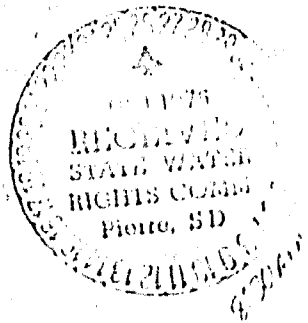


Water Right Number 327.3-3

1. Considered 2-23, 1977
2. Name of Applicant SPINK COLONY
3. Post Office Address FRANKFORT
4. Amount of Water claimed 2.0
5. Source of Water supply 105' WELL
6. Water to be used for IRRIGATION
Acres to be irrigated 160
7. Water to be diverted and used in SPINK County
about 11 S, 2 1/2 E miles of FRANKFORT
8. Proof of Publication
Received 2-16-77
Not Received _____
9. Application
Approved _____
Subject to _____
Not Approved _____
Action Deferred _____
10. Remarks:

No. 3273-3
 Map No. 2560-3 Water Division No. 3 JAMES RIVER District _____
 (Blanks to be filled by the Engineer for the W. H. 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 Spink Colony
 Postoffice address Frankfort, State S.D.
 If a corporation show date and place of incorporation S.D.
2. Method of accomplishing work (contract, employment of others, or by direct labor) direct labor
3. Name of diversion work well SPINK COLONY #11
4. Amount of water claimed (cubic feet per second) 2 CFS
5. Source of water supply aquifer
6. Location of point of diversion center of SW 1/4 of S 35 R 62 W
T 115 N
- County Spink
7. Annual period or periods during which water is to be used April - Nov.
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 160A

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 of SW 1/4 of S 35</u>	<u>4.0</u>		
<u>SW 1/4</u>	<u>4.0</u>		
<u>SW 1/4 R 62 W T 115 N</u>	<u>4.0</u>		
<u>SE 1/4</u>	<u>4.0</u>		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 3 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 Huron Daily Plainsman
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.

center pivotEstimated 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 Spink

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

Signed

John G. Hylle

Subscribed and sworn to before me this

25

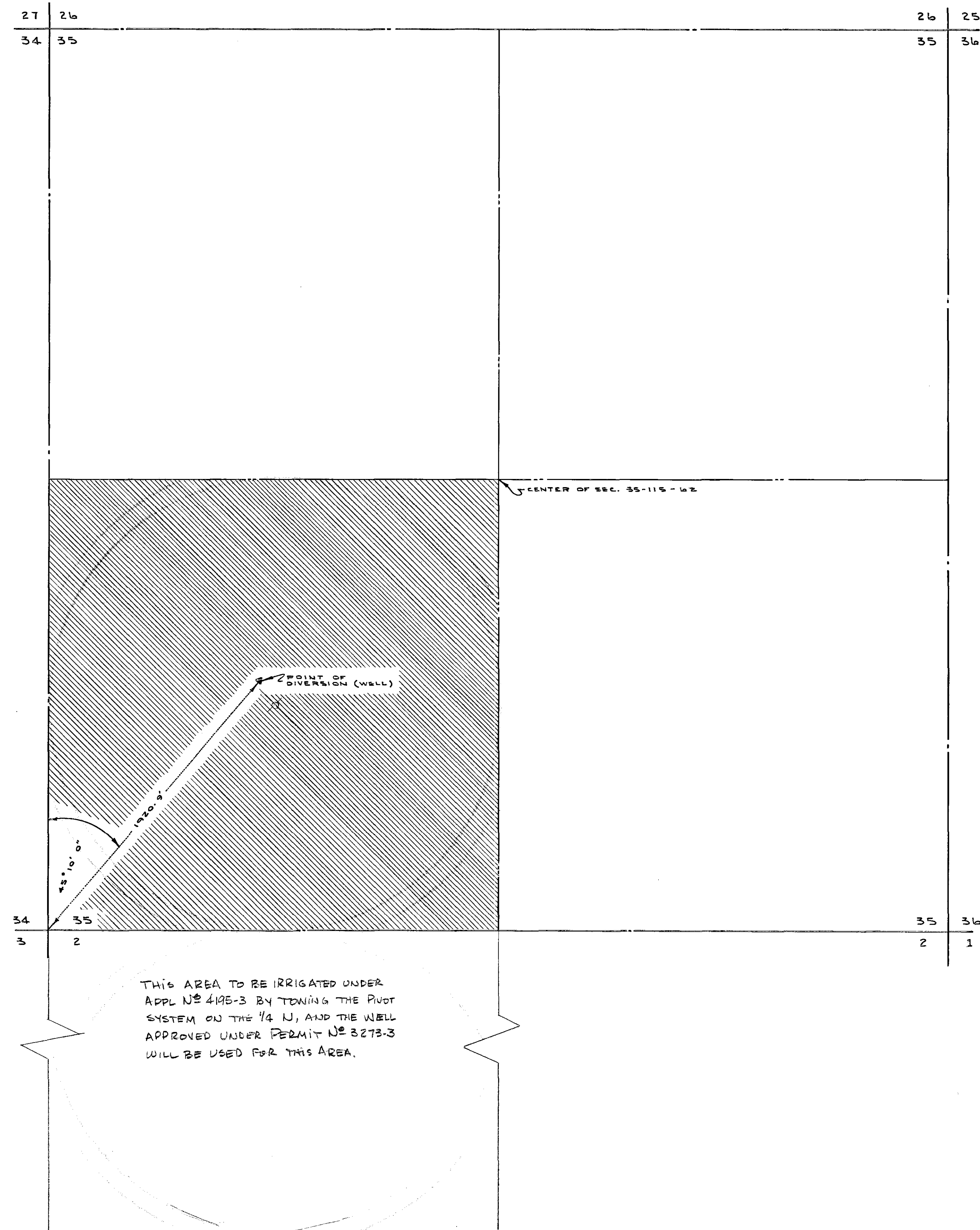
day of

October 1976

Notary Public (or other qualified officer)

My Commission Expires May 12, 1978

SPINK COLONY IRRIGATION PROJECT NO. 6



MAP

SHOWING AREAS TO BE IRRIGATED AND POINT OF DIVERSION FROM THE WELL WHERE WATER WILL BE DIVERTED - FOR PERMIT TO APPROPRIATE WATER.

AREA BY LEGAL SUBDIVISION:

Section 35, Township 115 North, Range 62 West of the 5th Principal Meridian, Spink County, South Dakota - The Southwest 1/4 160 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 a well within its 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 5th day of November, A.D., 1976.

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

STATE OF SOUTH DAKOTA)
COUNTY OF BEADLE) SS

On this 5th day of November, A.D., 1976, 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.

Donald J. Hagala
Notary Public, Beadle County, South Dakota *Jul 30, 1980*
My commission expires

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3273-3
SPINK COLONY 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.

Date of first receipt of application OCTOBER 26, 1976
 Date of return to applicant for correction, amendments or changes required _____
 Date of receipt of corrected application NOVEMBER 10, 1976
 Approved MARCH 23, 1977, Recorded in Book 18 Page 87

WATER RIGHT PERMIT NO. 3273.3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3273-3 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 OCTOBER 26, 1976
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 23, 1978
3. The whole of said work is to be completed on or before MARCH 23, 1980
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 23, 1982
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 2.0 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, 1982; said water to be used during the following described annual period: APRIL - NOVEMBER

Witness my hand this 25TH day of APRIL, 1977

WATER RIGHTS COMMISSION

By:

John H. Hild
 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 2 1/2", Depth 10 1/2'

(2) Casing, Type Steel Diameter 16" Thickness 2"
(wood, concrete, steel, etc)

(3) Perforated Screen.

Type Stainless Steel, Diameter 1/4", Length 17 gauge

(4) Gravel Pack, Thickness 1.5", Length of gravel pack 1.5"

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 Coarse sand

Depth to top of water bearing material ~~20' to 25'~~ 20'

Depth to bottom of water bearing material 10.5'

Thickness of water bearing material 86'

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

Distance to nearest existing household or livestock watering wells.

On same owner's property 1 1/2 mi ~~ms~~. On property owned by others 1 3/4 mi ~~ms~~.

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.

Spint Colony
John J. Hoff
Signature of Applicant

#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 Spink Colony
ADDRESS Grandview H. Lab 59440
COUNTY Spink

LEGAL DESCRIPTION

1. WELL LOCATION S.W. 35 115-62
2. LOCATION OF AREA TO BE IRRIGATED S.W. 1/4 35

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT X GUN _____
4. CROPS TO BE IRRIGATED Alfalfa - Corn

WATER QUALITY

5. SAMPLE NUMBER 76-1690
6. SALINITY (EC X 10⁶) 2045 (high)
7. SODIUM (SAR) 2.14 (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 Spink 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.

George J. Waller
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
5th DAY OF Oct 19 76.

Randy Jacobson
(TITLE OR SEAL)

Approval does not imply that this project can be carried out under all circumstances. Individual management will, to a large degree, determine the relative success of this venture.

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: Spink Colony
 Address: Frankfort, SD 57440

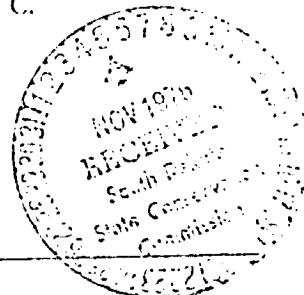
Date Rec'd October 25, 1976
 Sample No. 76-1690
 Identification Well-95'
SW 1/4, Sec. 35, T 115N, R 62W

WATER ANALYSIS

Calcium (Ca)	271	ppm*	13.55	me/l**
Magnesium (Mg)	72	ppm	5.90	me/l
Sodium (Na)	153	ppm	6.66	me/l
Potassium (K)	19	ppm	0.49	me/l
Sulfate (SO ₄)	690	ppm	14.35	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	43	ppm	1.20	me/l
Bicarbonate (HCO ₃)	642	ppm	10.52	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)	525	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	2045	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	2.14			
Sodium	25.05	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.05			

*ppm==parts per million
 **me/l==millequivalents per liter

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



COMMENTS: Total cations 26.60 me/l
 Total anions 26.07 me/l

By: Shirley Mitten

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. 76-1690

Amount Enclosed \$

Signed

November 2, 1976



Spink Colony
Frankfort, SD 57440

Dear Sir:

Your water sample (Lab. No. 76-1693, 76-1690) 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

Form 6 - Notice of Intent to Appropriate Water

No. 3273-3

Publish first publication, on or before February 10, 19 77

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

February 3, 1977

Notice is hereby given that Spink Colony

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

2.0 cubic feet of water per second of time from ~~the~~ ground water through the

Spink Colony # 11, the point of diversion of which is to be located in the

Center of SW 1/4

of Section 35, Twp. 115N, Range 62W. Said water to be used for the purpose of providing irrigation on ^{portions of} the following described land:

SW 1/4, Section 35-T115N-R62W

This application No. 3273-3 will be considered by the Water Rights Commission at their office at Pierre upon the 23 day of February, 19 77, at 10:00 A. M. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw

cc:

Spink Colony, Frankfort, South Dakota 57440

No. 3273-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County _____) ss.

I, Brenda Haskett 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:

2-8-77 2-15-77

Brenda Haskett
(Signature)

Bookkeeper

(Title)

2-15-77

(Date Signed)

P. 2877-3-15-77
NOTICE INTENT TO
APPROPRIATE WATER
Pierre, South Dakota 57501
February 3, 1977
Notice is hereby given that Spink
Colony 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
2.0 cubic feet of water per second
of time from ground water through
the Spink Colony No. 11, the point
of diversion of which is to be
located in the center of SW 1/4 of
Section 35, Twp. 115N, Range 67W.
Said water to be used for the
purpose of providing irrigation on
portions of the following described
land: SW 1/4, Section 35, T115N,
R67W.
This application No. 3273-3 will
be considered by the Water Rights
Commission at their office at
Pierre upon the 23 day of
February, 1977, at 10:00 A.M. All
interested persons may appear
and be heard.
WATER RIGHTS COMMISSION
BURTON F. JONES
Water Rights Specialist
No. 100 (adv.)



SOUTH DAKOTA

No. 4195-3

**South Dakota Department of
Water & Natural Resources**

Joe Foss Building
823 East Capitol
Pierre, South Dakota 57501

WATER RIGHTS DIVISION
Phone (605) 773-3352

March 30, 1983

Spink Hutterian Brethron, Inc.
John J Wipf
Frankfort SD 57440

Dear Mr. Wipf:

Enclosed herewith is, Water License No. 4195-3. 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
JOHN HATCH, Chief Engineer
Water Rights Division

JH:ks

Enclosures

NOTE: The applicable portions of Permit No. 3273-3 have been incorporated into this Water License No. 4195-3.

WNR-817 3/83

Transmittal of Water License

3273-3

Department of Agriculture

SOIL-WATER COMPATIBILITY PERMIT
Division of Conservation

Office Use Only

4753-A

WRH

OWNER'S NAME: _____ OWNER'S ADDRESS: GENERAL DELIVERY

FRANKFORD SD 57440

COUNTY AND LOCALITY IN _____ PHONE 505-1164

LEGAL DESCRIPTION _____ ☒ Well ☐ Surface

Depth _____

Legal Description	Acres	Legal Description	Acres

TYPE OF IRRIGATION: GRAVITY _____ TOW LINE _____ CENTER PIVOT _____ GUN _____ OTHER: _____ (Specify)

CROPS TO BE IRRIGATED _____

WATER QUALITY	
1. WATER SAMPLE NUMBER _____	7. ADJUSTED (SAR) _____
2. pH _____	8. PERCENT SODIUM _____
3. SODIUM (Na) _____	

Requirements.



Russell L. Stone
Director, Division of Conservation

☒ APPROVED ☐ REQUIREMENTS
☐ DISAPPROVED
☐ WAIVER

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

Date _____

3273-3

Spink Colony Irrigation Management Plan 2 April, 1991

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.

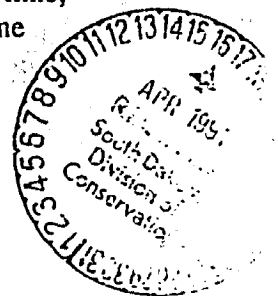
The irrigation water that we are using has an SAR of 10-20. Recent Soil tests have shown ESP's within the surface soil of, from as low as 3 to as much as about 15. The following are specific management practices, some of which we have used in the past and some planned for the future, that we believe 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 no-till farming practices to increase organic matter at the surface and to minimize soil disturbance that can aggravate the sodium problem. No-till 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



Department of Agriculture to continue to monitor the problems that we have and to look at alternative solutions. We plan take advantage of any new breakthroughs in Sodium management that are developed.

Paul Wipf
Paul Wipf

Spink Colony
Frankfort, South Dakota

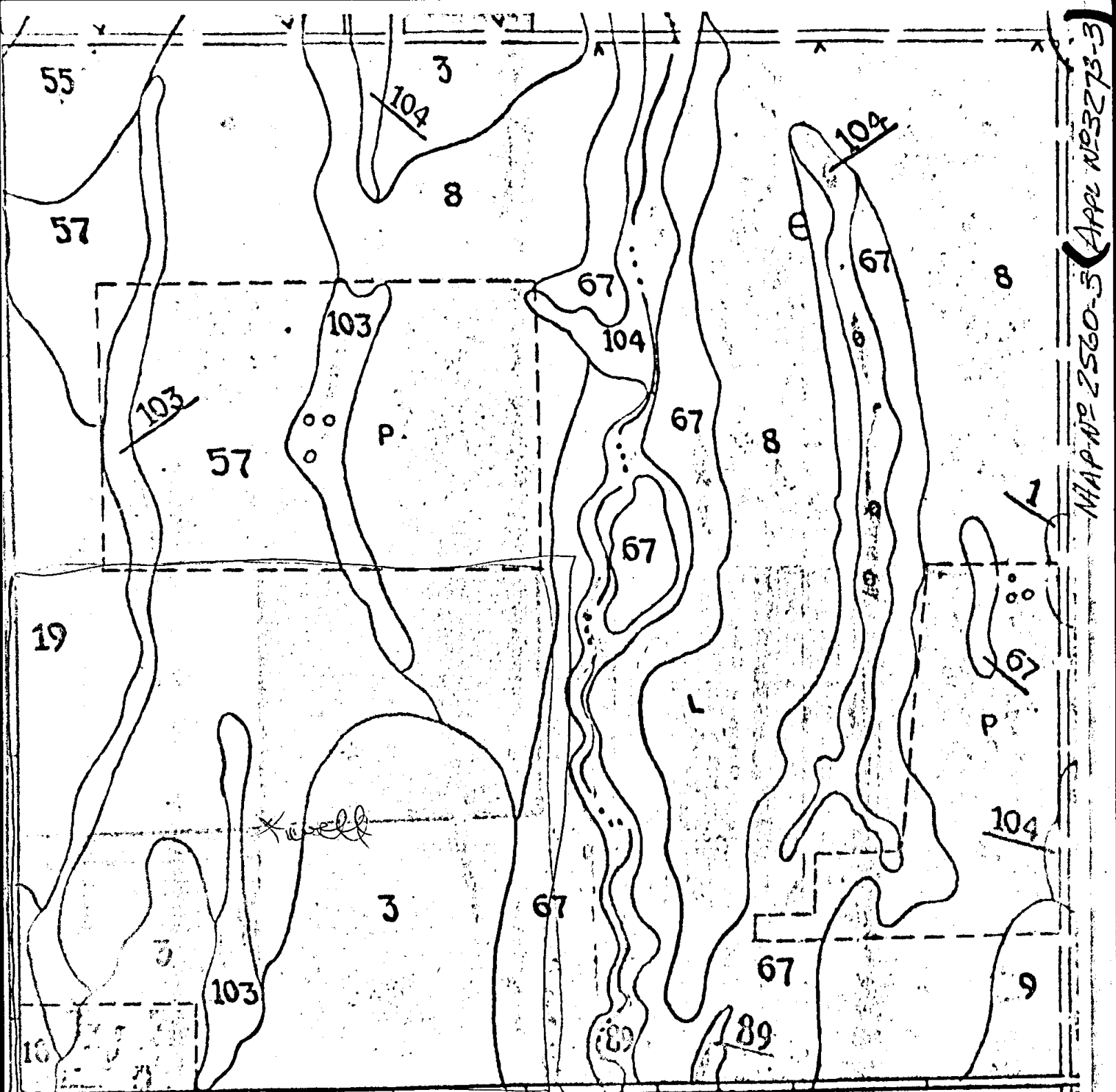
57440
472-1269

copy to

Shawn Thellin
P.O. Box 126, Main Street
Tulare, South Dakota

57476

596-4114(work) or 472-2410



LINCOLN

T115N

R62W

535

*P and Stout
Co. Agt.*

MAP NO 2560-5 (APP NO 3273-3)