

1381-2

1. Considered MAY 20, 1976
2. Name of Applicant WENDELL JOHNSON
3. Post Office Address VELA
4. Amount of water claimed 2.66
5. Source of water supply GROUNDWATER (320' WELL)
6. Water to be used for IRRIGATION
- Acres to be irrigated 296
7. Water to be diverted and used in BENNETT county
about 2N, 10E miles of TITHILL
8. Proof of Publication Received 5-20-76
Not received
9. Application Approved
Subject to
Not Approved
Action deferred

10. Remarks:

No. 1381-2Map No. 1168-2 Water Division No. 2 LITTLE WHITE RIVER District
(Blanks 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 Wendell Johnson
Postoffice address Vetal State South Dakota
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 W. Johnson Well #2
4. Amount of water claimed (cubic feet per second) 1,200 gal/min. 7.66
5. Source of water supply Deep well
6. Location of point of diversion CENTER OF NE Between NE 1 and NW 1 of sect 12, 38-34

County Bennett

7. Annual period or periods during which water is to be used April thru 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 296 Acres

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.
NE 1/4 of NE 1/4, Sec 12, 38-34	37A	NE 1/4 of NW 1/4, Sec 12, 38-34	37A
NW 1/4 of NE 1/4, Sec 12, 38-34	37A	NW 1/4 of NW 1/4, Sec 12, 38-34	37A
SE 1/4 of NE 1/4, Sec 12, 38-34	37A	SE 1/4 of NW 1/4, Sec 12, 38-34	37A
SW 1/4 of NE 1/4, Sec 12, 38-34	37A	SW 1/4 of NW 1/4, Sec 12, 38-34	37A

Attach sheet if more space is needed

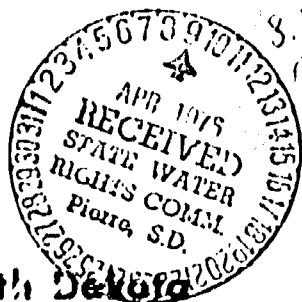
10. Time required to complete construction of water supply system five (5) years. Additional time required to complete application of water to the proposed beneficial use two (2) years.
11. Choice of newspaper for Notice of Intent to appropriate Water publication Bennett County Booster
12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source. High volumn pumpB. Works proposed to transport water to place of use. 8" aluminum pipeC. Works proposed to apply water to beneficial use. Automatic circular sprinklerEstimated Total Cost \$ 52,000Attachments: 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 BennettI, Wendell L. Johnson 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 Wendell L. JohnsonSubscribed and sworn to before me this 6 day of April 1926

Notary Public (or other qualified officer)

Ben. C. Ambler

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 1381-2WENDELL L. JOHNSON
(Applicant)VETAL

(Post Office Address)

SOUTH DAKOTA 57575
(State)

With the following modifications:

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 existing domestic wells or in irrigation wells having prior water rights.

*See also 1697-2*Date of first receipt of application APRIL 9 19 76Date of return to applicant for correction, amendments or changes required — 19 —Date of receipt of corrected application APRIL 27 19 76Approved MAY 20 19 76, Recorded in Book 15 Page 77WATER RIGHT PERMIT NO. 1381-2

The Water Rights Commission hereby grants and issues this Water Right Permit No. 1381-2 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 APRIL 9 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before NOVEMBER 20 19 78
3. The whole of said work is to be completed on or before MAY 20 19 81
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MAY 20 19 83
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 2.66 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 use, 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 MAY 20 19 83; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 24TH day of MAY 19 76

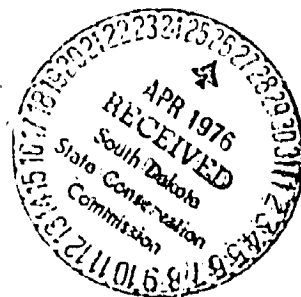
WATER RIGHTS COMMISSION

By.

John Vatal
Chief Engineer, Executive Officer

Certificate of Construction Issued — 19 —Water License Issued — 19 —

April 23, 1976



Mr. Wendell Johnson
Vestal, SD 57575

Dear Mr. Johnson:

We have completed the analysis of water sample #76-307 submitted here April 5 by you. The original copy of the report of analysis enclosed herewith is yours to keep. Also enclosed you will find a copy of AES publication #13. I have plotted the approximate quality of this water for irrigation purposes by means of a red cross in the chart on the outside back cover. You will see that it is very good water, being only in the low to medium salinity range and low in sodium.

Thus, there are no anticipated chemical problems arising from the use of this water on your soil. You are probably aware, however, that some of these soils that you propose to irrigate are very low in fertility and are excessively drained. That is, water application which exceeds the water holding capacity of the rooting zone of the crop which you use will result in leaching of fertility and, of course, any salts that may be present in the soil or brought in by the water. This occasional leaching is desirable in the case of a high salt water, but it probably will never be necessary with your water, and thus, you should be careful to apply water in accordance with the capacity of the rooting zone of the soil which you are using to hold water.

A copy of this letter, and of the water analysis, and the WI-1 form pertaining to your application, are being sent to the State Conservation Commission for their action.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

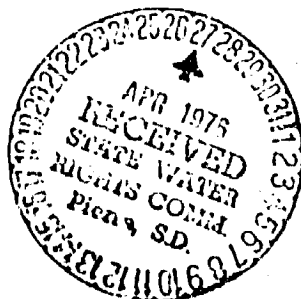
LOF:ckb

Enclosures

cc: State Conservation Commission

D. Pahl

Gary Nies, County Extension Agent



STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER
WITH SDCL 46-6-3 AS AMENDED
(THIS FORM REQUIRED FOR PROPOSED WELL IRRIGATION ONLY)

WATER QUALITY

SOILS CAPABILITY

APPROVED

DISAPPROVED

NAME Wendell Johnson

ADDRESS Vetal. South Dakota

COUNTY Bennett

0658-BT

LEGAL DESCRIPTION

1. WELL LOCATION Between NE fourth and NW fourth of Section 12, 38-34
2. AREA TO BE IRRIGATED N half of Section 12, 38-34

PD 1-31-80

TYPE OF IRRIGATION

3. GRAVITY _____ SPRINKLER (INDICATE TYPE) Circular automatic
4. CROPS TO BE IRRIGATED Corn, Alfalfa, and forage

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE 2-5%
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION Mostly Dunday-Anselmo and Valentine fine sands; with scattered areas of Vetal and Goshen soils

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NUMBER 76-307
8. SALINITY EC = 289 μ mhos/cm (low-med)
9. SODIUM SAR = 0.21 (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
Gary Nies, Bennett County Extension Agent

AND:

THAT THE LEGAL DESCRIPTION FOR THE LOCATION OF THE WELL AND LAND TO BE
IRRIGATED IS TRUE AND CORRECT.

Hendrick Johnson

SUBSCRIBED AND SWORN BEFORE ME THIS

_____ DAY OF _____ 19 ____.

(TITLE)

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

Submitted by: Wendell Johnson
 Address: Vetal, SD 57575

Date Rec'd April 5, 1976
 Sample No. 76-307
 Identification 12 Well-320
NE, Sec. 12, T 38N, R 34W

WATER ANALYSIS

Calcium (Ca)	58	ppm*	2.90	me/l**
Magnesium (Mg)	5	ppm	0.41	me/l
Sodium (Na)	6	ppm	0.27	me/l
Potassium (K)	6	ppm	0.16	me/l
Sulfate (SO ₄)	0	ppm	0.00	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	2	ppm	0.07	me/l
Bicarbonate (HCO ₃)	178	ppm	2.92	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)	146	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	289	micromhos per cm at 25° C		
Sodium Adsorption Ratio	0.21			
Sodium	7.21	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.70			

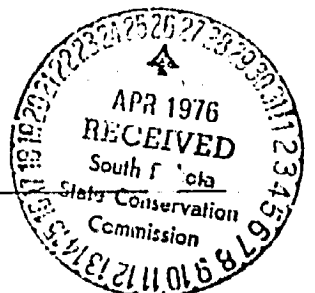
Others:

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 3.74 me/l
 Total anions 2.99 me/l



By: Shirley Kitten

Service Performed	Amount Due
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Irrigation analysis

\$6.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-307

Amount Enclosed \$

Signed

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 30", Depth 320 feet
- (2) Casing, Type Steel Diameter 18" Thickness 1"
(wood, concrete, steel, etc)
- (3) Perforated Screen
Type Steel, Diameter 18", Length 270 feet
- (4) Gravel Pack, Thickness 12", Length of gravel pack 300 feet

F. 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 Fine sands to sandstone

Depth to top of water bearing material 30 feet

Depth to bottom of water bearing material 320 feet

Thickness of water bearing material 290 feet

Depth to water (ground surface to water level) 30 feet

- (2) Distance to nearest existing household or livestock watering well:

On same owner's property 160 rds. On property owned by others 320 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

Herb R. Johnson
Signature of Applicant

Publish first publication, on or before May 6, 1976NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

April 29, 1976

Notice is hereby given that Wendell Johnson
whose post office address is Vetal, 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
2.66 cubic feet of water per second of time from the ground water through the
W. Johnson Well #2, the point of diversion of which is to be located in the XXXX

Center of the 16 1/2or Section 12, Twp. 37N, Range 34W. Said water to be used for the purposeof providing irrigation on ^{portions of} the following described land:1/2, Section 12, T37N, R34W

This application No. 1381-2 will be considered by the Water Rights Commission at their office at
Pierre upon the 20th day of May, 1976, at 1:00 P. M. All interested
persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw

cc: Wendell Johnson, Vetal, S.D. 57575

*Called Co. Agent's office 4-29-76
made correction on TWP. They will
notify the papers
BFW*

Bill White

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

No. 1381-2

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Bennett) ss.

I, Mary E. Long hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Bennett County Booster IT

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 Martin of _____

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

May 4, 1976

May 13, 1976

Mary E. Long
(Signature)

Owner
(Title)

May 4, 1976
(Date Signed)

NOTICE INTENT TO APPROPRIATE WATER

No. 1381-2

Pierre, South Dakota 57501
April 29, 1976

Notice is hereby given that
Wendell Johnson whose post
office address is Vetat, South
Dakota has made an applica-
tion in accordance with the
provisions of the water laws of
South Dakota for a permit to
appropriate for beneficial use
2.66 cubic feet of water per
second of time from ground
water through the W. Johnson
Well No. 2, the point of diversion
of which is to be located Center
of the N $\frac{1}{2}$ of Section 12, Twp.
31N, Range 34W. Said water to
be used for the purpose of
providing irrigation on portions
of the following described land:
N $\frac{1}{2}$, Section 12, T.7N, R.34W.

This application No. 1381-2
will be considered by the Water
Rights Commission at their
office at Pierre upon the 20th
day of May, 1976, at 1:00 p.m.
All interested persons may
appear and be heard.

WATER RESOURCES
COMMISSION

By: Burton F. Jones,
Water Rights Specialist

21-46





Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

WATER RIGHTS DIVISION
Phone (605) 773-3352

No. 1697-2

1381-2

DEC 2 1985

Kendell A. Johnson
HC 77, Box 36
Vestal, South Dakota 57574

Dear Mr. Johnson:

Enclosed herewith is, Water License No. 1697-2. This is the final water right document completing your process of obtaining a water right.

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.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division

JH:ms

Enclosures

Applicable portions of Water Permit No. 1381-2 have been incorporated into this Water License No. 1697-2.

WNR-817 5/83

Transmittal of Water License

(Joins sheet 40)

R. 34 W. | R. 33 W.



1 Mile
5,000 Feet

Scale 1:20,000

1/4 1/2 3/4 1 1 1/4 1 1/2 1 3/4 2 2 1/4 2 1/2 2 3/4 3 3 1/4 3 1/2 3 3/4 4 4 1/4 4 1/2 4 3/4 5



(Joins sheet 60)

1 745 000 FEET

1 760 000 FEET

Plane coordinate projection, 1927 North American datum.
5,000-foot grid ticks based on South Dakota coordinate system,
south zone. Mosaic compiled from 1961 aerial photographs.

MAP NO. 168-2 APP. NO. 1381-2

BENNETT COUNTY, SOUTH DAKOTA NO. 50

This map is one of a set compiled in 1969 as part of a soil survey by the United States Department of Agriculture, Soil Conservation Service, the United States Department of the Interior, Bureau of Indian Affairs, and the South Dakota Agricultural Experiment Station.