

WATER PERMIT NO. 5886-3

Name of Applicant: Tim Ostrem

Address: RR 2, Box 33, Centerville SD 57014

Phone: 605 563-2702

Amount of Water Claimed: 1.78 cfs

Total Acres: 160 acres

Source of Water Supply: groundwater

Water to be used for: irrigation

County: Clay

Type of Waste Disposal System: NA

Location: 3 miles southwest of Centerville

PRIORITY

Date Received: 9-28-95

Fee: \$250.00

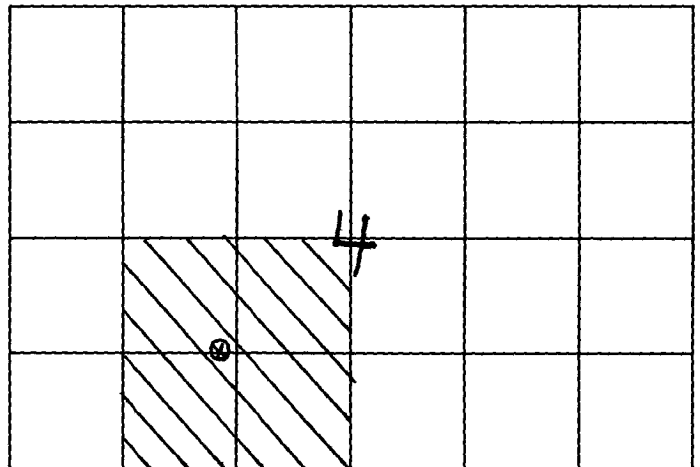
Corrected Application Received: NA

Period of Annual Use: May 1 - September 30

Remarks:

Diversion Point: approximate center of the
SW 1/4 Sec 4-T95N-R52W

Land to be Irrigated: SW 1/4 Sec 4-T95N-R52W



Depth of Well: 150 feet

Well Driller:

Remarks: well logs are from a couple of area wells

Type of Map: aerial

Prepared by: Lanny Nelson, FSA

Reviewed and the Number Assigned on: 9-28-95

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

**SOUTH DAKOTA
WATER PERMIT NO. 5886-3**

Date of first receipt of application September 28, 1995.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 5886-3 to Tim Ostrem, RR 2, Box 33, Centerville SD 57014 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 5886-3 appropriates 1.78 cubic feet of water per second from one well 150 feet deep (Upper Vermillion Missouri Aquifer) located in the approximate center of the SW 1/4 Section 4 to irrigate 160 acres located in the SW 1/4 Section 4; all in T95N-R52W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 - September 30.
3. The date from which applicant may claim right is September 28, 1995.
4. The date of approval of Permit No. 5886-3 is November 13, 1995.
5. One-fifth of the construction is to be completed on or before May 13, 1998.
6. All construction is to be completed on or before November 13, 2000.
7. Water is to be put to beneficial use on or before November 13, 2004.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 5886-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.
3. This permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: John Hatch
John Hatch, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

DEC 4 1995

date



FORM 2: Application for irrigation in South Dakota
(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	(office use only)
	No. <u>5886-3</u> Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u>
	Newspaper <u>Vermillion Plain Talk</u>



Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(check one) (Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. acreage change, change diversion point(s), add diversion point(s), etc.) _____

- Name of Applicant Tim Ostrem ☒ Owner ☐ Tenant/Lessee Phone 605 563 2702
(check one)
- Mailing Address RR#2 Box 33 Centerville S.D. State SD (Zip Code) 57014
- Amount of water claimed 1.78 *CFS or 800 **GPM ***AF Total Acreage 160
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout if applicable)
- Source of water supply ground water
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 1 well W 1/2 SW 1/4 sec 04-95N-R52W
County Clay
- County or counties where water will be used Clay
- Annual period during which water is to be used May 1 - Sept 30
- List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
04-95-S2 N 1/2 W 1/2 SW 1/4	40		
" S 1/2 W 1/2 SW 1/4	40		
" S 1/2 E 1/2 SW 1/4	40		
" N 1/2 E 1/2 SW 1/4	40		

8. Give a description of the project. (Attach sheet if more space is needed)

center pivot sprinkler

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

STATE OF SOUTH DAKOTA)
County of Turner

I, Tim Ostrem, the applicant, have read this application, examined the attached map, and certify that the matters stated are true. I intend and am able to complete the necessary construction.

Signed Tim Ostrem

Subscribed and sworn to before me this 20th day of Sept 19 95

Donald A. Maltz Comm. Exp. 8-25-00
Notary Public

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

- a) Drill Hole Diameter 22" Depth 150' - 60'
- b) Casing Type PVC Diameter 16" Thickness 3/8"
- c) Screen Type PERF PLASTIC Diameter 16" Thickness 3/8"
- d) Gravel Pack Thickness 3" Length of Gravel Pack 150' - 60'
- e) Depth to Top of Water Bearing Material 30'
- f) Depth to Water (ground surface to water level) 15'
- g) Distance to nearest existing domestic well: 1 MILE
- On applicants property NO On property owned by others YES

2. Dugout Information Estimates

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam please give their name and address

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____
If Pipe, diameter _____

f) Secondary Spillway Capacity _____
Spillway width _____

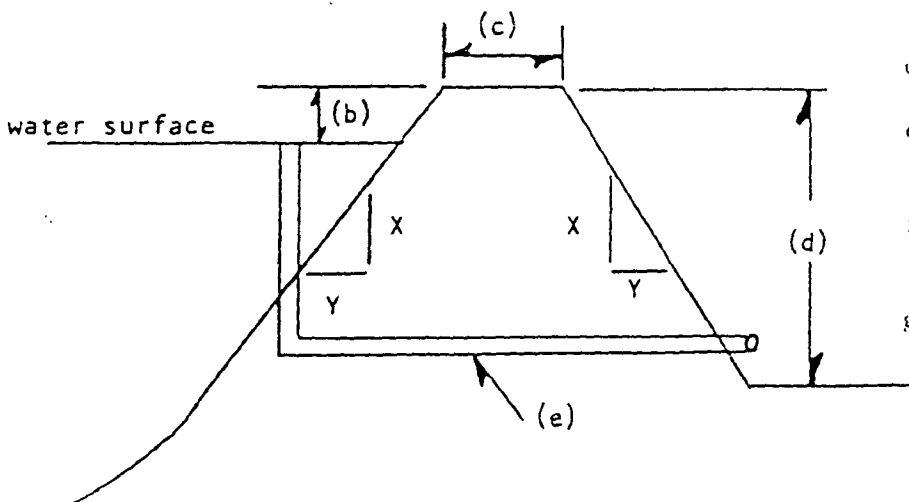
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant _____

RECEIPT

414625

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, _____ September 28, 19 95

RECEIVED OF Tim Ostrem, RR 2 Box 33, Centerville, SD 57014

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

Fee for Application for Permit No. <u>5886-3</u> to Appropriate Water, to construct and to put water to beneficial use _____	250	00
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 _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	250 00

By John Hatch
Chief Engineer

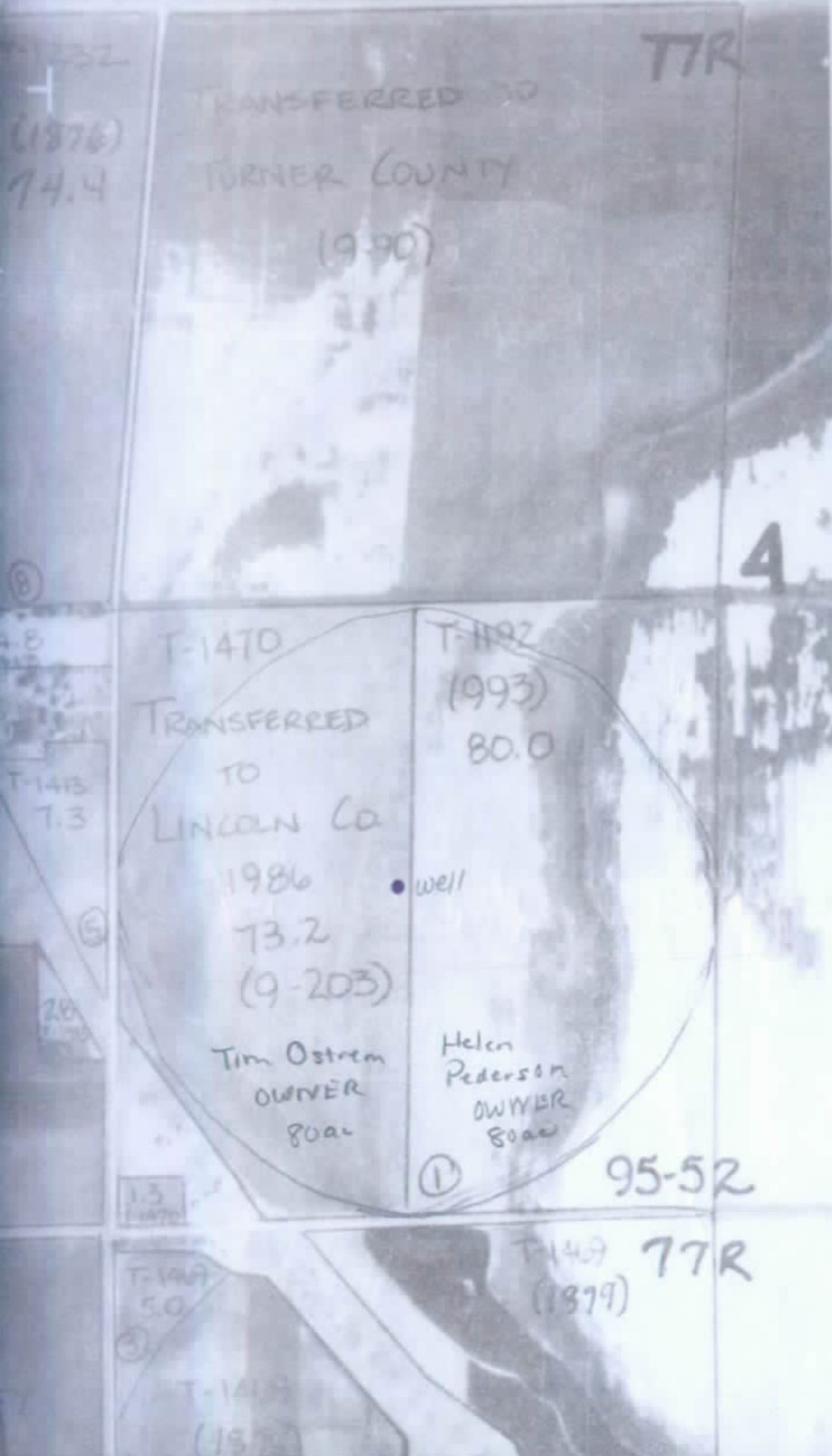
NOT TO SCALE

July 13, 1992

Clay County CFS A

Lanny Nelson CED.

Clay County FSA
PO Box 231
Vermillion, SD 57069



5886-3

07-92

Date: 2-6-97



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 6, 1995

Tim Ostrem
RR 2, Box 33
Centerville SD 57014

Dear Mr. Ostrem:

Regarding our phone conversation this morning, enclosed is a *Application for Permit to Appropriate Water For Irrigation*. Please complete this form and have it signed and notarized. I am also returning the aerial photo, Supplemental Information sheet and filing fee. These can be resubmitted when you return the application.

On the instruction sheet I have marked a couple of items that you should note. On the aerial photo, please outline the lands to be irrigated. The area outlined should correspond with that listed on Item No. 7 of the application form. Also, please submit a copy of the well log or a driller's test log for the well you are proposing to use.

If you have any questions, please contact me or Eric Gronlund.

Sincerely,

Karen Schlaak
Environmental Scientist,
605 773-3352

enclosures

File No.

**Water Rights Division
File Documentation**

NAME OF PERSON OR FILE: Tim Ostrem

ADDRESS: RR 2, Box 33, Centerville SD 57014 COUNTY: Clay

DATE: September 22, 1995 TELEPHONE:

RE: Pending Application

COMMENTS:

Tim Ostrem called concerning my letter dated 8-6-95. Mr. Ostrem stated he would be sending in the requested information.

Mr. Ostrem further stated he did not have a well log for this particular well, but there were several irrigation wells in the area such as Glendon Knutson, Tom Austin and Bill Hanson. I told Mr. Ostrem that I thought one of these well logs would be sufficient to complete his application and I would look through our files and see if I could locate a nearby well log. Mr. Ostrem stated he had a livestock well in the same area.



Karen Schlaak
Environmental Scientist

REPORT ON WATER PERMIT APPLICATION NO. 5886-3
for Tim Ostrem
October 10, 1995

Application No. 5886-3 proposes to appropriate 1.78 cfs (800 gpm) from one well approximately 150 feet deep located in the approximate center of the SW 1/4 of section 4 to irrigate 160 acres in the SW 1/4 of section 4; all in T95N R52W in Clay County.

AQUIFER - UPPER VERMILLION MISSOURI (UVM)

The Upper Vermillion Missouri aquifer is a buried glacial outwash (sand and gravel) and may be under slight artesian conditions but is predominantly under water table conditions in the area. There is no driller's log submitted with the application but the geologic information from the various studies and other wells drilled in the area is sufficient to evaluate this application. Geologically this area is relatively simple. The Vermillion River bottom land is underlain by glacial outwash called the Parker Centerville aquifer which is underlain by till and then more outwash called the Upper Vermillion Missouri aquifer. To the north, in Turner County these aquifers appear to be distinct but from the Clay County line south these aquifers blend together hydraulically. In fact, the two aquifers blend together in the area of this application and are named the Lower Vermillion Missouri aquifer over most of Clay County. The Upper Vermillion Missouri aquifer underlies 11,200 acres and contains an estimated 168,000 acre feet of recoverable water in storage in Clay County (Hedges, 1982). The aquifer is hydraulically connected into Turner County to the north and to the Lower Vermillion Missouri aquifer to the south. The aquifer is also hydraulically connected to the Vermillion River. Ground water movement is from north to south and toward the Vermillion River (Christensen, 1967).

The Water Rights Program monitors two observation wells within 3 miles of this application. One of these wells (TU-77N) is completed into shallow outwash (Parker Centerville) and is about 1 mile northeast of this application and the other well (CL-66A) is completed into buried outwash (Lower Vermillion Missouri) and is located about 2 miles southeast of this application. Water levels for these wells show good response to climatic conditions, that is, rising water levels during wet years due to recharge and gradually declining water levels during dry years. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 1995). Hydrographs for these two wells are included with this report.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are three existing Water Rights within 1 mile of this application. The well for this application is about 1/2 mile from 3 separate irrigation wells. Interference is not expected to be a concern. The aquifer is very productive and thick. Drawdown should not be significant at a distance of 1/2 mile from the production well.

CONCLUSIONS

1. Water is available from the Upper Vermillion Missouri aquifer.

2. The aquifer is buried and may be under slight artesian conditions. Drawdown caused by pumping is not expected to be significant. Interference is not a concern. This is demonstrated by the observation well hydrographs.
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.
4. Test hole information was not submitted with the application. Based upon surrounding data, the well could be anywhere from about 50 feet to 150 feet in depth. Technically, the shallow zone would be the Parker Centerville and the deeper zone the Upper Vermillion Missouri. If the two layers are present and separated by a clay layer at this site the production well must be constructed into only the lower layer.

A handwritten signature in black ink, appearing to read "James A. Goodman", with the word "for" written below it.

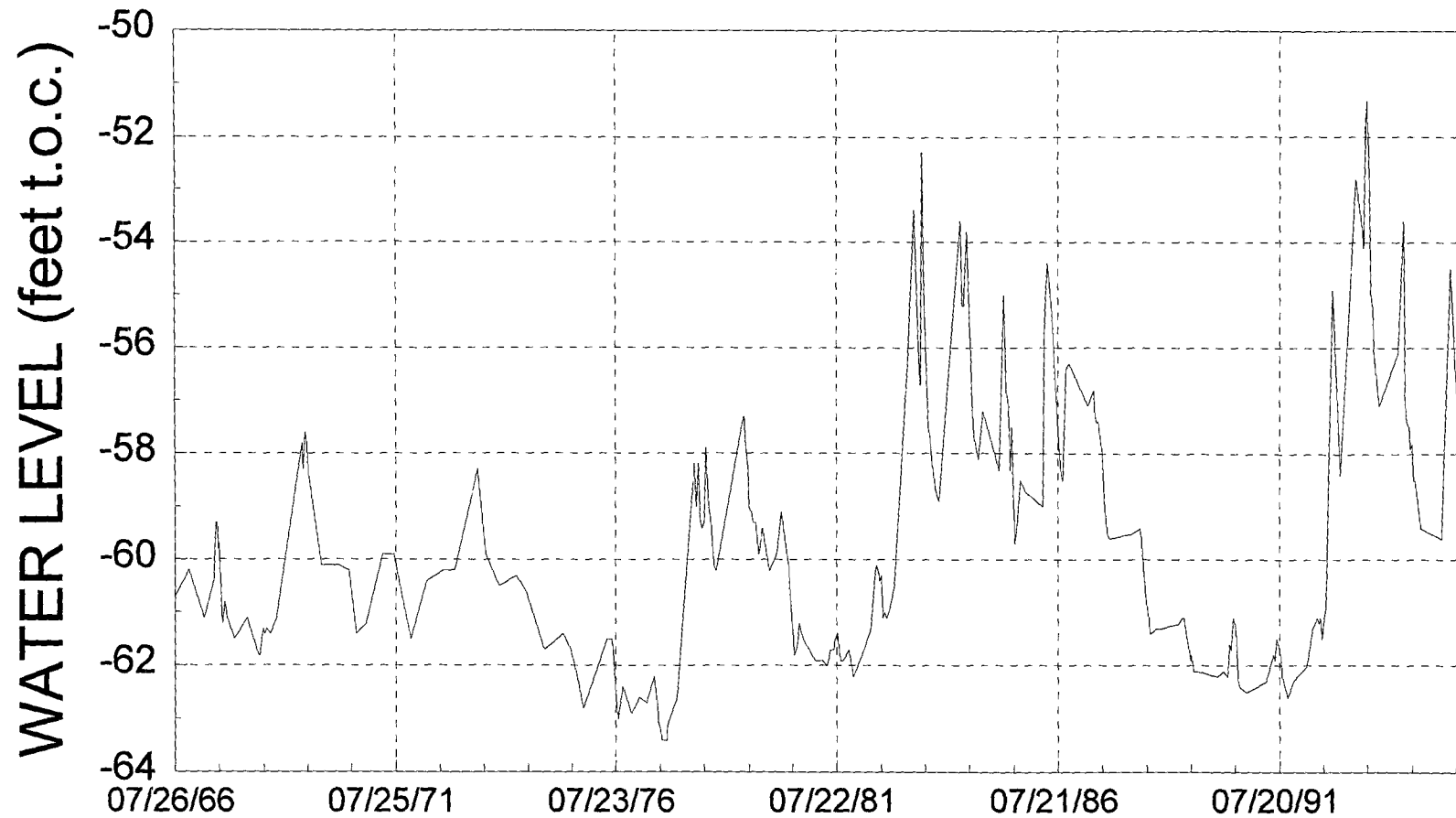
James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

- Christensen, C.M., J.C. Stephens, 1967, Geology and Hydrology of Clay County South Dakota, Bulletin 19, SD DENR, SDGS, Vermillion, SD, 57069.
- Hedges, L.S., et al, 1984, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57506.
- Water Rights, 1995, Unpublished Observation Well Data for Clay and Turner Counties, SD DENR, Division of Environmental Services, Water Rights Program, Pierre, SD, 57501.

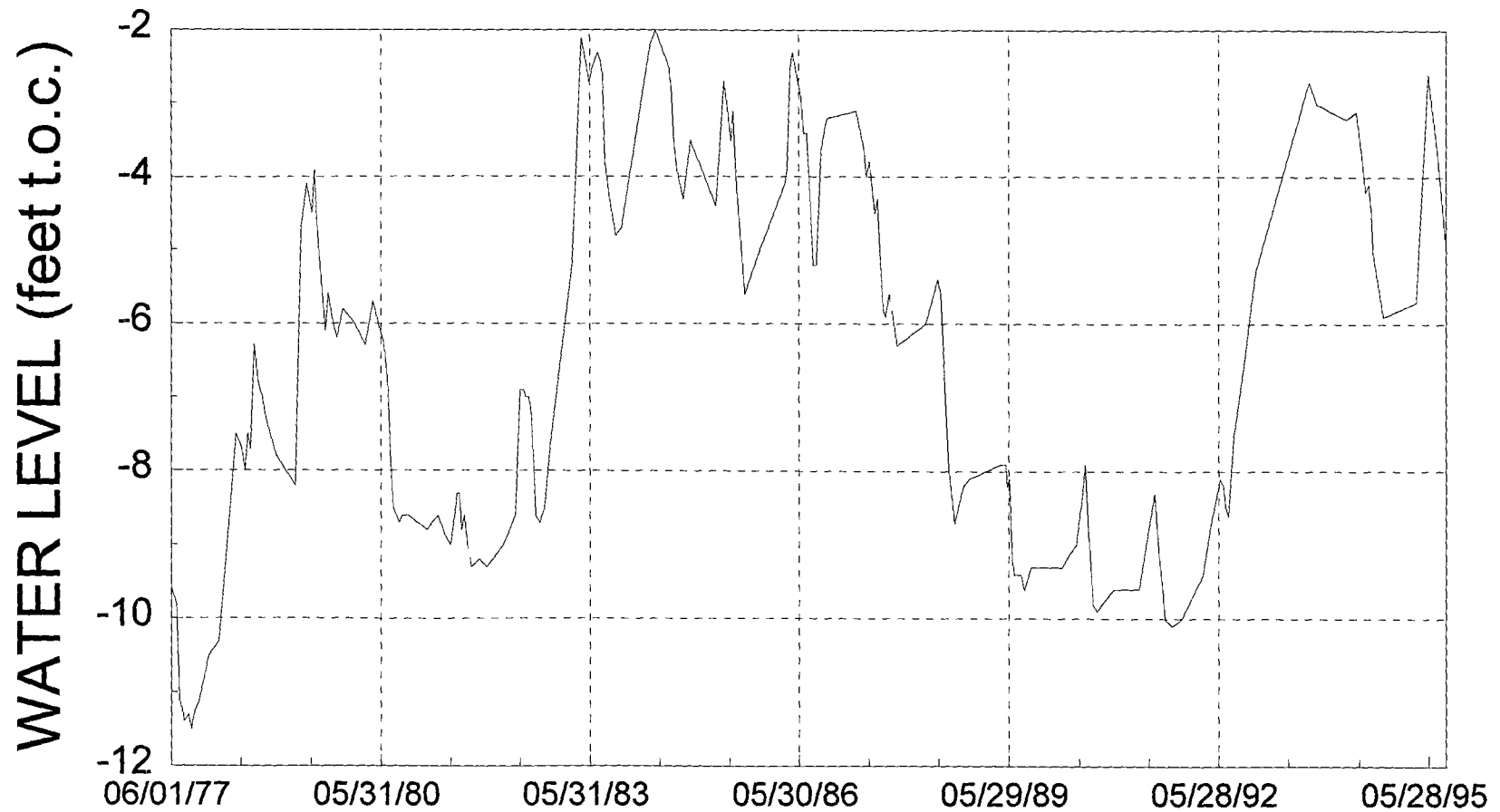
WATER RIGHTS OBSERVATION WELL

CL-66A



WATER RIGHTS OBSERVATION WELL

TU-77N



**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5886-3, Tim Ostrem**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 5886-3, Tim Ostrem, RR 2 Box 33, Centerville, SD 57014.

The Chief Engineer is recommending APPROVAL of Application No. 5886-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 5886-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.
3. This permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.


JOHN HATCH, Chief Engineer
October 17, 1995



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.

October 18, 1995

Tim Ostrem
RR 2 Box 33
Centerville, SD 57014

Dear Mr. Ostrem:

Water Permit Application No. 5886-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Vermillion Plain Talk printed at Vermillion, SD (Ph # 605-624-2695). For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.



October 18, 1995

Vermillion Plain Talk
Box 256
Vermillion, SD 57069-0256

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 5886-3 to be published twice. Please publish the first notice on October 27, 1995, with the second publication 7 days later.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make the first publication. Please BILL the APPLICANT for the cost of publication. The APPLICANT is Tim Ostrem, RR 2 Box 33, Centerville, SD 57014 (Ph # 605-563-2702).

A copy of BOTH publications must be SENT to the WATER RIGHTS PROGRAM. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. No action may be taken on the permit application until proof of publication has been received.

Sincerely,

Eric Gronlund
Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

FIRST TRANSMITTAL NOTICE

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

No. _____

Date _____

We are in receipt of your letter of _____ enclosing Notice of Hearing to Appropriate Water by Application No. _____ which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name _____

Newspaper _____

Instruction to Newspaper - Publish first Notice on October 27, 1995, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 5886-3 to Appropriate Water

Notice is given that Tim Ostrem, RR 2 Box 33, Centerville, SD 57014 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well 150 feet deep (Upper Vermillion Missouri Aquifer) located in the approximate center of the SW 1/4 Section 4 to irrigate 160 acres located in the SW 1/4 Section 4; all in T95N-R52W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5886-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the chief engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and chief engineer. The applicant must file a petition if contesting the chief engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 13, 1995.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Clay) SS

I, Michelle A. Wilson

certify that the attached printed Notice was
taken from the Plain Talk

printed and published in Vermillion

County of Clay and State of

South Dakota. The notice was published in
the newspaper on the following two dates:

October 27, 1995

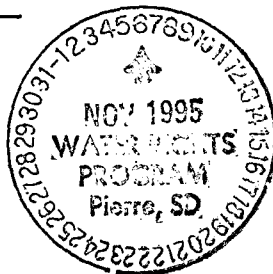
November 3, 1995

Cost of Printing: \$32.06

Michelle A. Wilson
(Signature)

Secretary
(Title)

11-3-95
(Date Signed)



NOTICE OF APPLICATION NO. 5886-3 to Appropriate Water

Notice is given that Tim Ostrem, RR 2 Box 33, Centerville, SD 57014 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well 150 feet deep (Upper Vermillion Missouri Aquifer) located in the approximate center of the SW 1/4 Section 4 to irrigate 160 acres located in the SW 1/4 Section 4; all in T95N-R52W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5886-3 because (1) unappropriated water is available, (2) existing rights will not be unlawfully impaired, (3) it is a beneficial use of water, and (4) it is in the public interest. In accordance with SDCL 46-2A-23, the chief engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

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The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel; if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application.

Nettie H. Myers, Secretary
Department of Environment and Natural Resources

Published October 27 & November 3, 1995
-0000 as filed as part of water rights



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

DEC 4 1995

Tim Ostrem
RR 2, Box 33
Centerville, SD 57014

Dear Mr. Ostrem:

Enclosed is Water Permit No. 5886-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,

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

enclosures

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period - i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.



NOTICE OF COMPLETION OF WORKS AND APPLICATION OF WATER TO BENEFICIAL USE

Date July 1996

TO: Water Rights Division, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM: Tim Ostrem RR #2 Box 33
(name) (address)
Centerville S.D. 57014 605-563-2702
(city) (state) (zip) (phone)

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 5886-3.

Water Permit No. 5886-3 states that the diversion system is to be constructed by 11-13-2000, and that the water is put to beneficial use by 11-13-2004.
(date) (date)

The diversion system was completed on 5-1-96.
(date)

Applying the water to beneficial use was completed on 5-1-96.
(date)

You may schedule an inspection so that the Water License may be issued.

Tim Ostrem
(signature)

Permit No. 5886-3
Vermillion River - Water District

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

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

I have this day, August 25, 2004, made a thorough examination of the water use system constructed by Tim Ostrem of 45924 300th Street, Centerville SD 57014 holder of Permit No. 5886-3, bearing the priority of September 28, 1995 authorizing the diversion of 1.78 cu. ft. per second of the waters of Upper Vermillion Missouri Aquifer for irrigation purposes, in Clay County.

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

A. Works used to divert the water:

A 65 hp Case 4 cylinder (Model 4390T) portable motor with PTO connects to a Amarillo pump

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

Portable motor is set up right at pivot point

C. Works used to apply water to beneficial use:

A Zimmatic low pressure center pivot

The system is in the following condition good. The point of diversion is located approximately 1,300 feet east and 1,320 feet north of the SW corner Section 4, T95N, R52W. The works are capable of diverting and conveying to the place of use 1.78 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:

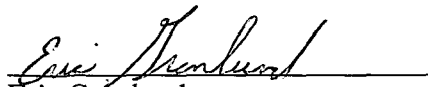
All in Section 4, T95N, R52W

NW ¼ SW ¼	33.5 acres	SW ¼ SW ¼	33.5 acres
NE ¼ SW ¼	33.5 acres	SE ¼ SW ¼	33.5 acres

comprising a total of 134 acres of land and the license should be issued for 1.78 cfs.

Applicable permit qualifications have been complied with: Yes X

Exceptions to compliance are: none Date Report Completed: December 20, 2004


Eric Gronlund
Natural Resources Engineer
DENR, Water Rights Program

FIELD INVESTIGATION REPORT FOR PERMIT NO. 5886-3

DATE OF INVESTIGATION:	August 25, 2004
NAME & ADDRESS OF INVESTIGATION CONTACT/ RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE	Tim Ostrem 45924 300th Street Centerville SD 57014
NAME & ADDRESS OF PERMIT HOLDER	
DIVERSION POINT LEGAL LOCATION	<u>approximately 1,300 feet east and 1,320 feet north of the SW corner Section 4, T95N, R52W</u>

Other permit(s) associated with the project: Water Permit No. 5899-3 shares the same portable
Case Motor (this is not a basis to incorporate the two water permits into one water license)

WELL INFORMATION:

- 1) Well Drilling Firm: Wetmore
- 2) No. of Wells 1
- 3) Depth(s) 97 feet
- 4) Well log is available Yes
- 5) Comment:

Casing:

- 1) Diameter 16 inches
- 2) Length 57 feet
- 3) Type Plastic Sch 40

Screen:

- 1) Type PVC
- 2) Length 40 feet
- 3) Static water level 12 feet

Motor:

- 1) Make Case (portable diesel)
- 2) Model No. 4390T
- 3) Horsepower rating 65 hp

Pump:

- 1) Make Amarillo
- 2) Model
- 3) Size
- 4) Capacity 800 GPM

DISTRIBUTION LINES OR CANALS:

- 1) Type _____
- 2) Size _____ inches
- 3) Length _____ feet

SYSTEM TYPE:

Center pivot:

- 1) Make Zimmatic - Valley
- 2) Overall length 1,360 (w/ end gun) feet

- 3) Number of towers 7
- 4) Distance between towers _____ feet
- 5) End gun Yes
- 6) High or low pressure Low
- 7) Capacity 800 GPM

CHEMIGATION EQUIPMENT:

There was no chemigation equipment present

PERMIT QUALIFICATIONS:

- 1) Special qualifications to permit being abided by Yes
- 2) All structures, wells and lands on map Yes
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Yes

Comment

A spray plane was applying chemicals to this field at the time of the licensing investigation. Therefore, I did not go into the field but observed the pivot from the road. For the well location and information I relied on what Mr. Ostrem told me and verified it by referencing the well completion report. As can be seen in the picture there are some trees but I do not believe they prohibit the pivot from make a full rotation.



Water Permit No. 5886-3, Tim Ostrem –center pivot (picture taken from road looking north east)

Water Permit No. 5886-3, Tim Ostrem
(general layout of center pivot)



0 750 1,500 3,000 4,500 6,000 Feet

Well is located approximately 1300 feet east and 1320 feet north of
the SW corner Section 4, T95N, R52W



Eric Gronlund
Eric Gronlund
Water Rights Program, DENR
Licensing Investigation - August 25, 2004



5886-3
**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

December 23, 2004

5886-3
5899-3

Tim Ostrem
45924 300th St
Centerville SD 57014

Dear Mr. Ostrem:

On August 25, 2004 the investigation of your water use systems, including the extent of application of water to beneficial use, as developed under Water Permit Nos. 5886-3 and 5899-3, was completed by Mark Rath, a staff engineer with our program. Your final water right document, the water license, can now be issued.

State law requires that we charge a \$50.00 fee for the investigation and issuance of each water license. Upon receipt of the \$100.00 fee, we will complete processing your water licenses. The check or money order for the fee should be made payable to the "Water Rights Program".

Your licensed water right will be similar to a property right that can not be lost as long as the water use continues and you abide by the permit requirements.

If you have any questions regarding the water permit, investigation of your water use system or payment of the fee, please contact Genny McMath with our program at (605) 773-3352.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
(605) 773-3352

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date December 29, 20 04

RECEIVED OF Tim Ostrem, 45924 300th St., Centerville SD 57004

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	50	00
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>5886-3</u>		
Fee for Filing Transfer Form _____		
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.

000175

By

Darlene White

Chief Engineer

gm

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 5886-3

(1) Tim Ostrem, 45924 300th St, Centerville SD 57014 made Application No. 5886-3, September 28, 1995 for a water permit to divert 1.78 cubic feet of water per second from groundwater (one well), Clay County, South Dakota for irrigation purposes. Permit No. 5886-3, with a priority date of September 28, 1995 was approved November 13, 1995 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before November 13, 2000 and for the application to beneficial use of water on or before November 13, 2004.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 5886-3 is issued a license, bearing a priority date of September 28, 1995 to appropriate 1.78 cubic feet of water per second from groundwater (one well) to irrigate 134 acres.

The diversion point is located: 1,300 feet east and 1,320 feet north from the southwest corner of Section 4-T95N-R52W. The acres authorized for irrigation are as follows:

Section 4-T95N-R52W	NW ¼ SW ¼	33.5 acres
	NE ¼ SW ¼	33.5 acres
	SW ¼ SW ¼	33.5 acres
	SE ¼ SW ¼	<u>33.5 acres</u>
		134 acres

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 5886-3 including the following now applicable qualifications:

- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The well authorized by Permit No. 5886-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

Garland Erbele

Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JAN 18 2005

date





5886-3

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JAN 18 2005

5886-3

5899-3

Tim Ostrem
45924 300th St
Centerville SD 57014

Dear Mr. Ostrem:

Enclosed are Water License Nos. 5886-3 & 5899-3. These are the final water right documents completing your process of obtaining a Water Right. Enclosed are Receipt Nos. 001565 & 001566 in the amount of \$50.00 each which you paid for the investigation and issuance of the each Water License.

As long as you use the water beneficially, as stated in the Water License, State Water Laws provide that you have a continuing right to use the water.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

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

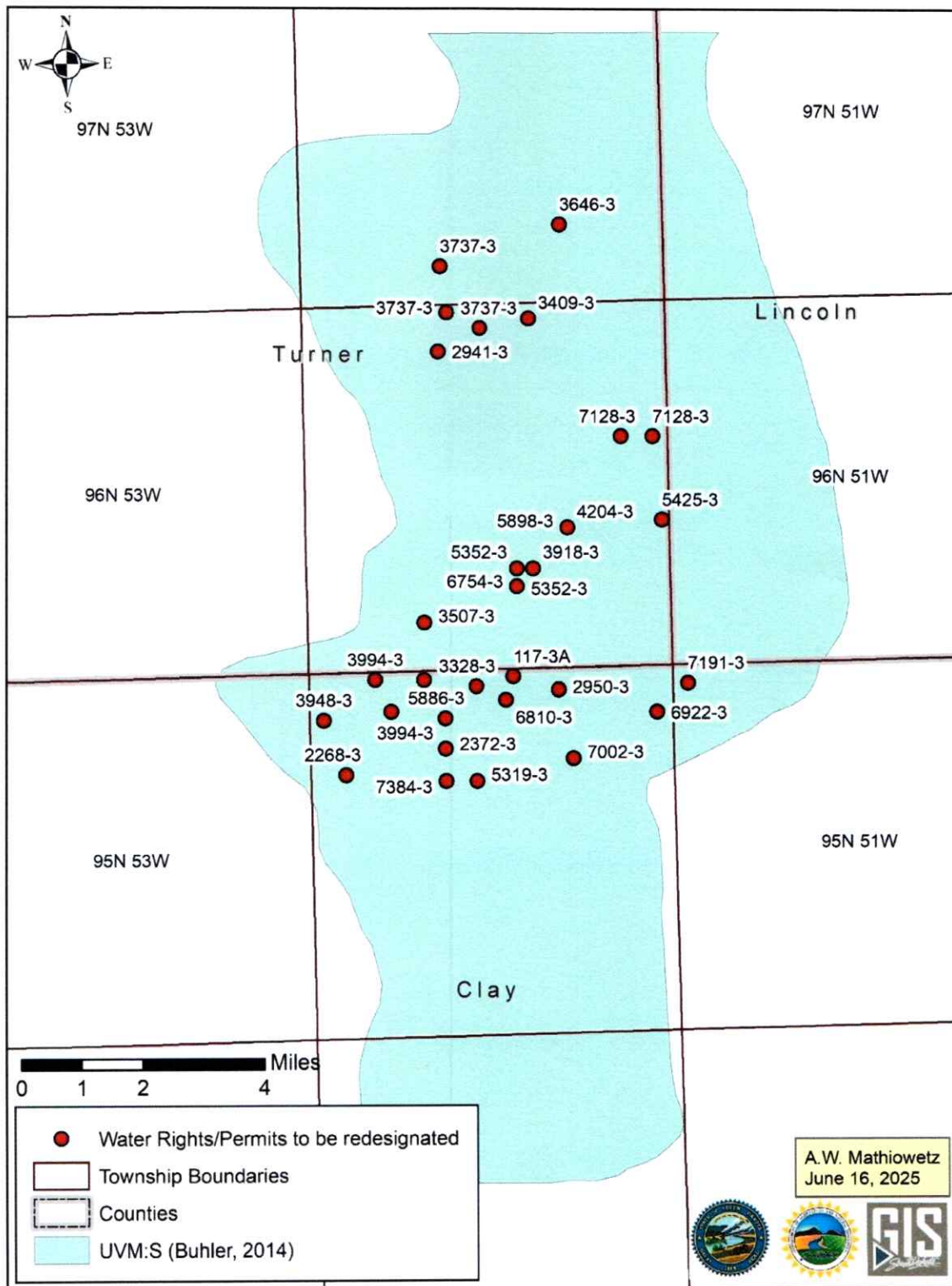


Figure 1- Map of approximate areal extent of the Upper Vermillion Missouri: South aquifer (Buhler, 2014) and water right/permits to be redesignated to include the South management unit designation (Water Rights, 2025)



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