

No. 40423
 Map No. 3285-3 Water Division No. 3 JAMES 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 Ralph JohnsonPostoffice address Frankfort, State Ark - 57940

If a corporation show date and place of incorporation _____

2. 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) 2.2 (1000 gallon per minute)5. Source of water supply Well6. Location of point of diversion NE 1/4 22-117-627. Annual period or periods during which water is to be used May to November8. Use to be made of water. (irrigation, industrial, municipal, commercial, recreation, etc.) irrigation9. For irrigation use, Total number of acres to be irrigated 160

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>NE 1/4 22-117-62</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 _____ years.11. Choice of newspaper for Notice of Intent to Appropriate Water publication Redfield Press

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 \$50,000.00Attachments: 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 LincolnI, Ralph 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 Ralph JohnsonSubscribed and sworn to before me this 28 day of February, 1917

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 4042-3
RALPH JOHNSON RR. #1, FRANKFORT
 (Applicant) (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 adequate domestic wells or in irrigation wells having prior water rights.

CANCELLED
 BY ACTION OF W.R.C.
 DATE 3-28-79 BY WRC
 SER # 4375-3

Date of first receipt of application MARCH 1, 19 77
 Date of return to applicant for correction, amendments or changes required _____, 19 ____
 Date of receipt of corrected application JULY 1, 19 77
 Approved JULY 27, 19 77, Recorded in Book 73 19 Page 54

WATER RIGHT PERMIT NO. 4042-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 4042-3 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 1, 19 77
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JANUARY 27, 19 78
3. The whole of said work is to be completed on or before JULY 27, 19 78
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JULY 27, 19 80
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 2.2 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 JULY 27, 19 80; said water to be used during the following described annual period: MAY - NOVEMBER

Witness my hand this 15TH day of AUGUST, 19 77

WATER RIGHTS COMMISSION

By:

John Walsh
 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 26", Depth 65'
(2) Casing, Type Plastic Diameter 15" Thickness 1/2"
(wood, concrete, steel, etc)
(3) Perforated Screen.
Type 15' Plastic 15' Steel, Diameter 15", Length 30'
(4) Gravel Pack, Thickness 6", Length of gravel pack 65'

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 Gravel & Sand 15 To 30 FT
30 to 65 FT Med & Fine Sand.

Depth to top of water bearing material 30'

Depth to bottom of water bearing material 65'

Thickness of water bearing material The "good stuff" is 35'

Depth to water (surface to water level) 15'

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

On same owner's property 80 rds. On property owned by others 220 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.

Rachel C. Johnson
Signature of Applicant

SOIL/WATER COMPATIBILITY APPLICATION FORM

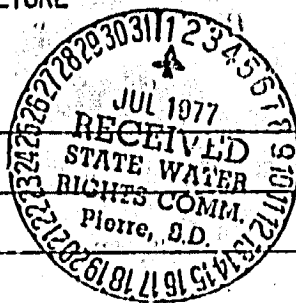
STATE CONSERVATION COMMISSION
SOUTH DAKOTA DEPARTMENT OF AGRICULTURE

IMPORTANT: Read Instructions Before Proceeding!!!

NAME Ralph Johnson

ADDRESS Franklin, S.D.

COUNTY Spink



LEGAL DESCRIPTION:

1. WELL LOCATION OR DIVERSION POINT NE 1/4 - 22 - 117 - 63

2. LOCATION OF AREA TO BE IRRIGATED NE 1/4 - 22 - 117 - 63

TYPE OF IRRIGATION:

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT ☒ GUN _____

OTHER (SPECIFY) _____

4. CROPS TO BE IRRIGATED Alfalfa + Pasture

WATER QUALITY: (To be completed by SDSU Water Quality Lab)

5. SAMPLE NUMBER 76-1367

6. SALINITY (EC X 10⁶) 18.6

7. SODIUM (SAR) 3.26

8. RESIDUAL SODIUM CARBONATE (meg/1. 0.0

I do hereby certify that a chemical analysis of the irrigation 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 further, that the legal description for the location of the well and land to be irrigated is true and correct.

SUBSCRIBED AND SWORN BEFORE ME THIS

DAY OF _____ 19 _____

(TITLE OR SEAL)

Ralph Johnson
APPLICANT'S SIGNATURE

Albert J. [Signature]
APPROVED/DISAPPROVED

Conditional approved

(SOILS INFORMATION ON REVERSE SIDE)

SOUTH DAKOTA STATE UNIVERSITY
BROOKINGS, SOUTH DAKOTA 57008

WATER RESOURCES RESEARCH INSTITUTE



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 application will be made each irrigation to completely re-saturate 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,

J. O. Fine
J. O. Fine
Water Quality Lab.

LOP:ckb

Enclosures

cc: State Conservation Commission

Mr. Jones

*I spoke to you about this on Friday
The 18th in your office in Pierre. Thank
you for your help.*

Ralph Johnson

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

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

Date Rec'd September 15, 1976
 Sample No. 76-1363
 Identification Well-
NW 1, 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		g.p.g.***
Hardness (EDTA as CaCO ₃)		ppm		
Alkalinity (Methyl Orange)	376	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1816	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	3.26			
Sodium	38.8%	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.25			

Others:

*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 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. 76-1363

Amount Enclosed \$

Signed

No. 4042-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Spink) ss.

I, Roberta A. Jacklock hereby

certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Redfield Press

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 Redfield

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

July 14, 1977

July 21, 1977

Roberta A. Jacklock
(Signature)

Clark
(Title)

July 21, 1977
(Date Signed)

No. 83

No. 4042-3

NOTICE OF HEARING
ON APPLICATION TO
APPROPRIATE WATER

Pierre, South Dakota 57501

July 6, 1977
Notice is hereby given that
Ralph Johnson whose post office

address is Frankfort, South
D. Kota, has made an application
in accordance with the provisions
of SDCL 46-1-1 thru 46-1-8; 46-2-9
thru 46-2-11, 46-2-13; 46-5-1 thru 46-
5-8, 46-5-10 thru 46-5-22, 46-5-41, 46-
6-3, 46-6-5, 46-6-8.1, 46-6-10, 46-6-14
and Commission Rules ARSD
52:01:01:01 thru 52:01:01:13, for a
permit to appropriate for
beneficial use 2.2 cubic feet of
water per second of time from
ground water through the R.
Johnson No. 1, the point of
diversion of which is to be located
in the NE4 NE4 of Section 22,
Twp. 117N, Range 62 W. Said
water to be used for the purpose
of providing irrigation on por-
tions of the following described
land:

NE4, Section 22, T117N, R62W
This Application No. 4042-3 will
be considered by the Water
Rights Commission at the
Staurolite Inn, Brookings, SD
upon the 27th day of July, 1977, at
10 A. M. The Commission is
authorized to make a deter-
mination on this application at
the hearing. All interested per-
sons may appear and be heard.
Any person who may be affected
by a Commission decision who
desires to present evidence or
cross-examine witnesses ac-
cording to SDCL 1-26 may notify
the Commission in writing prior
to the hearing or orally at the
hearing.

WATER RIGHTS

COMMISSION

JAMES WINTERTON

Water Rights

Specialist

cc: Ralph Johnson, Frankfort,
SD 57440

(July 14, 21)



Publish first publication, on or before July 14, 1977

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Pierre, South Dakota 57501

July 6, 1977

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 SDCL 46-1-1 thru 46-1-8; 46-2-9 thru 46-2-11, 46-2-13; 46-5-1 thru 46-5-8, 46-5-10 thru 46-5-22, 46-5-41, ~~Future Use 46-5-30, Temporary Permit 46-5-39, 46-5-40; Ground Water 46-6-3, 46-6-5, 46-6-6.1, 46-6-10, 46-6-14 and Commission Rules ARSD 52:01:01:01 thru 52:01:01:13, Future Use 52:01:01:21 thru 52:01:01:24~~, for a permit to appropriate for beneficial use 2.2 cubic feet

of water per second of time from the ground water through the R. Johnson #1

, the point of diversion of which is to be located in the NE4 NE4

of Section 22, Twp. 117N, Range 62W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

NE4, Section 22, T117N, R62W

This Application No. 4042-3 will be considered by the Water Rights Commission at ~~their office in Pierre~~ the Staurolite Inn, Brookings, SD upon the 27th day of July, 1977, at 10 A.M. The Commission is authorized to make a determination on this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Commission decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Commission in writing prior to the hearing or orally at the hearing.

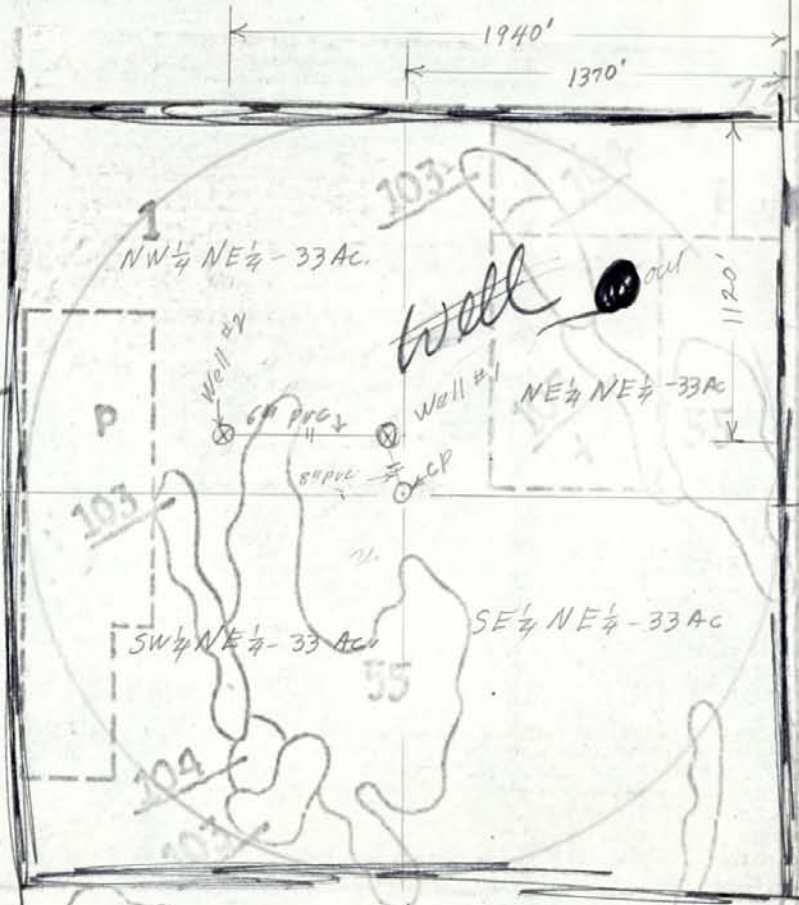
WATER RIGHTS COMMISSION

JAMES WINTERTON

Water Rights Specialist

cc: Ralph Johnson, Frankfort, SD 57440

For Alfalfa
+ Pasture Only.



Robert A. Thompson
Spencer Co. Ind. Agent
Redfield, Idaho.
5/14/69

APPL. 4375-3

HARMONY T117N R62W S22

Nothing

42'

Fine Surf

18-181

~~bolg...~~

~~dist...~~

~~2.4 fath...~~

126.3

155.4

39.60

94.9

112B

29.0

Bay

at

39.00

155.4

134.5

36.0

15'

25'

65.9

Nothing

Nothing

Wht

14

Wht 35.0

157.5

27.3

142.9

117-62

156.4

112B

155.0

~~Map # 3253~~
w/r 4042-3

18-181

117-62

154.0

36.4

95C

59.5

59.4

11

39.60

39.80
39.60

28.4

44.3

80.4

28.40

41.0

nc

117-62

*Let's see
grain*

*35.60
grain*

117-62

39.20

157.8

47.7

112B

39.80

51.2

alp 30.2

22

Set And

alp 21.0

39.40

312.6

117-62

79.20