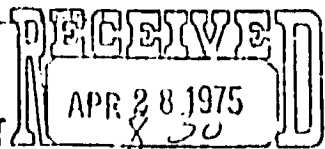


Water Right Number 2276-3

1. Considered MAY 21, 19 75
2. Name of Applicant SPINK HUTTERIAN BRETHREN, INC.
3. Post Office Address FRANKFORT
4. Amount of Water claimed 2.22 120'
5. Source of Water supply GROUND WATER 120' WELL
6. Water to be used for IRRIGATION
- Acres to be irrigated 160
7. Water to be diverted and used in SPINK County
about 10 S 3E miles of FRANKFORT
8. Proof of Publication Received 5-20-75
Not Received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action Deferred _____
10. Remarks:

Map No. 11667-3 Water Division No. 3 JAMES RIVER
(Blanks to be filled by the Engineer for the W. R. C.)



APPLICATION FOR PERMIT

STATE WATER RIGHTS COMM
PIERRE, SOUTH DAKOTA

To Appropriate Water within the State of South Dakota

- Name of Applicant Spink Colony
Frankfort State Ark. 57440
If a corporation show date and place of incorporation _____
- Method of accomplishing work (contract, employment, others, or by direct labor) direct labor
- Name of diversion work well
- Amount of water claimed (cubic feet per second) 1000 gallon per minute
- Source of water supply well
- Location of point of diversion N.W. 1/4 36-115-62
S23°0.3'W, 135 FEET FROM THE N1/4 CORNER SECTION 36,
T115N, R62W County Spink
- Annual period or periods during which water is to be used June to Oct 1st
- Use to be made of water. (Irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation
- For irrigation use, Total number of acres to be irrigated _____

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>N.W. 1/4-36-115-62</u>	<u>160</u>		

Attach sheet if more space is needed

- Time required to complete construction of water supply system 1 years. Additional time required to complete application of water to the proposed beneficial use 1 year.
- Choice of newspaper for Notice of Intent to Appropriate Water publication Redfield Press
DAN HAINSWAN, HURON
- 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 \$ 35,000

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 Spink

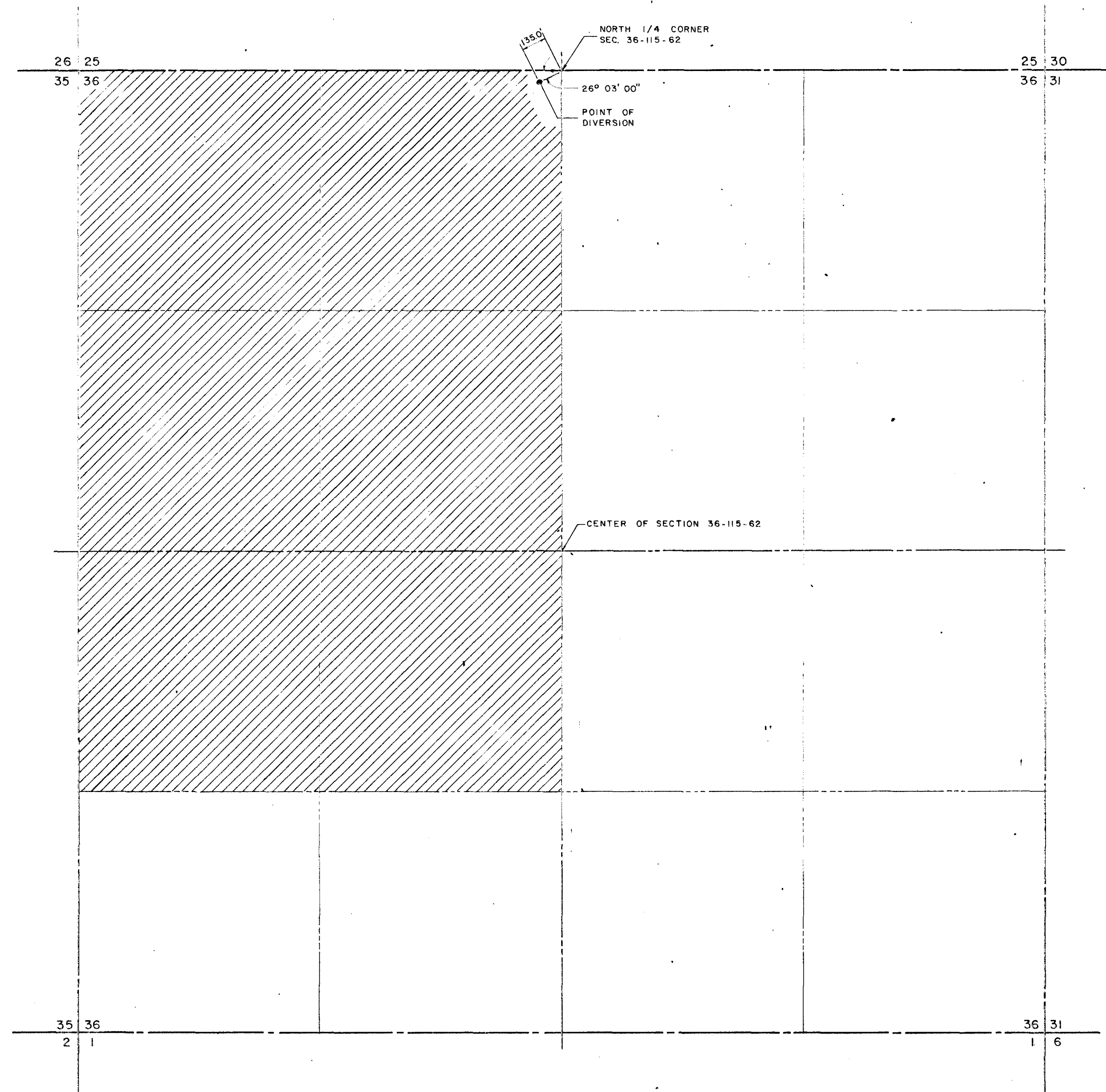
I, _____ the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed John J. Wiff-Treas

Subscribed and sworn to before me this 25 day of April, 1975

Edwards Reed
Notary Public (or other qualified officer)

SPINK COLONY IRRIGATION PROJECT NO. 3



SCHOELL & MADSON INC.
ENGINEERS & SURVEYORS
HURON, SOUTH DAKOTA

MAP

SHOWING AREAS TO BE IRRIGATED AND THE LOCATION OF THE PROPOSED WELL FROM WHICH WATER IS PROPOSED TO BE DIVERTED - FOR PERMIT TO APPROPRIATE WATER.

AREA BY LEGAL SUBDIVISION:

Section 36, Township 115 North, Range 62 West of the 5th Principal Meridian,
Spink County, South Dakota -

The Northwest $\frac{1}{4}$	160 acres
The North $\frac{1}{2}$ of the Southwest $\frac{1}{4}$	80 acres
TOTAL ACREAGE	240 acres

STATE OF SOUTH DAKOTA)
COUNTY OF BEADLE) SS

I, Jack T. Vosler, a registered and licensed land surveyor, in and for the State of South Dakota, do hereby certify that at the request of the owner, I have shown the lands proposed to be irrigated by diverting water from a proposed well within their ownership, for which application to appropriate water is made, and that this map is a true representation thereof. In witness whereof I place my hand and seal this 6th day of May, A.D., 1975.

Jack T. Vosler
Jack T. Vosler, Land Surveyor - So. Dak. Reg. No. 956

STATE OF SOUTH DAKOTA)
COUNTY OF BEADLE) SS

On this 6th day of May, A.D., 1975, before me, a notary public, personally appeared Jack T. Vosler, known to me to be a registered land surveyor and the person who executed the foregoing instrument, and he acknowledged to me that he executed the same as his own free act and deed.

Ronald L. Hamilton
Notary Public, Beadle County, South Dakota *July 30, 1980*
My Commission Expires

WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 2276-3
SPINK LUTTERIAN BRETHERN, INC. 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 existing domestic wells or in irrigation wells having prior water rights.

Date of first receipt of application APRIL 28 19 75
 Date of return to applicant for correction, amendments or changes required APRIL 30 19 75
 Date of receipt of corrected application MAY 9 19 75
 Approved MAY 22 19 75 Recorded in Book 13 Page 312

WATER RIGHT PERMIT NO. 2276-3

The Water Resources Commission hereby grants and issues this Water Right Permit No. 2276-3 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 APRIL 28 19 75
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before NOVEMBER 22 19 75
3. The whole of said work is to be completed on or before MAY 22 19 76
4. The term of time from proof of beneficial use of water appropriated in accordance herewith is MAY 22 19 77
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 MAY 22 19 77; said water to be used during the following described annual period: JUNE TO OCTOBER 1

Witness my hand this 29TH day of MAY 19 75

WATER RESOURCES COMMISSION

By: Ken W. Butler
 Acting Chief Engineer, Executive Officer

Certificate of Construction Issued _____ 19 _____

Water License Issued _____ 19 _____

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 26 in, Depth 100 ft
(2) Casing, Type Steel Diameter 16 in Thickness 10 gauge
(wood, concrete, steel, etc)
(3) Perforated Screen.
Type Stainless Steel, Diameter 16 in, Length 50 ft
(4) Gravel Pack. Thickness 10 in, Length of gravel pack 50 ft

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 feet

Depth to top of water bearing material 50 ft

Depth to bottom of water bearing material 50 ft

Thickness of water bearing material 10 ft

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

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

On same owner's property 370 ds. On property owned by others 370 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.

Spinks Hutterian Buth, Inc.
John D. Hiff Treas.
Signature of Applicant

2276-3

Publish first publication, on or before May 9, 1975NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

May 5, 1975Notice is hereby given that Spink Hutterian Brethern, Inc.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 use2.22 cubic feet of water per second of time from the ground water through theSpink Colony Well the point of diversion of which is to be located in theNE 1/4 NW 1/4of Section 36, Twp. 115N, Range 62W. Said water to be used for the purpose of providing irrigation on the following described land:NW 1/4, Section 36, T115N, R62W

This application No. 2276-3 will be considered by the Water Resources Commission at their office at Pierre upon the 21st day of May, 1975, at 2:30 P. M. All interested persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFL/bw

cc: John J. Wipf, Treasurer, Spink Hutterian Brethern, Inc. Frankfort, SD 57440

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:

May 8, 1975

May 15, 1975

Dorothy Murphy
(Signature)

Bookkeeper
(Title)

May 15, 1975

(Date Signed)

F.P. 58-75 L.P. 515-75
NOTICE INTENT TO
APPROPRIATE WATER

May 5, 1975

Notice is hereby given that Spink
Mullerian Brethren, Inc. whose post
office address is Frankfort, South
Dakota, has filed 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 ground water
through the Spink Colony Well, the
point of diversion of which is to be
located in the NE 1/4 NW 1/4 of Section
36, Twp. 115N, Range 42W. Said
water to be used for the purpose of
providing irrigation on the following
described land: NW 1/4, Section 36,
T115N, R62W.

This application No. 2276-3 will be
considered by the Water Resources
Commission at their office at Pierre
upon the 21st day of May, 1975, at
2:30 P.M. All interested persons
may appear and be heard.

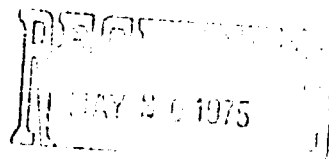
WATER RESOURCES

COMMISSION

By BURTON F. JONES

Water Rights Specialist

No. 214 (adv.)



Conservation
Commission
Form WI 01

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: ALB & HIX

Disapproved: _____

NAME: Spink Colony

ADDRESS: Frankfort S.D. 57440

COUNTY: Spink

LEGAL DESCRIPTION

1. WELL LOCATION: NW 36 - 115-62

2. AREA TO BE IRRIGATED: NW 36

TYPE OF IRRIGATION

3. GRAVITY _____ SPRINKLER (Indicate Type): Sprinkler

4. CROPS TO BE IRRIGATED: Corn - Alfalfa

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: (67) 3-5% (undulating) ^{(8) - nearly level (0-2%)}

6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: (67) Heudok and Bonilla loams, undulating - III ^{(8) Brackish silt loam, non-saline}
substratum, nearly level - II [Spink Co Soil Survey - 60P]

WATER QUALITY (To Be Completed by Commission)

7. SAMPLE NO: 75-248

8. SALINITY: EC = 1014 micromhos/cm (high)

9. SODIUM: SAR = 1.75 (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

NW 36 1954 Spink Co. Soil Survey - L. O. Fine

and:

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

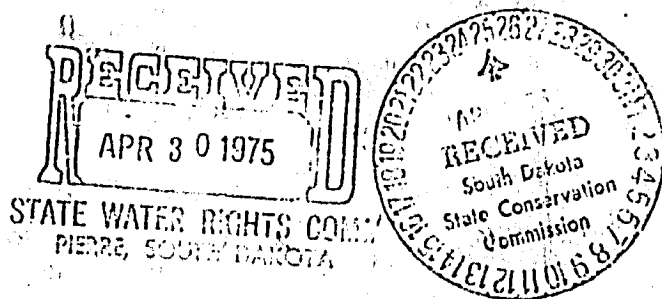
John J. Wipf

Subscribed and sworn before me this

11 day of April 1975.

Garry Peterson

(Title)



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

Submitted by: Spink Colony
 Address: Frankfort, SD 57440

Date Rec'd April 11, 1975
 Sample No. 75-248
 Identification L Well-130'
104, Sec. 36, T 115N, R 62W

WATER ANALYSIS

Calcium (Ca)	110	ppm*	5.50	me/l**
Magnesium (Mg)	32	ppm	2.62	me/l
Sodium (Na)	81	ppm	3.52	me/l
Potassium (K)	14	ppm	0.36	me/l
Sulfate (SO ₄)	164	ppm	3.40	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	25	ppm	0.70	me/l
Bicarbonate (HCO ₃)	454	ppm	7.44	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)	372	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1014	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	1.75			
Sodium	29.33	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.48			
Others:				

*ppm=parts per million

**me/l=milliequivalents per liter

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

COMMENTS: Total cations 12.00 me/l
 Total anions 11.54 me/l

By: Shirley Witten

Service Performed

Amount Due

Irrigation analysis

\$6.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 75-248

Amount Enclosed \$

Signed

No. 2276-3A

SOUTH DAKOTA
Department of
Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

WATER RIGHTS DIVISION
Phone (605) 773-3352

March 31, 1983

Spink Hutterian Brethren, Inc.
& John Wipf
Frankfort SD 57440

Dear Mr. Wipf:

Enclosed herewith is, Water License No. 2276-3A. 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: ks

Enclosures

NOTE: The applicable portions of Permit No. 2276-3 have been incorporated into this Water License No. 2276-3A.

WNR-817 3/83
Transmittal of Water License

Department of Agriculture
WDR1
6-87

SOIL-WATER COMPATIBILITY PERMIT
Division of Conservation

Office Use Only

4750-A

WP#

OWNERS NAME _____ OWNERS ADDRESS: GENERAL DELIVERY

PIERRE SD 57445

COUNTY (AND LOCATED IN) _____ PHONE: 672-1459

LEGAL DESCRIPTION
LOCATION _____

☒ Well

☐ Surface

Depth _____

Legal Description	Acres	Legal Description	Acres

TYPE OF IRRIGATION: GRAVITY _____ TOWLINE _____ CENTER PIVOT _____ GUN _____ OTHER: (Specify) SPRINKLER

CROPS TO BE IRRIGATED _____

WATER QUALITY

A. WATER SAMPLE NUMBER _____ 7. ADJUSTED (SAR) _____
B. SALINITY (EC) TO _____ 8. PERCENT SODIUM _____
C. SODIUM (SAR) _____

Requirements:



Russell J. Stone
Director, Division of Conservation

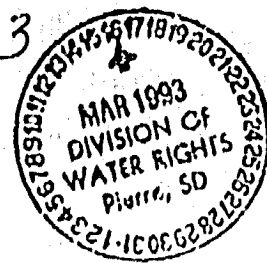
XXX APPROVED
XXX DISAPPROVED
XXX WAIVER

XXX REQUIREMENTS

MARCH 24, 1993
Date

Soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.

2276-3



Spink Colony Irrigation Management Plan 2 April, 1991

For submission to the South Dakota Conservation Commission

In the early 1970's we began irrigating. We have always been aware of the possibilities for sodium and salinity problems. Over the years we have observed negative impacts from salinity and sodium problems. We have experimented with several different practices to improve our salt problems. More recently We have been working with Shawn Thelen, an agronomist with the Wheat Growers, and we have been talking with Gregg Carlson, SDSU Extension Service, about irrigation management practices that will minimize our sodium and salinity problems. Because the irrigation water that we use is of marginal quality, we understand the importance of the use of good management for the maintenance of productivity.

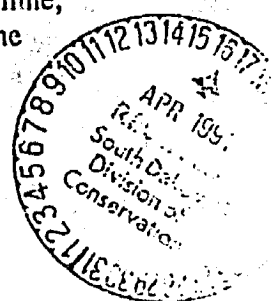
The irrigation water that we are using has an SAR of 10-20. Recent soil tests have shown ESP's within the surface soil of, from as low as 3 to as much as about 15. The following are specific management practices, some of which we have used in the past and some planned for the future, that we believe will assure the maintenance of productivity on the land in question.

1). To assure adequate leaching we apply at least an inch and at times, as much as two inches (if possible without getting stuck or having excess runoff) of water each revolution of the pivot. This assures relatively deep percolation within the root zone and the continued leaching through the root zone.

2). The maintenance of high concentrations of organic matter at the soil surface is an important part of maintaining surface soil structure. This last year we purchased a manure spreader truck so that we will be able to haul manure the 4 or 5 miles to our irrigated fields. It is our plan to apply 6 to 8 ton/acre of manure ever 4 years to these fields. We plan to use tillage practices that will maintain high organic matter close to the surface to minimize the impact of sodium. Shawn and I have been discussing the possibility of using notill farming practices to increase organic matter at the surface and to minimize soil disturbance that can aggravate the sodium problem. Notill farming should also eliminate water being held within the plow layer. There is evidence to suggest that tillage can break the transmitting macropore structure at the bottom of the plow layer. It is our plan to rotate small grain and alfalfa through some of our irrigated fields. On those fields that we grow corn on corn, we leave all corn stalks in the field.

3). Shawn, Dr. Carlson, and I have discussed the possibility of using beet lime, gypsum, and elemental sulfur as soil amendments. We have been applying beet lime and elemental sulfur in an attempt to resolve our problems.

4). It is our intention to work with the Wheat Growers, SDSU, and the



2276

57.0

199.5
NW⁴NW⁴ 38 AC.

NE⁴NW⁴ 33 AC

NE⁴NE⁴
9 AC

SE⁴NE⁴
14 AC

SW⁴NW⁴ 40 AC

SE⁴NW⁴ 39 AC

NE⁴SE⁴
1 AC.

NW⁴SW⁴ 15 AC

NE⁴SW⁴ 11 AC

56.0

SECTION 35
SECTION 36

NC

150'

7.5'

80'

2070'
10" BURIED PVC

579-80L

NC

36

CENTER SECTION 36, T115N, R62W

NC

115-62