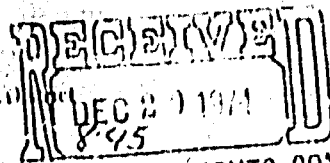


No. 2179-3Map No. 1571-3Water Division No. 3 Big Sioux River
(Plans to be Filed by the Engineer for the W. R. C.)STATE WATER RIGHTS COM.
SOUTH DAKOTA

APPLICATION FOR PERMIT

To appropriate Water within the State of South Dakota

(NOTE-Draw a line through items not applicable)

1. Name of Applicant Roger Dalley
Postoffice address Jackson, State South Dakota
If a corporation show date and place of incorporation none
2. Method of accomplishing work (contract, employment of others, or by direct labor) none
3. Name of diversion work Dalley Irrigation Project
4. Amount of water claimed (cubic feet per second) 4280 cfs 17 MAXIMUM ALLOWABLE
5. Source of water supply well
6. Location of point of diversion 1320' west of the NE corner of Sec. 23 T90N R49W
County Union

7. Annual period or periods during which water is to be used May thru August
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 120

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.
N68 Rods of the NW 1/4			
NE 1/4 Sec 33 T90 R49	40 Ac.		
E 1/2 SW 1/4 SE 1/4 SE 1/4	80 Ac.		
Sec 28 T90 R49			

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 5 years.
11. Choice of newspaper for Notice of Intent to appropriate Water publication Leader Courier Elk Point, South Dak.
57026
12. Principal Features of the Proposed Water Supply System.

A: Works proposed to divert water from natural source.

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

C: Works proposed to apply water to beneficial use.
Center Pivot SystemEstimated Total Cost \$ 9000.00Attachments: 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 UNIONI, ROGER DALEY, 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 Roger DalleySubscribed and sworn to before me this 18th day of December, 19 74

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2179-3

ROGER DAILEY
(Applicant)

JEFFERSON
(Post Office Address)

SOUTH DAKOTA 57038
(State)

With the following modifications:

The irrigation well approved under this Permit is located near domestic 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 existing domestic wells.

RECEIVED
BY ACTION
DATE 9/13/79
WELL 3461-3

Date of first receipt of application DECEMBER 20, 1974
Date of return to applicant for correction, amendments or changes required _____ 19____
Date of receipt of corrected application _____ 19____
Approved JANUARY 23, 1975, Recorded in Book 13 Page 168

WATER RIGHT PERMIT NO. 2179-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2179-3 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 20, 1974
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 23, 1977
3. The whole of said work is to be completed on or before JANUARY 23, 1980
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 23, 1980
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 1.7 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 JANUARY 23, 1980; said water to be used during the following described annual period: MAY THRU AUGUST

Witness my hand this 27TH day of JANUARY, 1975

WATER RIGHTS COMMISSION

By: Donald W. Pincock
Chief Engineer, Executive Officer

Certificate of Construction Issued _____ 19____

Water License Issued _____ 19____

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 105'
(2) Casing, Type concrete Diameter 18" Thickness 2 1/2"
(wood, concrete, steel, etc)
(3) Perforated Screen.
Type slotted, Diameter 1 1/2", Length 20'
(4) Gravel Pack. Thickness 6 to 9", Length of gravel pack 40'

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 50' no test well

Depth to top of water bearing material 50'

Depth to bottom of water bearing material 105'

Thickness of water bearing material 55'

Depth to water (ground surface to water level) 14'

- (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.

Ray Dailay
Signature of Applicant

December 13, 1974

Mr. Roger Dailey
Rural Route 1
Jefferson, SD 57038

Dear Mr. Dailey:

Your WI-1 form has been received. The water analysis has been completed for Sample 74-975. The original copy is enclosed for your use and keeping. Also enclosed, please find a copy of Extension Circular 654, which describes some of the problems related to irrigation that one does not ordinarily see in dryland farming. The approximate quality of your water is designated by an encircled red cross on the label cover.

There is no chemical problem with this water that should cause any difficulty with either soil dispersion or salt accumulation as a result of its use. Therefore, I see no difficulty and I wish you every success in your irrigation venture.

Sincerely yours,

L. G. Hira

LOF:brw

Enclosures

CC: State Conservation Commission
Louis DeSmet, Union County Agent
Darrel Pahl

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(This Form Required for Proposed Well Irrigation Only)

FOR COMMISSION USE ONLY

Irrigation System: _____

Water Quality: _____

Soils Capability: _____

Approved: Alfred H. H. H.

Disapproved: _____

NAME: Roger Darley

ADDRESS: Jefferson RRI

COUNTY: Union

LEGAL DESCRIPTION

1. WELL LOCATION: N 68 rods NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 33 Twp. 90 Range 49
2. AREA TO BE IRRIGATED: E $\frac{1}{2}$ SW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 33 Twp 90 Range 49

TYPE OF IRRIGATION

3. GRAVITY SPRINKLER (Indicate Type): Sprinkler
4. CROPS TO BE IRRIGATED: Corn Soy Beans

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: 0-1%
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: 2H2XW1
Well drained Sandy silty loam - Ideal for
irrigation

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: 74-975
8. SALINITY: EC = 889 micro-mhos/cm (med - high)
9. SODIUM: SAR = 1.21 (Low)

I do hereby certify that a chemical analysis of the ground water to be
acquired for irrigation from South Dakota State University and:
the land capability for irrigation information has been acquired from

U.S. Soil Conservation Service

and:

that the legal description for the location of the well and land to be
irrigated is true and correct.

Roger L. Dickey

Subscribed and sworn before me this

30 day of Nov 1974.

Robert M. May

Notary Public

(Title)

I do hereby certify that a chemical analysis of the ground water to be
acquired for irrigation from South Dakota State University and:
the land capability for irrigation information has been acquired from

U.S. Soil Conservation Service
and:

that the legal description for the location of the well and land to be
irrigated is true and correct.

Raymond D. Day

Subscribed and sworn before me this

30 day of Nov 1974.

Robert M. May

Notary Public

(Title)

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

Submitted by: Roger Bailey
 Address: Rt. 1, Box 67
Jefferson, SD 57038

Date Rec'd December 3, 1974
 Sample No. 74-975
 Identification Well-
Net, Sec. 33, T 90N, R 49W

WATER ANALYSIS

Calcium (Ca)	96	ppm*	4.50	me/l**
Magnesium (Mg)	37	ppm	3.03	me/l
Sodium (Na)	54	ppm	2.35	me/l
Potassium (K)	3	ppm	0.22	me/l
Sulfate (SO ₄)	190	ppm	3.95	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	1	ppm	0.04	me/l
Bicarbonate (HCO ₃)	547	ppm	8.96	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)	448	ppm (as CaCO ₃)		
Alkalinity (Penolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	889	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	1.21			
Sodium	23.26	% of cations		
Residual sodium carbonate	1.43	me/l		
pH	7.26			
Others:				

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

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

COMMENTS: **Total cations** 10.10 me/l
Total anions 12.96 me/l

By: Shirley Hittan

Service Performed	Amount Due
Irrigation analysis	\$6.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 74-795

Amount Enclosed \$

Signed

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Union) ss.

I, Byron Helgerson 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 Elk Point of _____

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

January 2, 1975

January 9, 1975

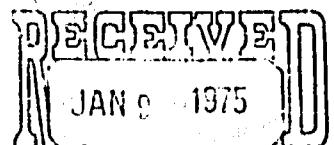
Byron Helgerson
(Signature)

(Title)

1 9 75

(Date Signed)

NOTICE OF INTENT TO
APPROPRIATE WATER
Pierre, South Dakota 57501
December 23, 1974
Notice is hereby given that
Roger Dalley, whose post office
address is Jefferson, South
Dakota, has made an applica-
tion in accordance with the pro-
visions of the water laws of
South Dakota for a permit to
appropriate for beneficial use
1.7 cubic feet of water per sec-
ond of time from ground water
through the Dalley Irrigation
Project, the point of diversion
of which is to be located in the
NE 1/4 of Section 33, Twp.
90N, Range 19W. Said water to
be used for the purpose of pro-
viding irrigation on portions of
the following described land:
N 1/2 NE 1/4, Section 33, S 2, SE 1/4,
Section 28, T 90N, R 19W.
This application No. 2179-3
will be considered by the Water
Resources Commission at their
office at Pierre upon the 22nd
day of January, 1975, at 2:30
P.M. All interested persons
may appear and be heard.
WATER RESOURCES
COMMISSION
By: Burton F. Jones
Water Rights Specialist
Publish: January 2 and 9



STATE WATER RIGHTS COM.
PIERRE, SOUTH DAKOTA

Form 6 - Notice of Intent to Appropriate Water

2179-3

Publish first publication, on or before January 8, 19 75

**NOTICE
INTENT TO APPROPRIATE WATER**

Pierre, South Dakota 57501

December 23, 19 74

Notice is hereby given that Roger Dailey

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

1.7 cubic feet of water per second of time from the ground water through the

Dailey Irrigation Project

, the point of diversion of which is to be located in the _____

NE 1/4 NE 1/4

of Section 33, Twp. 90N, Range 49W. Said water to be used for the purpose

portions of

of providing irrigation on the following described land:

N 1/2 NE 1/4, Section 33; S 1/2 SE 1/4, Section 28, 190N, 149W

This application No. 2179-3 will be considered by the Water Resources Commission at their office at Pierre upon the 22nd day of January, 19 75, at 2:30 P. M. All interested persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES

Water Rights Specialist

BFJ/lw

cc: Roger Dailey, Jefferson, S.D. 57038