

Water Right Number 3343-3

1. Considered 1-26, 19 77
2. Name of Applicant ALEC R. SOLBERG
3. Post Office Address VOLIN
4. Amount of water claimed 1.85
5. Source of water supply 110' WELL
6. Water to be used for IRRIGATION
- Acres to be irrigated 130
7. Water to be diverted and used in YANKTON County
about 7N, 2E Miles of YANKTON
8. Proof of Publication Received 1-6-77
Not received
9. Application Approved
Subject to
Not approved
Action deferred

10. Remarks:

No. 3343-3Map No. 2629-3 Water Division No. 3 JAMES 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 ALEC B. SOLBERG
 Postoffice address Box 13 Volin, 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) CONTRACT
3. Name of diversion work ALEC AND LOIS SOLBERG
4. Amount of water claimed (cubic feet per second) 2
5. Source of water supply WELL
6. Location of point of diversion S 1/2 NE 4 8 94-54
- County YANKTON
7. Annual period or periods during which water is to be used MARCH 1 - NOV 1
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 130

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>NE 4 8-94-54</u>	<u>130</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 Press & Belton - Yankton
12. Principal Features of the Proposed Water Supply System.

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

well

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

Pipe

C. Works proposed to apply water to beneficial use.

Sprinkler Type System (Pivot)Estimated Total Cost \$ 55,000Attachments: 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 YanktonI, Alec Solberg, 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 constructionSigned Alec SolbergSubscribed and sworn to before me this 10 day of September, 1926Ernest Kessler
Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3343-3
ALEC R. SOLBERG Box 13, Volin
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57072 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.

See also w/p 4603-3

Date of first receipt of application DECEMBER 14, 19 76
 Date of return to applicant for correction, amendments or changes required _____, 19 ____
 Date of receipt of corrected application DECEMBER 15, 19 76
 Approved JANUARY 27, 19 77, Recorded in Book 17 Page 112

WATER RIGHT PERMIT NO. 3343-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3343-3 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 DECEMBER 14, 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 27, 19 79
3. The whole of said work is to be completed on or before JANUARY 27, 19 82
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 27, 19 84
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 1.85 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 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 JANUARY 27, 19 84; said water to be used during the following described annual period: MARCH 1 - NOVEMBER 1

Witness my hand this 8TH day of APRIL, 19 77

WATER RIGHTS COMMISSION

By:

John Hatch
 Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 ____

Water License issued _____, 19 ____

D. EDYLL R. WRIEY WELL DRILLING

CENTERVILLE, S. D.K.

ALIC SOLEING

VOLIN, S. D.K.

TEST HOIF

0 - 5' - Black Dirt

5' - 15' - Yellow Clay

15' - 23' - Gravel

23' - 28' - Blue Clay

28' - 40' - Sand & Gravel Mix

40' - 110' - Course Sand & Gravel

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 14", Depth 110'
- (2) Casing, Type Steel Diameter 14" Thickness 2 1/4" WALL
(wood, concrete, steel, etc)
- (3) Perforated Screen.
Type STAINLESS STEEL, Diameter 1 1/4", Length 20'
- (4) Gravel Pack. Thickness 4", Length of gravel pack 85'

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 _____

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 40 rds. On property owned by others 160 rds.

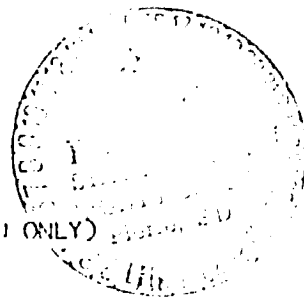
G. Water Storage Dams.

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.

C. R. S. L. C. L. C.
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 Alec Solberg

ADDRESS Volin, S.D.

COUNTY YANKTON

LEGAL DESCRIPTION

1. WELL LOCATION NE 1/4 of Section 8 - 94-54
2. LOCATION OF AREA TO BE IRRIGATED NE 1/4 of Section 8 - 94-54

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT ✓ GUN _____
4. CROPS TO BE IRRIGATED CORN - SOY BEANS - ALFALFA

WATER QUALITY

5. SAMPLE NUMBER 76-1850
6. SALINITY (EC X 10⁶) 1204 (high)
7. SODIUM (SAR) 0.27 (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 YANKTON 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.

Alec Solberg
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
9 DAY OF November 19 76.

[Signature]
(TITLE OR SEAL)

[Signature]
APPROVED/DENIED

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

Submitted by: Alec Solberg
 Address: Volin, SD 57072

Date Rec'd November 12, 1976
 Sample No. 76-1850
 Identification Well-
NE1, Sec. 8, T 94N, R 54W

WATER ANALYSIS

Calcium (Ca)	219	ppm*	10.95	me/l**
Magnesium (Mg)	50	ppm	4.10	me/l
Sodium (Na)	17	ppm	0.74	me/l
Potassium (K)	5	ppm	0.13	me/l
Sulfate (SO ₄)	277	ppm	5.76	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	6	ppm	0.18	me/l
Bicarbonate (HCO ₃)	490	ppm	8.04	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)	402	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1209	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.27			
Sodium	4.64	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.41			

Others:

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 15.92 me/l
 Total anions 13.98 me/l

By: Shirley Mittan

Service Performed	Amount Due
Irrigation analysis	\$8.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-1850

Amount Enclosed \$

Signed



December 8, 1976

Mr. Alec Solberg
Volin, SD 57072

Dear Mr. Solberg:

Your water sample (Lab. No. 76-1850) 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

Form 5 - Notice of Intent to Appropriate Water

No. 3343-3

Publish first publication, on or before January 13, 1977

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

~~December 21~~, 1976

Notice is hereby given that Alec B. Solberg
whose post office address is Volin, 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

1.85 cubic feet of water per second of time from the XX ground water through the

Solberg # 1, the point of diversion of which is to be located in the

center of the NE $\frac{1}{4}$

of Section 8, Twp. 94N, Range 54W. Said water to be used for the purpose
of providing irrigation on portions of the following described land:

NE $\frac{1}{4}$, Section 8, T94N, R54W

This application No. 3343-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 26th day of January, 1977, at 10:00 A.M. All interested
persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw

cc: Alec B. Solberg, Box 13, Volin, SD 57072

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

No. 221,222

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Yankton) ss.

I, Harry J. Snodgrass hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Daily Press & Opinions

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 Yankton of Yankton

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

December 29, 1976

January 6, 1977

Harry J. Snodgrass
(Signature)

Business Manager
(Title)

1-5-77
(Date Signed)

12+2841+5
NOTICE INTENT TO
APPROPRIATE WATER

December 21, 1976

Notice is hereby given that Alec B. Solberg whose post office address is Volin, 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 1.85 cubic feet of water per second of time from ground water through the Solberg #1, the point of diversion of which is to be located in the center of the NE 1/4 of Section 8, Twp. 94N, Range 54W. Said water to be used for the purpose of providing irrigation on portions of the following described land: NE 1/4, Section 8, T94N, R54W.

This application No. 3343-J will be considered by the Water Rights Commission at their office at Pierre upon the 28th day of January, 1977, at 10.00 A.M. All interested persons may appear and be heard.

Water Rights Commission
By: BURTON F. JONES
Water Rights Specialist



Form 10.

No. 3343-3



NOTICE OF COMPLETION OF WORKS AND/OR
APPLICATION OF WATER TO BENEFICIAL USE

Post Office Wahla

Date 2/3/77

TO: Water Rights Commission
Joe Foss Building
Pierre, South Dakota 57501

Dear Sirs:

This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to the maximum extent it is going to be used, not exceeding the amounts as specified in Water Right Permit No. 3343-3.

Water Right Permit No. 3343-3 states that the diversion system is to be constructed by Dec, 1981 and that the water is to be put to beneficial use by Dec, 1981?

The diversion system was completed on June, 1977.
Applying the water to beneficial use was completed on June, 1977.

You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.

Alvin Solberg
(Signature)



April 9, 1996

3343-3

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

Permit No. 4603-3

Alec B. Solberg
RR 1, Box 13
Volin, SD 57072

Dear Mr. Solberg:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit Nos. 3343-3 and 4603-3, has been completed. Your final water right document, the Water License, can now be issued. Upon licensing, the applicable portions of Water Permit No. 3343-3 will be incorporated into 4603-3.

Statutes require that we charge a \$50.00 fee for the inspection and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

Please remit fee to:
Department of Environment & Natural Resources
Water Rights Program
523 E. Capitol
Pierre, SD 57501-3181

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Program
(605) 773-3352

NOTE: On check or money order, please specify your permit number. This will insure proper handling of the fee.



3343-3

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

JUL 2 1996

4603-3

Alec Solberg
RR 1, Box 13
Volin, SD 57072

Dear Mr. Solberg:

Enclosed is Water License No. 4603-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 414933 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. 4603-3, 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 Program
(605) 773-3352

gm
enclosures

NOTE: The applicable portions of Water Permit No. 3343-3 are incorporated into this Water License No. 4603-3.



Map No. 2629-5, App. No. 3343-3