

WATER PERMIT NO. 2478-2

Name of Applicant: Martin Vanderploeg

Address: PO Box 188, Tuthill SD 57574 Phone: 515-292-1651

Amount of Water Claimed: 0.22 cfs Total Acres: NA

Source of Water Supply: groundwater (one well)

Water to be used for: fish & wildlife propagation County: Bennett

Type of Waste Disposal System:

Location: 8 miles southeast of Martin

PRIORITY Date Received: 2-15-2002

Fee: \$225

Corrected Application Received: 3-5-2002

Period of Annual Use: Sept 1 – December 31

Remarks: Proposing to pump well water to a low area

Diversion Point: SW ¼ SW ¼ Sec 9-T36N-R36W

Land to be Irrigated: NA

Depth of Well: 200 feet deep

Well Driller: :

Remarks:

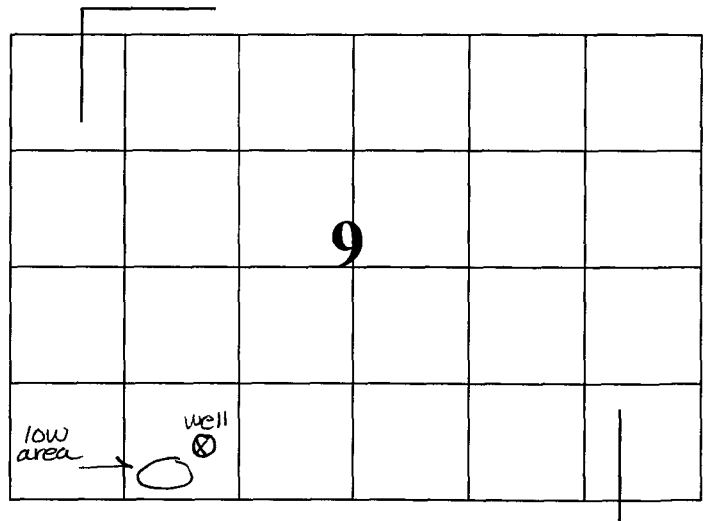
Type of Map: aerial

Prepared by: Mike Schmidt, NRCS

Reviewed and the Number Assigned on: 3-5-2002

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



SOUTH DAKOTA
WATER PERMIT NO. 2478-2

Date of first receipt of application February 15, 2002.

Date of return to applicant for corrections, amendments or changes February 15, 2002.

Date of receipt of corrected application March 5, 2002.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 2478-2 to Martin Vanderploeg, PO Box 188, Tuthill SD 57574 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. 2478-2 appropriates 0.22 cubic feet of water per second from one well (Arikaree Formation) 200 feet deep located in the SW ¼ SW ¼ Section 9-T36N-R36W. The well water will be pumped into a low area located in the SW ¼ SW ¼ Section 9-T36N-R36W during the fall.
2. The water appropriated shall be used for the purpose of maintaining habitat for fish and wildlife propagation and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: September 1 – December 31.
4. The date of approval of Permit No. 2478-2 is May 13, 2002.
5. The date from which applicant may claim right is February 15, 2002.
6. One-fifth of the construction is to be completed on or before November 13, 2004.
7. All construction is to be completed on or before May 13, 2007.
8. Water is to be put to beneficial use on or before May 13, 2011.
9. 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. 2478-2 shall be constructed by a licensed well driller and construction of the well and installation of the pump 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. Pumping from the well is not authorized when diversion of water will cause overland flow out of the low area.

WATER MANAGEMENT BOARD

By: Garland Erbele

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

JUN 13 2002

date



Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>2478-2</u> (office use only) Hydrologic Unit <u>10140203</u>
	Basin <u>White River</u>
	Newspaper <u>Bennett Co. Booster II</u> <u>Martin SD</u>

RECEIVED
FEB 15 2002
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use(s) of water:

☐ Municipal	☐ Suburban Housing	☐ Recreational	☐ Institutional
☐ Rural Water System	☐ Commercial	☒ Fish & Wildlife	☐ Geothermal Heat
☐ Domestic (over 18 gpm)	☐ Industrial	☐ Other	

Type of Application: ☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
(check one) ☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
☐ Amendment/Correction to Permit No. _____

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

1. Name of Applicant Martin Vanderploeg Phone 515-292-1651
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address P. O. Box 188, Tuthill State SD 57574
(Street, RR. or Box) (Zip Code)

2. Amount of water claimed 0.22 *CFS or 100 **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply ground water

4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
one well in SW 1/4 S 1/2 NW 1/4 section 9 - T36N - R36W
County Bennett

5. County or counties where water will be used Bennett

6. Annual period during which water is to be used Sept 1 - Dec. 31

7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

A well will be drilled to pump water into a low area to provide wildlife habitat.

STATE OF SOUTH DAKOTA)

County of Bennett SS

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)

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

Signed Martin Vanderploeg
Subscribed and sworn to before me this 8th day of February 2002



Leanne Swenson
Notary Public

Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 10" Depth 200'
- b) Casing Type PVC Diameter 8" Thickness schedule 40
- c) Screen Type PVC Diameter 8" Thickness schedule 40
- d) Gravel Pack yes Length of Gravel Pack 60'
- e) Depth to Top of Water Bearing Material 150'
- f) Depth to Water (ground surface to water level) 60'
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others 1/4 mile

2. Wastewater Disposal System Information

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

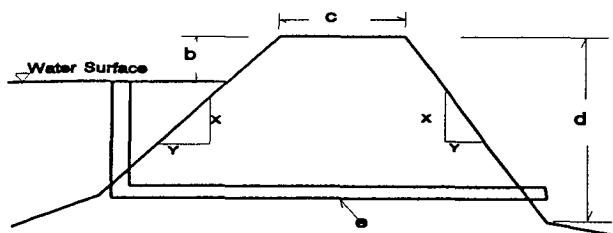
3. Dugout Information

- a) Surface Dimensions 4 acres Depth 12"
- b) Depth to water (ground surface to water level) 60'

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

NHEL

NW

16.2

1802

62.8

T517

45.5

NHEL
NW

2m410 John Slatney

76.8

38.4

T734

NW
NHEL

38.41B

NHEL
NW

4m291 Lawrence Koon

159.3

NHEL
1C

42.0

9

7

T517

38.11D

NW
NHEL

39.81E

NAH

NHEL

39.41E

NHEL

well

dugout

4m291 Lawrence Koon

This is the
signature for
Mike Schmidt -
NRC S Rangeland
Management Specialist.

2478-2

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

NR 417083

Pierre, FEBRUARY 15, 2002

RECEIVED OF Marty Vanderploeg, PO Box 188, Tuthill, SD 57574-0188
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>2478-2</u> to Appropriate Water, to construct and to put water to beneficial use _____	225	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>2478-2</u> _____	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	275 00

By Darland Eide
Chief Engineer *gm*



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

February 15, 2002

Martin Vanderploeg
PO Box 188
Tuthill SD 57574

Dear Mr. Vanderploeg:

Thank you for submitting the *Application for a Permit to Appropriate Water* for fish and wildlife propagation. In order to complete the application the following is required.

Enclosed is the map submitted with the application. The map must be signed by one of the following: Registered Land Surveyor, Registered Professional Engineer or by any other government employee who normally prepares maps as a part of his assigned duties (i.e. local NRCS office).

→ The application states the well is located in the SW ¼ S ½ NW ¼ Section 9-T36N-R36W. This description does not match the location indicated on the map. From the map, it appears that the well and dugout will be located in the SW ¼ SW ¼ Section 9-T36N-R36W. Please make the necessary correction.

Also, has the well been drilled? If so, please submit a copy of the well completion report signed by the driller.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352

enclosure

March 1, 2002
5239 Zumwalt Station Road
Ames, IA 50014

RECEIVED

MAR - 5 2002

WATER RIGHTS
PROGRAM

Karen Schlaak
Water Rights Program
DENR
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3182

Dear Karen:

As we discussed over the phone I'm returning the enclosed original copies of Marty's *Application for Permit to Appropriate Water* with the following changes. On Item #4, the location should be SW ¼ SW ¼ section 9 – T36N – R36W. Also the well has not been drilled yet. As you will see on the map, I've used a post-it to note the signature for Mike Schmidt, NRCS Rangeland Management Specialist.

I think that covers the changes, but if there are any questions, please just give me a call at 515-231-5568. It was nice talking with you, and I appreciate all your help with the application process – we never seem to make these easy to get through! Thanks also for remembering about our office situation being in Iowa and getting things sent here so they don't sit in South Dakota waiting for Marty.

Sincerely,



Leanne Swenson
Personal Assistant

Enclosures

WATER PERMIT APPLICATION NO. 2478-2
MARTIN VANDERPLOEG
APRIL 3, 2002

Water Permit Application No. 2478-2 proposes to appropriate 0.22 cubic feet of water per second from one well (Arikaree Formation) 200 feet deep located in the SW¼ SW¼ Sec.9, T36N-R36W, Bennett County. The well water will be pumped into a low area located in the SW¼ SW¼ Sec. 9, T36N-R36W during the fall months to maintain habitat for fish and wildlife propagation purposes.

AQUIFER: Arikaree (ARKR)

The High Plains Aquifer consists of the upper sandstone units of the Arikaree Formation, the Ogallala Formation, and the Sand Hills Formation, and any terrace or alluvial deposits, all of which are hydraulically connected (Kolm, 1983). The High Plains aquifer underlies 4,750 square miles of South Dakota and contains an estimated 700 million acre feet of water in the state (Gutentag, 1984). The upper members of the High Plains aquifer have been almost entirely eroded away in this area, leaving only the Arikaree Formation. The Arikaree Formation consists mainly of clayey siltstones and sandstones. The saturated thickness of the High Plains aquifer is estimated to be between 400-600 feet thick in this area (Kolm, 1983). The Arikaree Formation underlies approximately 755,840 acres of Bennett County and contains an estimated 2,267,520 acre-feet of recoverable water in storage in the county (Allen, 1984). The saturated thickness of the aquifer is estimated to be 200-400 feet in this area. (Kolm, 1983). The aquifer is under unconfined conditions with the water table controlled locally by topography. Precipitation is the principal source of recharge to the aquifer. The annual recharge rate has been estimated to be 8 percent of the precipitation rate, or about 1.3 in./yr to 1.8 in./yr (Kolm, 1983). Natural discharge occurs to streams and springs, and directly to the atmosphere by evapotranspiration.

WATER AVAILABILITY:

Water Rights Program monitors 41 observation wells completed into the Arikaree Formation, of which 22 are located in Bennett County. Water Rights' Observation Wells BT-77F, BT-78E, BT-78F, and BT-78G are located within approximately five miles of the well used for this application. These observation wells are read monthly and hydrographs of the water levels (figures 1-4) show only slight fluctuations due to existing pumping and changes in climatic conditions (Water Rights, 2002b).

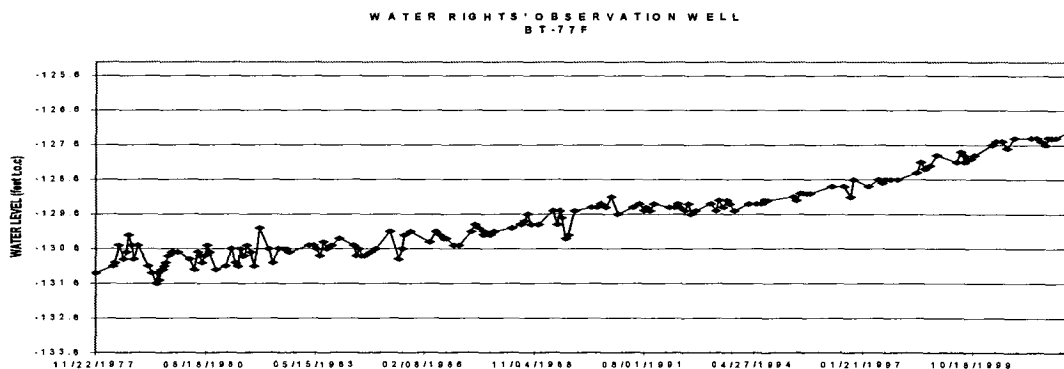


Figure 1. Water Rights' Observation well located approximately three and one-half miles north of the well site proposed by this application.

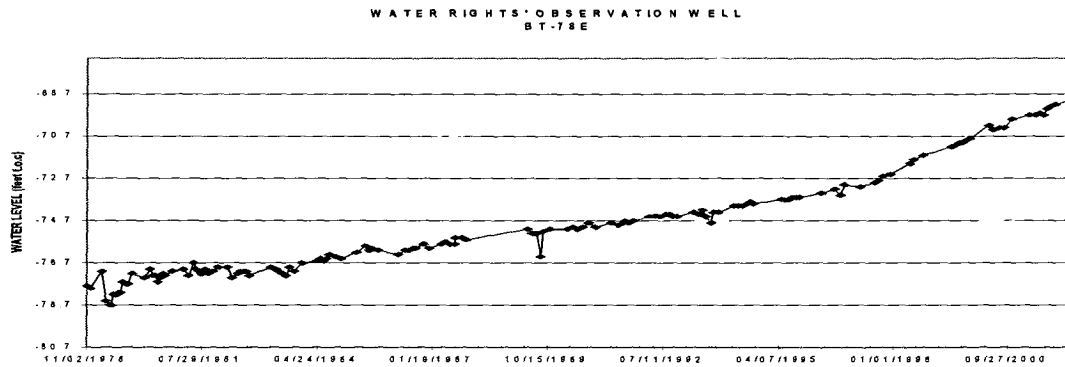


Figure 2. Water Rights' Observation well located approximately four miles northwest of the well site proposed by this application.

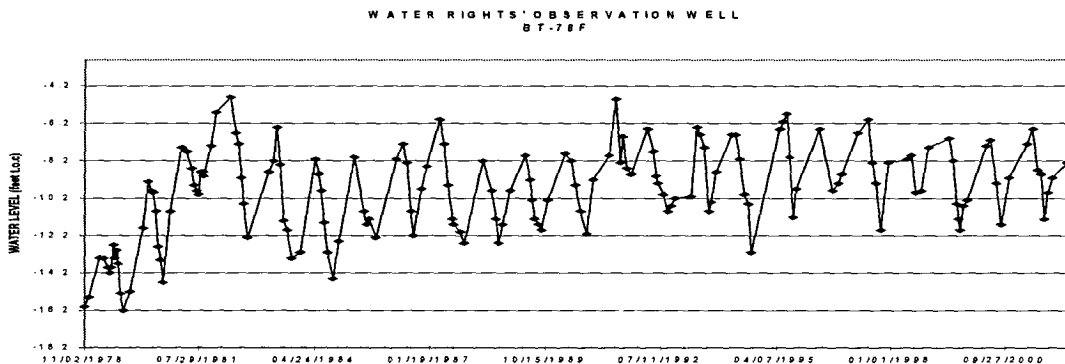


Figure 3. Water Rights' Observation well located approximately two and one-half miles southeast of the well site proposed by this application.

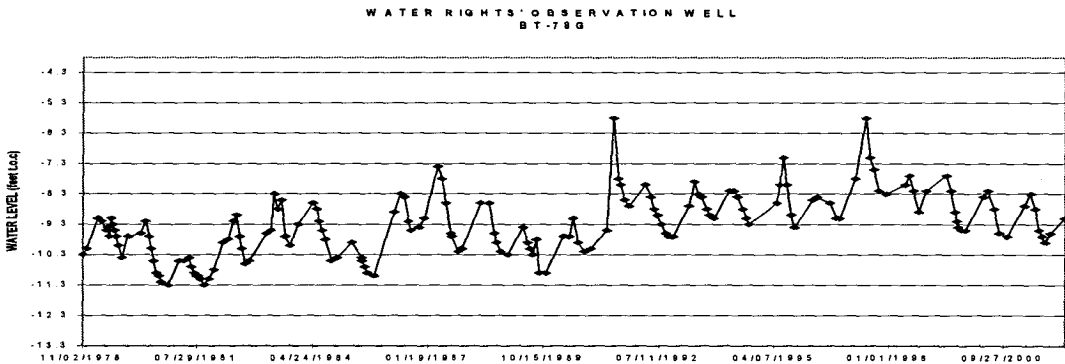


Figure 4. Water Rights' Observation well located approximately four and one-half miles northeast of the well site proposed by this application.

There are 25 permits/rights which appropriate water from the Arikaree aquifer in South Dakota. There are 15 permits/rights from the Arikaree in Bennett County. Irrigation is the major water use from the aquifer with 13 permits/rights appropriating water in the county. The pumpage reported from the Arikaree for irrigation from Bennett County was 1,846.5 ac-ft in 2000 (Water Rights, 2001).

AFFECTS ON EXISTING RIGHTS:

Since the Arikaree aquifer is under unconfined conditions, drawdown from pumping an individual well is not expected be significant very far from the well. Water Right No. 1003-2 is located approximately two and one-half miles northwest of this proposed well site. Interference at this distance is not expected to be a concern.

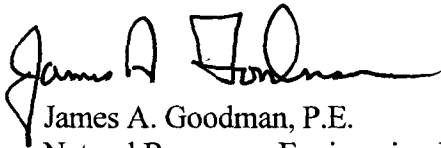
CONCLUSIONS:

1. The Arikaree aquifer is a viable aquifer in this area, and water is available for this appropriation.
2. Well interference should not be a problem in this area.
3. The map submitted with this application may not meet the requirements established by ARSD 74:02:01:07. The legal location (i.e. SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 9, T36N-R36W) is sufficient to evaluate the availability of water for this application and the affect on existing water rights.



Ken Buhler

Natural Resources Engineering Specialist



James A. Goodman, P.E.

Natural Resources Engineering Director

Allen, J.C., D.Iles, A.Petres, 1984, Analysis of Groundwater and Streamflow Data, Western Dakotas Region of South Dakota, Task 3 & 4: Groundwater Resources Inventory, US Army Corps of Engineers Contract DAWC 45-82-C-015, SD DENR- Geological Survey, Vermillion SD

Gutentag, E.D., F.Heimes, N.Krothe, R.Luckey, J.Weeks, 1984, Geohydrology of the High Plains Aquifer in Parts of Colorado, Kansas, Nebraska, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming, United States Printing Office, U.S. Geological Survey Professional Paper 1400-B, Washington, D.C.

Kohlm, K.E., Case, H.L.III, 1983, A Two-Dimensional, Finite-Difference Model of the High Plains Aquifer in Southern South Dakota, Water-Resources Investigations Report 83-4175, U.S., Department of the Interior, U.S. Geological Survey, Lakewood, CO

Water Rights Program, 2001, 2000 Irrigation Summary by Aquifer, DENR-Water Rights Program, Joe Foss Building, Pierre, SD 57501

Water Rights Program, 2002a, Domestic Well Log Files, DENR-Water Rights Program, Joe Foss Building, Pierre, SD 57501

Water Rights Program, 2002b, Observation Well Files, DENR-Water Rights Program, Joe Foss Building, Pierre, SD 57501

Water Rights Program, 2002c, Water Permit/Right Files," DENR-Water Rights Program, Joe Foss Building, Pierre, SD 57501



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 2478-2, Martin Vanderploeg**

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. 2478-2, Martin Vanderploeg, PO Box 188, Tuthill SD 57574.

The Chief Engineer is recommending APPROVAL of Application No. 2478-2 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) it is 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., 2478-2 shall be constructed by a licensed well driller and construction of the well and installation of the pump 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. Pumping from the well is not authorized when diversion of water will cause overland flow out of the low area..

See report on application for additional information.

Garland Erbele, Chief Engineer
April 11, 2002

Affidavit of Publication

State of South Dakota

County of Bennett

ss.

Tim Huether

being duly sworn, says: the Bennett County Booster II is, and during all the times hereinafter mentioned was, a weekly legal newspaper as defined in SDCL 17-2-2, as amended published at Martin, Bennett County, South Dakota; that affiant is and during all of said times was, an employee of the publisher of such newspaper and has personal knowledge of the facts stated in this affidavit; that the notice, order or advertisement, a printed copy of which is attached, was

published in said newspaper for 2 successive issues, bearing the following dates:

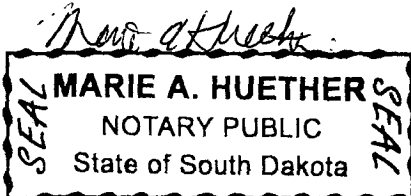
April 24, 20 02
May 1, 20 02
_____, 20 ____
_____, 20 ____
_____, 20 ____
_____, 20 ____

that the full amount of the fee charged for publishing

the same, to-wit, the sum of \$ 41.59, inures solely to the benefit of the publisher of said newspaper; that no agreement or understanding for the division of the fee has been made with any person, and that no part of the fee has been agreed to be paid to any other person.

Tim Huether

Subscribed and sworn to before me this 28 day
of May, 20 02.



My Commission Expires
July 6, 2007

Notice of Application No. 2478-2 to Appropriate Water

Notice is given that Martin Vanderploeg, PO Box 188, Tuthill, SD 57574, has filed an application for a water permit to appropriate 0.22 cubic feet of water per second from one well (Arikaree Formation) 200 feet deep located in the SW1/4SW1/4 Section 9-T36N-R36W. The well water will be pumped into a low area located in the SW1/4SW1/4 Section 9-T36N-R36W during the fall months to maintain habitat for fish and wildlife propagation purposes.

Pursuant to SDCL 46-2A-1, the Chief Engineer recommends APPROVAL of Application No. 2478-2 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 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 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 May 13, 2002.

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. Steven M. Pirner, Secretary, Department of Environment and Natural Resources. 2tc-5/1

RECEIVED

MAY 30 2002

WATER RIGHTS
PROGRAM

Instruction to Newspaper - Publish first Notice on April 24, 2002 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 2478-2 to Appropriate Water

Notice is given that Martin Vanderploeg, PO Box 188, Tuthill SD 57574 has filed an application for a water permit to appropriate 0.22 cubic feet of water per second from one well (Arikaree Formation) 200 feet deep located in the SW ¼ SW ¼ Section 9-T36N-R36W. The well water will be pumped into a low area located in the SW ¼ SW ¼ Section 9-T36N-R36W during the fall months to maintain habitat for fish and wildlife propagation purposes.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 2478-2 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. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

April 15, 2002

Bennett Co. Booster II
PO Box 610
Martin, SD 57551-0610

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 2478-2 to Appropriate Water to be published twice. Please publish the first notice on April 24, 2002 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 Martin Vanderploeg, % Leanne Swenson, 5239 Zumwalt Station Rd., Ames, IA 50014 (Ph # 515-231-5568).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

No. 2478-2

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

Date _____

We are in receipt of your letter of April 15, 2002 enclosing Notice of Hearing to Appropriate Water by Application No. 2478-2 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

April 15, 2002

Martin Vanderploeg
PO Box 188
Tuthill, SD 57574

Dear Mr. Vanderploeg:

Water Permit Application No. 2478-2 for fish and wildlife 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 Bennett Co. Booster II printed at Martin, SD (Ph # 605-685-6866). You will need to contact the newspaper and authorize publication of this notice. 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. Upon receiving authorization, 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 also 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

c: Leanne Swenson, 5239 Zumwalt Station Rd., Ames, IA 50014

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.



JUN 13 2002

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

Martin Vanderploeg
PO Box 188
Tuthill, SD 57574

Dear Mr. Vanderploeg:

Enclosed is Water Permit No. 2478-2 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *?Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

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

enclosures

c: Leanne Swenson, 5239 Zumwalt Station Rd., Ames IA 50014

WELL LOG

By Refuge headquarters
2478-2

WELL OWNER Marty Vanderploeg - Martin, SD,
 LOCATION Southwest Quarter of
 LEGAL DESCRIPTION Section 9 T36N, R36W Bennett Co.nty
 DRILLED BY Tim ADAIR, Penny Garnette, Stacy Carry Watson
 PROJECT _____
 DATE _____

DEPTH	FORMATION
<u>0</u> - <u>2</u>	<u>TOP SOIL</u>
<u>2</u> - <u>87</u>	<u>SAND (med)</u>
<u>87</u> - <u>200</u>	<u>SAND (med) clay</u>
<u>200</u> - <u>236</u>	<u>RED ROCK (water bearing)</u>

ALL DEPTHS MEASURED FROM GROUND LEVEL

5" WELL CASING	PVC	200	<u>+2</u>	TO	<u>201</u>
5" WELL CASING	PVC	250	<u>201</u>	TO	<u>221</u>
5" WELL SCREEN	PVC	250	<u>221</u>	TO	<u>236</u>
5" WELL SCREEN	STAINLESS STEEL 5"			TO	
SCREEN SLOTS	<u>.020</u>	INCHES			
GRAVEL PACK * TYPE	<u>Burke</u>		<u>214</u>	TO	<u>236</u>
GROUT	<u>Environmental Bentonite Grout</u>	8		TO	<u>30</u>
FORMATION STABILIZER			<u>30</u>	TO	<u>214</u>
TOTAL DEPTH TO BOTTOM OF WELL			<u>236</u>	LF	
WELL DEVELOPMENT TIME			<u>4</u>	HOURS	

FOOTNOTE: 5 HP pump set at 204' - Static 44'
 Pumping level 182' at 55 gpm

Permit No. 2478-2
White 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, October 25, 2005, made a thorough examination of the water use system constructed by Martin Vanderploeg of Box 188, Tuthill SD 57574 holder of Permit No. 2478-2, bearing the priority of February 15, 2002 authorizing the diversion of 0.22 cu. ft. per second of the waters of Arikaree Formation for fish and wildlife propagation purposes, in Bennett County.

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

A. Works used to divert the water:

A 200 foot well (see picture)

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

Water is diverted by a 2 inch pipe and allowed to flow into a drainage to impound water in a low area for seasonal wildlife habitat

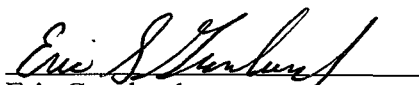
C. Works used to apply water to beneficial use:

None – water spreads over an approximate 2.4 acre parcel of land.

The system is in the following condition good. The point of diversion is located approximately 220 feet east and 370 feet north of SW corner Section 9, T36N, R36W Lat/Lon N43.104774 W-101.573627. The works are capable of diverting and conveying to the place of use 0.10 cu. ft. per second of water and/or storing up to 10 acre feet of water which is to be used for fish and wildlife propagation. Water is capable of being put to beneficial use to the maximum extent and the license should be issued for 0.10 cfs

Applicable permit qualifications have been complied with: YES (there has been no overland flow out of the low area.

Exceptions to compliance are: none Date Report Completed: November 15, 2005



Eric Gronlund
Natural Resources Engineer
DENR, Water Rights Program

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

Date Oct 25 2005

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

FROM:

Martin Vanderploeg
(name)

(address)

(city, state, zip)

(phone)

I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

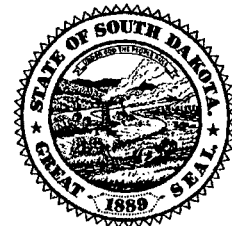
Water Permit No. 2478-2 states that the water use system is to be constructed by _____, and water is to be put to beneficial use by _____.
(date) (date)

The water use system was completed on 6/2003.
(date)

Applying the water to beneficial use was completed on 9/2003.
(date)

You may schedule an investigation so that the water license may be issued.

Martin Vanderploeg



FIELD INVESTIGATION REPORT FOR PERMIT NO. 2478-2

DATE OF INVESTIGATION:	October 25, 2005
NAME & ADDRESS OF INVESTIGATION CONTACT/ RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE	Martin Vanderploeg Box 188 Tuthill SD 57574
NAME & ADDRESS OF PERMIT HOLDER	Same
DIVERSION POINT LEGAL LOCATION	<u>Well located approximately 220 feet east and 370 feet north of SW corner Section 9, T36N, R36W</u> <u>Lat/Lon N43.104774 W-101.573627</u>

Other permit(s) associated with the project: none

WELL INFORMATION:

- 1) Well Drilling Firm: Doug O'Bryan
Construction
- 2) No. of Wells 1
- 3) Depth(s) approx. 200 feet
- 4) Well log is available No
- 5) Comment: see below

Casing:

- 1) Diameter 8 inches
- 2) Length feet
- 3) Type PVC

Screen:

- 1) Type PVC
- 2) Length feet
- 3) Static water level est. 150 feet

Pump: Submersible

- 1) Make unknown
- 2) Model
- 3) Size
- 4) Capacity 45 GPM

Motor:

- 1) Make
- 2) Model No.
- 3) Horsepower rating 5 hp

Low area

- 1) Surface acreage approximately 2.4 acres
- 2) Maximum depth approximately 3 feet
- 3) Seasonal storage 2.8 acre feet of water

Project Description – water is diverted from the well on a seasonal basis to maintain habitat for fish and wildlife production. The well produces only 45 gpm (0.10 cfs). The well is not located to the south west of its originally intended location. However, the well is still within the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 9, T36N, R36W as stated on the permit.

The well driller was contacted by phone and by written correspondence but has not provided the well completion report or any information about the pump installed in the well. The information contained in the report was provided by Mr. Vanderploeg.

PERMIT QUALIFICATIONS:

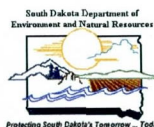
- 1) Special qualifications to permit being abided by **Yes**
- 2) All structures, wells and lands on map **Yes**
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period **not applicable**



Well authorized by Water Permit No. 2478-2



Well located approximately 220 feet east and 370 feet north of SW corner Section 9, T36N, R36W
Lat/Lon N43.104774 W-101.573627




Eric Gronlund
Water Rights Program, DENR
Licensing Investigation - October 25, 2005



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

2455-2
2478-2
2553-2

NOV 01 2006

Martin Vanderploeg
PO Box 188
Tuthill SD 57574

Dear Mr. Vanderploeg:

Enclosed are Water License Nos. 2455-2, 2478-2 and 2553-2. These are the final documents completing your process of obtaining a Water Right.

As long as you use the water beneficially, as stated in the Water Licenses, 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

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2478-2

(1) Martin Vanderploeg, PO Box 188, Tuthill SD 57574 made Application No. 2478-2, February 15, 2002 for a water permit to divert 0.22 cubic feet of water per second from groundwater (one well), Bennett County, South Dakota for fish and wildlife propagation purposes. Permit No. 2478-2, with a priority date of February 15, 2002 was approved May 13, 2002 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before May 13, 2007 and for the application to beneficial use of water on or before May 13, 2011.

The permit holder submitted a *Notice of Completion of Works and Application of Water to Beneficial Use* on October 25, 2005. The *Notice* stated the diversion system was completed June, 2003 and the water placed to beneficial use September, 2003.

(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. 2478-2 is issued a license, bearing a priority date of February 15, 2002 to appropriate 0.10 cubic feet of water per second from groundwater (one well) for fish and wildlife propagation.

The diversion point is located: approximately 220 feet east and 370 feet north of the southwest corner of Section 9-T36N-R36W (SW ¼ SW ¼).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 2478-2 including the following 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. 2478-2 shall be constructed by a licensed well driller and construction of the well and installation of the pump 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.
- Pumping from the well is not authorized when diversion of water will cause overland flow out of the low area.

Garland Erbele

Garland Erbele, Chief Engineer

Water Rights Program

Department of Environment and Natural Resources

NOV 01 2006

date

