

**WATER PERMIT NO. 5899-3**

Name of Applicant: Tim Ostrem

Address: RR 2, Box 33, Centerville SD 57014

Phone: 605 563-2702

Amount of Water Claimed: 1.77 cfs

Total Acres: 160 acres

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation

County: Clay

Type of Waste Disposal System: NA

Location: about 5 miles southwest of Centerville

PRIORITY

Date Received: 12-21-95

Fee: \$250.00

Corrected Application Received: 1-16-96

Period of Annual Use: May 1 - Sept 30

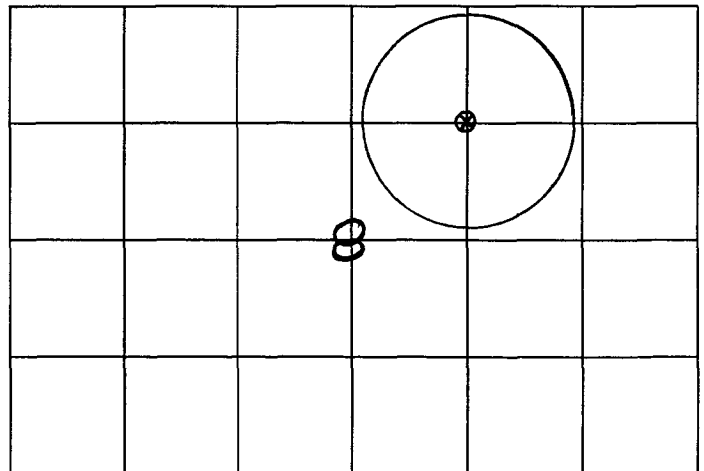
Remarks:

Diversion Point: center of NE 1/4

Sec 8-T95N-R52W

Land to be Irrigated: NE 1/4 Sec 8-T95N

R52W



Depth of Well: 180 feet

Well Driller:

Remarks:

Type of Map: aerial

Prepared by: Lonny Nelson, Clay Co. FSA

Reviewed and the Number Assigned on: 1-16-96

By: Karen Schlaak

Notice of Hearing - date to intervene: \_\_\_\_\_

**SOUTH DAKOTA**  
**WATER PERMIT NO. 5899-3**

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Date of first receipt of application December 21, 1995.

Date of return to applicant for corrections, amendments or changes December 21, 1995.

Date of receipt of corrected application January 16, 1996.

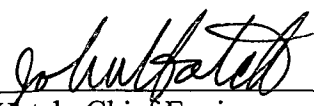
The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 5899-3 to Tim Ostrem, RR 2, Box 33, Centerville SD 57014 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 5899-3 appropriates 1.78 cubic feet of water per second from one well (Upper Vermillion Missouri Aquifer) 180 feet deep located in the center of the NE 1/4 Section 8 to irrigate 160 acres located in the NE 1/4 Section 8; 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 December 21, 1995.
4. The date of approval of Permit No. 5899-3 is March 4, 1996.
5. One-fifth of the construction is to be completed on or before September 4, 1998.
6. All construction is to be completed on or before March 4, 2001.
7. Water is to be put to beneficial use on or before March 4, 2005.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

**QUALIFICATIONS**

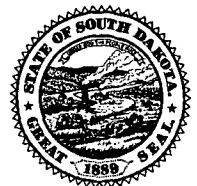
1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 5899-3 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) 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, Chief Engineer  
Water Rights Program  
Department of Environment and Natural Resources

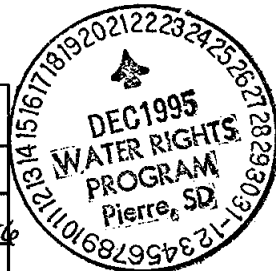
MAR 28 1996

date



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

|                                                                                                                    |                                                                                           |
|--------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Mail to:<br>Water Rights Program<br>Joe Foss Building<br>523 E. Capitol<br>Pierre, SD 57501-3181<br>(605) 773-3352 | (office use only)                                                                         |
|                                                                                                                    | No. <u>5899-3</u> Hydrologic Unit <u>10170102</u>                                         |
|                                                                                                                    | Basin <u>Vermillion River</u>                                                             |
|                                                                                                                    | Newspaper <u>Plain Talk, Box 256, Vermillion, SD 57069-0256</u><br><u>(Fri.) 624-2695</u> |



## Application For Permit To Appropriate Water For Irrigation

Type of Application: X 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.)       

1. Name of Applicant Tim Ostrem ☐ Owner ☒ Tenant/Lessee Phone 605-563-2702  
(check one)
- Mailing Address RR#12 Box 33 Centerville State SD  
(Street, RR, or Box) (Zip Code)
2. 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)
3. Source of water supply
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) Middle of NE 1/4  
8-95-52 County Clay
5. County or counties where water will be used Clay
6. Annual period during which water is to be used May 1 - Sept 30
7. 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 |
|-----------------------|-------|------------------|-------|
| NE 1/4 NE 1/4 8-95-52 | 40-36 |                  |       |
| SE 1/4 NE 1/4 8-95-52 | 40-36 |                  |       |
| NW 1/4 NE 1/4 8-95-52 | 40-36 |                  |       |
| SW 1/4 NE 1/4 8-95-52 | 40-36 |                  |       |

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

Center Pivot

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

STATE OF SOUTH DAKOTA)

County of Clay ss

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 26<sup>th</sup> day of December 19 95

Notary Public

Comm Exp Date: 5-18-96



**Supplemental Information**

(type or print in ink)

**1. Well Information - Proposed Construction**

- a) Drill Hole Diameter 22" Depth 180'
- b) Casing Type PVC Diameter 16" Thickness 3/8"
- c) Screen Type PERF PVC Diameter 16" Thickness 3/8"
- d) Gravel Pack Thickness 3" Length of Gravel Pack 180'
- e) Depth to Top of Water Bearing Material 100'
- f) Depth to Water (ground surface to water level) 30'
- g) Distance to nearest existing domestic well: 1300'
- On applicants property ✓ On property owned by others \_\_\_\_\_

**2. Wastewater Disposal System Information**

- a) Type of System (i.e. septic tank, drain field) \_\_\_\_\_
- b) System Capacity (gallons) \_\_\_\_\_ c) Year Constructed \_\_\_\_\_
- d) Connected to the City of \_\_\_\_\_ Sanitary System.

**3. Dugout Information**

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

**4. Water Storage Dams**

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to 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

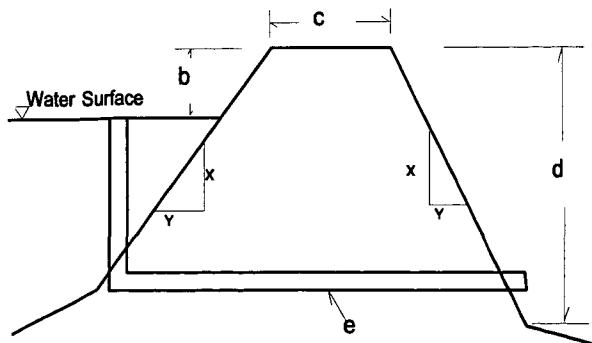
Upstream \_\_\_\_\_

Downstream \_\_\_\_\_

h) Surface Area of Impoundment \_\_\_\_\_

i) Storage \_\_\_\_\_ Acre Feet

j) Drainage Area Above Dam \_\_\_\_\_ Acres



# RECEIPT

## Division of Water Rights

414721

### South Dakota Department of Environment and Natural Resources

Pierre, \_\_\_\_\_, December 21, 19 95

RECEIVED OF Tim or Kari 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>5877-J</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 H. Hotala  
Chief Engineer

# NOT TO SCALE

95-52

77R

T-1439  
(935)  
142.0

T-120  
(1989)  
18.7

T-1453  
(2054)  
166.1

T-1194  
(995)  
100.1

T-1194  
(995)  
23.3

95-52

NE 1/4 of 8-95-52

Boyd Ostern  
is owner of land  
to be irrigated

Lonny Nelson  
County Executive Director  
Clay County FSA  
12-19-92

Clay County FSA  
PO Box 231  
Vermilion, SD 57069

5899-3

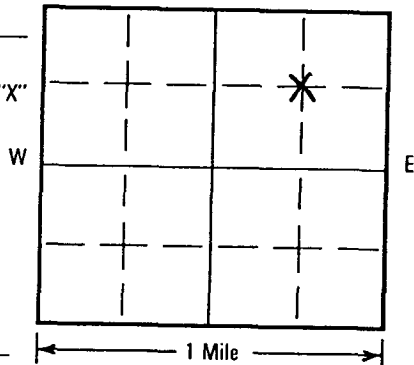
# SOUTH DAKOTA WATER WELL COMPLETION REPORT

5899.3

07-92

Location C  $\frac{1}{4}$  NE  $\frac{1}{4}$  Sec 8 Twp 95 Rg 52  
County Clay

Please mark well location with an "X"



Well Completion Date

4-3-97

Well Owner: Tim Ostrom

Business Name:

Address: Centerville, SD

## WELL LOG:

| FORMATION                | DEPTH      |            |
|--------------------------|------------|------------|
|                          | FROM       | TO         |
| <u>Top</u>               | <u>0</u>   | <u>3</u>   |
| <u>clay</u>              | <u>3</u>   | <u>112</u> |
| <u>Sand &amp; Gravel</u> | <u>112</u> | <u>175</u> |
|                          |            |            |
|                          |            |            |
|                          |            |            |
|                          |            |            |
|                          |            |            |
|                          |            |            |
|                          |            |            |

## LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 2000 ft. from Septic (identify source).

## PROPOSED USE:

- ☐ Domestic/Stock    ☐ Municipal    ☐ Business    ☐ Test Holes  
☒ Irrigation    ☐ Industrial    ☐ Institutional    ☐ Monitoring well

## METHOD OF DRILLING:

Rotary

## CASING DATA:

- ☐ Steel    ☒ Plastic    ☐ Other

If other describe:

| PIPEWEIGHT          | DIAMETER     | FROM          | TO          | HOLE DIAMETER |
|---------------------|--------------|---------------|-------------|---------------|
| <u>Sch 40</u> LB/FT | <u>16</u> IN | <u>115</u> FT | <u>0</u> FT | <u>22</u> IN  |
|                     |              |               |             |               |
|                     |              |               |             |               |

## GROUTING DATA

| Grout Type  | No. of Sacks | Grout Weight        | From          | To           |
|-------------|--------------|---------------------|---------------|--------------|
| <u>bent</u> | <u>100</u>   |                     | <u>115</u> ft | <u>20</u> ft |
| <u>Cmt</u>  | <u>30</u>    | <u>15.5</u> lb./gal | <u>20</u> ft  | <u>0</u> ft  |

Describe grouting procedure Arnie

## SCREEN:

- ☐ Perforated pipe    ☒ Manufactured

Diameter 16 IN Length 60 FEET

Material PVC

Slot Size 50 Set From 175 Feet to 115 Feet

Other information

## WAS A PACKER OR SEAL USED?

☐ YES    ☒ NO

If so, what material?

Describe packer(s) and location?

## DISINFECTION:

Was well disinfected upon completion? ☒ YES, How: Cl

Laboratory sent to for water quality analysis

## STATIC WATER LEVEL

60

Feet

If flowing: closed in pressure \_\_\_\_\_ PSI

GPM flow \_\_\_\_\_ through \_\_\_\_\_ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced Flowrate \_\_\_\_\_ GPM

Can well be completely shut in?

## WELL TEST DATA:

☒ Pumped Describe: \_\_\_\_\_

☐ Bailed \_\_\_\_\_

☐ Other \_\_\_\_\_

## Pumping Level Below Land Surface

85 ft. After 24 Hrs. pumped 800 GPM

\_\_\_\_\_ ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM

If pump installed, pump rate 800 GPM

## REMARKS

This well was drilled under license # 341

And this report is true and accurate.

Drilling firm Wetmore Drilling

Signature of License Representative: [Signature]

Signature of Well Owner or Equitable Property Holder:

Date:





**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

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

December 21, 1995

Tim Ostrem  
RR 2, Box 33  
Centerville SD 57014

Dear Mr. Ostrem:

Enclosed is your water permit application for irrigation of the NE 1/4 Section 8-T95N-R52W. The application needs to be signed and notarized.

If you have questions, please contact me.

Sincerely,

*Karen Schlaak*

Karen Schlaak  
Environmental Scientist  
605 773-3352

enclosure

REPORT ON WATER PERMIT APPLICATION NO. 5899-3  
for Tim Ostrem  
January 25, 1996

Application No. 5899-3 proposes to appropriate 1.78 cfs (800 gpm) from one well approximately 180 feet deep located in the center of the NE 1/4 of section 8 to irrigate 160 acres located in the NE 1/4 of section 8; 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) which is predominantly under water table conditions in this area. The 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 to and extends into Turner County to the north and into the Lower Vermillion Missouri aquifer to the south. Also the Parker Centerville aquifer is hydraulically connected or simply blends into the Upper and Lower Vermillion aquifers in this immediate area. In the area of this application the aquifer is also hydraulically connected to the Vermillion River and ground water movement is basically from north to south and locally toward the Vermillion River (Christensen, 1967).

The Water Rights Program monitors three observation wells within 4 miles of this application. TU-77N (located about 2 miles northeast) is completed into the Parker-Centerville aquifer, CL-66A (located about 2 miles southeast) is completed into the Lower Vermillion Missouri aquifer, and CL-80K (located about 4 miles east) is completed into the Upper Vermillion Missouri aquifer. Water levels for these wells show good correlation with climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years. In general the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 1996).

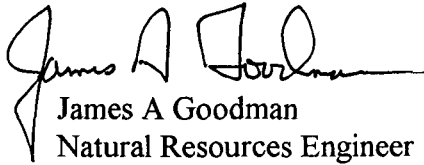
**REVIEW OF EXISTING WATER PERMITS/RIGHTS**

There are six existing water permits/rights within a 1 1/2 mile radius of this application. One of these, Water Right No. 2372-3 is located in the next quarter section east of this application. The diversion points (wells) for these applications will be about 1/2 mile apart. Interference is not a concern. Drawdown created by pumping is not significant at this distance between wells.

**CONCLUSIONS**

1. Water is available from the Upper Vermillion Missouri aquifer.
2. The aquifer is confined but is under water table conditions or under slight artesian conditions. Drawdown is not expected to be significant. Interference is not a concern. The observation well records confirm this conclusion.

3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.



James A Goodman  
Natural Resources Engineer

#### BIBLIOGRAPHY

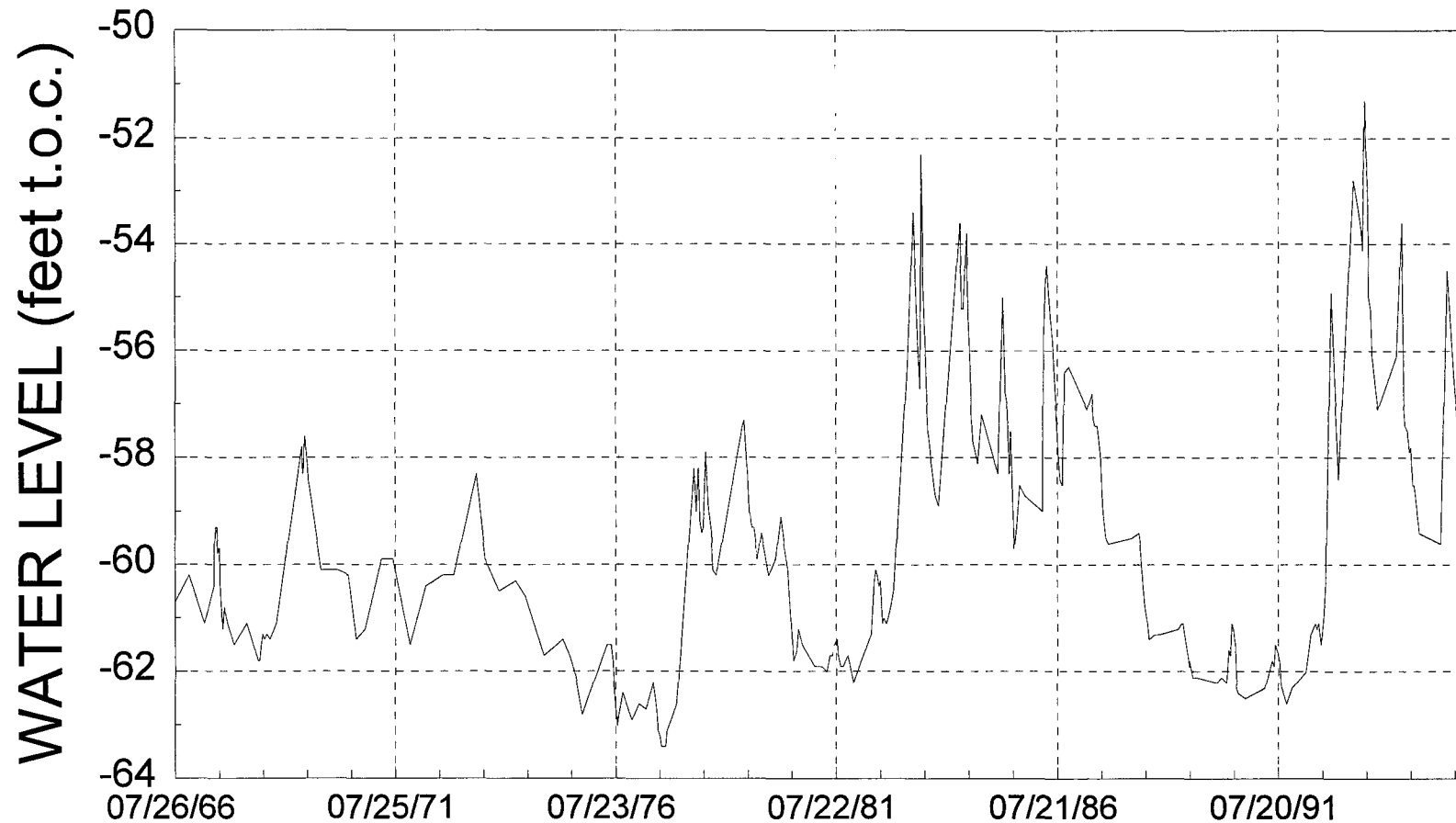
Christensen, C.M., J.C. Stephens, 1967, Geology and Hydrology of Clay County South Dakota, Bulletin 19, SD DENR, SDGS, Vermillion, SD, 57069.

Hedges, L.S., etal, 1982, Evaluation of Ground-Water Resources South Dakota and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Water Rights, 1996, Unpublished Observation Well Records for Clay and Turner Counties, SD DENR, Division of Environmental Services, Water Rights Program, Pierre, SD, 57501.

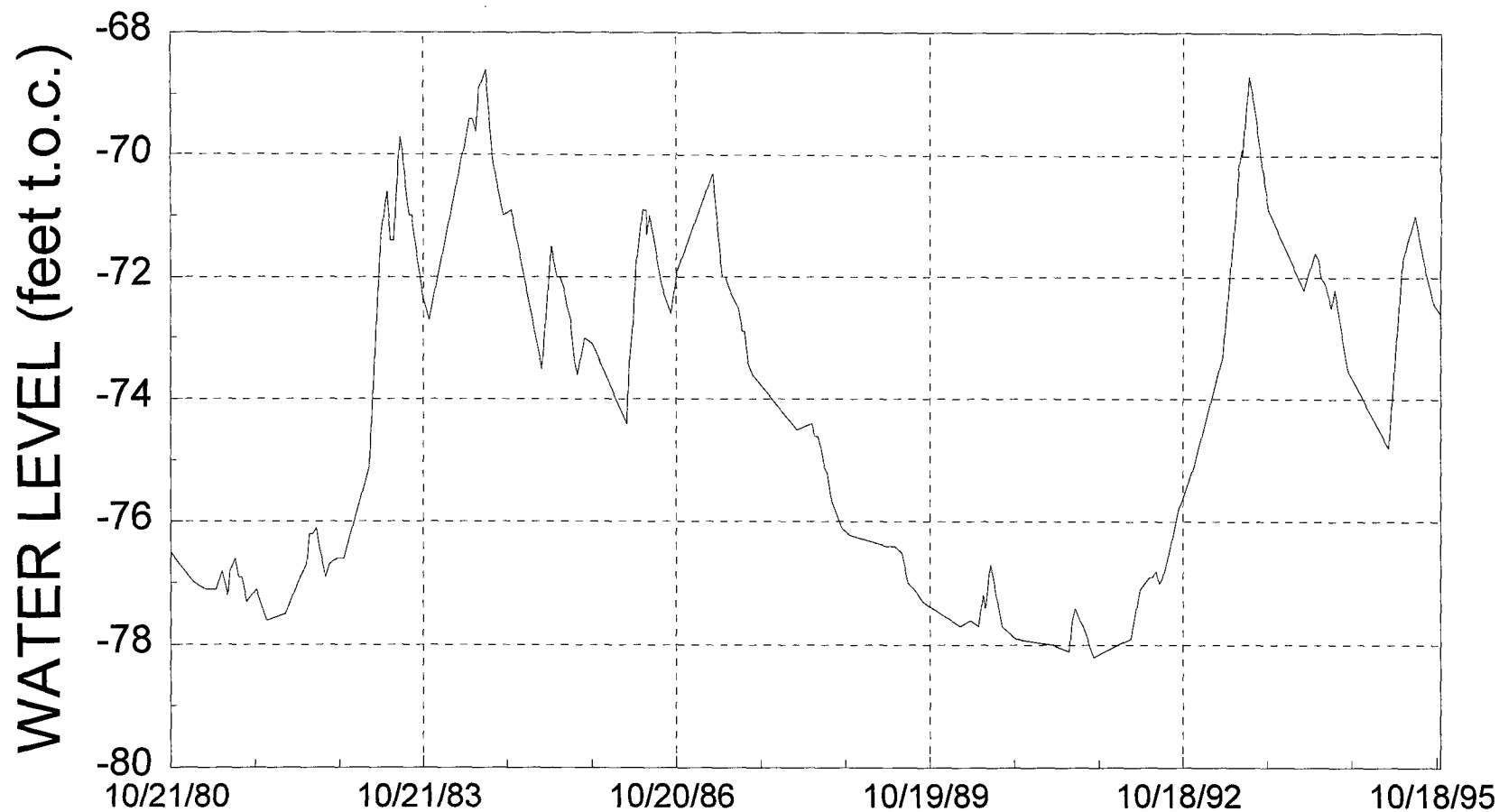
# WATER RIGHTS OBSERVATION WELL

CL-66A



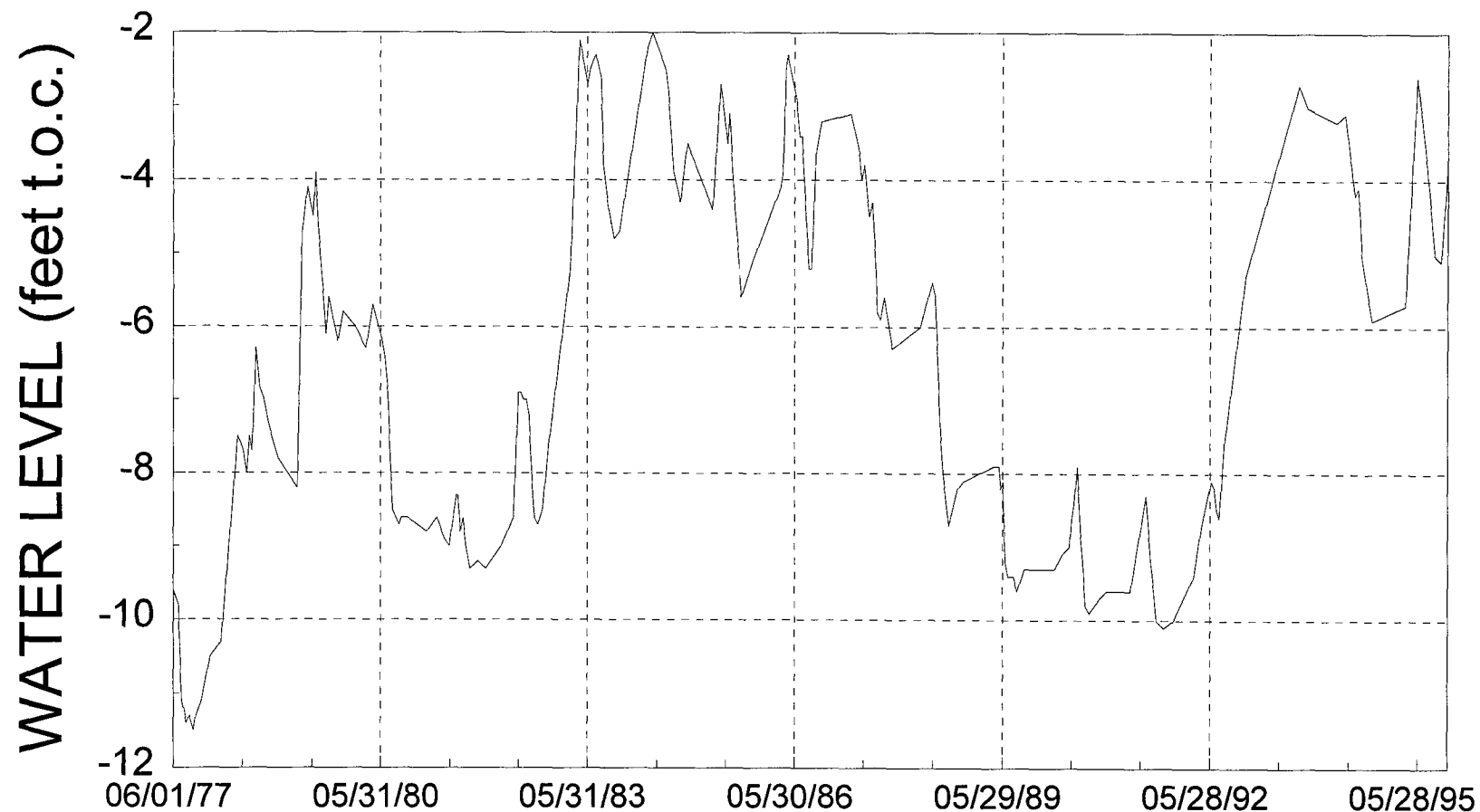
# WATER RIGHTS OBSERVATION WELL

CL-80K



# WATER RIGHTS OBSERVATION WELL

TU-77N



**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT  
APPLICATION NO. 5899-3, 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. 5899-3, Tim Ostrem, RR 2, Box 33, Centerville, SD 57014.

The Chief Engineer is recommending APPROVAL of Application No. 5899-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion has been 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. 5899-3 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) 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  
February 6, 1996



**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.

February 7, 1996

Tim Ostrem  
RR 2, Box 33  
Centerville, SD 57014

Dear Mr. Ostrem:

Water Permit Application No. 5899-3 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 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.



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

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

February 7, 1996

Plain Talk  
Box 256  
Vermillion, SD 57069-0256

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 5899-3 to be published twice. Please publish the first notice on February 16, 1996, 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  
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 February 16, 1996, with the second publication 7 days later. The applicant is responsible for payment.

---

NOTICE OF APPLICATION NO. 5899-3 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 (Upper Vermillion Missouri Aquifer) 180 feet deep located in the center of the NE 1/4 Section 8 to irrigate 160 acres located in the NE 1/4 Section 8; all in T95N-R52W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5899-3 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 March 4, 1996.

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.

Form 8

## 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:

February 16, 1996

February 23, 1996

Cost of Printing: \$32.60

Michelle A. Wilson  
(Signature)

secretary  
(Title)

2/23/96  
(Date Signed)

### NOTICE OF APPLICATION NO.

#### 5899-3 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 (Upper Vermillion Missouri Aquifer) 180 feet deep located in the center of the NE 1/4 Section 8 to irrigate 160 acres located in the NE 1/4 Section 8; all in T95N-R52W.

Pursuant to SDCL 46-2A-2, the chief engineer recommends APPROVAL of Application No. 5899-3 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 March 4, 1996.

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.**  
Publish: February 16 & 23, 1996.





**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

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

**MAR 28 1996**

Tim Ostrem  
RR 2, Box 33  
Centerville, SD 57014

Dear Mr. Ostrem:

Enclosed is Water Permit No. 5899-3 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 may be made to your water permit usually without affecting the priority date. The location of a point of diversion may be changed or additional points of diversion may be approved if the water source remains unchanged; no additional water is appropriated; and, if irrigating, no additional land is irrigated. The change may be allowed without application or publication, if the Water Rights Program is contacted and the chief engineer makes a finding that the change does not increase the potential for interference with existing diversions.

A new water permit application is required to change water sources, increase the permitted diversion rate, or increase the irrigated acreage. If the application is approved, the water permit will receive a new priority date.



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

Date 5-16-97

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

FROM: Tim Ostrem 45924 300th St  
(name) (address)  
Centerville SD 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. 5899-3.

Water Permit No. 5899-3 states that the diversion system is to be constructed by 3-4-2001,  
(date)

3-4-2005.  
(date)

The diversion system was completed on 3-97.  
(date)

Applying the water to beneficial use was completed on 3-97.  
(date)

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

Tim Ostrem  
(signature)

**Permit No. 5899-3**  
**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. 5899-3, bearing the priority of December 21, 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 1,335 feet south and 1,320 feet west of the NE corner (S ½ NE ¼) Section 8, T95N, R52W (Lat/Lon N 43.06492 W-097.0830). 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 8, T95N, R52W**

|           |            |           |            |
|-----------|------------|-----------|------------|
| NW ¼ NE ¼ | 33.5 acres | SW ¼ NE ¼ | 33.5 acres |
| NE ¼ NE ¼ | 33.5 acres | SE ¼ NE 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. 5899-3

|                                                                                          |                                                                                                                                                    |
|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| DATE OF INVESTIGATION:                                                                   | <b>August 25, 2004</b>                                                                                                                             |
| NAME & ADDRESS OF INVESTIGATION CONTACT/<br>RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE | <b>Tim Ostrem</b><br><b>45924 300th Street</b><br><b>Centerville SD 57014</b>                                                                      |
| NAME & ADDRESS OF PERMIT HOLDER                                                          |                                                                                                                                                    |
| DIVERSION POINT LEGAL LOCATION                                                           | <u><b>approximately 1,335 feet south and 1,320 feet west of the NE corner (S ½ NE ¼) Section 8, T95N, R52W (Lat/Lon N 43.06492 W-097.0830)</b></u> |

Other permit(s) associated with the project: **Water Permit No. 5886-3 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) **175** feet
- 4) Well log is available **Yes**
- 5) Comment:

### Casing:

- 1) Diameter **16** inches
- 2) Length **115** feet
- 3) Type **Plastic Sch 40**

### Screen:

- 1) Type **PVC**
- 2) Length **60** feet
- 3) Static water level **60** feet

### Pump:

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

### Motor:

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

### DISTRIBUTION LINES OR CANALS:

- 1) Type \_\_\_\_\_
- 2) Size \_\_\_\_\_ inches
- 3) Length \_\_\_\_\_ feet

### SYSTEM TYPE:

Center pivot:

- 1) Make Zimmatic
- 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**

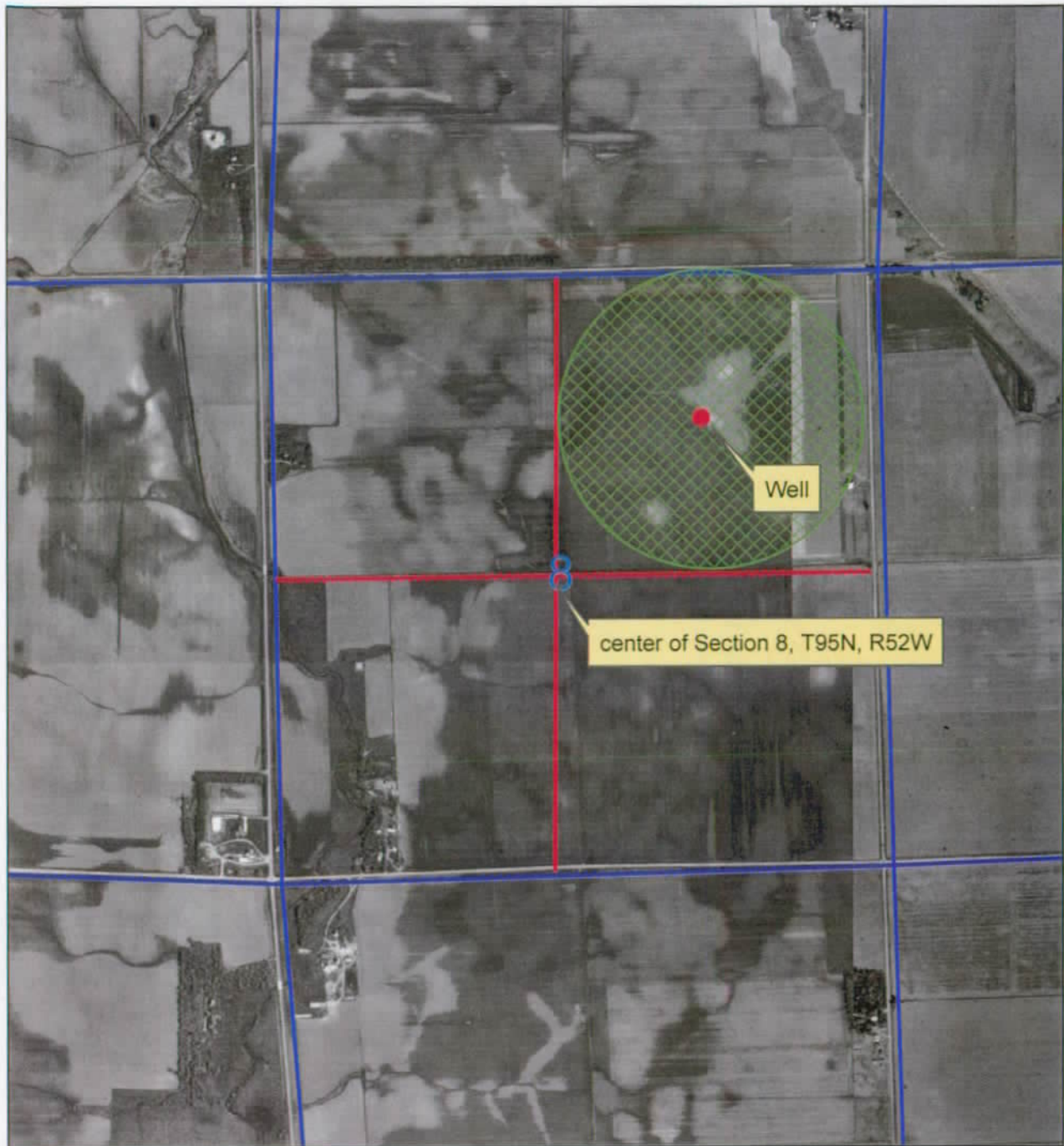
**PERMIT QUALIFICATIONS:**

- 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



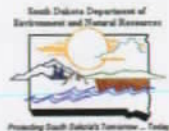
Water Permit No. 5899-3, Tim Ostrem – well, motor and center pivot

Water Permit No. 5899-3, Tim Ostrem  
(general layout of center pivot)



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

Well is located approximately 1335 feet south and 1320 feet west of  
the NE corner Section 8, T95N, R52W  
Lat/Lon N43.06492 W-097.0830



*Eric Gronlund*

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



5-899-3

**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[www.state.sd.us/denr](http://www.state.sd.us/denr)

December 23, 2004

5886-3  
5899-3

Tim Ostrem  
45924 300<sup>th</sup> 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 57014

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>5899--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.

000006

By

Darlene Ebbels  
Chief Engineer  
gm

# STATE OF SOUTH DAKOTA

## WATER LICENSE NO. 5899-3

(1) Tim Ostrem, 45924 300<sup>th</sup> St, Centerville SD 57014 made Application No. 5899-3, December 21, 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. 5899-3, with a priority date of December 21, 1995 was approved March 4, 1996 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before March 4, 2001 and for the application to beneficial use of water on or before March 4, 2005.

(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. 5899-3 is issued a license, bearing a priority date of December 21, 1995 to appropriate 1.78 cubic feet of water per second from groundwater (one well) to irrigate 134 acres.

The diversion point is located: 1,335 feet south and 1,320 feet west of the northeast corner of Section 8-T95N-R52W (S ½ NE ¼). The acres authorized for irrigation are as follows:

|                            |           |                   |
|----------------------------|-----------|-------------------|
| <b>Section 8-T95N-R52W</b> | NW ¼ NE ¼ | 33.5 acres        |
|                            | NE ¼ NE ¼ | 33.5 acres        |
|                            | SW ¼ NE ¼ | 33.5 acres        |
|                            | SE ¼ NE ¼ | <u>33.5 acres</u> |
|                            |           | <b>134 acres</b>  |

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 5899-3 including the following now applicable qualifications:

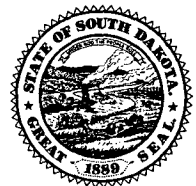
- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The well authorized by Permit No. 5899-3 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





**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[www.state.sd.us/denr](http://www.state.sd.us/denr)

JAN 18 2005

5886-3  
5899-3

Tim Ostrem  
45924 300<sup>th</sup> 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

## Water Rights Program File Documentation

Permit/Right No. and Owner:

| Permit No. | Owner        | Status  | Uses       |
|------------|--------------|---------|------------|
| 5899-3     | Ostrem Farms | License | Irrigation |

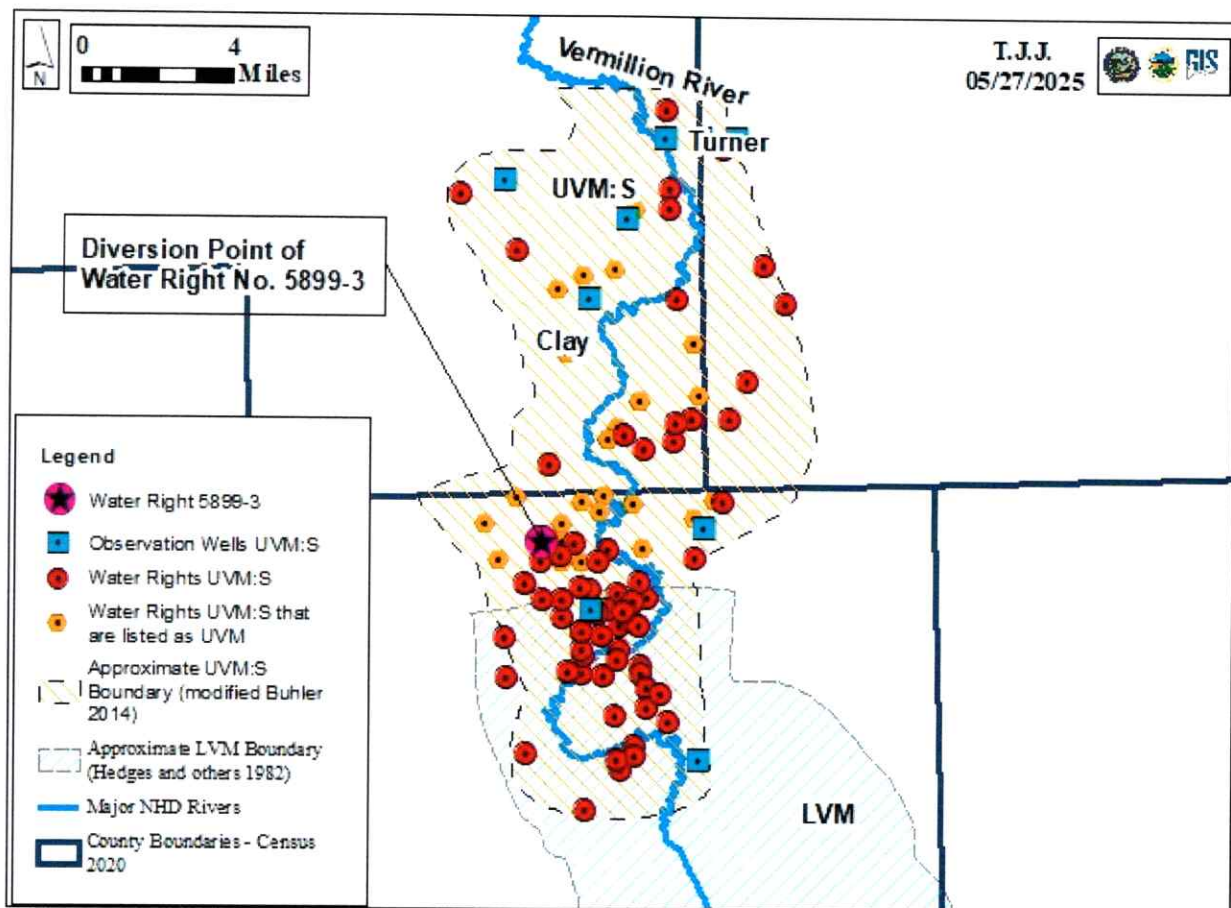
Date: May 27, 2025 County: Clay

RE: aquifer designation

### COMMENTS:

Jensen (2025) as part of a review of the Upper Vermillion Missouri aquifer (UVM) determined that Water Right No. 5899-3, should have a management unit designation added. 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. 5899-3 is the Southern management unit of the Upper Vermillion Missouri aquifer (UVM:S) as shown in Figure 1.

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 Water Right No. 5899-3, 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.



**Figure 1.** Map of the approximate Upper Vermillion Missouri: South aquifer boundary (Buhler, 2014), map of the approximate Lower Vermillion Missouri aquifer boundary (Hedges and others, 1982), Water Rights/Permits for Upper Vermillion Missouri: South aquifer.

*Tyler Jensen*  
 Tyler Jensen  
 Natural Resources Engineer I

*Adam Mark*  
 for 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.
- Hedges, L.S., Burch, S.L., Iles, D.L., Barari, R.A., and Schoon, R.A. 1982. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 1: Bed rock Topography and Distribution, Task 2: Extent of Aquifers, Task 3 Ground-Water Storage, Task 4: Computerized Data Base. United States Army Corps of Engineers Contract DACW 45-80-C-0185.
- Jensen, T. 2025. Report to the Chief Engineer on Water Permit Application No. 8943-3. SD DANR-Water Rights Program. Joe Foss Building, Pierre, South Dakota.