

Water Right Number 3055-3

1. Considered 10-21, 19 70
2. Name of Applicant Ralph Johnson
3. Post Office Address Frankfort
4. Amount of water claimed 2.22
5. Source of water supply 75' deep well
6. Water to be used for irrigation
Acres to be irrigated 320
7. Water to be diverted and used in Spink County
about 5N 2E Miles 1ST of Frankfort
8. Proof of Publication
Received 1ST
Not received _____
Approved _____
Subject to _____
Not approved _____
Action deferred _____
9. Application

10. Remarks: Cancelled
3-28-79
See 4374-3

No. 3055-3Map No. 2379-3 Water Division No. 3 JAMES RIVER District
(Blank to be filled by the Engineer for the W. R. C.)

APPLICATION FOR PERMIT

To Appropriately Water within the State of South Dakota

(NOTE - Draw a line through items not applicable)

1. Name of Applicant Ralph JohnsonFictitious address Franklin, State Alaska 57440If a corporation show date and place of incorporation NO2. Method of accomplishing work (contract, employment of others, or by direct labor) direct labor3. Name of diversion work Ralph Johnson4. Amount of water claimed (cubic feet per second) 2.3 (1500 gallons per minute)5. Source of water supply well6. Location of point of diversion SE 1/4 of 11-117-627. Annual period or periods during which water is to be used May 1st to Oct 1st County Sprink8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) irrigation9. For irrigation use, Total number of acres to be irrigated 1320

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>NW 1/4 of 11-117-62</u>	<u>160</u>		
<u>NE 1/4 of 11-117-62</u>	<u>160</u>		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 2 years. Additional time required to complete application of water to the proposed beneficial use Redfield Press11. Choice of newspaper for Notice of Intent to Appropriately Water publication Redfield Press
Daley Flanneman, HURON

12. Principal Features of the Proposed Water Supply System.

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

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

C. Works proposed to apply water to beneficial use.

Estimated Total Cost \$50,000.-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 SprinkI, Ralph C. 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 constructionSigned Ralph C. JohnsonSubscribed and sworn to before me this 11 day of September 19 76

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3055-3

RALPH JOHNSON
(Applicant)

RT #1, FRANKFORT
(Post Office Address)

SOUTH DAKOTA 57440 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 existing domestic wells or in irrigation wells having prior water rights.

CA 14
BY REC.
DATE 3/28/79
W.P.C.
See # 4374-3

Date of first receipt of application SEPTEMBER 14, 1976

Date of return to applicant for correction, amendments or changes required _____ 19 ____

Date of receipt of corrected application OCTOBER 7, 1976

Approved OCTOBER 21, 1976 Recorded in Book 16 Page 158

WATER RIGHT PERMIT NO. 3055-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3055-3 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 a applicant may claim right is SEPTEMBER 14, 1976
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before APRIL 21, 1977
3. The whole of said work is to be completed on or before OCTOBER 21, 1977
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is OCTOBER 21, 1979
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 2.22 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 OCTOBER 21, 1979; said water to be used during the following described annual period: MAY 1 TO NOVEMBER 1

Witness my hand this 1ST day of DECEMBER, 1976

WATER RIGHTS COMMISSION

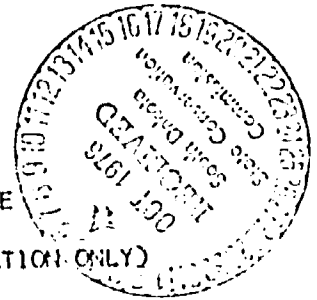
By:

John Hatch
Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 ____

Water License Issued _____, 19 ____

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

ADDRESS

COUNTY

LEGAL DESCRIPTION

1. WELL LOCATION

2. LOCATION OF AREA TO BE IRRIGATED

TYPE OF IRRIGATION

3. GRAVITY

TOW LINE

CENTER PIVOT

GUN

4. CROPS TO BE IRRIGATED

WATER QUALITY

5. SAMPLE NUMBER

6. SALINITY (EC X 10⁰)

7. SODIUM (SAR)

8. RESIDUAL SODIUM CARBONATE (meq/l.)

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 _____ 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.

APPLICANT'S SIGNATURE

Approval does not imply that this project can be carried out successfully in all circumstances. Individual management will be a large factor determining the relative success of this venture.

APPROVED/DISAPPROVED

SUBSCRIBED AND SWORN BEFORE ME THIS
14 DAY OF November 1976.

(TITLE OR SEAL)

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

Submitted by: Ralph C. Johnson
 Address: Frankfort, SD 57440

Date Rec'd September 15, 1976
 Sample No. 76-1364
 Identification Well-75'
SW1, Sec. 11, T 117N, R 62W

WATER ANALYSIS

Calcium (Ca)	134	ppm*	6.70	me/l**
Magnesium (Mg)	46	ppm	3.77	me/l
Sodium (Na)	205	ppm	8.92	me/l
Potassium (K)	18	ppm	0.47	me/l
Sulfate (SO ₄)	510	ppm	10.61	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	48	ppm	1.34	me/l
Bicarbonate (HCO ₃)	556	ppm	9.12	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)	456	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1790	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	3.90			
Sodium	44.91	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.21			
Others:				

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 19.86 me/l
 Total anions 21.07 me/l

By: Shirley Mittan

Service Performed	Amount Due
Irrigation analysis	\$8.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-1364

Amount Enclosed \$

Signed

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

Submitted by: Ralph C. Johnson
 Address: Frankfort, SD 57440

Date Rec'd September 15, 1976
 Sample No. 76-1363
 Identification Well-
NE 1/4, Sec. 22, T. 117N, R. 62W

WATER ANALYSIS

Calcium (Ca)	163	ppm*	8.15	me/l**
Magnesium (Mg)	53	ppm	4.35	me/l
Sodium (Na)	187	ppm	8.14	me/l
Potassium (K)	12	ppm	0.31	me/l
Sulfate (SO ₄)	680	ppm	14.14	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	40	ppm	1.12	me/l
Bicarbonate (HCO ₃)	459	ppm	7.52	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)	376	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1810	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	3.26			
Sodium	38.85	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.25			

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 20.95 me/l
 Total anions 22.78 me/l

By: Shirley Mitlan

Service Performed

Amount Due

Irrigation analysis

\$8.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-1363

Amount Enclosed \$

Signed

October 4, 1976

Mr. Ralph Johnson
Frankfort, SD 57440

Dear Mr. Johnson:

Your water sample (Lab. No. 76-1363 and 76-1364) 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

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

D. Well Information or Estimates

(1) Drill Hole, Diameter 26", Depth 75'
 (2) Casing, Type (wood, concrete, steel, etc) Diameter 26" Thickness ?
 (3) Perforated Screen
 Type Steel, Diameter 16', Length 45'
 (4) Gravel Pack, Thickness 6", Length of gravel pack 55'

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 Gravel at 18' To 30' Then real good Sand From 30 FT To about 75'

Depth to top of water bearing material 18'
 Depth to bottom of water bearing material 75'
 Thickness of water bearing material 45'
 Depth to water (ground surface to water level) 17'

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

On same owner's property 30 rds. On property owned by others 240 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.

Ralph C Johnson
 Signature of Applicant

No. 3055-3

Publish first publication, on or before October 12, 1976

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

October 7, 1976

Notice is hereby given that Ralph Johnson
whose post office address is Frankfort, 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
2.22 cubic feet of water per second of time from the ground water through the
Johnson # 1, the point of diversion of which is to be located in the

SE 1/4 SW 1/4

of Section 11, Twp. 117N, Range 62W. Said water to be used for the purpose
of providing irrigation on the following described land:

N 1/4, Section 14, T117N, R62W

This application No. 3055-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 21st day of October, 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:

Ralph Johnson, Rt. # 1, Frankfort, S. D. 57440

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

No. 3055-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Beadle) ss.

I, Dorothy Murphy hereby

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

Water was taken from the Huron Daily Plainsman

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 Huron

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

October 11, 1976

October 18, 1976

Dorothy Murphy
(Signature)

Bookkeeper
(Title)

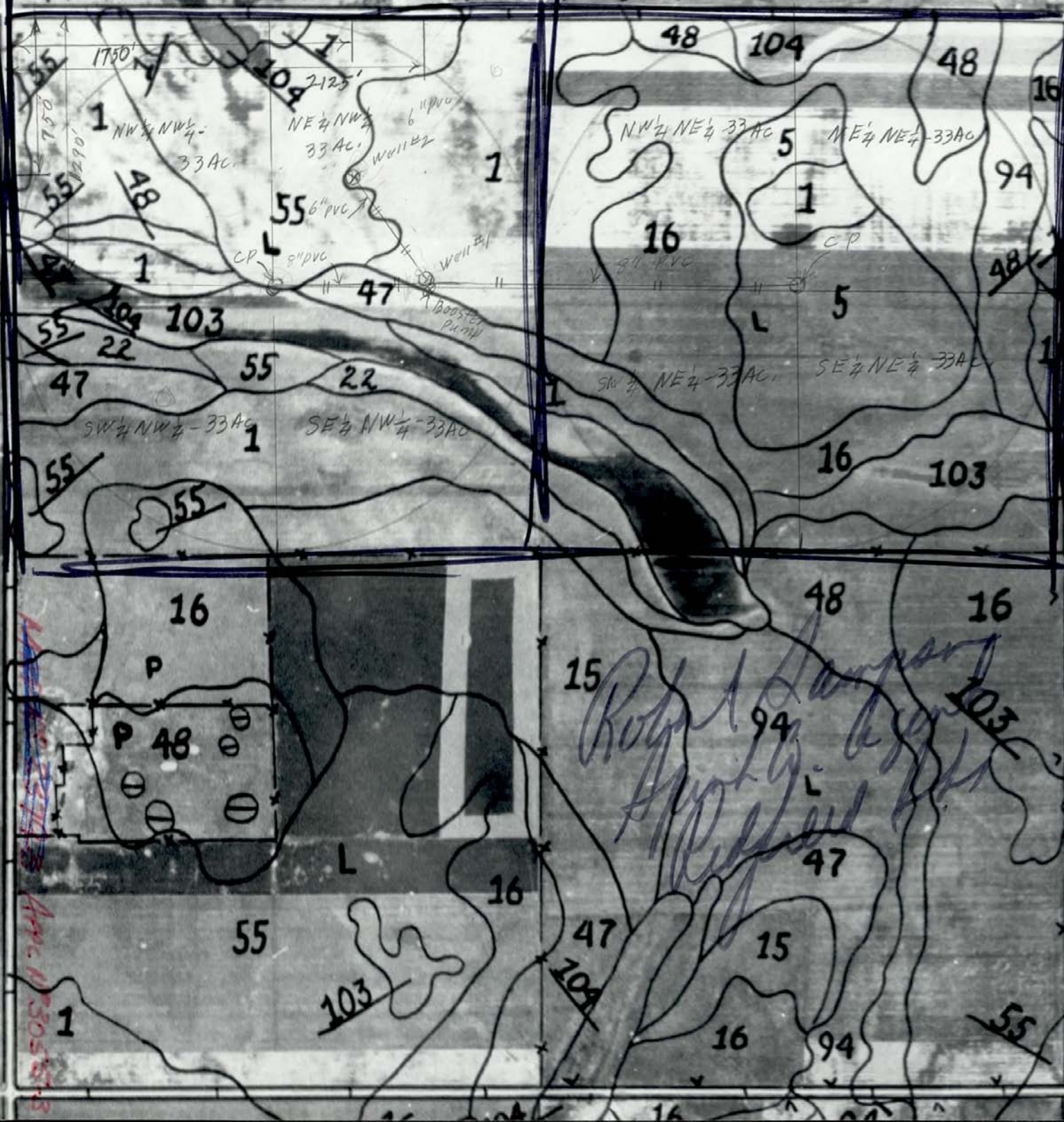
October 18, 1976

(Date Signed)

F.P. 10-11-76 L.P. 10-18-76
**NOTICE OF INTENT TO
APPROPRIATE WATER**
Pierre, South Dakota 57501
October 7, 1976
Notice is hereby given that Ralph
Johnson whose post office address is
Frankfort, South Dakota, has made
an application in accordance with
the provisions of the water laws of
South Dakota for a permit to ap-
propriate for beneficial use 2.22
cubic feet of water per second of
time from ground water through the
Johnson No. 1, the point of diversion
of which is to be located in the SE 1/4
SW 1/4 of Section 11, Twp. 117N,
Range 62W. Said water to be used for
the purpose of providing irrigation
on portions of the following
described land: N 1/2, Section 14,
T117N, R62W.
This application No. 3055-3 will be
considered by the Water Rights
Commission at their office at Pierre
upon the 21st day of October, 1976, at
1:00 P.M. All interested persons
may appear and be heard.
WATER RIGHTS COMMISSION
By: Burton F. Jones
Water Rights Specialist
No. 589 (Adv.)



Well



NOT TO SCALE

MAP-2279

4374

4.7

4.0

136.7

379-20R

4.0

14

6.0

157.5

117-62

~~117-62~~

155.0

142.9

4.7

379-20R

156.4

153.6

