

Shaw
10/60006

Water Right No. 4819-3

1. Considered: 12-2-1981
2. Name of Applicant RONALD FRANKENSTEIN
3. Post Office Address RR 2, Box 58, REDFIELD 57469
4. Amount of Water Claimed 2.28 maximum acre feet
5. Source of Water Supply 45' WELLS (4 WELLS)
6. Water to be used for IRR acr to be irrigated 160
7. County SPINK about 75.34 miles of FRANKFORT
8. PROOF OF PUBLICATION: Received 12-7-81 Not Received
APPLICATION: Approved 2-3-82 Subject to WIT - 10
Not Approved Action Deferred

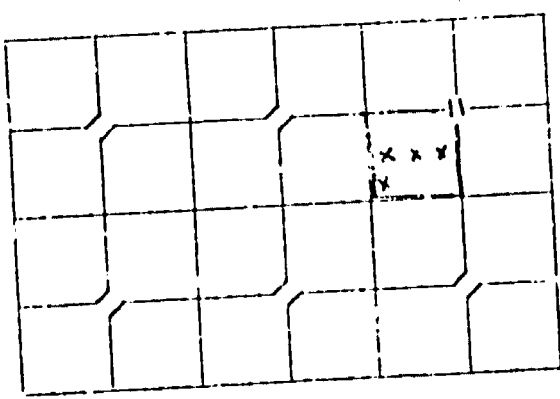
PRIORITY

Dated Received 8-27-81 Application complete-yes no FEE 2.50⁰⁰
Remarks Need 2A completed

WATER
QUALITY

Corrected Application received 9-4-81 Period of Annual Use 3/1 - 11/30
Received 11/6/81 no APPROVED/CONDITIONAL (Circle one)
W-1 Description same as application-yes no Remarks

Disapproved Returned



Division Point: S SW⁴ SW⁴;
approx center of SW⁴; approx
center W¹/₂ SW⁴ and approx center
E¹/₂ SW⁴ all in Sec 11 - 115-63
Land to be irrigated
SW⁴ 11-115-63

WELL LOG

Driller Huron Dr. Licensed (yes) no
Depth 45' well
Remarks 4 wells

2/2/82
[Handwritten notes and stamps]

MAP Map No. 4028-3 Map located in Water Right X Map file _____
 Type of Map Aerial Prepared by ASCS

+++++

REVIEWED This Application was received within 30 days of the date received, accepted as complete, Number assigned and written up for advertisement before the Board on:

11/6/81

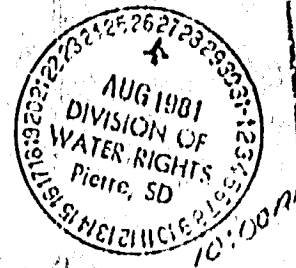
Betty McMillan
 (Signed)

+++++

PROTESTS Letters/Petitions In File - yes _____ no _____ Remarks _____

REMARKS Date
 F.F. & C. Final Decision, including F.F. & C. of Law were adopted _____
 OF LAW, Date
 FINAL Final Decision mailed to parties and/or parties notified that Final Decision was
 DECISIONS adopted _____
 ETC. Remarks _____

Map No. 4028-3 Water Division No. 3 JAMES RIVER District
 Above for Office Use 10160006



APPLICATION FOR PERMIT To Appropriate Water within the State of South Dakota

Check one of the following:

New ☒ Vested Right ☐ Future Use ☐

Change in Diversion ☐ Additional Diversion ☐

Change in Acreage ☐ Additional Acreage ☐

1. Name of Applicant Ronald Frankenstein Phone No. (605) 472-2000
 Post Office Address P.O. Box 58 Redfield State South Dakota 57469
 (Street, RR, or Box) (Town) (Zip Code)

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 Ronald Frankenstein - Unit # 1

4. Amount of water claimed (cubic feet per second) 2.28 MAX ALLOWABLE

5. Source of water supply Ground Water

6. Location of point of diversion (1) - SW $\frac{1}{4}$ -SW $\frac{1}{4}$ -11-115-63, (2) - Approx. Center of SW $\frac{1}{4}$ -11-115-63,
 (3) - Approx. Center of NW $\frac{1}{4}$ -SW $\frac{1}{4}$ -11-115-63, (4) - Approx. Center of E $\frac{1}{2}$ -SW $\frac{1}{4}$ -11-115-63.

7. Annual period or periods during which water is to be used March - November County Sink

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 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.
SW $\frac{1}{4}$ -SW $\frac{1}{4}$ -11-115-63	40		
SE $\frac{1}{4}$ -SW $\frac{1}{4}$ -11-115-63	40		
NW $\frac{1}{4}$ -SW $\frac{1}{4}$ -11-115-63	40		
NE $\frac{1}{4}$ -SW $\frac{1}{4}$ -11-115-63	40		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 5 years. Additional time required to complete application of water to the proposed beneficial use 2 years.

11. Choice of county newspaper for publication of Notice of Intent to Appropriate Water Redfield Press,
Redfield, SD

12. Principal Features of the Proposed Water Supply System.

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

Cump Bowl

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

Main Line

C. Works proposed to apply water to beneficial use.

Center Pivot

Estimated Total Cost \$ -----

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)
) ss.
 County of Beadle)

I, Ronald Frankenstein

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 Ronald Frankenstein
 Subscribed and sworn to before me this 26th day of August, 19 81

Daniel A. Osberg
 Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Management Board hereby approves Water Right Application No. 4819-3

RONALD FRANKENSTEIN

(Applicant)

RR 2, Box 58, REDEFIELD

(Post Office Address)

SOUTH DAKOTA

(State)

57469

With the following qualifications

The irrigation wells 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.

This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

Date of first receipt of application: AUGUST 27, 1981

Date of return to applicant for correction, amendments or changes required AUGUST 27, 1981

Date of receipt of corrected application SEPTEMBER 17, 1981

Approved FEBRUARY 4, 1982, Recorded in Book 4819-3 Page

WATER RIGHT PERMIT NO. 4819-3

The Water Management Board hereby grants and issues this Water Right Permit No. 4819-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as qualified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is AUGUST 27, 1981
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before AUGUST 4, 1984
3. The whole of said work is to be completed on or before FEBRUARY 4, 1987
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is FEBRUARY 4, 1989
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 2.28 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 irrigation purposes said appropriation must be limited to not more than 2 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 FEBRUARY 4, 1989, said water to be used during the following described annual period: MARCH - NOVEMBER

Witness my hand this 17TH day of MARCH, 1982

THE WATER MANAGEMENT BOARD

By

John H. Hild
Civil Engineer, Water Rights

Certificate of Construction Issued , 19

Water License Issued , 19

HURON DRILLING INC. DRILLERS LOG

PAGE NO.

Ron Frankenstein

SW-11-115-63-Spink

3/20/81

12

Roger Wallman

JOB NAME

LOCATION ^{County}

DATE _____

RIG NO.

FOREMAN

W. No.	DEPTH	TIME	LOCATION	County	DATE	RIG NO.	FOREMAN
1	20		0-1	Topsoil			
2	40		1-15	Yellow sand			
3	50		15-20	Brown sugar sand			
			20-40	Sand, gravel and coal			
			40-45	Sand, gravel and coal			
			45-50	Blue clay			
			This well cased to 45 Ft.				
			<i>Therion Spelling Book</i> <i>and a Copy Book</i>				
			SW 1/4 11 45-63				

D. Well Information

- (1) Drill Hole, Diameter 30, Depth 45'
- (2) Casing, Type Plastic, Diameter 16, Thickness .500
(wood, concrete, steel, etc.)
- (3) Screen, Type SLOTTED, Diameter 16, Length 15'
- (4) Gravel Pack, Thickness 7, Length of gravel pack TOP TO BOTTOM

E. Dugout Information or Estimates

- (1) Surface dimensions, _____, Depth _____

☒ F Fill out for Either a Well or a Dugout. *Drillers Log Enclosed

- (1) Water Bearing Materials. (Attach a copy of test well log)

Depth to top of water bearing material 20

Depth to bottom of water bearing material 45

Depth to water (ground surface to water level) 30

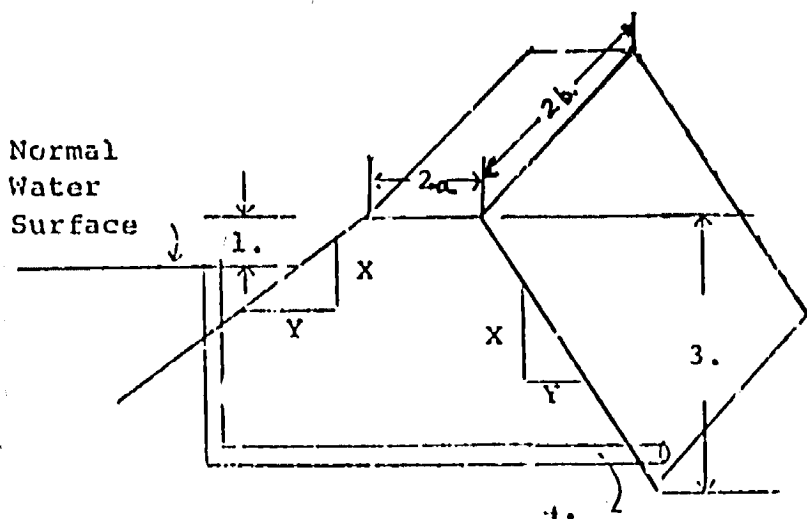
- (2) Distance to nearest existing household or livestock watering well.

On same owner's property 10 rds. (Artesian Well)

On property owned by others 80 rds. (Artesian Well)

G. Water Storage Dam

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, length, maximum water depth, surface area, drainage area, storage capacity, dam slope, dimensions, location and size of outlet works, of each storage dam. The location of each water storage dam should be shown on the water right map.



1. Freeboard _____

2a Crest width _____, length _____

3. Height of Dam _____

4. Outlet dimensions:

Pipe diameter _____

Spillway width _____

X & Y slope:

Upstream _____

Downstream _____

Surface area of impoundment _____

Drainage area above dam _____

Ronald J. Thompson
Signature of Applicant

September 16, 1981



Ron Frankenstein
Redfield, SD 57469

Dear Mr. Frankenstein:

Enclosed is a copy of the laboratory report of analysis for water sample No. 81-366. I have highlighted the major chemical constituents of your water together with the two main indicators of water quality (electrical conductivity and sodium adsorption ratio).

I have plotted the approximate quality of your water by means of a red cross in the accompanying chart.

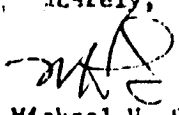
Sample No. 81-366 is classed as a high saline, low sodium water. It is suitable as a source for irrigation.

The Reotis and Great Bend silt loams found in the SW 1/4 of Section 11-115-63 are compatible with the quality of your water. However, the LaPrairie-Tetenka silt loams located in the narrow channels running diagonally from the NW corner to the SE corner of the SW 1/4 Sec. 11-115-63 may pond under irrigation. Persistent wet spots in these channels should be maintained in grass or a grass/alfalfa mixture.

If a rising water table does develop, please contact your county extension agent or this office for assistance.

I will forward your WI-1 form, soils information, and water analysis to the Conservation Commission for their action.

Sincerely,


Michael H. Sanders
Water Quality Lab
Division of Conservation

MHS:ckb

Enclosures

cc: Division of Conservation
Water & Natural Resources
D. Pahl, Extension Service

REPORT OF ANALYSIS
 Water Quality Laboratory
 Water Resources Research Institute
 South Dakota State University
 Brookings, South Dakota 57007

Submitted by: Ron Frankenstein
 Address: Field, SD 57469

Date Rec'd April 20, 1981

Sample No. 81-366

Identification 1 Well-

WATER ANALYSIS

Calcium (Ca)	204	ppm*	10.20	me/l**
Magnesium (Mg)	55	ppm	4.53	me/l
Sodium (Na)	19	ppm	0.83	me/l
Potassium (K)	6	ppm	0.16	me/l
Sulfate (SO ₄)	310	ppm	6.45	me/l
Nitrate (as N)	0.60	ppm	0.04	me/l
Chloride (Cl)	58	ppm	1.61	me/l
Bicarbonate (HCO ₃)	444	ppm	7.28	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)	1.14	ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)	740	ppm	43	g.p.g.***
Alkalinity (Methyl Orange)	364	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1278	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.30	Adjusted SAR	0.85	
Sodium	5.30	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	6.95			

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS:	Total cations	15.78	me/l
	Total anions	15.38	me/l

By: Shirley Litten

Service Performed

Amount Due

Determinations shown above.

\$19.50

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 81-366

Amount Enclosed \$

Signed

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE
DIVISION OF CONSERVATION

NAME OF APPLICANT Ron Frankenstein

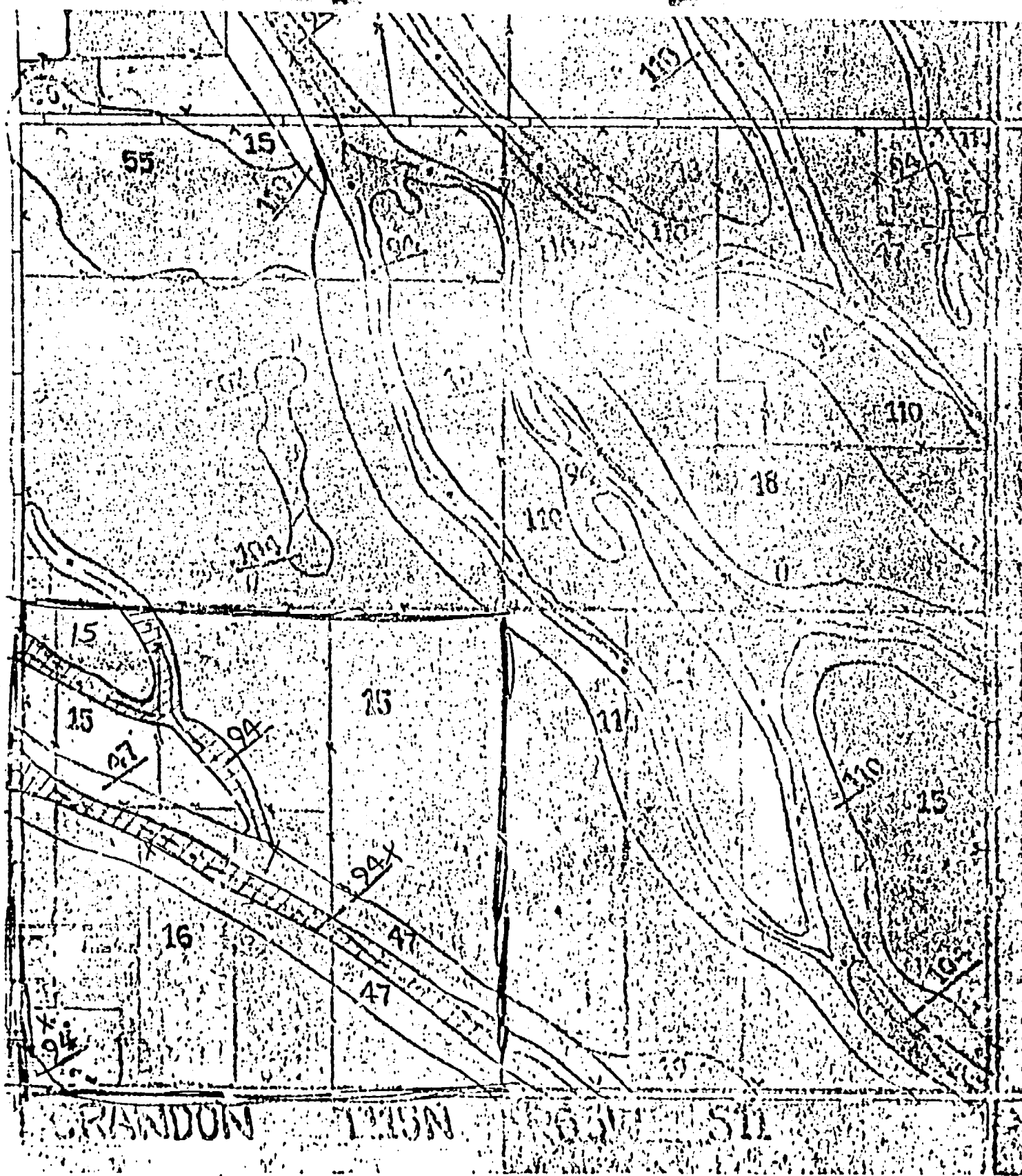
SOIL RESTRICTIONS:

THE SOIL(S) LISTED BELOW CANNOT BE IRRIGATED:

THE SOIL(S) LISTED BELOW CAN BE IRRIGATED WITH THE FOLLOWING RESTRICTIONS:

#94 - La Prairie Tetonka Silt Loams = These are poorly drained depressional soils that should be maintained in permanent vegetation or drained to prevent problems with ponding or traction. These soils are indicated by red hatch marks.

RECOMMENDED MANAGEMENT



SW 1/4 11-115-6.3

Spink County

SOIL/WATER COMPATIBILITY PERMIT APPLICATION FORM

STATE CONSERVATION COMMISSION

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE

OWNERS NAME: Ronald Frankenstein OWNERS ADDRESS: Redfield, So. Dak. 57469

COUNTY LAND LOCATED IN: Spink PHONE: (605) 476-2000

TENANT'S NAME AND ADDRESS: (If Other Than Owner) _____

In accordance with State Law SDCL 46-5-6.5, if a water permit is granted with a conditional Soil/Water Compatibility permit, a copy of such conditional soil/water compatibility permit must be filed with the County Register of Deeds. This action must be taken by the holder of a water permit within 6 months of receipt of such water permit

LEGAL DESCRIPTION: (Show Legal Description to Nearest 10 Acres),

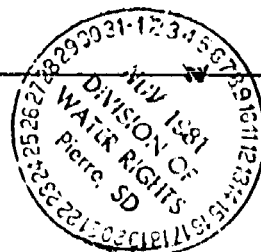
1. WELL LOCATION OR DIVERSION POINT: SW 1/4 Sec 11-115-63, Approx. Center of SW 1/4 Sec 11-115-63
2. SURFACE WATER SOURCE: Green River, Approx. Center of SW 1/4 Sec 11-115-63, SW 1/4 Sec 11-115-63
3. LOCATION OF AREA TO BE IRRIGATED. NOTE: SOILS INFORMATION FOR THIS AREA MUST ACCOMPANY THE APPLICATION. (See instruction sheet)

Legal Description	Acres	Legal Description	Acres
<u>SW 1/4 Sec 11-115-63</u>	<u>40</u>		
<u>SW 1/4 Sec 11-115-63</u>	<u>40</u>		
<u>SW 1/4 Sec 11-115-63</u>	<u>40</u>		
<u>SW 1/4 Sec 11-115-63</u>	<u>40</u>		

4. TYPE OF IRRIGATION: GRAVITY: _____ TOWLINE: _____ CENTER PIVOT: X GUN: _____ OTHER: _____ (Specify) _____
5. CROPS TO BE IRRIGATED: Corn, Alfalfa, Small Grain
6. SHOW ANY PORTION OF LAND THAT PRESENTLY HOLDS AN IRRIGATION PERMIT: YEAR OBTAINED: _____
LEGAL DESCRIPTION: _____
IN WHAT NAME: _____

WATER QUALITY: (TO BE COMPLETED BY SDSU WATER QUALITY LABORATORY)

7. WATER SAMPLE NUMBER: 01-356
8. SALINITY (EC X 10⁶): 1278
9. SODIUM (SAR): 0.30
10. ADJUSTED (SAR): 0.85



I hereby certify that I personally obtained or that I personally observed the taking of a sample of the water to be used in irrigating the above-described land. I also hereby certify that the required procedures for the taking of the sample (see instruction sheet) were followed, and that the sample was taken at _____ a.m./p.m., on _____, 1981, at the following location: SW 1/4 Sec 11-115-63, Spink County by Ronald Frankenstein (individual who took sample if other than applicant). I also hereby certify that the water sample taken has NOT been adulterated or tampered with in any manner, and is TRULY REPRESENTATIVE of the water which will be used in irrigating the above-described land.

I understand that the Division of Conservation or agents thereof may obtain another water sample for the purpose of validating the water sample analysis taken at the time of application (SDCL 46-5-6.4).

SUBSCRIBED AND SWORN BEFORE ME THIS

26 DAY OF August, 1981.

[Signature]

(NOTARY PUBLIC)

MY COMMISSION

EXPIRES NOV 1981

IMPORTANT

[Signature]
APPLICANT'S SIGNATURE

[Signature]
Director, Division of Conservation

APPROVED

DISAPPROVED

X CONDITIONALLY APPROVED

Action by the Department of Agriculture or the State Conservation Commission is not the final action on any application. In all cases a WATER PERMIT must be obtained from the Board of Water Management.

No. 4819-3

Publish first publication on or before November 18, 1991

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Pierre, South Dakota, 57501
November 9, 1991

Notice is hereby given that Ronald Frankenstein whose post office address is RR 2, Box 58, Redfield, South Dakota, has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-14; 46-2-9 thru 46-2-11, 46-2-13; 46-5-1 thru 46-5-8, 46-5-10 thru 46-5-22, 46-5-25, 46-5-41; 46-6-3, 46-6-3.1, 46-6-5, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14 and Board Rules ARSD 52:01:01:01 thru 52:01:01:13, for a permit to appropriate for beneficial use 2.28 cubic feet of water per second of time from groundwater (4 wells) through the Ronald Frankenstein

Unit #1, the point(s) of diversion of which ~~xxx~~ (are) to be located ~~xxxxxx~~ three well in the approximate centers of the SW $\frac{1}{4}$; E $\frac{1}{2}$ SW $\frac{1}{4}$; W $\frac{1}{2}$ SW $\frac{1}{4}$ and one in the SW $\frac{1}{4}$ SW $\frac{1}{4}$

of Section 11, Twp. 115N, Range 63W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

SW $\frac{1}{4}$, Section 11, 1115N, R63W

This Application No. 4819-3 will be considered by the Water Management Board at Howard Johnson Hotel, 3300 W. Russell, Sioux Falls upon the 2nd day of December, 1991

at 10 A. M. The Board 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 Board decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Board in writing prior to the hearing or orally at the hearing.

This hearing is an adversary proceeding. Any person has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised at the hearing. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any handicapped person wishing to attend this hearing can contact the Water Rights Division, DWR, Joe Foss Building, Pierre, SD, prior to the hearing date for assistance to assure access to the hearing.

For the Water Management Board

cc: applicant

BETTY WESTLUND, Water Rights Specialist

WNR-806A-10/81 Notice of Intent to Appropriate Water
GROUNDWATER

Rose Freudenstein
NOT TO SCALE



No. 4819-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Spink) ss.

I, Dawn Gruenwald 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:

November 19, 1981

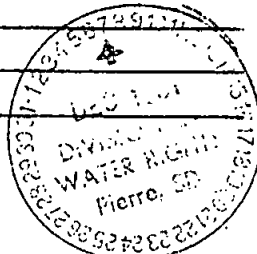
November 25, 1981

Dawn Gruenwald
(Signature)

Secretary
(Title)

December 4, 1981
(Date Signed)

Cost of Printing: \$23.19



No. 91
**NOTICE OF HEARING
ON APPLICATION
FOR APPROPRIATE
Pierre, South Dakota
November 9**

Notice is hereby given that Ronald
Frankenstein whose post office address
is RR 2, Box 58, Redfield, South Dakota,
has made an application in accordance
with the provisions of SDCL 46-1-1 thru
46-1-9, 46-1-12 thru 46-1-14, 46-2-8 thru 46-
2-11, 46-3-13, 46-5-1 thru 46-5-8, 46-5-10
thru 46-5-25, 46-5-25, 46-5-41, 46-6-3, 46-6-
3.1, 46-6-5, 46-6-6.1, 46-6-10, 46-6-13, 46-6-
14 and Board Rules ARSD 52:01:01:01
thru 52:01:01:13, for a permit to ap-
propriate for beneficial use 2.28 cubic
feet of water per second of time from
groundwater (4 wells) through the
Ronald Frankenstein Unit No. 1, the
point(s) of diversion of which are to be
located three wells in the approximate
centers of the SW $\frac{1}{4}$, E $\frac{1}{4}$ SW $\frac{1}{4}$, W $\frac{1}{4}$
SW $\frac{1}{4}$ and one in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of
Section 11, Twp. 115N, Range 63W. Said
water to be used for the purpose of
providing irrigation on portions of the
following described land: SW $\frac{1}{4}$, Section
11, T115N, R63W.

This application No. 4819-3 will be
considered by the Water Management
Board at Howard Johnson Motel, 3300
W Russell, Sioux Falls upon the 2nd day
of December, 1981 at 10 A.M. The Board
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 Board decision who desires to
present evidence or cross-examine
witnesses according to SDCL 1-26 may
notify the Board in writing prior to the
hearing or orally at the hearing.

This hearing is an adversary
proceeding. Any person has the right to
be present or to be represented by a
lawyer. These and other due process
rights will be forfeited if they are not
exercised at the hearing. Decisions of
the Board may be appealed to the
Circuit Court and the State Supreme
Court as provided by law.

Any handicapped person wishing to
attend this hearing can contact the
Water Rights Division, DWNR, Joe
Foss Building, Pierre, SD, prior to the
hearing date for assistance to assure
access to the hearing.

For the Water
Management Board
Betty Westlund
Water Rights Specialist
(Nov. 18, 25)

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 8440

PIERRE, August 27, 1981

RECEIVED OF Ronald Frankenstein, RR 2, Box 58, Redfield SD 57469

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit to Appropriate Water No. 4819-3 (examination, processing, recording and filing)	250	00
Fee for inspecting Construction, and issuing Cert. of Construction No.		
Fee for inspecting Beneficial Use, and issuing Water License No.		
Fee for issuing Location Certificate-Dry Draw, No.		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for (any other work as provided by law)		
TOTAL	250	00

WATER RIGHTS COMMISSION

By John Hatch
Chief Engineer, Executive Officer
JOHN HATCH

(KVL)

NOTICE OF COMPLETION OF WORKS AND/OR
APPLICATION OF WATER TO BENEFICIAL USEPost Office RedfieldDate August 15, 1982

TO: Water Rights Commission
Joe Foss Building
Pierre, South Dakota 57501

Dear Sirs:

This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to maximum extent it is going to be used, not exceeding the amounts as specified in Water Right No. 4819-3.

Water Right Permit No. 4819-3 states that the diversion system is to be constructed by Feb. 4, 1987, and that the water is put to beneficial use by Feb. 4, 1989.

The diversion system was completed on June 15, 1982. Applying the water to beneficial use was completed on June 16, 1982.

You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.

Ronald Starkentin
(Signature)



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

Division of Water Rights
605 773-3352

No. 4819-3

January 10, 1985

Ronald Frankenstein
RR 2, Box 58
Redfield SD 57469

Dear Mr. Frankenstein:

The inspection of your water use system and inspection of the extent of the application of water to beneficial use, as developed under your Water Right No. 4819-3 has been completed. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the inspection and issuing of the Water License. Upon receipt of the \$50.00 fee from you, your Water License will be sent to you.

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until this \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

KAREN SCHLAACK
Administrative Aide

NOTE: On form of payment, please include the number of the water permit. This insures proper handling of the fee.

EMPIRE

IRRIGATION DRILLING CO.

FRANKFORT, SOUTH DAKOTA

PHONE 472-0384

DRILLING REPORT

well # 4

Location of Well: E 1/2 1/4, SW 1/4, Section 11, Township 115N, Range 63W

Well to be drilled for: Gen Frank Ken Stien (Name) (Address)

Spink (County) (State)

Date well drilling started Mar 17 1982 finished Mar 18 - 1982

Purpose of well irrigation (domestic, irrigation, industrial, other)

Depth 40 ft. Casing Diameter 16 inches

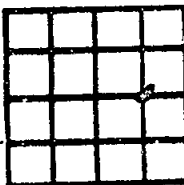
Slot Size 40 Screen Size 16"

Screen Depth: From 29 ft. to 39 ft.

Remarks: 30 FT Plastic Black

10 FT Stainless steel

NORTH



1 Mile

REPORT OF FINAL PUMPING TEST

Write Additional Times and Readings on Back of Page

Date

Elapsed Time From Start of Pumping		Water Level		Discharge
10 hr.	0 min.	ft.	in.	(Static) 21' 00"
hr.	min.	34 ft.	4 in.	564 GPM
hr.	min.	37 ft.	in.	471 GPM
hr.	min.	22 ft.	in.	385 GPM
hr.	min.	ft.	in.	RECOVERY

Formation: Clay, Silt, Sand, Gravel, Color, Hard or Soft, etc.

Depth (ft.)

From To

Formation (Continued)

Depth (ft.)

From To

top - soil

0 2

yellow clay - rock

2 12

brown gravel - rock

12 19

med sand

19 39

blue clay - rock

39 41

IRRIGATION DRILLING CO.

PHONE 472-0384

well #3

Figure 6. The effect of the initial concentration of the monomer on the polymerization of MMA initiated by AIBN at 70 °C.

Permit No. 4819-3James River Water District**Report Of Examination Of Works And/Or Application Of Water To Beneficial Use**

TO: Chief Engineer, Division of Water Rights, DWNR, Foss Bldg., Pierre, SD 57501

I have this day made a thorough examination of the water use system constructed by Ronald
Frankenstein of RR 2, Box 58, Redfield, SD 57469 holder of
 Permit No. 4819-3, bearing the priority of August 27 1981 authorizing
 the diversion of 2.28 cu. ft. per second of the waters of groundwater (T H aquifer)
 for irrigation purposes, in Spink County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:	motor: General Electric S.N. BVS3104 M.N. SK215DP600S 10hp., 1740rpm	motor: General Electric S.N. 47473085 M.N. SK215DP600S 10hp., 1740rpm	motor: General Electric S.N. BVS376 M.N. SK215DP600S 10hp., 1740rpm
B. Works used to transport water to place of use:	pump: Western Land Roller size 8-A capacity 220gpm	pump: Western Land Roller size 8-A capacity 220gpm	pump: Western Land Roller size 8-A capacity 220gpm
Pipeline: size - 6in. 8in. type - PVC PVC length - 500ft. 580ft.	Valley center pivot: # of towers - 7 length - 1304 ft end gun - yes PSI - 25 GPM - 650		
C. Works used to apply water to beneficial use:			

The system is in the following condition goodThe point of diversion is located 3 wells: (#3) 1320 Ft S and 2110 Ft W; (#2) 1320 Ft S and 1600 Ft W;
(#4) 1320 Ft S and 1020 Ft W; all from the center of sec 11 - T115N - R63WThe works are capable of diverting and conveying to the place of use 1.44cu. ft. per second of water which is to be used for irrigation

Water has been put to beneficial use to the maximum extent as follows:

	Acres
<u>NW 1/4 SW 1/4 sec 11 - T115N - R63W</u>	<u>25.4</u>
<u>NE 1/4 SW 1/4 "</u>	<u>35.5</u>
<u>SW 1/4 SW 1/4 "</u>	<u>24.7</u>
<u>SE 1/4 SW 1/4 "</u>	<u>35.5</u>

comprising a total of 121.1 acres of land and the license should be issued for 1.44 cfsApplicable permit qualifications have been complied with ☒ Yes ☐ NoExceptions to compliance are: _____ Date Oct. 2, 1984

(signature)

LICENSE FOR PERMIT NUMBER 4819-3

1. Legal location of wells: _____

dams & structures: _____

2. Well Information: Well Drilling Firm Empire Irrigation Drilling Co.

No. of wells 3 Depth _____

Casing a) diameter 16in. 16in. 16in. Screen a) type all stainless steel
b) length 27ft 20ft 30ft b) length all 10ft
c) type Plastic Plastic Plastic Static Water Level #2 (17ft), #4 (21ft)

Pump a) make _____ Motor a) make _____
b) model _____ b) model no. _____
c) size _____ c) horsepower rating _____
d) capacity _____ GPM d) motor efficiency rating _____
e) turbine pump _____
no. of stages _____

3. Distribution lines:

a) size of lines 6in 8in
b) type PVC PVC
c) length 500 ft 580 ft

4. Dam information:

a) height to crest _____ i) Outlet tubes:
b) height to spillway _____ 1) diameter _____
c) crest width _____ 2) type _____
d) crest length _____ 3) valued (Y/N) _____
e) spillway length _____ 4) valve type _____
f) spillway width _____ 5) location on structure _____
g) approx. storage _____
h) Distribution lines or canals:

1) size _____
2) type _____
3) length _____

5. System Type: a) sideroll:

1) length _____ feet
2) diameter of pipe _____
3) make, model & number of sprinklers _____
4) spacing of sprinklers _____
5) nozzle size _____

b) towline:

1) length _____ feet
2) make, model & number of sprinklers _____
3) spacing of sprinklers _____
4) nozzle size _____

5. System Type: c) center pivot

- 1) make Valley
- 2) number of towers 7
- 3) distance between towers _____
- 4) overall length 1304 ft
- 5) End gun (Y/N) yes
- 6) high or low pressure low
- 7) make & size of nozzles _____
- 8) PSI reading while system is running 25
- 9) GPM 650

d) Gate Pipe

- 1) length _____
- 2) diameter _____
- 3) spacing of gates _____

e) Siphons

- 1) number _____
- 2) size _____

f) Portable boom

- 1) make _____
- 2) serial number _____
- 3) nozzle size _____
- 4) capacity (GPM) _____
- 5) PSI _____

g) Gun

- 1) make _____
- 2) serial number _____
- 3) nozzle size _____
- 4) capacity (GPM) _____
- 5) PSI _____
- 6) hose size _____
- 7) hose length _____

h) Hydromatic

- 1) make _____
- 2) model _____
- 3) serial number _____
- 4) length _____
- 5) nozzle size _____
- 6) spacing _____
- 7) PSI _____
- 8) capacity (GPM) _____

YES NO Check Items

1. Soil and water permit lands agree with lands being irrigated and lands listed on permit.
2. Special Qualifications to permit being abided by.
3. All Structures, wells and lands on map.

REMARKS: Well #3

Well #2

Well #4

motor: General Electric
S.N. BV83104
M.N. SK215DP6005
10hp., 1740rpm

motor: General Electric
S.N. LT473085
M.N. SK215DP6005
10hp., 1740rpm

motor: General Electric
S.N. BV8376
M.N. SK215DP6005
10hp., 1740rpm

pump: Western Land Roller
size - 8-A
capacity - 220gpm

pump: Western Land Roller
size 8-A
capacity - 220gpm

pump: Western Land Roller
size 8-A
capacity - 220gpm

State of South Dakota

Water License No. 4819-3

(1) Ronald Frankenstein
of RR#2, Box 58, Redfield, South Dakota 57469
made Application No. 4819-3 August 27, 1981 for a water permit to appropriate
2.28 cubic feet per second of water from groundwater (three wells)
Spink County, South Dakota for irrigation purposes.
Permit No. 4819-3 with a priority date of August 27, 1981
was approved February 4, 1982 and issued to applicant(s) for diversion of water with construction of the described
water supply system to be completed on or before February 4, 1987 and for the application to beneficial use of said
water on or before February 4, 1989.

and

(2) It is certified that the application has complied with the provisions of South Dakota State Law relating to completion of
the construction of the water supply system and is entitled to divert 1.44 cubic feet per second of water
for beneficial use. The location of the diversion point(s) are Well #3 - 1320 feet S and 2110 Feet W;
Well #2 - 1320 feet S and 1600 feet W; Well #4 - 1320 feet S and 1020 feet W; all from
the center of Section 11, T115N, R63W

T

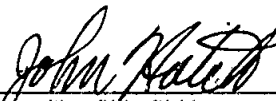
and

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to the following extent, to irrigate the following land all in T115N, R63W

Section 11	NW 1/4	25.4	Acres	(CB)
	NE 1/4	35.5	Acres	(CA)
	SW 1/4	24.7	Acres	(CC)
	SE 1/4	35.5	Acres	(CD)
TOTAL		121.1	ACRES	

(4) Pursuant to §46-5-30.1 Ronald Frankenstein
 of RR#2, Box 58, Redfield, South Dakota 57469
 the holder(s) and/or owner(s) of Water Permit No. 4819-3 is issued a license to appropriate water, the right to use
1.44 cubic feet per second of water from groundwater (three wells) with a priority date
 of August 27, 1981 from the location specified in (2) of this license. The water to be
 conducted to and upon lands specified in (3) of this license for the purpose of Irrigation

This license is subject to any limitations or qualifications listed in Water Permit No. 4819-3 and subject
 to South Dakota State Law.


 Chief Engineer, Water Rights Division
 Department of Water and Natural Resources **JOHN HATCH**
January 22, 1985

L

RECEIPT

Division of Water Rights

No 4 9896

South Dakota Department of Water and Natural Resources

Pierre, January 17, 1985

RECEIVED OF Ronald Frankenstein, RR#2, Box 58, Redfield, SD 57469

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct works and to put water to beneficial use _____		
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. 4819-3	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	50 00

By

John Hatch
Chief Engineer JOHN HATCH (ms)

No. 4819-3

 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

WATER RIGHTS DIVISION
Phone (605) 773-3352

January 23, 1985

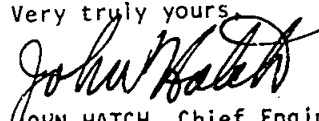
Ronald Frankenstein
RR#2, Box 58
Redfield, South Dakota 57469

Dear Mr. Frankenstein:

Enclosed herewith is, Water License No. 4819-3. 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, Chief Engineer
Water Rights Division

JH: m/s

Enclosures

#4819-3

 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

February 17, 1989

Ronald Frankenstein
RR 2, Box 58
Redfield, SD 57469

Dear Mr. Frankenstein:

On October 6, 1988, the Water Management Board adopted rules to implement a 1988 law for application of chemicals through irrigation systems. The rules establish equipment standards, performance standards and installation requirements for irrigation systems that apply chemicals (fertilizers, insecticides, or herbicides) with irrigation water.

You have indicated on your 1988 Water Management Board Irrigation Questionnaire that you do apply chemicals with irrigation water. A copy of the new rules for chemigation are enclosed for your information.

The new standards include:

- * a check valve between the irrigation pump and the point of chemical injection;
- * a vacuum relief valve on top of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a low-pressure drain on the bottom of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a chemical injection line check valve between the chemical injection pump and the point at which the chemical is injected into the irrigation line; a second check valve is required if the chemical injection pump is not a positive displacement pump;
- * an interlock system which ensures that the chemical injection pump will stop whenever the irrigation pump stops;
- * an inspection port between the irrigation pump and the check valve on the irrigation line;

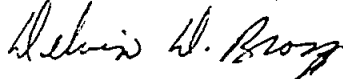


Each of these equipment requirements are discussed more thoroughly in Sections 74:02:09:05 through 74:02:09:10 of the enclosed rules. Appendix A contains diagrams of the arrangements of these anti-pollution devices.

The equipment must be installed according to the manufacturer's specifications, calibrated, and maintained in good working condition. All chemical product labels must be followed and warning signs must be posted. These rules also require reporting of all spills, accidents, and system malfunctions. A 24-hour telephone number is provided.

The chemigation rules contain notification and record keeping requirements. Prior to using chemigation, notification must be given to the Chief Engineer on the enclosed Form 1C. Information that must be provided in this notification includes the water permit or right number, the name, address, and telephone number of the water permit or right holder and of the system operator, and the legal description of the lands on which the system is located. A record of the name, quantity, dates and hours of each chemical applied must be provided to the Chief Engineer on Form 2C. A copy of this form is also enclosed for your information. It will be mailed with the annual irrigation questionnaire and must be returned with the questionnaire by the date specified. If you have any questions regarding these rules or need additional copies of the forms, please contact Susan Bowar, Water Rights Engineer (605-773-3352).

Very truly yours,



for

JOHN HATCH, Chief Engineer
Water Rights Division

SOUTH DAKOTA WATER WELL COMPLETION REPORT

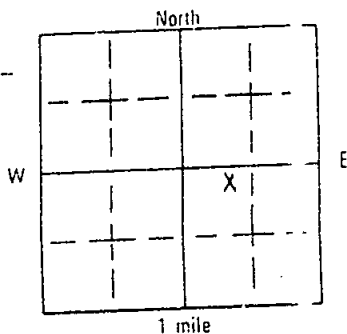
10-85

Location R. 2 1/4 S. 2 1/4 E. Sec. 11 Twp 15-10 Rg 63-10

County

Spink

Please mark well location with an "X"



Well Completion Date

12-12-88

PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Test Holes
☒ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

Reverse

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
_____ LB/FT	_____ IN	<u>0</u> FT	<u>35</u> FT	<u>25</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 20 FEETWhat is grouting material? Best mix cementIf cement, number of sacks? 50Describe grouting procedure line

What was grout weight? _____ LB/GAL

SCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 1 1/2 IN Length 10 FEETMaterial Johnson Stainless SteelSlot Size 60 Set From 34 Feet To 40 Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Other information _____

Was a packer or seal used? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

Well Owner

Name Ken FrankensleinAddress RR2 Redfield S.D. 57469

Well Log

Depth

Formation

From

To

top soil yellow clay	0	10
yellow clay - sandy	10	18
dark sand	18	22
medium sand & sand streaks	22	40
blue clay	40	41

40'6" TDSTATIC WATER LEVEL 21 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other: specify _____

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped150 GPM☐ Bailed

Describe: _____

☐ Other

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:

This well was drilled under license # 4410

And this report is true and accurate.

Drilling firm Pullman Drilling

Signature of License Representative:

Ralph Pullman

SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

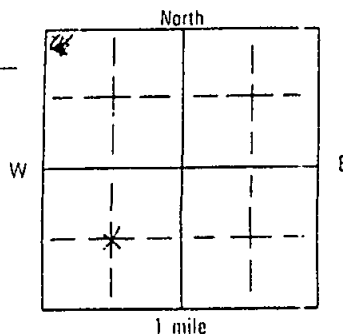
4819-3

Location SW 1/4 SW 1/4 Sec 11 Twp 11S-10Rg 63-10

County

Spink

Please mark well location with an "X"

Well Completion Date 11-22-88

PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Test Holes
☒ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

reverse

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT <u>16</u>	IN <u>16</u>	FT <u>0</u>	FT <u>37</u>	IN <u>25</u>
LB/FT _____	IN _____	FT _____	FT _____	IN _____
LB/FT _____	IN _____	FT _____	FT _____	IN _____
LB/FT _____	IN _____	FT _____	FT _____	IN _____

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 20 FEETWhat is grouting material? Cement BentoniteIf cement, number of sacks? 50Describe grouting procedure line

What was grout weight? _____ LB/GAL

SCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 16 IN Length 6 FEETMaterial stainless steelSlot Size 55 Set From 37 Feet To 43 Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Other information _____

Was a packer or seal used? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

Well Owner:

Name Ron FrankensteinAddress RR2 Reelfield 13. Dak 57469

Well Log:

Depth

Formation	From	To
yellow clay	0	10
yellow clay w/ gravel streaks	10	20
gravel w/ coal streaks	20	27
gravel & coal	27	30
Sand & coal streaks	30	41
blue clay	41	42

TD 48'6"STATIC WATER LEVEL 21 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pip

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other, specify _____

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped 180 GPM☐ Bailed Describe: _____☐ Other _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:

This well was drilled under license # 440

And this report is true and accurate.

Drilling firm Pullman Well Drilling

Signature of License Representative

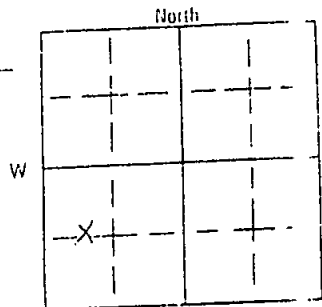
Ron Frankenstein

Location NW 1/4 Sec 11 Twp 115 N Rg 63 W

County

Spink

Please mark well location with an "X"



Well Completion Date

12-14-88

PROPOSED USE:

☐ Domestic

☐ Municipal

☐ Test holes

☒ Irrigation

☐ Industrial

☐ Stock

Method of Drilling:

Reverse

CASING DATA:

☐ Steel

☒ Plastic

☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	0 FT	35 FT	25 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUT:

Was the well grouted? ☒ YES ☐ NO

To what depth? 20 FEET

What is grouting material? Cement Bentonite

If cement, number of sacks? 50

Describe grouting procedure line

What was grout weight? _____ LB/GAL

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 16 IN Length 6 FEET

Material

Slot Size Set From 35 Feet To 43 Feet

Slot Size Set From _____ Feet To _____ Feet

Slot Size Set From _____ Feet To _____ Feet

Other information

Was a packer or seal used? ☐ YES ☒ NO

If so, what material?

Describe packer(s) and location?

Was well disinfected upon completion? ☒ YES ☐ NO

Well Owner

Name

Bois Frankenshein

Address

BB2 Redfield S Dak 57461

Well Log:

Formation

Depth

From

To

top soil yellow clay

0

10

yellow clay fine sand

10

26

med coarse gravel little conf

26

30

med coarse gravel coarse sand

30

42 1/2

blue clay

42 1/2

43

43 TD

STATIC WATER LEVEL 21 feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other, specify

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped

☐ Bailed

☐ Other

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:



This well was drilled under license # 440

And this report is true and accurate.

Drilling firm Pullman Drilling

Signature of License Representative:

Ralph Pullman

Signature of Well Owner:

NOT TO SCALE

4819

47.0

103.1

29.1

50.5

NC

20.9

NC

11

153.7

2110 ft

1600 ft

1020 ft

35.3

1320 ft

1320 ft

1320 ft

3 PVC 6 in
2 PVC 8 in
1 PVC 8 in

379-137-L

115-63

Ron Duwall
Water Resources Eng

10/2/84

4819-3



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

October 26, 2009

4819-3
5035-3

Ronald L. Frankenstein
39198 180th St
Redfield SD 57469-7222

Dear Mr. Frankenstein:

Enclosed is a "Notice" dated October 16, 2009 concerning your 2009 irrigation questionnaires.

The notice was originally mailed to 17992 392nd Ave, Redfield SD. The post office notified us that your address has changed and I will update our records accordingly.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Genny McMath".

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosures