

Water Right Number 3404-3

1. Considered 1-26, 1977
2. Name of Applicant WILLIAM J. CURRAN
3. Post Office Address JEFFERSON
4. Amount of Water claimed 2.10
5. Source of Water supply 116' WELL
6. Water to be used for FOR IRRIGATION
Acres to be irrigated 150
7. Water to be diverted and used in UNION County
about 1 W miles of JEFFERSON
8. Proof of Publication Received 1-17-77
Not Received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action Deferred _____

10. Remarks:

Map No. 35-3

No. 3404-3

Water Division No. 3 Big Sioux River District
(Dunks to be filled by the Engineer for the V. 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 J. Curran
Postoffice address Rt. #1, Jefferson, State South Dakota 57038

If a corporation show date and place of incorporation _____

2. Method of accomplishing work (contract, employment of others, or by direct labor) _____

3. Name of diversion work William Curran #14. Amount of water claimed (cubic feet per second) 2.15. Source of water supply ground water6. Location of point of diversion South 44° 05' East, 1848 feet from the NW Corner,
Section 23, T90N, R47WCounty Union7. Annual period or periods during which water is to be used April thru October8. Use to be made of water (irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation9. For irrigation use, Total number of acres to be irrigated 150

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 $\frac{1}{4}$ NW $\frac{1}{4}$	37		
NE $\frac{1}{4}$ NW $\frac{1}{4}$	35	All in Sec. 23, T90N, R47W	
SW $\frac{1}{4}$ NW $\frac{1}{4}$	39		
SE $\frac{1}{4}$ NW $\frac{1}{4}$	39		

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 4 years.11. Choice of newspaper for Notice of Intent to Appropriate Water publication Leader Courier, Elk Point, S.D.

12. Principal Features of the Proposed Water Supply System.

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

Well, pump

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

Mainline

C. Works proposed to apply water to beneficial use.

Sprinkler and/or gravity

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)

County of Union)I, William J. Curran, 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 William J. CurranSubscribed and sworn to before me this 20 day of June, 1936

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3404-3
WILLIAM J. CURRIN RT #1, JEFFERSON
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57038 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.

Cancelled
9/14/79
See W/L #4247-3

Date of first receipt of application NOVEMBER 22, 1976
 Date of return to applicant for correction, amendments or changes required DECEMBER 29, 1976
 Date of receipt of corrected application JANUARY 27, 1977
 Approved JANUARY 27, 1977 Recorded in Book 17 Page 152
 WATER RIGHT PERMIT NO. 3404-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3404-3 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 NOVEMBER 22, 1976
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 27, 1979
3. The whole of said work is to be completed on or before JANUARY 27, 1982
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 27, 1986
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 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, 1986; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 11TH day of APRIL 1977

WATER RIGHTS COMMISSION

By

John Walsh
 Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19____

Water License Issued _____, 19____

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

D. Well Information or Estimates

(1) Drill Hole, Diameter 36", Depth 116'

(2) Casing, Type Steel, Diameter 18", Thickness STD
(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.

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

Character of Water bearing materials _____

SEE ATTACHED LOG

Depth to top of water bearing material 19'

Depth to bottom of water bearing material 116'

Thickness of water bearing material 95'

Depth to water (ground surface to water level) 21'

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

On same owner's property ? rds. On property owned by others ? 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 J. Green
Signature of Applicant

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 William J. Curran
ADDRESS Jefferson, So Dak 57038
COUNTY Lincoln

LEGAL DESCRIPTION

1. WELL LOCATION NW 1/4 23-90-49
2. LOCATION OF AREA TO BE IRRIGATED NW 1/4 23-90-49

TYPE OF IRRIGATION

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

WATER QUALITY

5. SAMPLE NUMBER 76-2004
6. SALINITY (EC x 10⁶) 913 (mod high)
7. SODIUM (SAR) 1.33 (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 Lincoln 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 J. Curran
APPLICANT'S SIGNATURE

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

Glenn R. Stewart, Notary
(TITLE OR SEAL)

Albert J. [Signature]
APPROVED/DISTRICT APPROVAL

(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: William J. Garven
Address: Brookings, SD 57038

Date Rec'd: December 10, 1976
Sample No.: 76-2004
Identification: Well
Well, Sec. 23, T. 22N, R. 42W

WATER ANALYSIS

Calcium (Ca)	97	ppm*	4.95	me/l**
Magnesium (Mg)	45	ppm	3.94	me/l
Sodium (Na)	64	ppm	2.73	me/l
Potassium (K)	3	ppm	0.21	me/l
Sulfate (SO ₄)	223	ppm	4.75	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	8	ppm	0.21	me/l
Bicarbonate (HCO ₃)	356	ppm	6.00	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		g.p.g.***
Hardness (EDTA as CaCO ₃)		ppm		
Alkalinity (Methyl Orange)	300	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	913	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	1.33			
Sodium	23.59	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.83			
Others:				

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

COMMENTS: Total cations 11.78 me/l
Total anions 10.96 me/l

By: Shirley Mitten

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. <u>76-2004</u>	Amount Enc. <u>15</u>
	Signed _____



December 22, 1976

Mr. William J. Curran
Jefferson, SD 57033

Dear Mr. Curran:

Your water sample (Lab. No. 76-2004) 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 6 - Notice of Intent to Appropriate Water

No. 340-3

Publish first publication, on or before January 13, 1977

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

January 13, 1977

Notice is hereby given that William J. Curran
whose post office address is Jefferson, 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
2.1 cubic feet of water per second of time from the ground water through the
William Curran # 1 the point of diversion of which is to be located in the

center of the NW 1/4

of Section 23, Twp. 50N, Range 49E. Said water to be used for the purpose
of providing irrigation on portions of
the following described land:

NW 1/4, Section 23, T50N, R49E

This application No. 340-3 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:

William J. Curran, Ac. # 1, Jefferson, SD 57026

No. 3404-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Union) ss.

I, Leader E. Emerson hereby

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

Water was taken from the Leader-Courier

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 E. Lk. Point

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

January 6, 1977

January 13, 1977

Leader E. Emerson
(Signature)

Publisher
(Title)

January 13, 1977
(Date Signed)

NOTICE OF INTENT TO
APPROPRIATE WATER 1-13
Pierre, South Dakota 57501
December 30, 1976

Notice is hereby given that
William J. Curran whose post
office address is Jefferson,
South Dakota, has made an app-
lication in accordance with the
provisions of the water laws of
South Dakota for a permit to
appropriate for beneficial use
2.1 cubic feet of water per sec-
ond of time from ground water
through the William Curran # 1,
the point of diversion of which
is to be located in the center of
the NW $\frac{1}{4}$ of Section 23, Twp. 90
N, Range 49W. Said water to
be used for the purpose of pro-
viding irrigation on portions of
the following described land:
NW $\frac{1}{4}$, Section 23, T90N, R49W

This application No. 3404-3
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 Specialists
Pub. Jan. 6, 13

