

W&only

1. Considered: 2-3, 1982 Water Right No. 4846-3
7052-3
2. Name of Applicant DERALD & HELEN RYKEN
3. Post Office Address CAYVILLE 57031 RR1 - Box 38
4. Amount of Water Claimed 2.28 maximum acre feet 117'
5. Source of Water Supply RYKEN IRRIGATION PROJECT well
6. Water to be used for IRR acres to be irrigated 160
7. County YANKTON about 25.2W miles of Payville
8. PROOF OF PUBLICATION: Received 1-29-82 Not Received _____
- APPLICATION: Approved 11-15-81 Subject to W.I. - 1 (2)
- Not Approved _____ Action Deferred _____

PRIORITY
11-16-81

Dated Received 11-16-81 Application complete-yes _____ no _____ FEE 250.00

Remarks _____

WATER
QUALITY

Corrected Application received _____ Period of Annual Use APR - NOV

Received yes 11/5/82 no _____ APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as application yes no _____ Remarks _____

Disapproved _____ Returned _____

Diversion Point _____

APPROX CENTER S 1/2 22-T93N-
R54W

Land to be irrigated _____

E 1/2 SW 4 & W 1/2 SE 4

SEC 22-T93N-R54W

WELL LOG

Driller Wetmore Dr. Licensed - (yes) no _____

Depth 100' FT DEEP

Remarks _____

MAP Map No. 4052-3 Map located in Water Right * Map file _____
 Type of Map Clerical Prepared by Van Mullen Co Agent

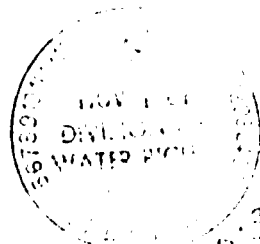
REVIEWED This Application was received within 30 days of the date received, accepted as complete, Number assigned and written up for advertisement before the Board on:

1/12/82

Opreslund
 (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 _____

No. 4846-3Map No. 4050-3 Water Division No. 3 MISSOURI RIVER District
Above for Office Use 10170101

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 DERALD & HELEN RYKEN Phone No. 267-2723
 Post Office Address GAYVILLE, S.D. R.R. Box 38 State S.D. 57031
(Street, RR, or Box) (Town) (Zip Code)
 If a corporation show date and place of incorporation no
2. Method of accomplishing work (contract, employment of others, or by direct labor) CONTRACT
3. Name of diversion work SAME AS ABOVE
4. Amount of water claimed (cubic feet per second) 2.28
5. Source of water supply WELL
6. Location of point of diversion CENTER OF E 1/2 SW 1/4 W 1/2 SE 1/4 22-93-54

County YANKTON

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 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.
<u>E 1/2 SW 1/4 W 1/2 SE 1/4 22-93-54</u>	<u>160</u>

Land Description	No. Acres Irr.

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 _____ years.
11. Choice of county newspaper for publication of Notice of Intent to Appropriate Water YANKTON CO. OBSERVER - GAYVILLE S.D.
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 PIVOT SYSTEMEstimated 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)
) ss.

County of _____

I, Derald Ryken 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 Derald RykenSubscribed and sworn to before me this 12 day of November, 1981

Notary Public (or other qualified officer).

WATER RIGHT APPLICATION APPROVAL

The Water Management Board hereby approves Water Right Application No 4846-3

DERALD & HELEN RYKEN RT #1, Box 38, GAYVILLE
(Applicant) (Post Office Address)
SOUTH DAKOTA 57031 With the following qualifications
(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.

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

Date of first receipt of application NOVEMBER 16, 1981
Date of return to applicant for correction, amendments or changes required NOVEMBER 16, 1981
Date of receipt of corrected application JANUARY 8, 1982
Approved FEBRUARY 4, 1982 Recorded in Book _____ Page _____

WATER RIGHT PERMIT NO. 4846-3

The Water Management Board hereby grants and issues this Water Right Permit No. 4846-3 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 NOVEMBER 16, 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 point of beneficial use of water appropriated in accordance herewith is FEBRUARY 4, 1987
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, 1987; said water to be used during the following described annual period: APRIL - NOVEMBER

Witness my hand this 18th day of MARCH, 1982

THE WATER MANAGEMENT BOARD

By: John Hatch
Chief Engineer, Water Rights

Certificate of Construction Issued _____, 19____

Water License Issued _____, 19____

WETMORE DRILLING

P.O. BOX 577 - ELK POINT, SOUTH DAKOTA 57025 - (605) 356-3272

August 31, 1981

Derald Ryken
RR 1 Box 38
Gayville, SD 57931

TEST HOLE
E $\frac{1}{2}$ SW $\frac{1}{4}$ W $\frac{1}{2}$ SE $\frac{1}{4}$ SE22 R 93 5^L. W

0	-	1.5'	Topsoil
1.5	-	19'	clay
19	-	48'	fine sand
48	-	112'	coarse sand & gravel
112	-	114'	shale

Wetmore Drilling

James Wetmore
James Wetmore

D Well Information

- (1) Drill Hole, Diameter 20", Depth 100'
 (2) Casing, Type PLASTIC (wood, concrete, steel, etc), Diameter 16", Thickness 5/8"
 (3) Screen, Type SLOTTED PLASTIC, Diameter 16", Length 65'
 (4) Gravel Pack, Thickness 4", Length of gravel pack 100'

E Dugout Information or Estimates

- (1) Surface dimensions, _____, Depth _____

F Fill out for Either a Well or a Dugout.

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

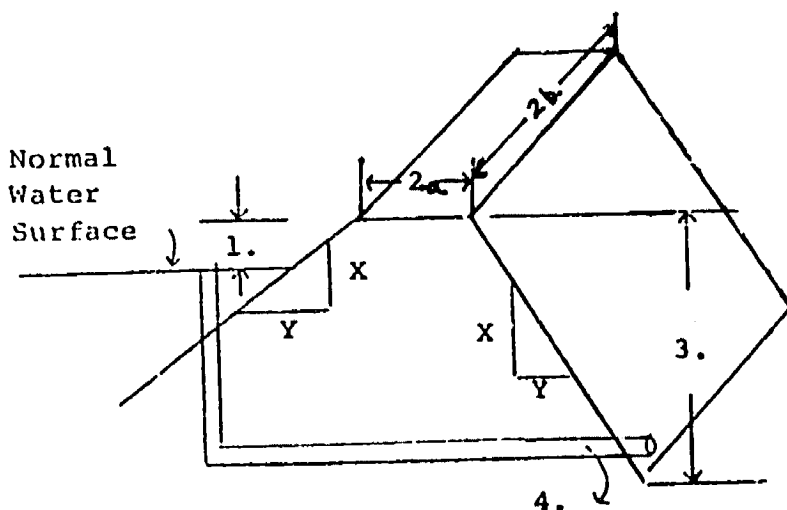
Depth to top of water bearing material _____
 Depth to bottom of water bearing material _____
 Depth to water (ground surface to water level) _____

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

On same owner's property 480 rds.
 On property owned by others 240 rds.

G Water Storage Dams

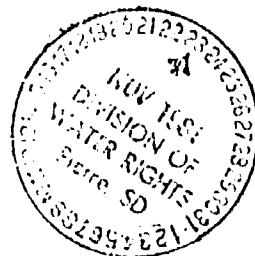
If the proposed water use system contains one or more water storage dams, please show in the space below, the height, length, maximum water depth, surface area, drainage area, storage capacity, dam slope, dimensions, location and size of outlet works, of each storage dam. The location of each water storage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



1. Freeboard _____
 2a Crest width _____ 2b 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 _____

Herald E. Fyke
 Signature of Applicant

November 20, 1981



Derald Ryken
Rt. 1, Box 38
Gayville, SD 57031

Dear Mr. Ryken:

As I stated in my letter dated October 13, 1981, water sample no. 81-1163 is classified as a high saline, low sodium water. It is marginally suitable for irrigation.

The Forney silty clay loam soil found in the E 1/2 of the SW 1/4, and the W 1/2 of the SE 1/4 of Section 22-93-54 is not classified as an irrigable soil by the Soil Conservation Service due to a very low water intake rate. However, several successful irrigation projects have been developed in southeastern South Dakota on heavy clay alluvial soils. Special attention should be paid to maintaining high levels of organic matter in order to improve soil permeability.

Irrigation application rates should exceed crop requirements, however, there is a fine line between applying enough and too much water. No doubt you will establish the appropriate application rate through experience with your system.

If a salt build-up occurs, or if a rising water table leads to trafficability problems for your center pivot system, please contact your county extension agent or this office for assistance.

The WI-1, soils information, and a copy of the water analysis are being forwarded to the Division of Conservation for their action.

Sincerely yours,

Michael H. Sanders
Water Quality Lab
Division of Conservation

MHS:ckb
Enclosures
cc: Division of Conservation
D. Pahl, Extension Service
Division of Water Rights

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

Name: DERRAL DYKEN Date Rec'd: Sept 14 1981
Address: RT 1 BOX 38 Sample No. 81-1163
GAYVILLE SD 57031 Identification well
0932 513 22

WATER ANALYSIS

Calcium (Ca)	200	ppm*	9.98	me/l**
Magnesium (Mg)	60	ppm	1.93	me/l
Sodium (Na)	50	ppm	2.17	me/l
Potassium (K)	8	ppm	0.20	me/l
Sulfate (SO ₄)	137	ppm	7.02	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	34	ppm	0.96	me/l
Bicarbonate (HCO ₃)	532	ppm	8.72	me/l
Carbonate (CO ₃)	0	ppm	0.00	me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Manganese (Mn)		ppm		
Boron (B)	0.26	ppm		
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Total solids		ppm		
Total Cations			17.29	me/l
Total Anions			16.70	me/l
Alkalinity (Methyl Orange)	436	ppm(as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm(as CaCO ₃)		
Electrical Conductivity	1500	microhos per cm at 25 C		
Sodium Adsorption Ratio	0.80	Adjusted SAR	2.29	
Sodium	12.57	% of Cations		
Residual sodium carbonate	0.00	me/l		
pH	7.00			

Others:

*ppm=parts per million

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

**me/l=millequivalents per liter

COMMENTS

By: Shirley Mittan

Service Performed:

Amount Due:

Irrigation Analysis

\$24.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 81-1163

Amount Enclosed \$
Sixty

SOIL/WATER COMPATIBILITY PERMIT APPLICATION FORM

STATE CONSERVATION COMMISSION

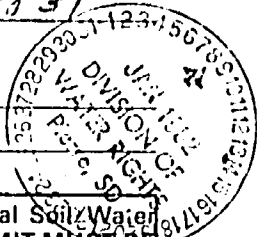
Office Use Only

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE

OWNERS NAME: DE RALD & Helen RYAN OWNERS' ADDRESS: PI 130138

COUNTY LAND LOCATED IN: YANKTON PHONE: 267-2723

TENANT'S NAME AND ADDRESS: _____



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 15 AT THE CENTER OF E 1/2 SW 1/4 W 1/2 SE 1/4 22-93-54

2. SURFACE WATER SOURCE AND DIVERSION LOCATION: WELL ONLY

Legal Description	Acres	Legal Description	Acres
<u>E 1/2 SW 1/4 W 1/2 SE 1/4 22-93-54</u>	<u>160</u>		

3. SHOW ANY PORTION OF LAND THAT PRESENTLY HOLDS AN IRRIGATION PERMIT: YEAR OBTAINED NONE

LEGAL DESCRIPTION: _____

IN WHAT NAME: _____

4. LOCATION OF AREA TO BE IRRIGATED NOTE: SOILS INFORMATION FOR THIS AREA MUST ACCOMPANY THE APPLICATION. (See instruction sheet)

5. TYPE OF IRRIGATION: GRAVITY: _____ TOWLINE: _____ CENTER PIVOT: ☒ GUN: _____ OTHER: _____ (Specify) _____

6. CROPS TO BE IRRIGATED: CORN - SOYBEANS - ALFALFA

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

7. WATER SAMPLE NUMBER: 81-1163

8. SALINITY (EC X 10⁶): 1500

9. SODIUM (SAR): 0.80

10. ADJUSTED (SAR): 2.29 (0.7) = 1.60

I hereby certify that I personally obtained or that I personally observed that 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 WELL (a.m.)/p.m., on SEPT. 5, 1981, at the following location: CENTER OF E 1/2 SW 1/4 W 1/2 SE 1/4 22-93-54 by (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

1st DAY OF September, 1981

[Signature]

(NOTARY PUBLIC)

IMPORTANT

APPLICANT'S SIGNATURE

[Signature]

Director, Division of Conservation

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

____ APPROVED

____ DISAPPROVED

X CONDITIONALLY APPROVED

4346-3

CONDITIONAL APPROVAL

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE
DIVISION OF CONSERVATION

NAME OF APPLICANT Derald Ryken
E $\frac{1}{2}$ SW $\frac{1}{4}$ & W $\frac{1}{2}$ SE $\frac{1}{4}$ 22-93-54 = 160 acres

SOIL RESTRICTIONS:

THE SOIL(S) LISTED BELOW CANNOT BE IRRIGATED:

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

RECOMMENDED MANAGEMENT

SD-CONS-31A
5/75

SOIL MAP

RECEIVED

NOV 23 1981

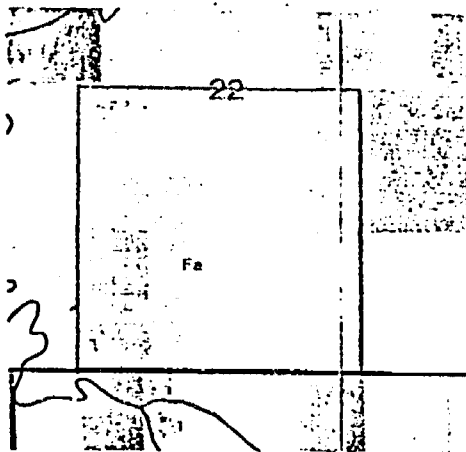
Owner Derald Ryken Operator Derald Ryken South Dakota
County Yankton State South Dakota Division of Conservation

Soil survey sheet(s) or code No.(s) sheet 42 Approximate scale 3.2



Prepared by U.S. Department of Agriculture, Soil Conservation

Service cooperating with Yankton County Conservation District



E 1/2 SW 1/4, W 1/2 SE 1/4
22-93-54

SOIL MAP LEGEND

No. 4846-3

Publish first publication on or before January 22, 1982

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Pierre, South Dakota, 57501

January 12, 1982

Notice is hereby given that Gerald & Helen Ryken whose post office address is RR #1, Box 38, Gayville, 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 (1 well) through the Ryken Irrigation

Project, the point(~~xx~~) of diversion of which is ~~xxxx~~ to be located in the approximate center of the S1

of Section 22, Twp. 93N, Range 54W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

E 1/2 SW 1/4 & W 1/2 SE 1/4, Section 22, T93N, R54W

This Application No. 4846-3 will be considered by the Water Management Board at Meeting Room #1, Kneip Building, Church & Illinois, Pierre SD upon the 3rd day of February, 1982

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

BETTY WESTLUND, Water Rights Specialist

cc. applicant

WNR-806A-10/8: Notice of Intent to Appropriate Water
GROUNDWATER

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County _____) ss.

I, Madeline Jackson hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Observer

A newspaper which during the whole time of publication of said notice,
herein after stated, has been and is printed and published in the Observer
of Gayville

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

Published Jan 22, 1982
Published Jan 29, 1982

Madeline Jackson
(Signature)

Secretary
(Title)

January 25, 1982
(Date Signed)



Cost of Printing: \$ 24.95

WNR-808-7/79
Proof of Publication

Notice

NOTICE OF HEARING ON
APPLICATION TO
APPROPRIATE WATER

Pierre, South Dakota, 57501
January 12, 1982
Notice is hereby given that Derald &
Helen Ryken whose post office address is
RR No. 1, Box 38, Gayville, 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 thru 52:01:
01:13, for a permit to appropriate for ben-
eficial use 2.23 cubic feet of water per sec-
ond of time from groundwater (1 well)
through the Ryken Irrigation Project, the
point of diversion of which is to be located
in the approximate center of the S $\frac{1}{2}$ of Sec-
tion 22, Twp. 93N, Range 54W. Said water
to be used for the purpose of
providing irrigation on portions of the
following described land:

E $\frac{1}{2}$ SW $\frac{1}{4}$ & W $\frac{1}{2}$ SE $\frac{1}{4}$, Section 22,
T93N, R54W.

This Application No. 4846-3 will be con-
sidered by the Water Management Board
at Meeting Room No. 1, Kneip Building,
Church & Illinois, Pierre, S.D. upon the
3rd day of February, 1982 at 10 A.M. The
Board is authorized to make a determina-
tion 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 wit-
nesses 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 proceed-
ing. Any person has the right to be present
or to be represented by a lawyer. These
and other due process rights will be for-
feited 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, DWRN, Joe Foss Build-
ing, Pierre, SD, prior to the hearing/date
for assistance to assure access to the
hearing.

For the Water Management Board,
S/ Betty Westlund,
Water Rights Specialist

cc: applicant
WNR-806A-10/81 Notice of Intent to Ap-
propriate Water
GROUNDWATER

Publish Jan. 22 and 29

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 8546

PIERRE, November 16, 1961

RECEIVED OF Gerald or Helen Ryken, RR 1, Box 38, Gayville, SD 57031

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

Fee for Application for Permit to Appropriate Water No. 4846-3 (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 / (b)

 **Department of
Water & Natural Resources**

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

February 17, 1989

Derald & Helen Ryken
RR 1, Box 38
Gayville, SD 57031

Dear Mr. and Mrs. Ryken:

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;

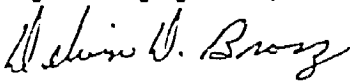


Each of these equipment requirements are discussed more thoroughly in Sections 74:02:09:05 through 74:02:09:10 of the enclosed rules. Appendix A contains diagrams of the arrangements of these anti-pollution devices.

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

No. 4846-3NOTICE OF COMPLETION OF WORKS AND/OR
APPLICATION OF WATER TO BENEFICIAL USEPost Office SAVILLIE S.D. 57031Date 2-2-88

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. 4846-3.

Water Right Permit No. 4846-3 states that the diversion system is to be constructed by 2-4-87, and that the water is put to beneficial use by 2-4-87.

The diversion system was completed on 2-10-82. Applying the water to beneficial use was completed on 6-15-82.

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.

A. Gerald Ryerson
(Signature)

RR Box 38
SAVILLIE S.D.
57031

South Dakota

GREAT FACES. GREAT PLACES.

September 12, 1991

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

4846-3

Helen Ryken
Box 157
Gayville, SD 57031

Dear Ms. Ryken:

Enclosed is a partially completed "Notice of Transfer" form for use in filing an ownership change on Water Permit No. 4846-3. The water permit is currently listed as Derald and Helen Ryken. The transfer form is being sent to you in response to last year's irrigation questionnaire.

The transfer form should be checked over for accuracy and signed in the presence of a notary public. Upon completion, return the form to our office with a required filing fee of \$2.50.

South Dakota Water Law 46-5-30.3 requires Notice of any sale, grant, lease, conveyance or other transfer of a water permit or water right to appropriate water to be filed with this office within ninety days.

If you have any questions, please contact me.

Sincerely,

Genny McMath

Genny McMath
Natural Resources Analyst
(605) 773-3352

enclosure

RECEIPT

412357

Division of Water Rights South Dakota Department of Water and Natural Resources

Pierre, _____

September 30, 1991

RECEIVED OF Helen Ryken, P.O. Box 157, Gayville, SD 57031

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. _____

Fee for Filing Transfer Form _____ Water Permit No. 4846-3

Fee for Filing Extension Request _____

Fee for Certified Copy of _____

Fee for Print Certificate _____

Fee for Certifying _____

Fee for _____
(Any Other Work Provided by Law)

Total

2 50

2 50

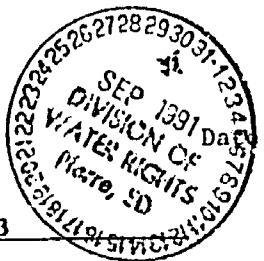
By

J. H. Hatch
Chief Engineer

NOTICE OF TRANSFER OF OWNERSHIP

To: Chief Engineer
Water Rights Division, DENR
523 E. Capitol
Pierre, SD 57501-3181

No. 4846-3



9-27-91

I request that Water Permit No. 4846-3

formerly owned by: Derald and Helen Ryken

be transferred to: (name & address) Helen Ryken, Box 157, Gayville, SD 57031

(Telephone No.) 267-4184

Title to the following described land(s)/property has been transferred as described above:

E 1/2 SW 1/4, W 1/2 SE 1/4 Section 22, T93N, R54W

I understand that the validity of Water Permit No. 4846-3 has not been determined by this transfer action. If I/We have any questions on validity, I understand that only the Water Management Board has the authority to determine if a water permit/ right is valid (see note).

You are requested to file this "Notice of Transfer" in the appropriate file at the Division of Water Rights, as evidence of the change of ownership.

A fee of Two Dollars and Fifty Cents (\$2.50) is attached to cover the filing fees as required under SDCL 46-2-13.

STATE OF SOUTH DAKOTA)
County of Yankton)

I/We Helen Ryken being first duly sworn on my oath depose and say that my relation to the above described undertaking is that of Owner, that I have read the above foregoing statement, and that I know of my own personal knowledge that the information herein stated is true.

Helen Ryken
(Signed)

Subscribed and sworn to before me this 27th day of Sept, 19 91.

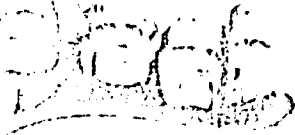
JULIE HUDSON
My Commission expires:
Nov. 26, 1994

Julie Hudson
(Notary Public)

NOTE: Water permits may be cancelled for nonconstruction within the five year construction period. Once a water permit is developed and the water used, the permit becomes a right. A water right may be lost for three reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three year period without legal excuse.
3. For a third violation of a condition of a water permit/right.

South Dakota



GREAT FACES. GREAT PLACES.

October 1, 1991

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

No. 4846-3

Helen Ryken
Box 157
Gayville, SD 57031

Dear Ms. Ryken:

Enclosed is a receipt in the amount of \$2.50 which you paid for the transfer of Water Permit No. 4846-3.

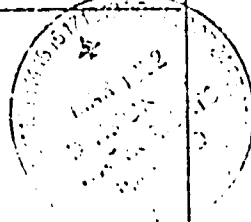
Our records now show you as the owner of Water Permit No. 4846-3.

Sincerely,

Cheryl F. Frost

Cheryl F. Frost
Secretary
Water Rights Division
605 773-3352

enclosure



Permit No. **4846-3**
Missouri River - Water District

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

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

I have this day, September 28, 1993, made a thorough examination of the water use system constructed by Derald and Helen Ryken of Gayville, SD holder of Permit No. 4846-3, bearing the priority of November 16, 1981 authorizing the diversion of 2.28 cu. ft. per second of the waters of groundwater for irrigation purposes, in Yankton County.

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

A. Works used to divert the water:

Water is diverted from a well located 2960 feet N63°W from the SE corner of Sec.22, T93N-R54W with a Western Land Roller Pump (Serial No. 82011, Head # 8M 312CH) powered by a General Electric 50 Horsepower Electric Motor (Model No. 5K6252XM502B).

B. Works used to transport water to place of use:

Water is transported through 15 feet of 12-inch diameter Aluminum Pipe from the well to the center pivot irrigation system

C. Works used to apply water to beneficial use:

Water is applied to beneficial use through a medium pressure (45-50psi), 8 tower Lockwood Center Pivot (Model No. 2265). The system is 1310 feet long and has a Nelson 100 end gun

The system is in the following condition, good. The point of diversion is located 2960 feet N63°W from the SE corner of Sec.22, T93N-R54W, (SW SW NW SE Sec.22, T93N-R54W). The works are capable of diverting and conveying to the place of use 2.22 cu. 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:

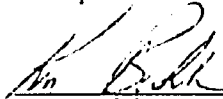
<u>NE 1/4 SW 1/4 Sec. 22, T93N-R54W</u>	<u>33 acres</u>
<u>NW 1/4 SE 1/4 Sec. 22, T93N-R54W</u>	<u>33 acres</u>
<u>SE 1/4 SW 1/4 Sec. 22, T93N-R54W</u>	<u>33 acres</u>
<u>SW 1/4 SE 1/4 Sec. 22, T93N-R54W</u>	<u>33 acres</u>

comprising a total of 132 acres of land and the license should be issued for 1.89 cfs.

Applicable permit qualifications have been complied with: Yes No

Exceptions to compliance are:

Date: November 30, 1993


Ken Buhler
Natural Resources Engineer
DENR, Water Rights Division

REPORT ON INSPECTION OF PERMIT NO. 4846-3

DATE: November 30, 1993

Other permit(s) associated with the project:

DIVERSION POINT LEGAL LOCATION: 2960 feet North 63 degrees West from the SE corner of Section 22, T43N, R54W

WELL INFORMATION:

- 1) Well Drilling Firm: Wetmore Drilling
- 2) No. of Wells one
- 3) Depth(s) 100 feet
- 4) Well log is available Y/N
- 5) Comment:

Casing:

- 1) Diameter 16 inches
- 2) Length ? feet
- 3) Type PVC

Screen:

- 1) Type Stainless Steel
- 2) Length ? feet
- 3) Static water level 15 feet

Pump:

- 1) Make Western Land Roller
- 2) Serial No. 82011, Head # 8M 312CH
- 3) Capacity 1200 GPM
- 4) Operating Pressure 45-50 psi

Motor:

- 1) Make General Electric
- 2) Model No. 5K6252XM502B
- 3) Horsepower rating 50 hp

DISTRIBUTION LINES OR CANALS:

- 1) Type Aluminum 2) Size 12 inches 3) Length 15 feet

SYSTEM TYPE:

Center pivot:

- 1) Make Lockwood (Model No. 2265) (with load management and auto restart)
- 2) Overall length 13'0 feet
- 3) Number of towers 8
- 4) End gun Y/N (Nelson 100)
- 5) High or low pressure Medium (45-50psi)
- 6) Capacity 1000 GPM

CHEMIGATION EQUIPMENT:

- 1) Does chemigate Y/N

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Soil and water permit lands agree with lands being irrigated and lands listed on permit Y/N
- 2) Special qualifications to permit being abided by Y/N
- 3) All structures, wells and lands on map Y/N
- 4) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y/N



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

May 9, 1995

4846-3

Helen Ryken
Box 157
Gayville, SD 57031

Dear Ms. Ryken:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit No. 4846-3, 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 issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

Please remit fee to:
Department of Environment & Natural Resources
Water Rights Division
523 E. Capitol
Pierre, SD 57501-3181

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

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Division
(605) 773-3352

NOTE: On check or money order, please specify your permit number. This will insure proper handling of the fee.

Please find check for \$50.00 for
water Permit No. 4846-3.



Walter Bryker

RECEIPT

414499

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, May 12 19 95

RECEIVED OF Helen Ryken, PO Box 157, Gayville SD 57031

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct 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. <u>4846-5</u>		50 00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	50 00

By John H. [Signature]
Chief Engineer

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 4846-3

(1) Derald & Helen Ryken of Gayville, SD 57031 made Application No. 4846-3, November 16, 1981 for a water permit to appropriate 2.28 cubic feet of water per second from groundwater (one well), Yankton County, South Dakota for irrigation purposes. Permit No. 4846-3, with a priority date of November 16, 1981 was approved February 4, 1982 and issued to the applicants 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, 1987.

On September 30, 1991, Water Permit No. 4846-3 was transferred to Helen Ryken.

(2) It is certified that the applicant 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 1.89 cubic feet of water per second for beneficial use. The location of the diversion points is 2960 feet N63°W of the SE corner of Section 22, T93N, R54W (NW¼ SE¼).

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate 132 acres - all in Section 22, T93N, R54W

NE¼ SW¼	33 acres
SE¼ SW¼	33 acres
NW¼ SE¼	33 acres
SW¼ SE¼	33 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Helen Ryken of PO Box 157, Gayville, SD 57031-0157 the holder and/or owner of Water Permit No. 4846-3 is issued a license to appropriate water, the right to use 1.89 cubic feet of water per second from groundwater (one well) with a priority date of November 16, 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. 4846-3 and subject to South Dakota State Law.



JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and Natural Resources

SEP 6 1995

date



4846-3

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181

SEP 6 1995

4846-3

Helen Ryken
P.O. Box 157
Gayville, SD 57031-0157

Dear Ms. Ryken:

Enclosed is Water License No. 4846-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 414499 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 4846-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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. If you have any questions, please contact our office.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division
(605) 773-3352

gm
enclosures

NOT TO SCALE

66.1

156.0

R-39

85.4

78.8

161.4
161.4

Do Be Irrigated
By Gene P. Miller Co. Ext. Agt.
-WELL LOCATION

16.4
16.4

93-54

~~DEPT # 4846-3~~

Appl # 4846-3

NOT TO SCALE

66.1

156.1

R-39

85.4

72.8

161.4

Is Be Irrigated
By Lane & Miller Co. E. & S. apt

well location

93-54

~~Map # 4846-3~~ Appl # 4846-3

NOT TO SCALE **1993**74.0
T213156.0
T140 140.0

85.4

SEC. 22, T93N-R54W

N

73.8
T228

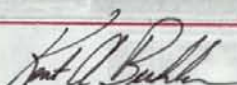
EXTENT OF IRRIGATION

T159
NE 1/4 SW 1/4
33 ACRESNW 1/4 SE 1/4
33 ACRES15' OF 12" DIA.
ALUMINUM PIPE
FROM WELL TO POINT

WELL

SE 1/4 SW 1/4
33 ACRESSW 1/4 SE 1/4
33 ACRES

93-54

2960.0
10.0
N 63° W

 NATURAL RESOURCES ENGINEER
 WATER RIGHTS DIVISION



4846-3

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.denr.sd.gov

October 27, 2016

4846-3
7565-3

James Ryken
31321 451st Ave
Gayville SD 57031 6515

Dear Mr. Ryken:

Thank you for the email correspondence concerning the need for an ownership change on Water Right No. 4846-3 and Water Permit No. 7565-3. I have included copies of both of them for your records.

Enclosed are partially completed Notice of Transfer of Ownership forms for filing the ownership changes. Upon completion, please sign and return the forms to our office with a required filing fee of \$50.00 each (total of \$100). The check or money order for the fee can be made payable to the Water Rights Program.

I have also enclosed the 2016 irrigation questionnaires for Nos. 4846-3 and 7565-3. Please complete and return those along with the transfer forms and fees prior to December 1st. If you have any questions concerning the enclosed materials, please give me a call.

Thank you in advance,

Sincerely,

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

enclosures

NOTICE OF TRANSFER OF OWNERSHIP

To: Chief Engineer
Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

No. 4846-3

Date: 11/14/16

I/We request that Water Right No. 4846-3

formerly owned by: Helen Ryken

be transferred to: (name & address) James Ryken, 31321 451st AVE,
Gayville, SD 57031

Telephone No. 605 267 4128

Title to the following described land(s)/property has been transferred as described above:

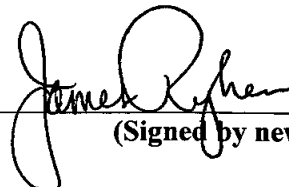
132 acres - E 1/2 SW 1/4 and W 1/2 SE 1/4 Section 22, T93N, R54W

I/We understand that the validity of Water Right No. 4846-3 has not been determined by this transfer action. If I/We have any questions on validity, I/We understand that only the Water Management Board has the authority to determine if a water permit/right is valid (see note).

You are requested to file this "Notice of Transfer" in the appropriate file with the Water Rights Program, as evidence of the change of ownership.

A fee of Fifty Dollars (\$50.00) is required to cover the filing fees as required under SDCL 46-2-13. This form must be signed by the new owner.

I/We James Ryken, the new owner, certify that the above information is true and correct.


(Signed by new owner)

NOTE: Water permits may be cancelled for nonconstruction after the five year construction period has expired. Once a water permit is developed and the water used, the permit becomes a right. A water right may be lost for three reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three year period without legal excuse.
3. For a third violation of a condition of a water permit/right.

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 11/17, 20 16

RECEIVED OF Helen Ryken Revocable Trust 31321 451st Ave Gayville SD 57031

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct 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. _____		
Fee for Filing Transfer Form <u>4846-3</u>	50	00
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	50 00

No. **07952**

By *Joan Korman*
Chief Engineer

4846-3



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.denr.sd.gov

November 17, 2016

4846-3
7565-3

James Ryken
31321 451st Ave
Gayville SD 57031 6515

Dear Mr. Ryken:

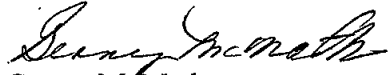
I am writing to acknowledge receipt of the transfer forms and filing fees for changing ownership on Water Right No. 4846-3 and Water Permit No. 7565-3.

The ownership changes have been completed. Nos. 4846-3 and 7565-3, formerly listed in the name of Helen Ryken are now listed in your name.

Thank you for including the irrigation questionnaires with the transfer forms. Everything is up to date for another year.

Enclosed for your records are Receipt No. 07952 and 07953 in the amount of \$50 each.

Sincerely,


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

enclosures