

Water Right Number 3994-3

1. Considered 7-27, 1977
2. Name of Applicant GLYNDON KNUTSON
3. Post Office Address CENTERVILLE
4. Amount of water claimed 1.14 *
5. Source of water supply 138' DEEP WELL (EXISTING)
6. Water to be used for IRRIGATION

Acres to be irrigated 160

7. Water to be diverted and used in CLAY County
about 3S, 3W Miles of CENTERVILLE

8. Proof of Publication



Received 7-18-77

Not received _____

9. Application

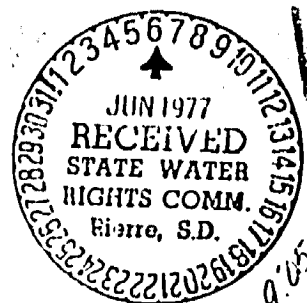
Approved _____

Subject to _____

Not approved _____

Action deferred _____

10. Remarks:

No. 3994-3Map No. 3242-3 Water Division No. 3 VERMILLION RIVER District
(Blanks to be Filled by the Engineer for the W. R. C.)

APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

(NOTE--Draw a line through items not applicable)

1. Name of Applicant Glyndon Knutson
 Postoffice address Centerville, State South Dakota 57014
 If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) contract & direct labor
3. Name of diversion work Glyndon Knutson Irrigation Project
4. Amount of water claimed (cubic feet per second) 1.14
5. Source of water supply Well
6. Location of point of diversion 2942 feet North 29° East of SW Corner of
Section 5, T95N, R52W
 _____ County Clay
7. Annual period or periods during which water is to be used April thru October
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.
NW $\frac{1}{4}$ NW $\frac{1}{4}$	40	All in Sec. 5, T95N, R52W	
SW $\frac{1}{4}$ NW $\frac{1}{4}$	40		
NW $\frac{1}{4}$ SW $\frac{1}{4}$	40		
NE $\frac{1}{4}$ SW $\frac{1}{4}$	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 3 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Centerville Journal
12. Principal Features of the Proposed Water Supply System.

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

Existing Well

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

Underground pipeline

C. Works proposed to apply water to beneficial use.

Centerpivot systems

Estimated Total Cost \$ 22,000.00Attachments: 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 ClayI, Glyndon Knutson, 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 Glyndon Knutson
Herbert R. Larson
 Notary Public (or other qualified officer)Subscribed and sworn to before me this 12 day of June, 1977

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3994-3
GLYNDON KNOTSON CENTERVILLE
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57014 With the following modifications:
 (State)

The irrigation well approved under this Permit will be located near domestic wells and other irrigation wells which may obtain water from the same aquifer. The irrigation well owner, under this Permit, shall control his irrigation withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in irrigation wells having prior water rights.

PRIORITIES FOR THIS PERMIT WERE ESTABLISHED UNDER PERMITS NO 223-3A & NO 2799-3. THEIR APPLICABLE PORTIONS OF PERMIT NO 2799-3 HAVE BEEN INCORPORATED INTO THIS PERMIT, AND PERMIT NO 2799-3 HAS BEEN CANCELLED, AND 1.16 CFS & 80 ACRES FROM PERMIT NO 223-3A HAVE BEEN INCORPORATED INTO THIS PERMIT, AND PERMIT NO 223-3A REDUCED BY THESE AMOUNTS.

Date of first receipt of application JUNE 6, 19 77
 Date of return to applicant for correction, amendments or changes required —, 19 —
 Date of receipt of corrected application —, 19 —
 Approved JULY 28, 19 77, Recorded in Book 19 Page 27

WATER RIGHT PERMIT NO. 3994-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3994-3 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 1.1 CFS FROM JUNE 27, 1976
1.1 CFS FROM JULY 7, 1956
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JANUARY 28, 1980
3. The whole of said work is to be completed on or before JULY 28, 1982
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JULY 28, 1985
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 2.24 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 JULY 28, 1985; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 9TH day of AUGUST, 19 77

WATER RIGHTS COMMISSION

By:

John Walsh
 Chief Engineer, Executive Officer

Certificate of Construction Issued July 29, 1980

Water License Issued July 29, 1980

SAME WELL AS UNDER

PERMIT NO 2799-3

Permit No. 3994-3

Water Diversion No. 3 Vermillion River Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That Glenn C & Glyndon Knutson

the holder^s of
Permit No. 3994-3*, issued upon Application No. 3994-3, bearing date of priority of July 7, 1956*
& June 22, 1976 authorizing the diversion of 5.11* cu. ft. per second of the waters of
ground water County of Clay, State of South Dakota at
points #1-1320'56°30'W of the NE corner, #2-100'W and 66'S of the NE corner
#3-N29°E, 2942' from the SW corner, all in Section 5, T95N, R52W
for Irrigation

purposes, has ve 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 6.0 cu. ft. per second of water.

*Applicable portions of Permit No. 223-3A Date July 29, 1980
have been incorporated into this Certificate and
Permit No. 223-3A has been cancelled.

John Hatch
JOHN HATCH, Chief Engineer
Water Rights Division

STATE OF SOUTH DAKOTA

WATER LICENSE NO. . . 3994-3

(1) WHEREAS, On the 6th day of June, A. D. 19 77
Glyndon Knutson

made Water Right Application No. 3994-3 for a permit to use 5.11* cubic feet per second of the waters of ground water

County of Clay, State of South Dakota, for Irrigation

purposes; and

(2) WHEREAS, On the 9th day of August, A. D. 19 77

Permit No. 3994-3, with a date of priority of July 7, 1956 and June 22, 1976

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 28th day of July, A. D. 19 82 and for the application to beneficial use of said water on or before the 28th day of July, A. D. 19 85

*The applicable portions of Permit No. 223-3A are incorporated into this Water License and Permit No. 223-3A has been placed in a cancelled status

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 4.94 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 the following land in Section 5, T95N, R52W

NW $\frac{1}{4}$ NW $\frac{1}{4}$ 34 acres

NE $\frac{1}{4}$ NW $\frac{1}{4}$ 34 "

SW $\frac{1}{4}$ NW $\frac{1}{4}$ 35 "

SE $\frac{1}{4}$ NW $\frac{1}{4}$ 35 "

NW $\frac{1}{4}$ NE $\frac{1}{4}$ 30 "

NE $\frac{1}{4}$ NE $\frac{1}{4}$ 30 "

SW $\frac{1}{4}$ NE $\frac{1}{4}$ 33 "

SE $\frac{1}{4}$ NE $\frac{1}{4}$ 33 "

NW $\frac{1}{4}$ SW $\frac{1}{4}$ 34 "

NE $\frac{1}{4}$ SW $\frac{1}{4}$ 34 "

TOTAL 332 acres

(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 Glenn C & Glyndon Knutson

_____ of Centerville, SD
the holder S and owner S of said permit No. 3994-3* a water right, dating from July 7, 1956 and June 22, 1976 to use of 4.94 cubic feet per second of the waters of ground water
in the County of Clay and State of South Dakota, or so much thereof as may be necessary for the purposes hereinbelow mentioned, to be diverted at points #1-1320' S6°30'W of the NE corner, #2-100'W and 66'S of the NE corner, #3-N29°E, 2942' from the SW corner, #1 in Section 5, T95N, R52W

and, conducted to and upon 332 acres located in Section 5, T95N, R52W described on the face of this License

for the purpose of Irrigation

Subject to any limitations listed in Water Right Permit No. 3994-3 and subject to the laws of the State of South Dakota.

*The applicable portions of Permit No. 223-3A has been incorporated into this Water License and Permit No. 223-3A has been cancelled.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 29th day of July A. D.
Nineteen Hundred and Eighty

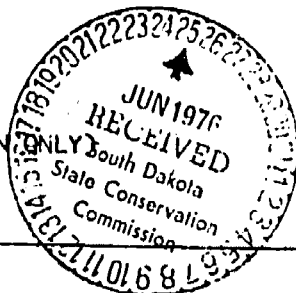
WATER MANAGEMENT BOARD

By: John Hatch
Chief Engineer, Executive Officer JOHN HATCH

SEE APP'L NO 2799-3

FOR WATER QUALITY DATA.

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(THIS FORM REQUIRED FOR PROPOSED GROUND WATER IRRIGATION)



NAME Glydon Knutson
ADDRESS Centerville South Dakota
COUNTY Clay

LEGAL DESCRIPTION

1. WELL LOCATION North border of S² of Sec 5 - 95-52
2. LOCATION OF AREA TO BE IRRIGATED S² of Sec 5 - 95-52

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT ☒ GUN _____
4. CROPS TO BE IRRIGATED _____

WATER QUALITY

5. SAMPLE NUMBER 76-581
6. SALINITY (EC X 10⁶) 1844 (high)
7. SODIUM (SAR) 0.26 (low)
8. RESIDUAL SODIUM CARBONATE (meq/l.) 0

I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and: the soils information has been acquired from _____ Conservation District, County Extension office or Soil Conservation Service.

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

Glydon Knutson
APPLICANT'S SIGNATURE
by Clare Knutson

SUBSCRIBED AND SWORN BEFORE ME THIS
3 DAY OF June 19 76.

[Signature]
(TITLE OR SEAL)

[Signature]
APPROVED/DISAPPROVED

(SOILS INFORMATION ON REVERSE SIDE)

N² of SW⁴ sec 5. 48-52. MAP

Believe it or not it is all
a Trent siltly clay loam
near to level

NARRATIVE

Soils map symbol 21 which is a Trent siltly
clay loam

June 22, 1976

Mr. Glydon Knutson
Centerville, SD 57014

Dear Mr. Knutson:

The analysis of your water sample #76-581 has been completed. I am enclosing herewith the original report for you to keep in a safe place. I am also enclosing a copy of AES publication #13 which describes some of the effects of waters on soils. I have plotted the approximate quality of this water for irrigation uses by means of the red cross in the chart on the outside back cover. You will see that it is in the high salinity, low sodium category.

Accordingly, this water has a real substantial hazard to soils. This could be used, but it must be used judiciously, that is, application of small amounts and frequently in the growing season are to be avoided. The reason is, of course, is that this water carries about 2 ~~1/2~~ tons of salt for each acre foot you apply. I would recommend that you never use more than 3 applications in a growing season and preferably less. You should also put on at least 3 inches every time you go around the field. The Trent silty clay loam which you have are moderately well-drained to moderately poorly drained soil; under certain circumstances, it would drain satisfactorily and you would not have any problem, but you could have a water table problem with this soil if you happen to get substantial rain immediately after an irrigation.

I am sending a copy of this letter, along with a copy of the water analysis and your WI-1 form to the State Conservation Commission for their formal action.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

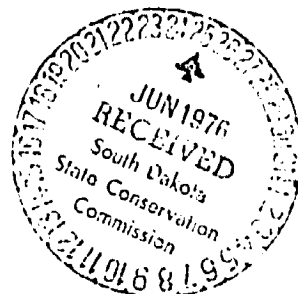
LOP:ckb

Enclosures

cc: State Conservation Commission

D. Pahl

Robert Schurrer, County Extension Agent



2799-3

Stamp ink

3494-3

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

Submitted by: Glynion Knutson
 Address: Connelville, SD 57014

Date Rec'd June 3, 1976
 Sample No. 76-581
 Identification Well-138
SWL, Sec. 5, T 95N, R 52W

WATER ANALYSIS

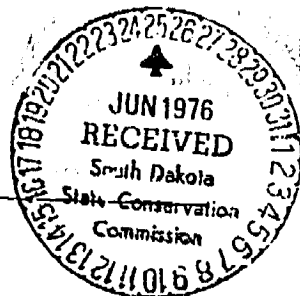
Calcium (Ca)	340	ppm*	17.00	me/l**
Magnesium (Mg)	110	ppm	5.02	me/l
Sodium (Na)	21	ppm	0.93	me/l
Potassium (K)	12	ppm	0.52	me/l
Sulfate (SO ₄)	725	ppm	15.08	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	4	ppm	0.11	me/l
Bicarbonate (HCO ₃)	329	ppm	5.40	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe) as		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	270	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1844	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.26			
Sodium	3.41	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.49			
Others:				

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 27.27 me/l
 Total anions 20.59 me/l



By: Shirley Litten

Service Performed

Amount Due

Irrigation analysis

\$8.00 PAID

Make che 's payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-581

Amount Enclosed \$

Signed

Publish first publication, on or before July 14, 1977

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Pierre, South Dakota 57501

June 1 22, 1977

Notice is hereby given that Glyndon Knutson whose

post office address is Centerville, South Dakota, has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-8; 46-2-9 thru 46-2-11, 46-2-13; 46-5-1 thru 46-5-8, 46-5-10 thru 46-5-22, 46-5-41, ~~Future Use 46-5-38, Temporary Permit 46-5-39, 46-5-40; Ground Water 46-6-3, 46-6-5, 46-6-6.1, 46-6-10, 46-6-14 and Commission Rules ARSD 52:01:01:01 thru 52:01:01:13, Future Use 52:01:01:21 thru 52:01:01:24~~, for a permit to appropriate for beneficial use 1.14 cubic feet

of water per second of time from the ground water through

the Glyndon Knutson Irr. Project, the point of diversion of which is

to be located in the center of W $\frac{1}{2}$

of Section 5, Twp. 95N, Range 52W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

W $\frac{1}{2}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, Section 5, T95N, R52W

This Application No. 3994-3 will be considered by the Water Rights Commission the Staurolite Inn, Brookings, SD at ~~their office at Pierre~~ upon the 27th day of July, 1977, at 10 A.M. The Commission 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 Commission decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Commission in writing prior to the hearing or orally at the hearing.

WATER RIGHTS COMMISSION

JAMES WHITERTON
Water Rights Specialist

cc: Glyndon Knutson, Centerville, SD 57014

No. 3994-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Clay) ss.

I, Nirgil Evans hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Sioux Falls Times

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

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

July 7 & 14

Nirgil Evans
(Signature)

Mervin E. Anderson - Notary
(Title)

July 15, 1977
(Date Signed)

NOTICE OF HEARING ON
APPLICATION TO
APPROPRIATE WATER
Pierre, South Dakota, June 22,
1977, I, _____, hereby give notice that
Notice is hereby given that
Glyndon Knutson, whose postoffice
address is Centerville, South Da-
kota, has made an application in
accordance with the provisions of
SDCL 46-1-1 through 46-1-8, 46-2-9
through 46-2-13, 46-5-1
through 46-5-8, 46-5-10 through
46-5-22, 46-5-41, 46-5-46-5-5, 46-
6-6-1, 46-6-10, 46-6-14 and Commis-
sion Rules 61-01-01, 61-01-01:01
through 61-01-01:13 for a permit
to appropriate for beneficial use
1.14 cubic feet of water per sec-
ond of time from ground water
through the Glyndon Knutson Irr-
igation Project, the point of diversion of
which is to be located in the cen-
ter of NW 1/4 Section 5, T95N, R52W,
N 1/2 SW 1/4, section 5, T95N, R52W,
This application No. 3994-3 will
be considered by the Water Rights
Commission at the Staturolite Inn,
Brookings, S.D. upon the 27th
day of July, 1977, to make
a determination on this applica-
tion at the hearing. All interested
persons may appear and be
heard. Any person who may be
affected by a Commission decision
who desires to present evidence
or cross-examine witnesses ac-
cording to SDCL 1-26, may notify
the Commission in writing prior
to the hearing or orally at the
hearing.
Water Rights Commission
James Winterton, Water Rights
Specialist, 21 Jul 7-14



Concord 70-77

Now 3994-3

Orange spotted

~~24 11~~

Black and white

5-5 77

Well. Inf. (137' and 1/2')

Red at 100'

" "

" "

C.P. Hydrant 40 S. 10-100'

" "

in NW corner

" "

C.P. Hydrant

" "

Pump. Water Lead Bell.

No more plate

" "

Engine. G.M.C. 4 Cyl Diesel

No more plate

" "

Old. 1st. 10-100' Maynard

Board for the area

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 7617

PIERRE, July 29, 19 80

RECEIVED OF Glyndon Knutson, Centerville, SD 57014

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

Fee for Application for Permit to Appropriate Water No. (examination, processing, recording and filing)		
Fee for Inspecting Construction, and Issuing Cert. of Construction No. 3994-3	---	38.00
Fee for Inspecting Beneficial Use, and Issuing Water License No. 3994-3		
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	38.00

A \$1200 FEE WAS PAID UNDER
PERMIT NO 223-3A - RECEIPT
IN FILE -

WE ARE COMBINING THE TWO
FOR LICENCING - ADD \$1200 TO
\$3800 CHECK - LICENSE UNDER
3994-3

WATER RIGHTS COMMISSION

By *John Hatch*
Chief Engineer, Executive Officer
JOHN HATCH / *et*

LEROY:
I VISITED WITH GLYNDON
ON 5-8-80. HE INDICATES
THE CENTER OF THE PIVOT
IS AS I HAVE SHOWN.
WITH THE END GUN, THE
E 1/2 PIVOT & THIS
PIVOT JUST ABOUT
MEET. WITH THE END GUN,
THERE IS A SLIGHT
OVERLAP WITH THE
SMALL PIVOT IN THE
NW 40 ACRES.

Run

Permit No. 3994-3Water Division 3 VERMILLION RIVER Water DistrictREPORT OF EXAMINATION OF WORKS
AND/OR APPLICATION OF WATER TO BENEFICIAL USE

TO: WATER RIGHTS, WATER MANAGEMENT BOARD / FOSS BLDG., PIERRE, SOUTH DAKOTA 57501

I have this day made a thorough examination of the water use system constructed by GLENN C. & GLYNDON KNUTSON of CENTERVILLE holder of Permit No. 3994-3 *, bearing date of priority of 1.0 CFS JULY 7 1956 *,
1.11 CFS JUNE 22 1976 authorizing the diversion of 5.11 * cu. ft. per second of the waters of GROUNDWATER for IRRIGATION purposes, in CLAY County.

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

The Water Use System consists of,

WELL #1 - 60' DEEP WITH 16" DIA FIBREGLAS CASING
WESTERN LAND ROLLER 8" PUMP-HEAD #8-B 4.12C/H
SERIAL #75818. POWERED BY GM DIESEL MODEL #4031C.

A. Works used to divert the water:

UNIT # 48-59

WELL #2 - 50' DEEP WITH 16" STEEL CASING - WESTERN LAND ROLLER 8" PUMP-HEAD #8B-080 - SERIAL #756154. POWERED BY GM DIESEL MOTOR #453CID.

WELL #3 - 137' DEEP WITH 16" STEEL CASING - 20' JOHNSON IRRIGATOR SCREEN. POWERED BY WESTERN LAND ROLLER 8" PUMP - POWERED BY GMC DIESEL ENGINE

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

#1 - 3005' OF 8" DIA PVC PLASTIC BOLLIED LINE TO CENTER PIVOT#2 - 1250' OF 8" DIA ALUMINIUM LINE TO CENTER PIVOT#3 - 30' OF 8" DIA MAINLINE TO LARGE CENTER PIVOT2180' OF 8" DIA BURIED PLASTIC LINE TO PIVOT PAD IN NW 1/4 NW 1/4

C. Works used to apply water to beneficial use.

#1 - HYDROMATIC 7 TOWER CENTER PIVOT WITH #100 END GUN SERIAL # 74CS29230 MODEL B678F0N79TP1P3#2 - HYDROMATIC 7 TOWER CENTER PIVOT WITH #100 END GUN MODEL UB2079TA TIDE SERIAL # 76CS7#3 - HYDROMATIC 7 TOWER CENTER PIVOT WITH #100 END GUN AND 4 TOWER HYDROMATIC CENTER PIVOT WITH #100 END GUNThe system is in the following condition: GOOD#1 - 1320', S60°30'W OF THE NE CORNER; #2 - 100'W AND 66' SThe point of diversion is located OF THE NE CORNER; #3 - N 29°E, 2942' FROM THESW CORNER. ALL IN SECTION 5, T96N, R52WThe works are capable of diverting and conveying to the place of use 6.0cu. 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 5, T96N, R52W

<u>NW 1/4 NW 1/4 34 AC</u>	<u>NW 1/4 NE 1/4 30 AC</u>	<u>NW 1/4 SW 1/4 34 AC</u>
<u>SW 1/4 NW 1/4 34 AC</u>	<u>SW 1/4 NE 1/4 30 AC</u>	<u>NE 1/4 SW 1/4 34 AC</u>
<u>NE 1/4 NW 1/4 35 AC</u>	<u>NE 1/4 NE 1/4 33 AC</u>	
<u>SE 1/4 NW 1/4 35 AC</u>	<u>SE 1/4 NE 1/4 33 AC</u>	

comprising a total of 332 acres of land.

* THE APPLICABLE PORTIONS OF PERMIT NO 223-3A HAVE BEEN INCORPORATED INTO THIS WATER LICENSE, AND PERMIT NO 223.3A HAS BEEN CANCELLED

Date JUNE 4, 1980

Glenn C. Knutson
 (Signature)

#2234-3
#3994-3

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

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

February 17, 1989

Glyndon Knutson
RR 2, Box 14
Centerville, SD 57014

Dear Mr. Knutson:

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,

John W. Hatch
for JOHN HATCH, Chief Engineer
Water Rights Division

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

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

February 9, 1990

GLYNDON KNUTSON
RR #2 BOX 14
CENTERVILLE, SD 57014

NOTICE

RE: Violation of Requirement to Submit 1989 Irrigation Questionnaire

Our records indicate that the 1989 Irrigation Questionnaire has not been submitted for Permit No(s). 2234-3, 3994-3. The request for the Questionnaire was dated October 13, 1989. The Water Management Board had directed that owners of water permits who have not submitted 1989 Irrigation Questionnaire be given notice of hearing(s) to be held by the Board to determine if any action is to be taken concerning the violation.

The hearings will be held at 8:30 am, March 7, 1990 at the Howard Johnson's, Jefferson-Roosevelt Room, I-90 at LaCrosse, Rapid City SD.

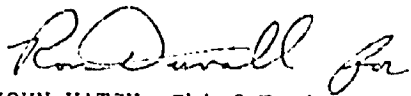
The hearing will be conducted pursuant to the provisions of SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to procedures contained in SICL 1-26. Following the hearing(s), the Water Management Board can:

1. Amend Permit No(s). 2234-3, 3994-3 to require the Irrigation Water Use Questionnaire to be submitted each year;
2. Postpone any action;
3. Take no action.

The hearing(s) 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 received in this office before the March 7th hearing date, your name will be deleted from the agenda for the hearing.

Very truly yours,



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

 **Department of
Water & Natural Resources**

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

February 23, 1990

2234-3
3994-3

Glydon Knutson
RR 2, Box 14
Centerville SD 57014

Dear Mr. Knutson:

I am writing to acknowledge receipt of your 1989 irrigation questionnaire for Water Permit Nos. 2234-3 and 3994-3. You may disregard the February 9, 1990 Notice of failure to submit the 1989 irrigation questionnaire. Your questionnaire was received prior to the March Water Management Board meeting and your name was deleted from the agenda pertaining to the hearing.

If you have any questions, please contact Genny McMath, at (605) 773-3352.

Sincerely,

Ron Duvall /KS

RON DUVAL
Natural Resources Engineer
Water Rights Division

South Dakota

GREAT FACES. GREAT PLACES.

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

December 4, 1991

3994-3

Glyndon Knutson
RR #2 Box 14
Centerville, SD 57014

Dear Mr. Knutson:

Enclosed, as we discussed, is a copy of Water Right No. 3994-3 and another 1991 irrigation questionnaire.

Please review the water right to determine if there is a discrepancy in the amount of acreage and the legal descriptions. I included a copy of the inspection report, dated June 4, 1980. This report is the basis for the information contained in the water license.

Please let us know if you feel the inspection report and license are inaccurate. Depending upon the problem, another inspection of the water use system may be warranted.

Complete the enclosed questionnaire and return it as soon as possible. I will replace the form you have already submitted for No. 3994-3 with the new one. If you have any questions, please contact me.

Sincerely,

Genny McMath

Genny McMath
Natural Resources Analyst
(605) 773-3352

enclosures

DRILLER'S LOG OF WELL

Perm. # 223-3A

Inc. July 3, 1994

Clay County

Location of Well: NE 1/4, Section 5, Township 95, Range 52

Well to be drilled for: Glen C. Grimshaw (Name) (Address)

Owner of land (if other than above): (Name) (Address)

Date well drilling started: June 20 finished: June 20

Purpose of well: Irrigation (Domestic, irrigation, municipal, industrial, other)

For Permit File # 233-3A Inc. into 3994-3

Diameter	inches	Describe kind of material drilled through. (add layers on back of form if necessary)	Ground Surface Elevation: 4' (If Available)
00		Topsoil	Kind and thickness of casing to be installed: Dempster mill & mfgs 14 gauge
3	Feet		
3	Feet	Clay gravel	Size of casing to be installed: 48 feet of 20 inches diameter feet of inches diameter feet of inches diameter
10	Feet		
13	Feet	Gravelly sand (medium)	Type of seal between casing sizes:
35	Feet	Gray clay Some wood	
48	Feet	Shale Blue clay	Kind of perforated screen to be installed: Material: Steel (steel, wood, concrete, etc.) Size of screen: Diameter: 20 inches Length: 27 feet Size openings: 3/16 inches
	Feet		
	Feet		Depth below ground surface to which water rises in well: 13 feet.
	Feet		
	Feet		

Grimshaw & Rice Drillers
C. W. Grimshaw

31 32

T 95 N R 52 W

32 33

6 5

Well #2 05 4

NW 1/4 NW 1/4 - 34.0 AC.

CP

NE 1/4 NW 1/4 - 38.0 AC

NW 1/4 NE 1/4 - 21.0 AC

NE 1/4 NE 1/4 - 33.0 AC

8 inches = 1 mile

Scale 1" = 660'

1 sq. inch = 10 AC.

SW 1/4 NW 1/4 - 38.0 AC.

SW 1/4 NE 1/4 - 21.0 AC.

SE 1/4 NE 1/4 - 33.0 AC

SW 1/4 NW 1/4 3.5

Portable
Pivot

Well

CP

NW 1/4 SW 1/4 - 33.0 AC

NE 1/4 SW 1/4 - 33.0 AC

Glyndon Knutson

Glenn Knutson

Appl. # 223-3A

NW 1/4 NW 1/4 34.0 AC

SW 1/4 NW 1/4 34.0 AC

NE 1/4 NW 1/4 38.0 AC

SE 1/4 NW 1/4 38.0 AC

NW 1/4 NE 1/4 21.0 AC

SW 1/4 NE 1/4 21.0 AC

NE 1/4 NE 1/4 33.0 AC

SE 1/4 NE 1/4 33.0 AC

Total = 252.0 AC

Glyndon Knutson Appl. # 2799-3

NW 1/4 SW 1/4 33.0 AC

NE 1/4 SW 1/4 33.0 AC

Total 132.0 AC

By Order of the Court
MAP NO 3242-3 (APPL NO 3994-3)

3994-3, 4204-3, 5319-3, 117-3A, 2268-3, 2372-3, 2941-3
5352-3, 5425-3, 5886-3, 2950-3, 3328-3, 3409-3, 3507-3
5898-3, 6810-3, 6922-3, 3646-3, 3737-3, 3918-3, 3948-3
7002-3, 7191-3, 7384-3, 6754-3, 7128-3

Page 1 of 4

Water Rights Program File Documentation

Date: June 16, 2025

Counties: Clay and Turner

Re: Aquifer management unit redesignation for selected water rights/permits on Clay and Turner Counties

COMMENTS:

Review of a request to change diversion point for Water Permit No. 8790-3, authorized to withdraw water from the Upper Vermillion Missouri: South aquifer (UVM:S), determined the well they wished to use is authorized under authorized by Water Right No. 7384-3 Water Right No. 7384-3 does not currently have a management unit designated for withdrawal from the Upper Vermillion Missouri aquifer (Water Rights, 2025). In reviewing the best information currently available for aquifer and management unit naming conventions, the best aquifer and management unit designation for Water Right No. 7384-3 is the Southern management unit of the Upper Vermillion Missouri aquifer (UVM:S) as shown in Figure 1. Furthermore, there are an additional 25 other water rights/permits, see Table 1, which should have the UVM:S management unit assigned (Water Rights, 2025).

This addition of the management unit designation, to the Southern management unit of the Upper Vermillion Missouri aquifer, does not represent a physical change in the water source. It is an update to the naming convention to reflect the currently best available information for aquifer and management unit extents. This update to the aquifer management unit name does not authorize any increase in the amount of water appropriated by any of these water rights/permits, change in diversion rate, relocation of existing wells, completion of additional wells into the aquifer, or change of acres permitted for irrigation. Going forward, issuance of any pertinent documents will reflect the updated aquifer and management unit designation.

Table 1- Water rights/permits requiring an aquifer management unit designation to the Upper Vermillion Missouri: South (Water Rights, 2025)

Water Rights							
PERMIT NO	NAME	COUNTY	PRIORITY DATE	STATUS	USE	CFS	ACRES
117-3A	GLYNDON KNUTSON	CL	04/14/1955	LC	IRR	0.95	66
2268-3	WILLIAM KNUTSON	CL	08/07/1975	LC	IRR	2	206
2372-3	LARRY ERICKSON	CL	10/07/1975	LC	IRR	1.76	123
2941-3	RUSSELL D AUSTIN	TU	08/16/1976	LC	IRR	1.11	140
2950-3	TERRY & ALBERTA SURPRENANT	CL	08/13/1976	LC	IRR	1.57	110
3328-3	TOM AUSTIN	CL	11/12/1976	LC	IRR	1.33	121
3409-3	STEVEN R NULL	TU	12/07/1976	LC	IRR	1.88	136
3507-3	W JERALD HANSEN	TU	12/28/1976	LC	IRR	0.99	69
3646-3	STEVEN R NULL	TU	02/04/1977	LC	IRR	2	144
3737-3	WILLIAM M JENTER	TU	09/16/1976	LC	IRR	4.57	320
3918-3	JBS HANSEN FARMS	TU	04/18/1977	LC	IRR	2.66	295.3
3948-3	JASON KNUTSON	CL	04/19/1977	LC	IRR	1.88	135
3994-3	GLYNDON KNUTSON	CL	07/07/1956	LC	IRR	4.94	332
4204-3	CITY OF CENTERVILLE	TU	01/01/1900	LC	MUN	0.22	n/a
5319-3	LARRY ERICKSON	CL	04/13/1989	LC	IRR	1.89	132
5352-3	BILL & SCOTT HANSEN	TU	09/13/1989	LC	IRR	2.15	151
5425-3	JOHNKE LAND TRUST	TU	03/23/1990	LC	IRR	1.88	132
5886-3	TIM OSTREM	CL	09/28/1995	LC	IRR	1.78	134
5898-3	CITY OF CENTERVILLE	TU	01/09/1996	LC	MUN	0.89	n/a
6810-3	JESSE & TANYA VANDESTROET	CL	02/20/2007	LC	IRR	1.56	65
6922-3	JOHN SHUBECK	CL	12/13/2007	LC	IRR	1.78	122
7002-3	JESSE & TANYA VANDESTROET	CL	03/14/2008	LC	IRR	1.39	123
7191-3	ROGER BLAKE	CL	02/01/2008	LC	IRR	1.56	255
7384-3	NICHOLAS & COURTNEY BLAKE	CL	07/20/2012	LC	IRR	1.67	67
Water Permits							
PERMIT NO	NAME	COUNTY	PRIORITY DATE	STATUS	USE	CFS	ACRES
6754-3	JBS HANSEN FARMS	TU	09/05/2006	PE	IRR	0	35
7128-3	JOHN SHUBECK	TU	04/13/2009	PE	IRR	1.78	207
CL= Clay; TU= Turner; LC= Water Right, PE= Water Permit; IRR= Irrigation; MUN= Municipal							

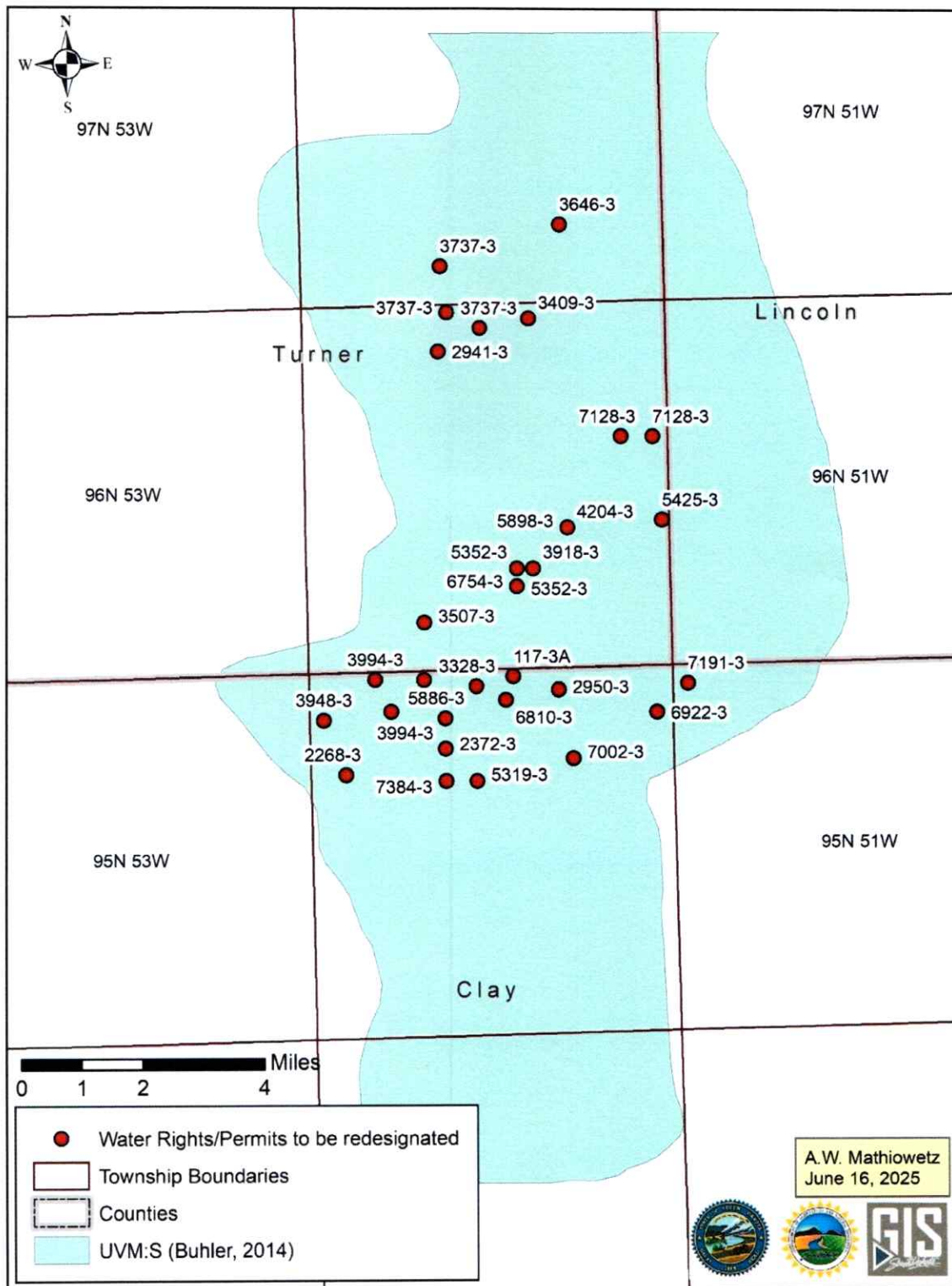


Figure 1- Map of approximate areal extent of the Upper Vermillion Missouri: South aquifer (Buhler, 2014) and water right/permits to be redesignated to include the South management unit designation (Water Rights, 2025)



Adam Mathiowetz
Natural Resources Engineer IV



Mark Mayer
Director of Office of Water

REFERENCES

Buhler, K. A. 2014. Report to the Chief Engineer on 21 Water Permit Applications from the Upper Vermillion Missouri Aquifer. SD DANR – Water Rights Program, Joe Foss Bldg. Pierre, SD.

Water Rights. 2025 Water Right/Permits Database. SD DANR-Water Rights Program. Pierre, South Dakota