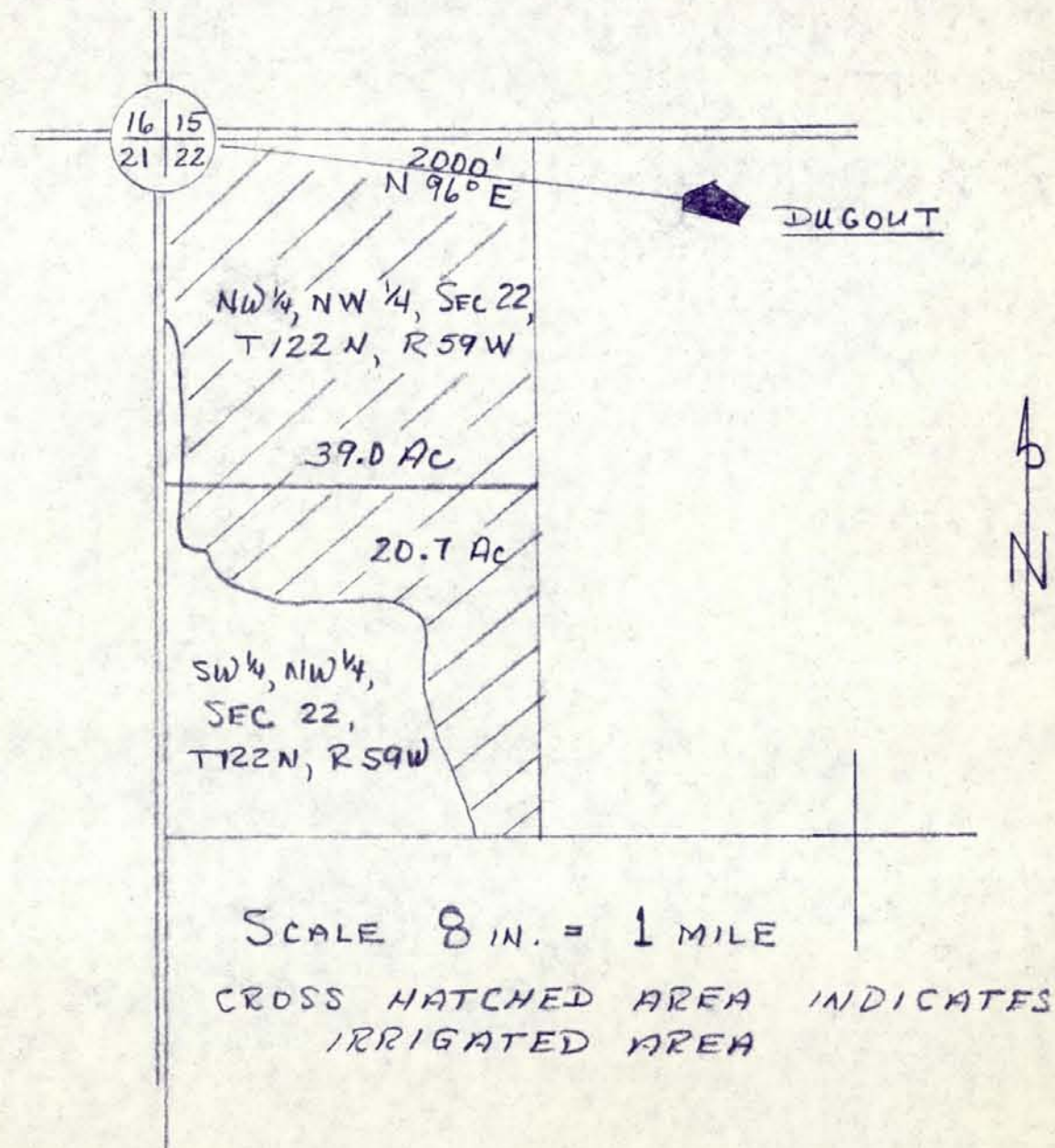
Dianne Brenden
(Signature)

Principal Clerk
(Title)

July 19, 1976
(Date Signed)

NOTICE OF INTENT TO APPROPRIATE WATER
Notice is hereby given that Richard Voss, whose post office address is Aberdeen, 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 25 cubic feet of water per second of time from ground water (dugout) through the Voss Farms No. 2, the point of diversion of which is to be located in the NE 1/4 NW 1/4 of Section 27, Twp. 122N, Range 57W. Said water to be used for the purpose of providing irrigation on portions of the following described land: W 1/4 NW 1/4, Section 27, T122N, R57W.
This application No. 2814-3 will be considered by the Water Rights Commission at the Court House in Winner, S.D. upon the 21st day of July, 1976 at 10:00 A.M. All interested persons may appear and be heard.
By: Burton F. Jones, Water Rights Specialist, Water Rights Commission





VOSS FARMS

RICHARD VOSS

IRRIGATION PROJECT #2

ANDOVER, S. DAK.

DAY COUNTY

AREA IRRIGATED 59.7 AC.

WATER CLAIMED 0.85 CFS

POINT OF DIVERSION

DUGOUT 2000' N 96° E
OF NW CORNER SEC 22, T122N, R59W

I, DARRELL W. DEBOER, DO HEREBY CERTIFY THAT
THIS MAP IDENTIFIES A REASONABLY ACCURATE
RECORD OF THE LAND OF

VOSS FARMS, RICHARD VOSS
ANDOVER, S. DAK., DAY COUNTY

DRAWN BY D. W. DE BOER P.E. # 2630
BROOKINGS, S.D.

Darrell W. DeBoer
JUNE 18, 1976
MAP # 21523 APR N 2814-3

Richard Voz

122-59

59.7
CR-168

2-220D

849 out

field to be
irrigated

4.5

69.7

4.0

22

7.6

150.8

27.8

13.9

28.0

122-59

22