

Water Right Number 2012-3

1. Considered November 14, 19 73
2. Name of Applicant Elmer Reiererson
3. Post Office Address Herreid, S.D.
4. Amount of water claimed 1.92
5. Source of water supply ground water
6. Water to be used for irrigation
Acres to be irrigated 135
7. Water to be diverted and used in Campbell County
about 4E 1S Miles of Pollock
8. Proof of Publication Received ~~1st~~ 11-13-73
Not received _____
9. Application Approved _____
Subject to _____
Not approved _____
Action deferred _____

10. Remarks:



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

August 2, 2011

2012-3

Terry Vander Vorst
30338 Vander Vorst Place
Herreid SD 57632

Dear Mr. Vander Vorst:

I am writing in regard to Water Right No. 2012-3. The water right authorizes diversion of ground water to irrigate the SE ¼ Section 30, T128N, R77W.

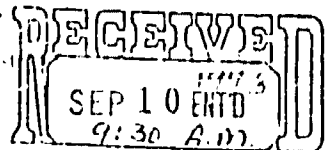
The water right originally held by Elmer Reiersen was transferred to you in 2007. At that time, you indicated the land had been re-enrolled in CRP until 2011. Have you made a decision yet as to whether you will irrigate the land or has it been re-enrolled in CRP for another term?

Please get in touch with me to discuss the water right.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath". The signature is written in a cursive, flowing style.

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

No. 2012-3Map No. 1425-3 Water Division No. 3 MISSOURI RIVER Dist. 1
(Blanks to be filled by the Engineer for the W. R. C.)

APPLICATION FOR PERMIT

STATE WATER RIGHTS COMM.
PIERRE, SOUTH DAKOTA

To Appropriate Water within the State of South Dakota

(NOTE: Draw a line through items not applicable)

1. Name of Applicant Edmond Peterson
 Post-office address Verona, S.D. State S.D. 576-32
 If operation show date and place of operation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) Empire Drilling Co.
3. Name of diversion work Irrigation well
4. Amount of water claimed (cubic feet per second) 2 1/2 cfs ^{1.42 gpm per cfs} per second
5. Source of water supply Irrigation Well
6. Location of point of diversion Center of S.E. 1/4 Sec. 30 12S-77
- County Campbell
7. Annual period or periods during which water is to be used April through August
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 135

List below each forty-acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.	Land Description	No. Acres Irr.
<u>NE 1/4 of S.E. 1/4</u>	<u>33.8</u>		
<u>NW 1/4 of S.E. 1/4</u>	<u>33.8</u>		
<u>SE 1/4 of S.E. 1/4</u>	<u>33.8</u>		
<u>SW 1/4 of S.E. 1/4</u>	<u>33.8</u>		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 1 years. Additional time required to complete application of water to the proposed beneficial use 1 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Pollack Pioneer
12. Principal features of the Proposed Water Supply System:

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

Irrigation Pumps

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

Pipes

C. Works proposed to apply water to beneficial use:

Center Pivot SystemEstimated Total Cost \$ 28,000.00

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water is proposed. Attach map.
 (See instructions concerning preparation.)

STATE OF SOUTH DAKOTA

County of CampbellI, Edmond Peterson, 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 preparation.Subscribed and sworn to before me this 6th day of September, 1973

Harold Rose Registrar of Deeds
 Notary Public for other qualified officers

WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 2012-3

ELMER REIERSON
(Applicant)

HERREID
(Post Office Address)

SOUTH DAKOTA With the following modifications:
(State)

The irrigation well approved under this Permit is located near domestic wells which may obtain water from the same aquifer. The irrigation well owner, under this Permit, shall control his irrigation withdrawals so there is not a reduction of needed water supplies in existing domestic wells.

Date of first receipt of application: SEPTEMBER 20 19 73
Date of return to applicant for correction, amendments or changes required: SEPTEMBER 10 19 73
Date of receipt of corrected application: SEPTEMBER 20 19 73
Approved NOVEMBER 14 19 73 Recorded in Book 12 Page 273

WATER RIGHT PERMIT NO. 2012-3

The Water Resources Commission hereby grants and issues this Water Right Permit No. 2012-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is SEPTEMBER 10 19 73
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before MAY 14 19 74
3. The whole of said work is to be completed on or before NOVEMBER 14 19 74
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is NOVEMBER 14 19 75
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 1.92 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation must be limited to not more than 3 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before NOVEMBER 14 19 75; said water to be used during the following described annual period: APRIL THRU AUGUST

Witness my hand this 16TH day of NOVEMBER 19 73

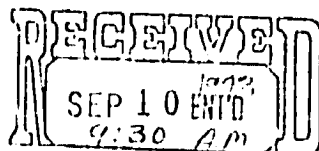
WATER RESOURCES COMMISSION

By:

Donald Russell
Chief Engineer, Executive Officer

Certificate of Construction Issued APRIL 19 19 76

Water License Issued APRIL 19 19 76



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

D. Well Information or Estimates

(1) Drill Hole, Diameter 13 1/8", Depth 190'
 (2) Casing, Type steel (wood, concrete, steel, etc) Diameter 12" Thickness 3/4"
 (3) Perforated Screen, Type Johns-Manville Screen, Diameter 10", Length 25'
 (4) Gravel Pack, Thickness 8", Length of gravel pack 190'

E. Dugout Information or Estimates.

(1) Surface dimensions _____, Depth _____

F. Fill out for Either a Well or a Dugout.

(1) Water Bearing Materials. (Please attach a copy to test well log if available.) copy attached

Character of Water bearing materials _____

Depth to top of water bearing material 0' attached

Depth to bottom of water bearing material 0' attached

Thickness of water bearing material 35 ft.

Depth to water (ground surface to water level) 35 ft.

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

On same owner's property 440 rds. On property owned by others 320 rds.

G. Water Storage Dams.

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

no storage capacity needed.

[Signature]
 Signature of Applicant

Conservation
Commission
Form WI #1

*New sample has been
submitted.*

FOR COMMISSION USE ONLY

Irrigation System: *OK*

Water Quality: *Fair*

Soils Capability: *good*

Approved: *9/19/73*

Disapproved: _____

RECEIVED
SEP 20 1973

STATE WATER RIGHTS COMM.
PIERRE, SOUTH DAKOTA

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION

FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED

(This Form Required for Proposed Well Irrigation Only)

NAME: *Elmer Kierman*

ADDRESS: *Verred, S.D. 57632*

COUNTY: *Campbell*

LEGAL DESCRIPTION

1. WELL LOCATION: *SE 1/4 Sec 30 128-77*
2. AREA TO BE IRRIGATED: *SE 1/4 Sec 30 128-77*

TYPE OF IRRIGATION

3. GRAVITY SPRINKLER (Indicate Type): *Center pivot*
4. CROPS TO BE IRRIGATED: *Corn & alfalfa*

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: *3 - 6% (mostly 3-4%)*
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: *Class II Capability*
Oke-Sandy complex. This information is in the
State Water Rights Commission by
Wayne Noble, S.E.S. Technician

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: *73-541*
8. SALINITY: *24.1*
9. SODIUM: *9.79*

The high sodium and salinity content of the water in this application is offset by the fact that the area has less than three feet of permeable top soil underlaid by some 5 feet of sand and gravel which will provide for a free flow of the salts through the soil.

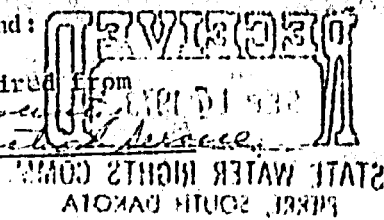
The water will be applied at the rate of 1 to 1 1/2 inches per irrigation.

I do hereby certify that a chemical analysis of the ground water to be acquired for irrigation from South Dakota State University and:

the land capability for irrigation information has been acquired from

South Dakota State University

Cambridge Soil Conservation Service



and:

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

E. L. Peterson

Subscribed and sworn before me this

16th day of September 1973.

Sioux Falls

Register of Deeds

(Title)

SOUTH DAKOTA

No. 2012-3

Water Resources Commission

STATE OFFICE BUILDING
PIERRE, SOUTH DAKOTA
57501

September 10, 1973

Mr. Elmer Reiersen
Herreid, S.D. 57632

Dear Mr. Reiersen:

Your application No. 2012-3 for a permit to appropriate 1.92
cubic feet of water per second from ground water
in Campbell County near Herreid,

South Dakota, has been received and examined.

Enactment of Senate Bill 42 (SDCL 46-6-3, as amended) by the 1972 Legislature specifies that effective July 1, 1972 a water right applicant shall submit with the water right application, supporting information approved by the State Conservation Commission, or its designated representative, which recognizes the feasibility of irrigating in the manner intended by the applicant and that such irrigation will not have a permanent injurious effect upon the soil. Please return such information approved by the State Conservation Commission with the enclosed application forms.

In accordance with SDCL 45-5-16, as amended, you will now have sixty days from date of this letter to correct your application and to refile same in this office to maintain the priority date of your application.

Encl: Receipt No. 4 2352 and
instruction sheet.

We require a map prepared in
accordance with the enclosed
instruction sheet.

Sincerely,

BURTON F. JONES
Water Rights Specialist
Water Resources Commission

BFJ/bw

cc: Howard Geers, State Conservation Commission, State Office Building #2
Pierre, S.D. 57501

September 17, 1973

Elmer K. Referson
Perriell, South Dakota 57632

Dear Mr. Referson:

We have analyzed the second sample submitted by you in connection with your effort to find suitable irrigation water.

The second sample is slightly higher in total salinity—enough to put it in the 'very high salinity' category, but is much more suitable with respect to the sodium or 'alkali hazard'.

This water can be used on salt-tolerant crops such as barley or sugar beets, or possibly corn if the soil is not more than 12 inches thick over free-draining gravel or sand. The reason for this requirement is the very high salinity of the water. The land could be ruined in 5 years or less unless the internal drainage requirement is met.

Sincerely yours,

Lawrence O. Fine, In Charge
Water Quality Lab

LOF:lmh

cc: State Conservation Commission, Darrell Vahl, Michael Madden
enclosures



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

Submitted by: Dr. E. J. ... Date Rec'd: ...
 Address: ... Sample No.: ...
 Identification: ...

WATER ANALYSIS

Calcium (Ca)	ppm*	11.20	me/l**
Magnesium (Mg)	ppm	1.20	me/l
Sodium (Na)	ppm	5.75	me/l
Potassium (K)	ppm	0.42	me/l
Sulfate (SO ₄)	ppm		me/l
Nitrate (as N)	ppm		me/l
Chloride (Cl)	ppm		me/l
Bicarbonate (HCO ₃)	ppm		me/l
Carbonate (CO ₃)	ppm		me/l
Iron (Fe)	ppm		me/l
Fluoride (F)	ppm		me/l
Hardness (EDTA as CaCO ₃)	ppm		g.p.g.***
Alkalinity (Methyl Orange)	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	ppm (as CaCO ₃)		
Electrical Conductivity	micromhos per cm at 25° C.	2401	
Sodium Adsorption Ratio			
Sodium	% of cations		
Residual sodium carbonate	me/l		
pH			
Others:			

*ppm==parts per million

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

**me/l==milliequivalents per liter

COMMENTS:

This water sample is considerably higher in total salt [EC=2401; first sample, 1880], and much lower in sodium. Thus the water is probably suitable for highly salt tolerant crops such as barley or sugar beet but should be used only on very well-drained soils with a layer having gravel or sand that is free draining not more than 40 inches below the soil surface.

207

By: ...

Service Performed

Amount Due

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. ...

Amount Enclosed \$...

Signed ...

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

Submitted by: Elmer Peterson
Address: Leola, South Dakota
57632

Date Rec'd: Apr 8, 1973
Sample No.: 73-262
Identification: Sec. 30, T 123N, R 77W

WATER ANALYSIS

Calcium (Ca)	123	ppm*	6.16	me/l**
Magnesium (Mg)	0.5	ppm	0.04	me/l
Sodium (Na)	390	ppm	16.93	me/l
Potassium (K)	15.5	ppm	0.40	me/l
Sulfate (SO ₄)	182	ppm	3.33	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	5	ppm	0.14	me/l
Bicarbonate (HCO ₃)	942	ppm	15.47	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)	310	ppm	15	g.p.g.***
Alkalinity (Methyl Orange)	772	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1880	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	9.53			
Sodium	71.99	% of cations		
Residual sodium carbonate	9.24	me/l		
pH	7.55			
Others:				

*ppm==parts per million

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

**me/l=milliequivalents per liter

COMMENTS: Total cations 23.56 me/l
Total anions 19.46 me/l

By: Shirley Kitten

Service Performed

Amount Due

Irrigation analysis

\$6.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 73-262

Amount Enclosed \$

Signed

May 11, 1973

Mr. Elmer Referson
Harreid, South Dakota 57632

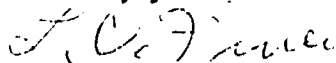
Dear Mr. Referson;

Your water sample (73-262) has been received and analyzed. The approximate quality is denoted by the position of the red cross on the back cover of extension circular #654 which is enclosed.

The water is a "high salinity, high sodium" water, and although the sodium hazard is near the "medium" level, there is real danger of both a salt problem and a sodium dispersion of clay occurring after a few years of use of this water. The very high "residual sodium carbonate" (9.24) of this water rules it out for irrigation because this hastens the precipitation of calcium when the irrigation water becomes the soil solution, making the water a "100% sodium" water.

If there is any possibility the water was contaminated by the container, or otherwise, we will be glad to analyze a new sample, without charge.

Sincerely yours,



Lawrence O. Fine, In Charge
Water Quality Lab

LOF:lb

encl

cc: State Conservation Commission, Darrell Pahl, Michael Madden

Conservation
Commission
Form WI #1

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(This Form Required for Proposed Well Irrigation Only)

FOR COMMISSION USE ONLY

Irrigation System: Center Pivot

Water Quality: Good

Soils Capability: S₁

Approved: 11/2/1973

Disapproved: [Signature]

NAME: Elmer Keirson
ADDRESS: Merced, S. D. 57632
COUNTY: Campbell

LEGAL DESCRIPTION

1. WELL LOCATION: SE 1/4 of Sec. 20 T28N 77E
2. AREA TO BE IRRIGATED: approximately 130 acres
some description of area

TYPE OF IRRIGATION

3. GRAVITY SPRINKLER (Indicate Type): Center Pivot
4. CROPS TO BE IRRIGATED: Alfalfa & Corn

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: 2 1/2 to 4 %
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: 35 acres of Class 1
75 acres of Class 2

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: _____

8. SALINITY: _____

9. SODIUM: _____

I do hereby certify that a chemical analysis of the ground water to be
acquired for irrigation from South Dakota State University and:

the land capability for irrigation information has been acquired from

South Dakota State University, Marshall County, La. County, La.
and: also Bureau of Reclamation Map. *W. H. H. H.*

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

James L. H. H.

Subscribed and sworn before me this

4th day of May 19 73.

James H. H.

Register of Deeds

(Title)

Permit No. 2012-3

Water Diversion No. 3 MISSOURI RIVER Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That Elmer Reierse

_____ the holder _____ of
Permit No. 2012-3, issued upon Application No. 2012-3, bearing date of priority of September 10,
1973 authorizing the diversion of 1.89 cu. ft. per second of the waters of _____
ground water County of Campbell, State of South Dakota at _____
a point 1320 ft. North and 1350 ft. West of the SE Corner,
Section 30, T128N, R77W
_____, for irrigation

_____ has _____ complied with the provisions of the laws of the State of South Dakota relating to proof of
completion of the works of diversion set out and described in said Permit; that said works are found in satisfactory
condition for diverting and conveying to the place of intended use 1.89 cu. ft. per second of water.

Date April 19, 1976

By:

WATER RIGHTS COMMISSION

John Hatch
JOHN HATCH, Chief Engineer

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2012-3

(1) WHEREAS, On the 10th day of September A. D. 19 73

Elmer Nelson

made Water Right Application No. 2012-3 for a permit to use 1.92 cubic feet per second of the waters of ground water

County of Campbell State of South Dakota, for irrigation

purpose and

(2) WHEREAS, On the 10th day of November A. D. 19 73

Permit No. _____ with a date of priority on September 10, 1973

was issued to said applicant _____ for the diversion of said water, and provided for the completion of construction of the water supply system therein described on or before the 14th day of November A. D. 19 74 and for the application to beneficial use of said water on or before the 14th day of November A. D. 19 75

and:

(3) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to completion of the construction of the water supply system and is entitled to divert 1.33 cubic feet per second of water for beneficial use and,

(4) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to the application of water to beneficial use of the following extent,

for irrigating a 135.2 acre circle in the 66 $\frac{1}{4}$, Section 39, T123R,

R77E.

(5) NOW, THEREFORE, By the virtue of the authority vested in us by the laws of the State of South Dakota, We hereby grant and confirm to Elmer Referson

of Herreid, S.D.

the holder _____ and owner _____ of a permit No. 2012-3 a water right, dating from September 10, 1971

_____ to use of 1.89 cubic feet per second of the water of ground water

in the County of Campbell and State of South Dakota, or so much thereof as may be necessary for the purposes hereinbelow mentioned, to be diverted at _____

a point 1320 ft. North and 1350 ft. West of the SE Corner,

Section 30, T128N, R77W

and conduct to and upon _____

a 135.2 acre circle in the SE $\frac{1}{4}$, Section 30, T128N, R77W

for the purpose of irrigation

Subject to any limitations listed in Water Right Permit No. 2012-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota

this 19th day of April A. D.

Nineteen Hundred and Seventy-six

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer JOHN HATCH

2012-3

October 25

73

Publish first publication, on or before

19

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

September 21

19 73

Elmer Referson

Notice is hereby given that

Herreid

whose post office address is _____, South Dakota, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use _____
1.92 _____ cubic feet of water per second of time from the _____ through the
Referson Irrigation Well _____, the point of diversion of which is to be located in the _____

Center of the SE $\frac{1}{4}$

30

126N

77W

of Section _____ Twp. _____, Range _____, Said water to be used for the purpose

of providing irrigation on the following described land:
SE $\frac{1}{4}$, Section 30, T126N, R77W

2012-3

This application No. _____

will be considered by the Water Rights Commission at their office at

14th

November

73

2:30 P.

Pierre upon the _____ day of _____, 19 _____, at _____ M. All interested

persons may appear and be heard.

~~WATER RESOURCES COMMISSION~~
WATER RIGHTS COMMISSION

By:

BURTON P. JONES, Water Rights Specialist

BFJ/bw

cc: Elmer Referson, Herreid, S.D. 57632

No. 2012-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Campbell) ss.

I, Elmer Kay hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Pollock Pioneer

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

Town of Pollock

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

Sept 27 - 1973

Oct 4 - "

Elmer Kay
(Signature)

owner
(Title)

Oct 25/73
(Date Signed)

Rec'd
11-13-73

NOTICE
INTENT TO
APPROPRIATE WATER

Pierre, South Dakota 57501
September 21, 1973

Notice is hereby given that
Elmer Referson, whose post office address is Herreid, South Dakota, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 3.92 cubic feet of water per second of time from ground water through the Referson irrigation well, the point of diversion of which is to be located in the center of SE 1/4 of Section 30, Twp. 21, 128N, Range 77 W. Said water to be used for the purpose of providing irrigation to the following described land: SE 1/4, Section 30, T 128 N, R 77 W.

This application No. 2012-3 will be considered by the Water Rights Commission at their office in Pierre upon the 14th day of November, 1973, at 2:30 P. M. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By: BURTON F. JONES
210.1 Water Rights Specialist

2012-3

(1) WELL CONSTRUCTION

Location of well: SE 1/4, NW 1/4, SE Section. 30 Township 12S Range 77

Well owner Elinor Riese Polkville, SD
(Name) (Address)

Date well drilling completed 7/30/73 Purpose of well irrigation
(domestic, irrigation, municipal, industrial, other)

WELL LOG

[illegible]

Attach sheet if more space is needed

Depth to top of water producing aquifer 16.5 ft.

Depth to static water level 35 ft.

Name of producing adviser (if known) _____

Total depth of drill hole 190 ft.

Depth to bottom of casing 190 ft.

Casing information: In the space below show kind, size, weight, length per diameter, etc., for production casing and surface casing, if used.

145 ft. 12" Atrial evening

Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations.

25 ft. 10" Johnson Migrator
Holt. Steel Screen.

If a flowing well, flow of completed well _____ G P.M.

EMPIRE IRRIGATION DRILLING CO., INC.
Name of Drilling Contractor

(2) PUMP INSTALLATION

Company name and size of pump Western Land Reclamation 8 1/2 x 2 x 1 1/4 HP 60

Type of pump turbine w/ 9-550 100 cfm hse Capacity of installed pump 950 G.P.M.

Depth of pump placement 100 ft., Date of pump installation 7/30/77

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____, tube material _____.

EMPIRE ORIENTATION DRILLING CO., INC.
Name of Pump Installation Contractor

Jump - Machine Gun
Serial # D73136, Head 2M,
7. 1910-M. 100. 100. 100. 100.
(Jump) 100. 100. 100. 100.
10. 10. 10. 10. 10. 10. 10. 10.
Killing shot. 100. 100.
Engine. 100. 100. 100. 100.
HT. 100. 100. 100. 100.
Serial # 100. 100.

Valley. 100. 100. 100. 100.
7. 100. 100. 100. 100.
Beam 100. 100. 100. 100.
out 100. 100.

Permit No. 2012-3Water Division 3 Missouri River Water District

**REPORT OF EXAMINATION OF WORKS
AND/OR APPLICATION OF WATER TO BENEFICIAL USE**

TO: Water Resources Commission, State Office Building No. 2, Pierre, South Dakota 57501

I have this day made a thorough examination of the water use system constructed by Eliot
Reierson of Harried, S. Dak. holder
of Permit No. 2012-3, bearing date of priority of September 10, 1973
authorizing the diversion of 1.92 cu. ft. per second of the waters of Ground water
for Irrigation purposes, in CAMPBELL County.

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

The Water Use System consists of,

A. Works used to divert the water:
Pump - Western Land Roller, Head # 8M, Serial # D 73136.
9 bowls, 10 inch pump. Pump head, 50 HP; 1760 RPM
Hollow shaft Gear Drive, 850 GPM.
Engine, Chrysler Industrial, Model. HT 413/701/5A,
Serial # E 183543, Propane Fuel.

B. Works used to transport water to place of use,
Well located by center pivot.

C. Works used to apply water to beneficial use.
Center Pivot, Valley, 7 lower, Model 1758, Serial # 10028.

The system is in the following condition: Good

The point of diversion is located 1320 ft North and 1350 ft west of the
SE corner of Section 30, T128N R77W

The works are capable of diverting and conveying to the place of use 1.89c. ft. per second of water which is to be used for IrrigationWater has been put to beneficial use to the maximum extent as follows: All in Section 30 T128N R77W.

NE 1/4 SE 1/4 - 33.8 Ac
NW 1/4 SE 1/4 - 33.8 Ac
SE 1/4 SE 1/4 - 33.8 Ac
SW 1/4 SE 1/4 - 33.8 Ac

comprising a total of 135.2 acres of land.Well capacity 1025 gpm

Date March 29 1976
L. Roy J. McManis
(Signature)

Is your RETURN ADDRESS completed on the reverse side?

SENDER:

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

3. Article Addressed to:

ELMER K REIERSON
BOX 423
POLLOCK SD 57648

5. Received By: (Print Name)

ELMER REIERSON

6. Signature: (Addressee or Agent)

X *Elmer Reiersen*

4a. Article Number

2012-3, P 378 081 393

4b. Service Type

☐ Registered

☐ Express Mail

☐ Return Receipt for Merchandise

☒ Certified

☐ Insured

☐ COD

7. Date of Delivery

2/10/97

8. Addressee's Address (Only if requested and fee is paid)

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

Domestic Return Receipt

Thank you for using Return Receipt Service.



2012-3

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

February 4, 1997

NOTICE

TO: ELMER K REIERSON, BOX 423, POLLOCK, SD 57648

FROM: Ron Duvall, Natural Resources Engineer
for John Hatch, Chief Engineer
Water Rights Program

SUBJECT: Violation of Requirement to Submit 1996 Irrigation Questionnaire

Our records indicate that the 1996 Irrigation Questionnaire has not been submitted for Permit No(s) 2012-3. The request for the Questionnaire was dated October 24, 1996. The Water Management Board has directed that owners of water permits who have not submitted the 1996 Irrigation Questionnaire be given notice of hearing to determine if any Board action is to be taken concerning the violation.

The hearing will be held at 2:30 pm, March 5, 1997, in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol, Pierre, SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. Following the hearing, the Water Management Board can:

1. Amend Permit No(s) 2012-3 to require the Irrigation Water Use Questionnaire to be submitted each year;
2. Postpone any action; or
3. Take no action.

The hearing is an adversary proceeding. The permit owner 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. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

If the questionnaire(s) is(are) received in this office on/or before February 28, 1997, your name will be deleted from the Board agenda. If you have any questions or need assistance with completion of the irrigation questionnaire(s), please contact Genny McMath at (605) 773-3352.

Note: Please contact the Water Rights Program, Joe Foss Building, 523 E Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

February 20, 1997

2012-3

Elmer K Reiersen
Box 423
Pollock, SD 57648

Dear Mr. Reiersen:

I am writing to acknowledge receipt of your 1996 irrigation questionnaire. You may disregard the February 4, 1997, Notice of Violation of the Requirement to Submit the 1996 Irrigation Questionnaire.

I completed a questionnaire for you based on your February 11th telephone conversation with Karen Schlaak, with our office.. The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

Thank you for calling and if you have any questions, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352



CONSERVATION PLAN MAP

Prepared by SOIL CONSERVATION SERVICE ★ UNITED STATES DEPARTMENT of AGRICULTURE
cooperating with

CAMPBELL COUNTY

S. C. DISTRICT

OWNER Elmer Reiersen

OPERATOR same

Campbell

COUNTY

S. Dak.

STATE

FARM NO.

DATE 10-1-73

SCALE

8"

ACRES

PHOTO NO.

APPROXIMATE
CBK-1LL-50

APPROXIMATE



MAP NO 1425 (APPL NO 2012-3)



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

August 9, 2007

2012-3

Elmer K Reiersen
PO Box 423
Pollock SD 57648

Dear Mr. Reiersen:

I am contacting you in regard to your Water Right No. 2012-3. The water right authorizes diversion of ground water to irrigate the SE ¼ Section 30, T128N, R77W.

Our records show that the land described in this water right has been in CRP. The purpose of my letter is to find out whether the land comes out of CRP in 2007 or if it is actually in CRP through 2007 and will be eligible for irrigation in 2008. We have held up mailing irrigation questionnaires to you while the land has been in CRP but will begin sending them to you once irrigation resumes.

Please get in touch with me to discuss the water right and the duration of your enrollment in the CRP Program. You can either call me or if it is easier, you can answer the questions below and return the letter in the enclosed envelope.

- 1) Will the land come out of CRP and be eligible for irrigation in 2007 or 2008? _____
- 2) Will the land be re-enrolled for another term? _____
If yes, what year will it come out: _____
- 3) Do you intend to irrigate once the land comes out of CRP? _____
- 4) Do you still own the land? _____
(If the answer is no, please let us know the name and mailing address of the new owner.)

Thank you in advance for your help in updating your water right.

Sincerely,

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

enclosures

WATER RIGHTS PROGRAM -- FILE DOCUMENTATION

NAME & ADDRESS: Terry Vander Vorst, 30338 Vander Vorst Place, Herreid SD 57632

DATE: August 13, 2007

TELEPHONE:

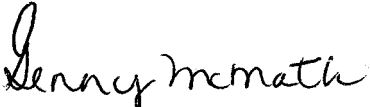
RE: ownership and status of CRP

COMMENTS:

On August 9th, I sent a letter to Elmer Reiersen asking if he still owned the land under Water Right No. 2012-3 and if the land was still in CRP or if it was eligible for irrigation this year.

On August 13th, Terry Vander Vorst called saying he was now the owner of the property. Elmer Reiersen was his father-in-law and had passed away. The land was re-enrolled in CRP for another 4 years and will be out in 2011.

He said the well and system are still there and he may or may not irrigate when it comes out of the program. For the time being, he said he would go ahead and get the water right transferred to his name and would let us know when the land comes out of CRP if he will begin irrigation.


Genny McMath
Water Rights Program



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 13, 2007

2012-3

Terry Vander Vorst
30338 Vander Vorst Pl
Herreid SD 57632

Dear Mr. Vander Vorst:

Thank you for contacting us regarding Water Right No. 2012-3 listed in the name of Elmer Reiersen.

Enclosed, as we discussed, is a partially completed Notice of Transfer of Ownership form for filing an ownership change. Please review the form and make any necessary corrections. Upon completion, please sign the form and return it to our office with a required filing fee of \$2.50. The check or money order for the fee can be made payable to the Water Rights Program.

With regard to irrigation of the land, you indicated the land was re-enrolled for another 4 years in the Conservation Reserve Program. We will contact you again in 2011 to find out the status of irrigation on the land.

If you have any questions concerning completion of the enclosed "Notice of Transfer of Ownership" form or about the water right itself, please contact me.

Sincerely,

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

enclosure

RECEIVED

AUG 21 2007

WATER RIGHTS
PROGRAM

NOTICE OF TRANSFER OF OWNERSHIP

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

No. 2012-3

Date: 8-20-07

I/We request that Water Right No. 2012-3

formerly owned by: Elmer K Reiersen

be transferred to: (name & address) Terry L Vander Vorst
30338 Vander Vorst Pl.
Herreid, S.D. 57632 Telephone No. 605-437-2296

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

SE ¼ Section 30, T128N, R77W

I/We understand that the validity of Water Right No. 2012-3 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 Two Dollars and Fifty Cents (\$2.50) 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 Terry L Vander Vorst, the new owner, certify that the above information is true and correct.

Terry L Vander Vorst
(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 8/21, 20 07

RECEIVED OF Terry Vander Vorst 30338 Vander Vorst PL Herreid SD 57632

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	2	50
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 2012-3		
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. _____	2	50
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	
	2	50

No.

08137

By [Signature] Eschle
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 22, 2007

2012-3

Terry L Vander Vorst
30338 Vander Vorst Pl
Herreid SD 57632

Dear Mr. Vander Vorst:

I am writing to acknowledge receipt of the ownership change and filing fee you submitted for transferring Water Right No. 2012-3. The transfer has been completed. The water right formerly held by Elmer K Reiersen is now listed in your name.

Enclosed is your Receipt No. 03137 in the amount of \$2.50. You may keep this for your records.

If I can answer any questions for you, please contact me.

Sincerely,

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

enclosure

WATER RIGHTS PROGRAM -- FILE DOCUMENTATION

NAME & ADDRESS: Terry Vander Vorst, 30338 Vander Vorst Place, Herreid SD 57632

DATE: October 17, 2011

TELEPHONE:

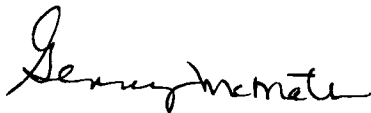
RE: ownership and status of CRP

COMMENTS:

Terry Vander Vorst called in response to an August, 2011 letter I sent to him regarding the status of CRP enrollment. He indicated the land came out of CRP this year and he has not yet decided on whether or not he will put up a system.

I discussed legal excuse with him and explained that while the land was in CRP he would not lose his water right but now that it is out, he technically has three years in which to make a decision on putting up a new system.

He indicated he would complete the questionnaire indicating he did not irrigate.



Genny McMath
Water Rights Program

Gronlund, Eric

From: Gronlund, Eric
Sent: Friday, December 28, 2012 8:30 AM
To: McMath, Genny; Schlaak, Karen
Subject: WR No. 2012-3, VanderVorste

Terry Vander Vorste called. He holds WR No. 2012-3. The land had been in CRP until 2011. He is going to set up irrigation on the land. Our prior conversations have been that he had until 2014 to set up a system again or be subject to forfeiture for nonuse. He wanted to let us know he has decided to invest in irrigation equipment.