

Water Right Number 3712-3

1. Considered 3-23, 19 77
2. Name of Applicant GEORGE DONNELLY
3. Post Office Address ELK POINT
4. Amount of Water claimed 3.42
5. Source of Water supply 100' WELL
6. Water to be used for IRRIGATION
- Acres to be irrigated 240
7. Water to be diverted and used in UNION County
about 2 1/2 N, 4 W miles of ELK POINT
8. Proof of Publication Received 3-21-77
Not Received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action Deferred _____

10. Remarks:

Map No. 2486-3 Water Division No. 3 Big Sioux River District 1
(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 George Donnelly
Postoffice address R.R. 2 Elk Point State S.D. 57025
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 G Donnelly #1
4. Amount of water claimed (cubic feet per second) 3.42 c.f.s.
5. Source of water supply Well
6. Location of point of diversion NE 1/4 Sec 4 91-50
County Union
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 240

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>SW 1/4 Sec 4 91-50</u>	<u>160</u>		
<u>S 1/2 NW 1/4 Sec 4 91-50</u>	<u>80</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 5 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Elk Point Leader Courier
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.

SprinklersEstimated Total Cost \$ 35,000.00

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, George Donnelly, 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 George DonnellySubscribed and sworn to before me this 2 day of March 1911

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3712-3

GEORGE DONNELLY
(Applicant)

P.O. #2, ELK POINT
(Post Office Address)

SOUTH DAKOTA 57025 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.

Date of first receipt of application MARCH 4, 19 77
Date of return to applicant for correction, amendments or changes required —, 19 —
Date of receipt of corrected application —, 19 —
Approved MARCH 23, 19 77, Recorded in Book 18, Page 62

WATER RIGHT PERMIT NO. 3712-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3712-3 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 MARCH 4, 19 77
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 23, 19 79
3. The whole of said work is to be completed on or before MARCH 23, 19 82
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 23, 19 82
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 3.42 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 MARCH 23, 19 82; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 21ST day of APRIL, 19 77.

WATER RIGHTS COMMISSION

By:

JOHN M. ADAMS
Chief Engineer, Executive Officer

Certificate of Construction Issued MARCH 25, 19 80

Water License Issued MARCH 25, 19 80

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 100
- (2) Casing, Type Transite Diameter 16 Thickness 1 1/2"
(wood, concrete, steel, etc)
- (3) Perforated Screen.
Type Sawed slotted, Diameter 16, Length 39
- (4) Gravel Pack. Thickness 14, Length of gravel pack 50

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 Water bearing sand

Depth to top of water bearing material 35

Depth to bottom of water bearing material 100

Thickness of water bearing material 65

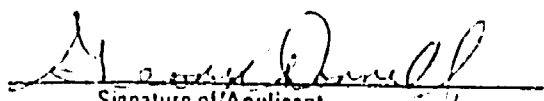
Depth to water (ground surface to water level) 18

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

On same owner's property 80 rds. On property owned by others 80 rds.

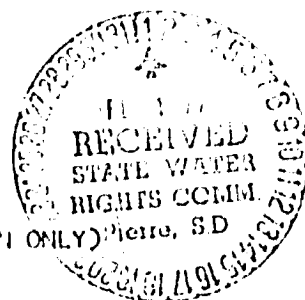
G. Water Storage Dams.

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.


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 ONLY)



NAME George Donnelly
ADDRESS RR 2 Elk Point S. Dak 57025
COUNTY Union

LEGAL DESCRIPTION

1. WELL LOCATION SW $\frac{1}{4}$ Sec 4 T91N R 50W.
2. LOCATION OF AREA TO BE IRRIGATED Same as above

TYPE OF IRRIGATION

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

WATER QUALITY

5. SAMPLE NUMBER 77-012
6. SALINITY (EC X 10⁶) 1569 (high)
7. SODIUM (SAR) 0.96 (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 Union 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.

X George Donnelly
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
30 DAY OF December 1976.

Arvin F. Rubida
(TITLE OR SEAL)

Albert 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: George Donnelly
 Address: It. 2
Elk Point, SD 57025

Date Rec'd: January 4, 1977
 Sample No. 77-012
 Identification #2 Well-
SW1, Sec. 4, T 91N, R 50W

WATER ANALYSIS

Calcium (Ca)	318	ppm*	15.90	me/l**
Magnesium (Mg)	68	ppm	5.58	me/l
Sodium (Na)	72	ppm	3.13	me/l
Potassium (K)	18	ppm	0.47	me/l
Sulfate (SO ₄)	820	ppm	17.06	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	38	ppm	1.06	me/l
Bicarbonate (HCO ₃)	356	ppm	5.84	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)	292	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1869	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.96			
Sodium	12.48	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.15			

Others:

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 25.08 me/l
 Total anions 23.96 me/l

By: Shirley Litten

Service Performed	Amount Due
Irrigation analysis	\$15.00

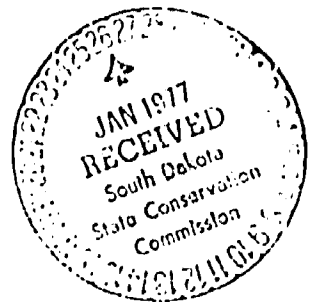
Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 77-012

Amount Enclosed \$

Signed



January 24, 1977

Mr. George Donnelly
R.R. #2
Elk Point, SD 57025

Dear Mr. Donnelly:

Your water sample (Lab. No. 77-012) 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.

This water is marginal for use on the soils you intend to irrigate and should be considered for use only under the following conditions:

(1) It will be used no more than 3 times (preferably less) in any growing season.

(2) The soil will be completely filled with water so natural leaching can occur, by irrigating in the late fall just before freeze-up, at least one year out of 3.

(3) Water applications will be made each irrigation to completely re-wet the entire depleted soil within the rooting zone of the crop being grown. This may require 3-5 inches of water each irrigation with fine soils.

(4) If a salt problem or soil dispersion occurs, contact extension personnel or this office for management recommendations.

Sincerely yours,

L. O. Fine
L. O. Fine
Water Quality Lab

LOF:ckb

Enclosures

cc: State Conservation Commission

P.S. This soil is a very slow-draining soil, and the water intake rate can be very disappointing. You may find that the only crops to do well under irrigation are wet-tolerant grasses, and maybe alfalfa. Salt accumulation is a real possibility unless the recommendations above are followed.

Permit No. 3712-3

Water Diversion No. 3 Big Sioux River Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That George Donnelly

_____ the holder _____ of
Permit No. 3712-3, issued upon Application No. 3712-3, bearing date of priority of _____
March 4, 1977 authorizing the diversion of 3.42 cu. ft. per second of the waters of _____
groundwater (one well) County of Union, State of South Dakota at a
point 400' South and 1380' East of the W¹ Corner, Section 4 - T91N -
R50W
_____, for irrigation

_____ has _____ complied with the provisions of the laws of the State of South Dakota relating to proof of
completion of the works of diversion set out and described in said Permit; that said works are found in satisfactory
condition for diverting and conveying to the place of intended use 2.0 cu. ft. per second of water.

Date March 25, 1980



JOHN HATCH, Chief Engineer
Water Rights, WND

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 3712-3

(1) WHEREAS, On the 4 day of March A.D. 1977

George Donnelly

made Water Right Application No. 3712-3 for a permit to use 3.42 cubic feet per second of the waters of groundwater (one well)

County of Union State of South Dakota, for irrigation

purposes; and

(2) WHEREAS, On the 23 day of March A.D. 1977

Permit No. 3712-3 with a date of priority of March 4, 1977

was issued to said applicant for the diversion of said water, and provided for the completion of construction of the water supply system therein described on or before the 23 day of March A.D. 1982 and for the application to beneficial use of said water on or before the 23 day of March A.D. 1982

and:

(3) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to completion of the construction of the water supply system and is entitled to divert 2.0 cubic feet per second of water for beneficial use and,

(4) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to the application of water to beneficial use of the following extent,

to irrigate the following lands all in Section 4 T91N - R50W

N1/4 SW1/4 68 ACRES

S1/4 NW1/4 68

S1/4 SW1/4 4

N1/4 NW1/4 4

Total 144 acres

(5) NOW, THEREFORE, By the virtue of the authority vested in us by the laws of the State of South Dakota, We hereby grant and confirm to George Donnelly

_____ of Ell Point, SD
the holder _____ and owner _____ of said permit No. 3712-3 a water right, dating from March 4, 1977
_____ to use of 2.0 _____ cubic feet per second of the waters
of groundwater (one well)

in the County of Union _____ and State of South Dakota, or so much thereof as may be necessary for the
purposes hereinbelow mentioned, to be diverted at a point 400' South and 1390' East of the
W $\frac{1}{2}$ Corner, Section 4 - T91N - R50W

and conducted ^{ed} on and upon lands in Section 4 - T91N - R50W, more fully described on
the face of this License.

for the purpose of irrigation

Subject to any limitations listed in Water Right Permit No. 3712-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 25th day of March _____ A. D.

Nineteen Hundred and Eighty

Board of Water Management

By:

John Hatch
Chief Engineer

JOHN HATCH

REPRODUCTION OF ORIGINAL RECORDS
REDUCTION 4-5-7
P911 NO 41
4-22-82
DATE MICROFILMED
Aimee Colman
CASSA OPERATOR

Form 6 - Notice of Intent to Appropriate Water

No. 3712-3

Publish first publication on or before March 20, 1977

**NOTICE
INTENT TO APPROPRIATE WATER**

Pierre, South Dakota 57501

March, 1977

Notice is hereby given that George Donnelly

whose post office address is Elk Point, 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

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

G. Donnelly # 1, the point of diversion of which is to be located in the

SW 1/4 SW 1/4

of Section 4, Twp. 91N, Range 10W. Said water to be used for the purpose of providing irrigation on the following described land:

SW 1/4, S 1/4 NW 1/4, Section 4-T91N-R50W

This application No. 3712-3 will be considered by the Water Rights Commission at their office at Pierre upon the 23 day of March, 1977, at 10:00 A. M. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By: **JAMES WINTERSTON**

Water Rights Specialist

BJJ/bw

cc:

George Donnelly, Elk Point, S. Dak.

No. 3712-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Union) ss.

I, Lester 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 Elk Point

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

March 10 - 1977

March 17 - 1977

Lester E. Emerson
(Signature)

Publisher
(Title)

March 17, 1977
(Date Signed)

NOTICE OF INTENT TO 3-17
APPROPRIATE WATER
Pierre, South Dakota 57501
March 4, 1977

Notice is hereby given that
George Donnelly whose post off-
ice address is Elk Point, 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 3.42 cubic feet of
water per second of time from
ground water through the G.
Donnelly #1, the point of diver-
sion of which is to be located in
the NW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 4, Twp.
91N, Range 50W. Said water to
be used for the purpose of pro-
viding irrigation on portions of
the following described land:
SW $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$, Section 4-T91N-
R50W.

This application No 3712-3
will be considered by the Water
Rights Commission at their off-
ice at Pierre upon the 23, day of
March, 1977, at 10:00 A.M. All
interested persons may appear
and be heard.
WATER RIGHTS COMMISSION
By James Whiterton
Water Rights Specialist
Pub. March 10, 17.



Permit No. 3712 3Water Division 3 Big Sioux River Water District

REPORT OF EXAMINATION OF WORKS AND/OR APPLICATION OF WATER TO BENEFICIAL USE

TO: Water Resources Commission, State Office Building No. 2, Pierre, South Dakota 57501

I have this day made a thorough examination of the water use system constructed by GEORGE DONNELLY of ELK POINT older _____ of Permit No. 3712-3, bearing date of priority of MARCH 4, 1977 authorizing the diversion of 3.42 cu. ft. per second of the waters of GROUND WATER for IRRIGATION purposes, in UNION County.

I have to report on the condition of the same as follows:

The Water Use System consists of,

A. Works used to divert the water:

100' DEEP WELL WITH 16" TRANSITE CASING
FAIRBANKS MORSE SIZE 12 M - 8" PUMP - 3 STAGE
POWERED BY #3208 CATERPILLAR DIESEL MOTOR - 150 HP

B. Works used to transport water to place of use,

60' of 16" LINE TO PUMP PAD

C. Works used to apply water to beneficial use.

LOCKWOOD 1310' CENTER PIVOT WITH 200' END
GUN

The system is in the following condition: GOOD

The point of diversion is located 400' S. & 1300' E. OF THE W 1/4 CORNER,
SECTION 4, T 9 N, R 50 W

The works are capable of diverting and conveying to the place of use 2.0
cu. ft. per second of water which is to be used for IRRIGATION

Water has been put to beneficial use to the maximum extent as follows: ALL IN SECTION 4, T 9 N, R 50 W

<u>N² SW⁴</u>	<u>68 ACRES</u>
<u>S² NW⁴</u>	<u>68 ACRES</u>
<u>S² SE⁴</u>	<u>4 ACRES</u>
<u>N² NW⁴</u>	<u>4 ACRES</u>

comprising a total of 14.4 acres of land.Date AUGUST 8, 1979

Buster J. Simon
(Signature)

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 7238

PIERRE, January 22, 1930

RECEIVED OF George Donnelly, RR #2, Box 46, Elk Point, SD 57025
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit to Appropriate Water No. (examination, processing, recording and filing)		
Fee for Inspecting Construction, and issuing Cert. of Construction No. 3712-3	5	00
Fee for Inspecting Beneficial Use, and Issuing Water License No. 2712-3		
Fee for issuing Location Certificate-Dry Draw, No.		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for		
(any other work as provided by law)		
TOTAL	5	00

WATER RIGHTS COMMISSION

By *(Signature)*
Chief Engineer, Executive Officer
JOHN HATCH
XXXXXXXXXXXXXXXXXXXX

John H. H.

There is no longer a
George and Joe Denny
partnership. Permit No 3712-3
+ 2465-3 are now owned
and operated by George

George Denny

2466-3 is also under George & Joe
Denny - list as George.

6-340

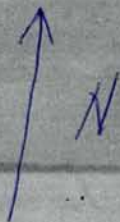
NOT TO SCALE

92-50

(6-119)

142.0

(1-40)



2

34.6

(6-58)

35.4

(6-2)

100.2

(6-5) 117.6

4



X-Well

Sec 4-91-50
prepared by
L.E. DeArmet Co. opt.
3/2/77

8.1

46.5

40.0

36.1

(6-145)

91-50

Map No. 2986? Area No. 3712-3