

WATER PERMIT NO. 7195-3

Name of Applicant: **Craig Vanderlei**

Address: **40908 312th St, Springfield SD 57062**

Phone: **605 369-2609**

Amount of Water Claimed: **2.0 cfs**

Total Acres: **245**

Source of Water Supply: **groundwater (one well)**

Water to be used for: **irrigation**

County: **Bon Homme**

Type of Waste Disposal System: **NA**

Location: **6 miles west of Springfield**

PRIORITY

Date Received: **4-8-10**

Application/License Fee: **\$1,250**

Corrected Application Received:

Period of Annual Use: **May 1 – Sept 30**

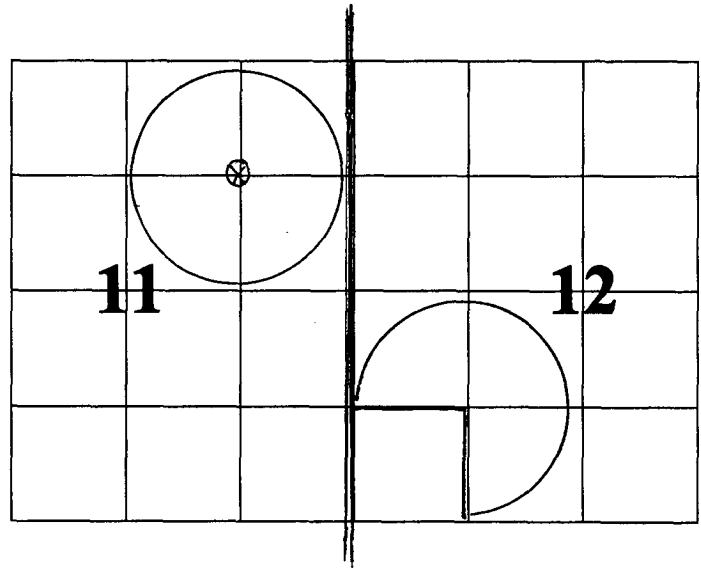
Remarks:

Diversion Point: **center of NE ¼ Sec 11-T93N-**

R61S

Land to be Irrigated: **NE ¼ Sec 11 and N ½ SW ¼,**

SE ¼ SW ¼ Sec 12; all in T93N-R61W



Depth of Well: **240 feet deep**

Well Driller:

Remarks:

Type of Map: **aerial**

Prepared by: **Michael Rahling, Bon Homme FSA**

Reviewed and the Number Assigned on: **4-8-10**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

FORM 2: Application for irrigation in South Dakota

(type or print)

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>7195-3</u>	(office use only) Hydrologic Unit <u>10170101</u>
	Basin <u>Missouri River</u>	
	Newspaper <u>Tyndall Tribune & Register</u>	
	<u>605-589-3242 PO Box 520 57066</u>	

RECEIVED

APR - 8 2010

WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____

(Use predates Mar 2, 1955)

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

1. Name of Applicant Craig Vanderlei Phone 605-369-2609
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 40908 312th St Springfield SD 57062
(Address) (City) (State) (Zip Code)
2. Amount of water claimed 2.0 *CFS or 900 **GPM ***AF Total Acreage 245
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply Well
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Bon Homme
1 well in center of NE 1/4 of section 11-T93N-R-61W
5. County or counties where water will be used Bon Homme
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
<u>NE 1/4 of NE 1/4 of section 11</u>	<u>35</u>	<u>NE 1/4 of SW 1/4 of section 12</u>	<u>35</u>
<u>SE 1/4 of NE 1/4 of section 11</u>	<u>35</u>	<u>NW 1/4 of SW 1/4 of section 12</u>	<u>35</u>
<u>SW 1/4 of NE 1/4 of section 11</u>	<u>35</u>	<u>SE 1/4 of SW 1/4 of section 12</u>	<u>35</u>
<u>NW 1/4 of NE 1/4 of section 11</u>	<u>35</u>	<u>all in T93N R61W</u>	

8. Give a description of the project. (Attach sheet if more space is needed)
Well to be drilled in center of NE 1/4 of section 11-T93N-R-61W
for pivot on NE 1/4 of section 11 and piped to center of SW 1/4 of section 12
for pivot.

STATE OF SOUTH DAKOTA)
County of Bon Homme) SS

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

I, Craig Vanderlei, 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.Applicant's signature Craig VanderleiSubscribed and sworn to before me this 6th day of April 20 10E. R. Brown
Notary Public signature

SOUTH DAKOTA
WATER PERMIT NO. 7195-3

Date of first receipt of application April 8, 2010.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7195-3 to Craig Vanderlei, 40908 312th St, Springfield SD 57062 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. 7195-3 appropriates 2.0 cubic feet of water per second from one well to be completed into the Choteau:West Aquifer (approximately 240 feet deep) located in the center of the NE $\frac{1}{4}$ Section 11 to irrigate 245 acres located in the NE $\frac{1}{4}$ Section 11 and N $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 12; all in T93N-R61W.
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 April 8, 2010.
4. The date of approval of Permit No. 7195-3 is June 1, 2010.
5. One-fifth of the construction is to be completed on or before December 1, 2012.
6. All construction is to be completed on or before June 1, 2015.
7. Water is to be put to beneficial use on or before June 1, 2019.
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. 7195-3 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) 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: Garland Erbele
Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JUL 14 2010
date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 28" Depth 240
- b) Casing Type plastic Diameter 16" Thickness .666"
- c) Screen Type plastic Diameter 16" Thickness .666"
- d) Gravel Pack armor coat Length of Gravel Pack 100 feet
- e) Depth to Top of Water Bearing Material 200'
- f) Depth to Water (ground surface to water level) 160'
- g) Distance to nearest existing domestic well:
- On applicant's property _____ On property owned by others 2 miles

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

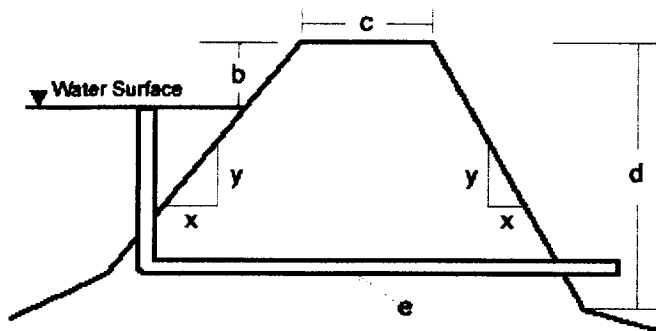
3. Dugout Information

- a) Surface Dimensions _____ 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 (e.g. 3 to 1 is a typical slope)
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres



United States Department of Agriculture
Farm Service Agency

March 15, 2010

PLSS: 12_93_61
Farm: 3956

Bon Homme County, SD

1:7,575



Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Wetland Determination Identifiers

- Restricted Use
- ▼ Limited Restrictions
- Exempt from Conservation Compliance Provisions

□ Common Land Units

▨ Non Cropland

APR - 8 2010

2008 Ortho-Photography - Not to Scale

WATER RIGHTS
PROGRAM



United States Department of Agriculture
Farm Service Agency



March 18, 2010

PLSS: 11_93N_61W
Farm: 5008

Bon Homme County, SD

1:7,669

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Wetland Determination Identifiers
 ● Restricted Use
 ▼ Limited Restrictions
 ■ Exempt from Conservation Compliance Provisions

□ Common Land Units

▨ Non Cropland

2008 Ortho-Photography - Not to Scale

RECEIVED

APR - 8 2010

WATER RIGHTS PROGRAM

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 4/8, 20 10

RECEIVED OF Craig Vanderlei 40908 312th St Springfield SD 57062

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

Fee for Application for Permit No. <u>7195-3</u> to Appropriate Water, to construct and to put water to beneficial use	1050 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>7195-3</u>	200.00
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	1250 00

No.

04523

By

Richard E. ...
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7195-3, Craig Vanderlei**

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. 7195-3, Craig Vanderlei, 40908 312th Street, Springfield SD 57062.

The Chief Engineer is recommending APPROVAL of Application No. 7195-3 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) 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. 7195-3 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) 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.

Garland Erbele, Chief Engineer
May 3, 2010

NOTE: An important consideration in developing an irrigation project is assessing the compatibility of the soils with the quality of the water to be used. The Choteau West Aquifer may be of marginal quality for irrigation use. Reduced crop yield and damage to the soil structure may occur without proper irrigation management. I encourage you to complete a soil/water compatibility analysis and implement an irrigation management plan to maintain the suitability of the soils.

**Report on Water Permit Application No. 7195-3
for Craig Vanderlei
April 13, 2010**

Application No. 7195-3 proposes to appropriate 900 gallons per minute (2.0 cfs) from one well approximately 240 feet deep to be completed into the Choteau:West aquifer located in the center of the NE $\frac{1}{4}$ Section 11 to irrigate 245 acres in the NE $\frac{1}{4}$ Section 11 and N $\frac{1}{2}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 12; all in T93N-R61W in Bon Homme County. The annual period during which water will be used is January 1 through December 31.

AQUIFER: Choteau:West (CH:W)

This report will address the availability of unappropriated water from the Choteau:West aquifer.

WATER AVAILABILITY

Aquifer Characteristics:

The Choteau West Aquifer is a buried outwash (sand and gravel) that is under confined conditions in the area of this application. The aquifer underlies 32 square miles in Bon Homme County and contains an estimated 120,000 acre-feet (Jorgensen, 1971). The aquifer extends into Charles Mix County to the west and is likely hydraulically connected to the Niobrara aquifer in this area. Ground water movement is likely from north to south across the area of this application (Jorgensen, 1971). The Choteau aquifer lies in the ancient Ponca Creek valley which has been incised into the Niobrara marl and Pierre shale bedrock surface (Christensen, 1974) and is cut completely into the underlying Carlile shale.

No test hole report was filed with the application, however there should be sufficient information from nearby permits and observation wells along with the county reports to evaluate this application location.

Observation Well Data:

The Water Rights Program monitors an observation well, BH-78D, completed into the Choteau:West located less than one half mile northwest of the application location. Water levels for this well show good response to climatic conditions, that is, rising water levels during wet years and gradually declining water levels during dry years. A hydrograph for this observation well is included with this report.

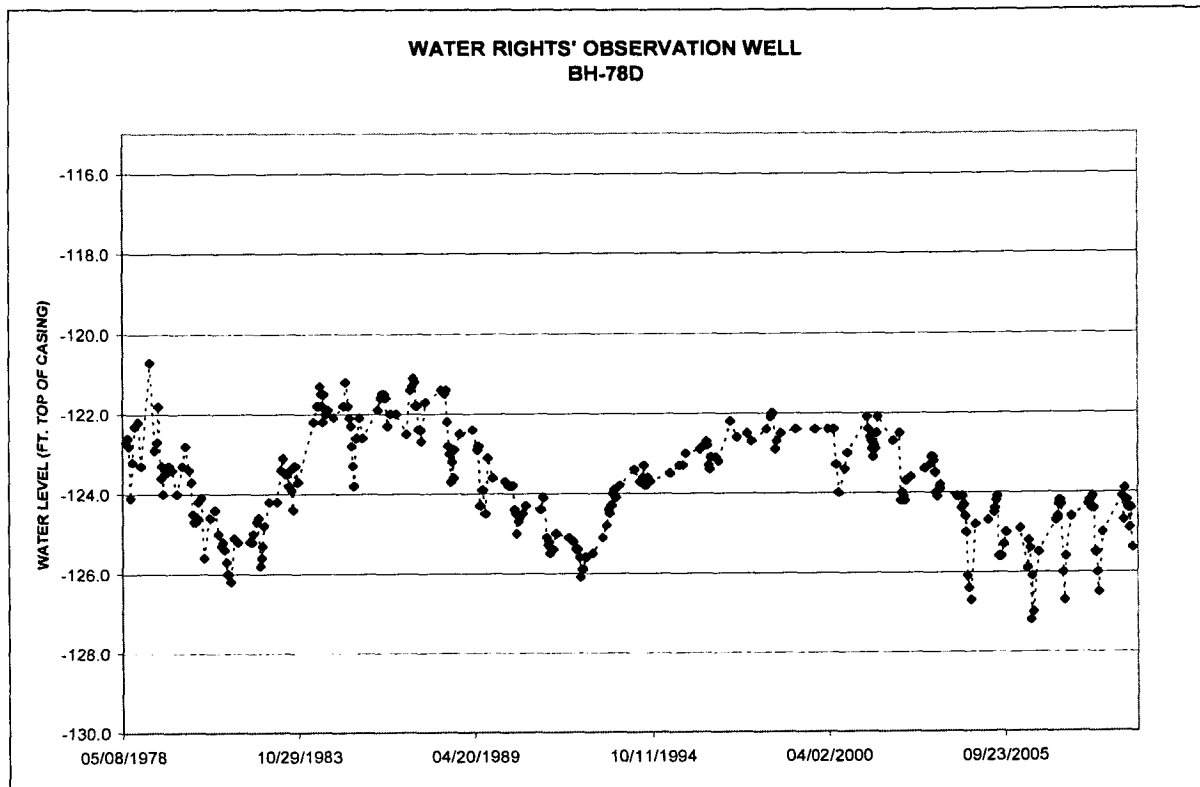


Figure 1. Hydrograph for Water Rights Observation Well BH-78D, completed into the Choteau:West Aquifer within one and a half miles of 7195-3

In general, the hydrograph shows that over the period of record, withdrawals have not exceeded recharge.

Review of Existing Water Permits/Rights/Water Use:

There are eight existing water permits within two miles of the application location. The nearest existing permit is located less than three quarters of a mile to the northwest. Interference should not be a problem.

In 2008, there were 57 permits to withdraw water from the Choteau aquifer. The amount appropriated was 26,912 acre-feet and the reported water use was 5,300 acre-feet.

Conclusions:

1. Water is available from Choteau:West aquifer.
2. The aquifer appears to be under confined conditions at this location. Wells completed into the Choteau:West in this area behave as if they are under water table conditions.
3. If the well covered by this permit depletes the domestic supplies or interferes with prior water rights, restrictions or other arrangements may be required to protect these water supplies.

4. This well must be constructed in accordance with SD Well Construction Standards.



Hayes Haas
Natural Resources Engineer

Bibliography:

Christensen, C.M., 1974, Geology and Water Resources of Bon Homme County, South Dakota, Part I Geology, Bulletin 21, SD DENR, SDGS, Vermillion, SD 57069.

Jorgensen, D.J., 1971, Geology and Water Resources of Bon Homme County, South Dakota, Part II Water Resources, Bulletin 21, SD DENR, SDGS, Vermillion, SD 57069.

Water Rights, 2010, Unpublished Observation Well Data for the Choteau West Aquifer, SD DENR, DES, Water Rights Program, Pierre, SD, 57501

Affidavit of Publication

State of South Dakota }
County of Bon Homme } SS

Rebecca Tyocz.....Being first duly sworn says that the **Tyndall Tribune & Register** is a legal weekly newspaper for publication of legal and other official notices as required by Chapter 298 of the Session Laws of South Dakota, 1939; that it has bona fide paid circulation of more than two hundred copies weekly; that it is published in English language in the City of Tyndall, Bon Homme County, South Dakota, and has been admitted to the United States mail under second class mailing privilege for more than one year prior to the first publication of the notice herein mentioned, and that it is printed in an office maintained at the place of publication at Tyndall, South Dakota, and that deponent is the publisher in charge of the advertising department of said newspaper; that the advertisement headed

Notice of Application No. 7195-3
65-37.2+807-X1

a printed copy of which is hereto attached, was printed and published in said newspaper for *two*...successive weeks, upon the following dates:

May 12.....20*10*.....20.....
May 19.....20*10*.....20.....
.....20.....20.....
.....20.....20.....

That the full amount of the fee charged for the publication of said notice, *\$43.52*....., inures to the benefit of the publisher of said newspaper, that no agreement or understanding for the division thereof has been made with any other person, and that no part has been agreed to be paid to any person whomsoever.

Rebecca Tyocz
Subscribed and sworn to before me this

19th day of *May* 20*10*..

Peggy Scholsh
Notary Public, South Dakota

My commission expires: *Oct 24, 2015*

NOTICE OF APPLICATION

NO. 7195-3 to Appropriate Water

Notice is given that Craig Vanderlei, 40908 312th Street, Springfield, SD 57062 has filed an application for a water permit to appropriate 2.0 cubic feet of water per second from one well to be completed into the Choteau: West Aquifer (approximately 240 feet deep) located in the center of the NE1/4 Section 11 to irrigate 245 acres located in the NE1/4 Section 11 and N1/2SW1/4, SE1/4SW1/4 Section 12; all in R93N-R61W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7195-3 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-2, the Chief Engineer will act on this 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 this 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 June 1, 2010.

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 Grönlund 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

Published two times at an approximate cost of \$43.52

(May 12 & 19)

RECEIVED

MAY 21 2010

WATER RIGHTS
PROGRAM



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

May 3, 2010

Tyndall Tribune & Register
PO Box 520
Tyndall SD 57066

ATTENTION: Legal Public Notice

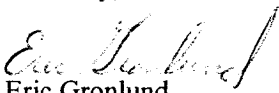
Enclosed is a Notice on Application No. 7195-3 to Appropriate Water to be published twice. Please publish the first notice on May 12, 2010 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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 Craig Vanderlei, 40908 312th St., Springfield SD 57062 (Ph # 605-369-2609).

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. 7195-3

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

Date _____

We are in receipt of your letter of May 3, 2010 enclosing Notice to Appropriate Water by Application No. 7195-3 which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name _____

Newspaper _____



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

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

May 3, 2010

Craig Vanderlei
40908 312th St
Springfield SD 57062

Dear Mr. Vanderlei:

Water Permit Application No. 7195-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Tyndall Tribune & Register printed at Tyndall SD (Ph # 605-589-3242). 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 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 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. 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
eric.gronlund@state.sd.us

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.

Instruction to Newspaper - Publish first Notice on May 12, 2010 with the second publication 7 days later. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 7195-3 to Appropriate Water

Notice is given that Craig Vanderlei, 40908 312th St, Springfield SD 57062 has filed an application for a water permit to appropriate 2.0 cubic feet of water per second from one well to be completed into the Choteau:West Aquifer (approximately 240 feet deep) located in the center of the NE ¼ Section 11 to irrigate 245 acres located in the NE ¼ Section 11 and N ½ SW ¼, SE ¼ SW ¼ Section 12; all in T93N-R61W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7195-3 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 this 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 this 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 June 1, 2010.

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.

Published twice at the total approximate cost of_____.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

JUL 14 2010

Craig Vanderlei
40908 312th St
Springfield SD 57062

Dear Mr. Vanderlei:

Enclosed is Water Permit No. 7195-3 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

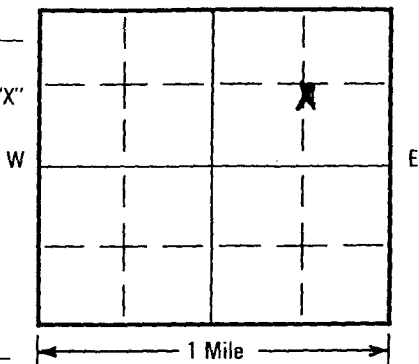
SOUTH DAKOTA WATER WELL COMPLETION REPORT

7195-3
07-92

Location SE 1/4 NE 1/4 Sec 11 Twp 93 Rg 61W

County Don Horn

Please mark well location with an "X"



Well-Completion Date

5-20-10

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 7000 ft. from feedlot (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Reverse Rotary

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>1160</u> LB/FT	<u>16</u> IN	<u>0</u> FT	<u>195</u> FT	<u>28</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Integral</u>	<u>65</u>	_____ lb./gal	<u>20</u> ft	<u>135</u> ft
<u>Cement</u>	<u>12</u>	_____ lb./gal	<u>0</u> ft	<u>20</u> ft

Describe grouting procedure pressure grouter

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 16 IN Length 40 FEET

Material PVC

Slot Size 085 Set From 195 Feet to 135 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: chlorine

Laboratory sent to for water quality analysis _____

☐ NO, Why Not? _____

Well Owner: Craig Nanderlei

Business Name: _____

Address: 40908 312
Springfield, SD 57062

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>top of brown clay / SMALL ROCKS</u>	<u>0</u>	<u>30</u>
<u>blue clay / SMALL ROCKS</u>	<u>30</u>	<u>135</u>
<u>Sand-gravel - ROCKS</u>	<u>135</u>	<u>195</u>
<u>blue clay</u>	<u>145</u>	<u>200</u>
<u>blue clay w/ shales</u>	<u>200</u>	<u>217</u>
<u>med sand & gravel - ROCKS</u>	<u>217</u>	<u>231</u>
<u>coarse gravel - ROCKS</u>	<u>231</u>	<u>239</u>
<u>shale</u>	<u>239</u>	<u>240</u>

STATIC WATER LEVEL 133 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: turbine pump
w/ engine

☐ Bailed

☐ Other

Pumping Level Below Land Surface

179 ft. After 2 Hrs. pumped 900 GPM

165 ft. After 2 Hrs. pumped 700 GPM

If pump installed, pump rate 850 GPM

REMARKS

RECEIVED

SEP 17 2010

WATER RIGHTS PROGRAM

This well was drilled under license # 444

And this report is true and accurate

Drilling firm Christensen Well & Taps

Signature of License Representative: Cody Nelson

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

7195-3 •

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

RECEIVED

OCT 25 2013

WATER RIGHTS
PROGRAMDate Oct-23-13

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

FROM:

Craig Vanderlei

(name)

40908 312th St

(address)

Springfield SD 57062

(city, state, zip)

605-369-2609

(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. 7195-3 states that the water use system is to be constructed by

June-1-2015 , and water is to be put to beneficial use by June-1-2019 .

(date)

(date)

The water use system was completed on

April 20-2012

(date)

Applying the water to beneficial use was completed on

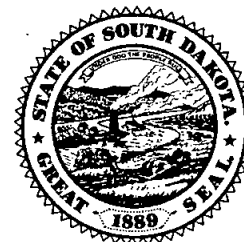
April 20-2012

(date)

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

Craig Vanderlei

(signature)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

October 31, 2013

7195-3
7402-3

Craig Vanderlei
40908 312th St
Springfield SD 57062

Dear Mr. Vanderlei:

I am writing to acknowledge receipt of the "Notice of Completion of Works" forms you sent in to let us know that you are completed with the irrigation systems authorized under Water Permit Nos. 7195-3 and 7402-3.

The systems are now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between the completion of your project and the staff inspection has no bearing on your water permit.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. If you have any questions, please contact me.

Sincerely,

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

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7195-3

I have this day, February 22, 2018, made a thorough examination of the water use system constructed by Craig Vanderlei, 40908 312 St., Springfield, SD 57062 of Permit No. 7195-3, bearing the priority of April 8, 2010 authorizing the diversion of 2.0 cu. ft. per second of the waters of ground water (Choteau: West Aquifer) for irrigation purposes, in Bon Homme County.

Inspection contact: Craig Vanderlei, Owner

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Christensen Well & Irrigation, Inc.

- 2) No. of Wells 1
- 3) Depth 235 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 16 inches
- 2) Length 195 feet
- 3) Type PVC

Screen:

- 1) Type PVC
- 2) Length 40 feet
- 3) Static water level 133 feet

Pump:

- 1) Make Goulds
- 2) Model 11CHC
- 3) Capacity 850 gpm

Motor:

- 1) Make US
- 2) Model No. VHS
- 3) Horsepower rating 100 hp

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

- 1) Type PVC
- 2) Size 8 inches
- 3) Length 3,740 feet

C. Works used to apply water to beneficial use:

Center Pivot (NE1/4 Sec 11):

- 1) Make T & L
- 2) Overall length 1294 feet
- 3) Number of towers 8
- 4) End gun Yes
- 5) Capacity 850 gpm

Center Pivot (SW1/4 Sec 12):

- 1) Make T & L
- 2) Overall length 1294 feet
- 3) Number of towers 8
- 4) End gun Yes
- 5) Capacity 850 gpm

Chemigation Equipment:

- 1) Does chemigate Y
- 2) Main line check valve Y
- 3) Inspection port/air relief Y
- 4) Low pressure drain Y
- 5) Discharge is 20' from source Y
- 6) Interlock type mechanical
- 7) Injection pump positive displacement
- 8) Injection check valve Y
- 9) Injection line check valve or positive displacement pump Y

Chemigation Equipment:

- 1) Does chemigate Y
- 2) Main line check valve Y
- 3) Inspection port/air relief Y
- 4) Low pressure drain Y
- 5) Discharge is 20' from source Y
- 6) Interlock type mechanical
- 7) Injection pump positive displacement
- 8) Injection check valve Y
- 9) Injection line check valve or positive displacement pump Y

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Yes
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Yes
- 3) Exceptions to compliance are: None

E. Condition and Location:

1. The system is in good condition with the point of diversion located as follows: Well: 1,310 feet south and 1320 feet west of the NE corner of Section 11-T93N-R61W (Latitude 42.89098, Longitude -98.01576), near the center of the NE1/4 of Sec 11.
2. The works are capable of diverting and conveying to the place of use 1.89 cu. ft. per second of water which is to be used for irrigation purposes. Water has been put to beneficial use to the maximum extent as follows:

**Center Pivot in the
NE1/4 of Sec. 11, T93N, R61W**

NE1/4 NE1/4	33 acres
NW1/4 NE1/4	33 acres
SW1/4 NE1/4	33 acres
SE1/4 NE1/4	33 acres

**Center Pivot in the
SW1/4 of Sec. 12, T93N, R61W**

NE1/4 SW1/4	33 acres
NW1/4 SW1/4	34 acres
SE1/4 SW1/4	33 acres

comprising a total of 232 acres of land and the license should be issued for 1.89 cfs.

3. All structures, wells and lands on map Yes

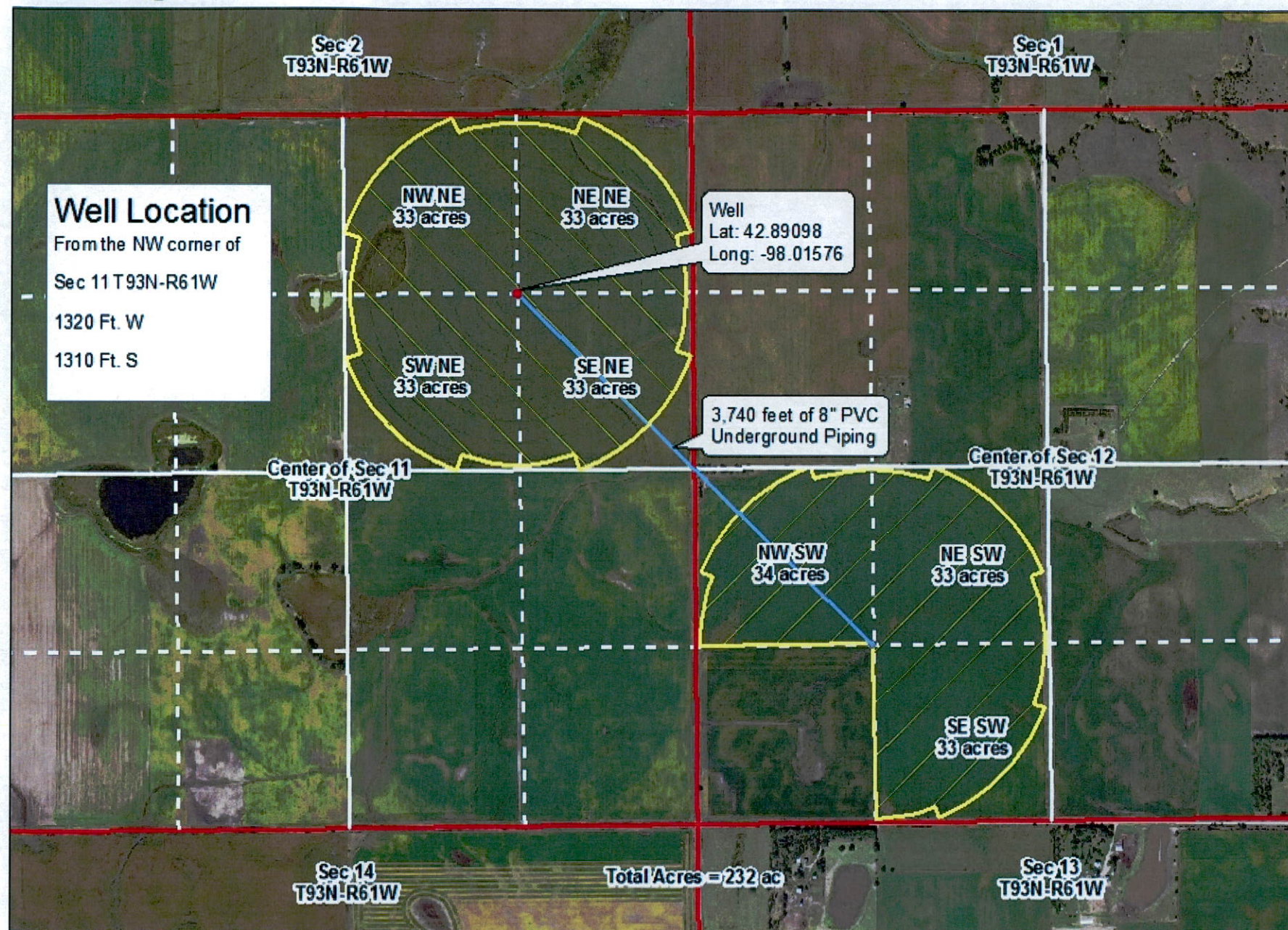
F. Comments or other permit(s) associated with the project: None

Keith DeJong

Keith DeJong
Water Rights Inspector
DENR, Water Rights Program

Date report completed: March 27, 2018

Water Right No. 7195-3



0 335 670 1,340 2,010 2,680
Feet
SCALE



Keith DeJong
Keith DeJong, PE
Staff Engineer
March 27, 2018



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

MAY 21 2018

Craig Vanderlei
40908 312th St
Springfield SD 57062

RE: Water License Nos. 7195-3, 7402-3, 7403-3, 8210-3, 8272-3

Dear Mr. Vanderlei:

Enclosed are Water License Nos. 7195-3, 7402-3, 7403-3, 8210-3, 8272-3. They are the final water right documents completing your process of obtaining Water Rights. Included with each license is a map prepared by the staff engineer who conducted the field investigations.

For your information SDCL 46-6-27 requires that if in the future, the owner of an existing well, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 7195-3

(1) Craig Vanderlei, 40908 312th St, Springfield SD 57062 made Application No. 7195-3, April 8, 2010 for a water permit to divert 2.00 cubic feet of water per second from ground water, one well (Choteau West Aquifer), Bon Homme County, South Dakota for irrigation purposes. Permit No. 7195-3, with a priority date of April 8, 2010 was approved June 1, 2010 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before June 1, 2015 and for the application to beneficial use of said water on or before June 1, 2019.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.89 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 1,310'S and 1320'W of the NE corner of Section 11, T93N, R61W (near the center of the NE ¼) (Latitude 42.89098, Longitude -98.01576)

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

Section 11, T93N, R61W			
NE ¼ NE ¼	33 acres	NE ¼ SW ¼	33 acres
NW ¼ NE ¼	33 acres	NW ¼ SW ¼	34 acres
SW ¼ NE ¼	33 acres	SE ¼ SW ¼	33 acres
SE ¼ NE ¼	33 acres		
Total 232 acres			

(4) Pursuant to South Dakota Water Law 46-5-30.1 Craig Vanderlei, 40908 312th St, Springfield SD 57062 the holder and/or owner of Water Right No. 7195-3 is issued a license to appropriate water, the right to use 1.89 cubic feet of water per second from ground water, one well (Choteau West Aquifer) with a priority date of April 8, 2010 from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 7195-3 and subject to 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. 7195-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the 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. *The well was drilled in May, 2010 by Christensen Well & Irrigation. A copy of the well completion report is on file with the Water Rights Program.*

continued

- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

Jeanne Goodman

Jeanne Goodman, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAY 21 2018

date



7195-3



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

JUN 03 2019

8394-3
7195-3

Craig Vanderlei
40908 312th St
Springfield SD 57062

Dear Mr. Vanderlei:

Enclosed is Water License No. 8394-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if in the future, the owner of an existing well, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

A handwritten signature in cursive script that reads 'Jeanne Goodman'.

Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

Note: Upon licensing, the applicable portions of Water Right No. 7195-3 were incorporated into Water License No. 8394-3.