

**WATER PERMIT NO. 7636-3**

Name of Applicant: Verlyn Jelsma

Address: 41414 309<sup>th</sup> St, Springfield SD 57062

Phone: 605 369-2664

Amount of Water Claimed: 0.58

Total Acres: 69

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation

County: Bon Homme

Type of Waste Disposal System:

Location: 8 miles west of Springfield

PRIORITY

Date Received: 1-7-13

Application/License Fee: \$ 950

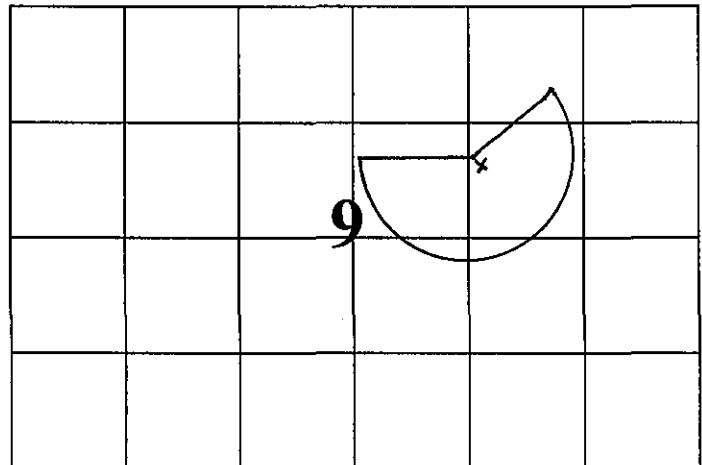
Corrected Application Received: 1-14-13

Period of Annual Use: May 1 – Sept 30

Remarks:

Diversion Point: SE 1/4 NE 1/4 Sec 9-T93N-R61W

Land to be Irrigated: E 1/2 NE 1/4, SW 1/4 NE 1/4, N 1/2 SE 1/4 Sec 9-T93N-R61W



Depth of Well: 220 feet deep

Well Driller: Christensen Well & Irrigation

Remarks:

Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 1-15-13

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

(office use only)  
No. 7636-3 Hydrologic Unit 10170101  
Basin Missouri River 605-369-2441  
Newspaper Springfield Times Box 465 57062  
605-665-7811  
Press & Dakotan 319 Walnut Yankton 57078

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JAN - 7 2013

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## 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 to Appear on Irrigation Permit Verlyn Jelsma  
(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent  
Mailing Address 41414 309 st Springfield SD 57062  
(Address) (City) (State) (Zip Code)  
Home Phone 605-369-2441 Email \_\_\_\_\_

2. Amount of water claimed 0.58 \*CFS or 260 \*\*GPM \*\*\*AF Total Acreage .69  
(\*Cubic Feet per Second) (\*\*Gallons per Minute) (\*\*\*)Acre Feet storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Injection Well

4. Location of point of diversion SE 1/4 NE 1/4 Sec 9 T-93-N R-61-W  
(example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W)

County Bon Homme

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>see sheet</u> |       |                  |       |
|                  |       |                  |       |
|                  |       |                  |       |
|                  |       |                  |       |

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

pump water out of well thru center

Verlyn Jelsma

I, Verlyn Jelsma, the applicant, certify that I have read this application, have examined the attached map, and that the matters stated are true.

**SOUTH DAKOTA**  
**WATER PERMIT NO. 7636-3**

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Date of first receipt of application January 7, 2013.

Date of return to applicant for corrections, amendments or changes January 8, 2013.

Date of receipt of corrected application January 14, 2013.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7636-3 to Verlyn Jelsma, 41414 309<sup>th</sup> 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. 7636-3 appropriates 0.58 cubic feet of water per second from one well to be completed into the Choteau:West Aquifer (220 feet deep) located in the SE 1/4 NE 1/4 Section 9 for irrigation of 69 acres located in the E 1/2 NE 1/4, SW 1/4 NE 1/4, N 1/2 SE 1/4 Section 9; 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 January 7, 2013.
4. The date of approval of Permit No. 7636-3 is April 8, 2013.
5. One-fifth of the construction is to be completed on or before October 8, 2015.
6. All construction is to be completed on or before April 8, 2018.
7. Water is to be put to beneficial use on or before April 8, 2022.
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. 7636-3 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: \_\_\_\_\_

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

**MAY 20 2013**

\_\_\_\_\_ date



## Supplemental Information

(type or print)

### 1. Well Information (check one or both as applicable) ☒ Drilling new well(s) ☐ Using existing well(s)

a) If new wells, how many one Have test holes been drilled ☒ Yes ☐ No Drilled by Christensen Well & Hydrus  
(if yes, please provide copies of logs)

b) If existing wells, how many      Provide copy of log(s), if available. Drilled by     

c) Well Depth 220 Depth to Top of Water Bearing Material 205 Depth to Water from Surface 145

d) Distance to nearest existing domestic well:

On applicant's property      On property owned by others 2600'

### 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)

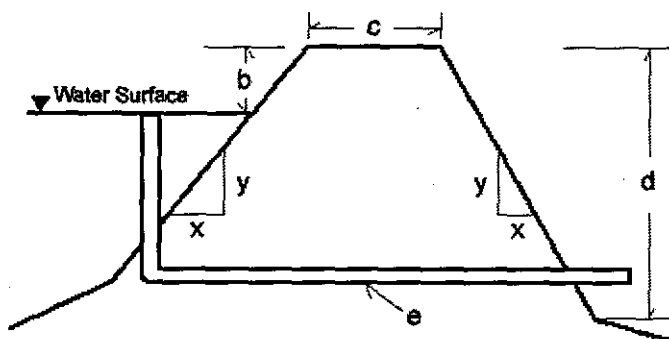
Upstream     

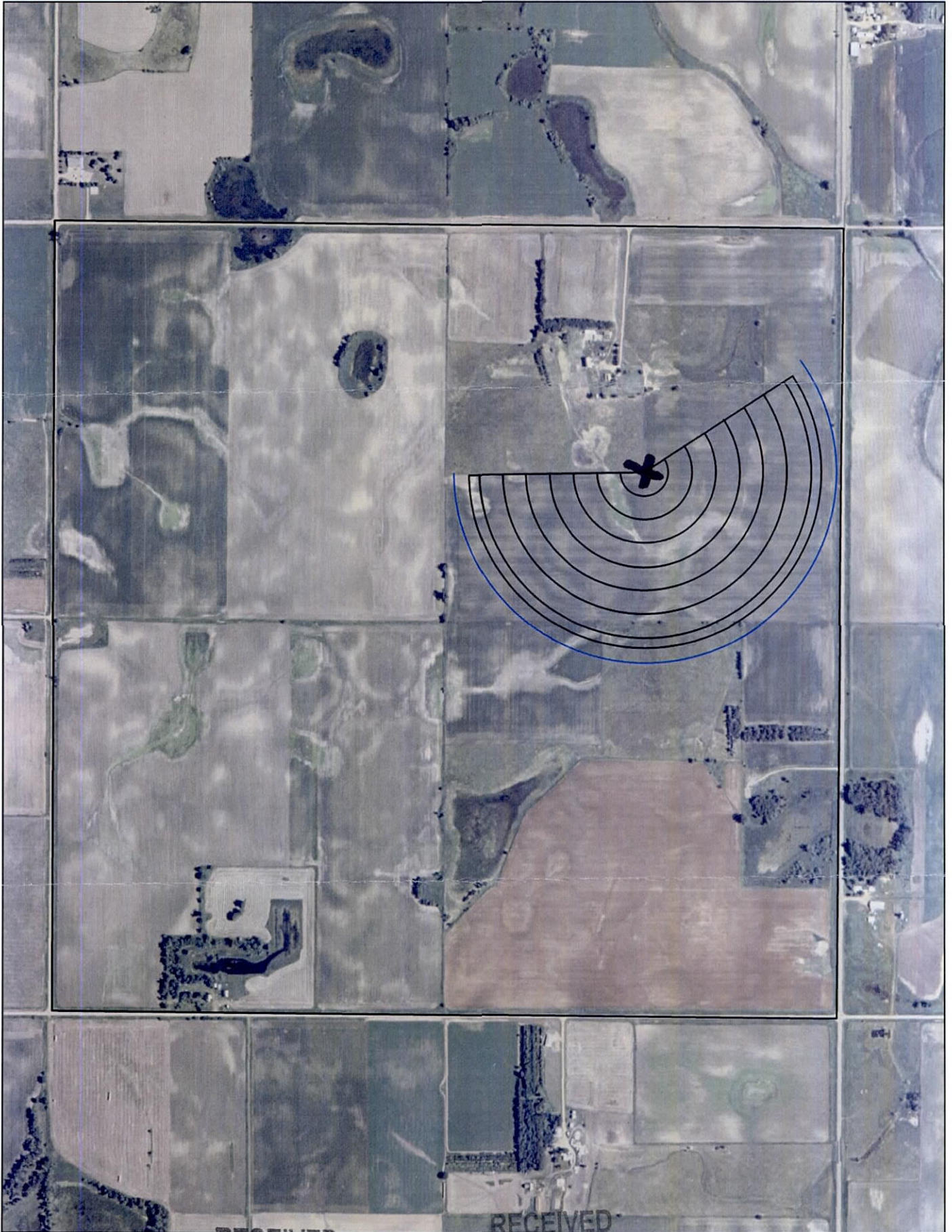
Downstream     

h) Surface Area of Impoundment     

i) Storage      Acre Feet

j) Drainage Area Above Dam      Acres





Data use subject to license.

© DeLorme. XMap® 7.

www.delorme.com

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Scale 1 : 10,400



1" = 866.7 ft

Data Zoom 14-3

9 PS

Date: \_\_\_\_\_

Customer: \_\_\_\_\_

PHONE: \_\_\_\_\_ CELL: \_\_\_\_\_

Billing Address: \_\_\_\_\_

Location of Job: \_\_\_\_\_

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JAN 7 2013

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Nerlyn Jelma

|                                   |                |           |
|-----------------------------------|----------------|-----------|
| NE $\frac{1}{4}$ NE $\frac{1}{4}$ | } sec 9 T-93-N | 3.5 acres |
| SE $\frac{1}{4}$ NE $\frac{1}{4}$ |                | 3.3       |
| SW $\frac{1}{4}$ NE $\frac{1}{4}$ |                | 25.5      |
| NW $\frac{1}{4}$ SE $\frac{1}{4}$ | R-61-W         | 3.5       |
| NE $\frac{1}{4}$ SE $\frac{1}{4}$ | Bon Homme      | 3.5       |

Ethel Cooper

41338 310 <sup>th</sup>

Springfield, S. Dakota

57062



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182

[denr.sd.gov](http://denr.sd.gov)

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**JAN 14 2013**  
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January 8, 2013

Verlyn Jelsma  
41414 309<sup>th</sup> St  
Springfield SD 57062

Dear Mr. Jelsma:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation in Bon Homme County. In order to complete the application, the following is required.

- Enclosed is the aerial photo map submitted with the application. Please mark the proposed well location with an "X". The application states the well will be located in the SE 1/4 NE 1/4 Section 9-T93N-R61W.

If you have any questions, please contact me.

Sincerely,

*Karen Schlaak*

Karen Schlaak  
Water Rights Program  
605 773-3352  
[karen.schlaak@state.sd.us](mailto:karen.schlaak@state.sd.us)

enclosures



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and NATURAL RESOURCES**

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PIERRE, SOUTH DAKOTA 57501-3182

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**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT  
APPLICATION NO. 7636-3, Verlyn Jelsma**

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. 7636-3, Verlyn Jelsma, 41414, 309<sup>th</sup> Street, Springfield SD 57062.

The Chief Engineer is recommending APPROVAL of Application No. 7636-3 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. 7636-3 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  
March 18, 2013

## **REPORT ON WATER PERMIT APPLICATION NO. 7636-3**

**Verlyn Jelsma**

**March 12, 2013**

Water Permit Application No. 7636-3 proposes to appropriate water at a maximum diversion rate of 0.58 cubic feet of water per second from one well, approximately 220 feet deep, to be completed into the Choteau: West aquifer located in the SE 1/4 NE 1/4 Section 9 for irrigation of 69 acres located in the E 1/2 NE 1/4, SW 1/4 NE 1/4, N 1/2 SE 1/4 Section 9; all in T93N-R61W. The proposed project is located in Bon Homme County approximately 8 miles west of the town of Springfield.

### **AQUIFER: West management unit of the Choteau aquifer (CH:W)**

#### **GEOLOGY AND AQUIFER CHARACTERISTICS:**

The Choteau: West is a buried outwash with western origin stream deposits consisting of sand and gravel occurring in several layers within the till. The aquifer is probably under artesian conditions at this site (Kume, 1977). The majority of the aquifer lies within Charles Mix County, and also extends north into Douglas County and east into Bon Homme County. In total, the Choteau: West aquifer is estimated to underlie 218,400 acres and contain 1,474,200 ac-ft of recoverable water in storage (Hedges and others, 1982).

The saturated thickness of the Choteau: West aquifer has an average saturated thickness of 50 feet or more. In the area of the well site, the aquifer is expected to be less than 50 feet thick (Jorgensen, 1971). In many places, the Choteau: West aquifer lies directly on bedrock. A test hole log submitted with this application documents approximately 20 feet of aquifer materials at the well site.

#### **SDCL 46-2A-9**

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is a reasonable probability that there is unappropriated water available for the applicant's proposed use, that the proposed diversion can be developed without unlawful impairment of existing rights and that the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water and existing rights from the aquifer that are pertinent to this application.

#### **WATER AVAILABILITY:**

This application proposes to appropriate water from the Choteau: West aquifer. If this application is approved, the actual water use will likely be less than 138 ac-ft/yr. The probability of unappropriated water available from an aquifer can be evaluated by considering SDCL 46-6-3.1, which requires "No application to appropriate groundwater may be approved if, according to

the best information reasonably available, it is probable the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source.”

### **Hydrologic Budget:**

#### *Recharge:*

Recharge to the Choteau: West aquifer is by subsurface inflow, direct precipitation, seepage from Choteau Creek and Dry Choteau Creek, and percolation through the till cover. (Jorgensen, 1971). Hedges and others, (1985) concluded for confined aquifers in Eastern South Dakota, that “for management and development programs the minimum recharge rate to confined aquifer is estimated to be 0.15 inches per year and the maximum rate is 0.60 inches per year.” Using the recharge rate suggested by Hedges and others, (1985), the annual recharge to the Choteau: West aquifer would be 2,730 ac-ft/yr to 10,920 ac-ft/yr.

#### *Discharge:*

Discharge from the Choteau: West aquifer occurs through seepage to springs, surrounding drift, or bedrock, and also due to well withdrawals. Currently there are 46 water rights/permits appropriating from the Choteau: West aquifer (Water Rights, 2013b). There are also three other water permit applications being processed at this time: Water Permit Application Nos. 7607-3, 7626-3 and 7628-3 if approved, are expected to use less than 934 acre-feet per year.

The amount of water that can be expected to be withdrawn by non-irrigation use water rights/permits can be estimated by assuming water rights/permits limited only by diversion rate will pump at the maximum permitted diversion rate 60 percent of the time. The City of Wagner has connected to a rural water system, and therefore, the associated water rights are no longer expected to withdraw from the aquifer (Water Rights, 2013b). Therefore, the total annual withdrawal from the Choteau: West aquifer by non-irrigation use is expected to be less than 366 ac-ft/yr (Water Rights, 2013b).

In addition, there are many well completion reports on file with the SD DENR-Water Rights Program for domestic wells that appear to be completed into the Choteau: West aquifer (Water Rights, 2013c). The annual withdrawal due to domestic use is not significant to the hydrologic budget of the aquifer.

The irrigation development of the Choteau: West aquifer over the period of record, 1979 to 2011 has remained at the same general level. The annual withdrawal from the aquifer fluctuates, as shown in Figure 1. This is probably mostly dependent on annual growing season climatic conditions. Over the period of record, the average pumpage reported equals 2,325 ac-ft/yr. The maximum and minimum pumpage reported was 4,538 and 335 ac-ft/yr, respectively (Water Rights, 1980-2012).

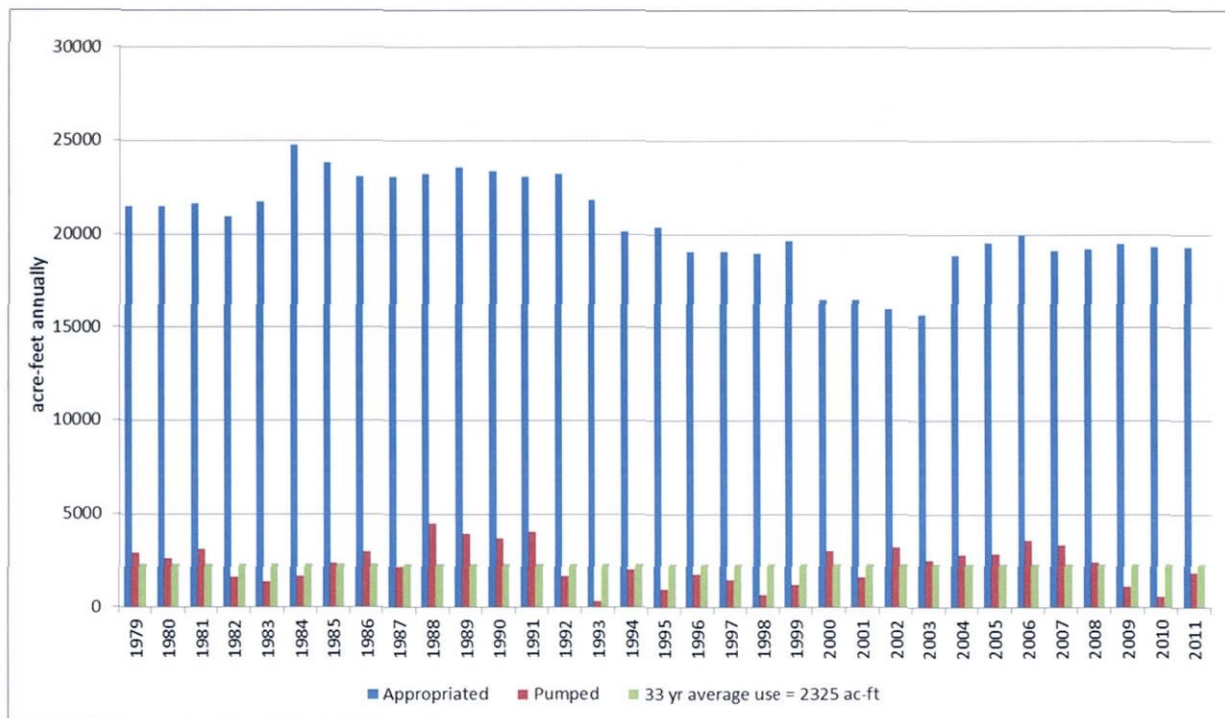


Figure 1: Historic irrigation water use from the Choteau: West aquifer (Water Rights, 1980-2012)

#### *Water Balance:*

The average annual withdrawal from the Choteau: West aquifer is estimated to be less than 2,691 ac-ft/yr. To balance the hydrologic budget, recharge must equal withdrawal. And so, assuming average annual use plus the maximum use proposed by this application, recharge to this aquifer must equal 0.16 in/yr. If the three other pending water permit applications are approved, and assuming maximum use proposed by these three applications plus average annual use, recharge to this aquifer must equal 0.20 in/yr. This required recharge rate is on the low end of the suggested recharge rate range provided by Hedges and others (1985). Therefore, there is a reasonable probability that unappropriated water is available from the Choteau: West aquifer for this proposed appropriation.

#### **Observation Well Data:**

Administrative Rule of South Dakota Section 74:02:05:07 requires that “the Water Management Board shall rely upon the record of observation well measurements to determine that the quantity of water withdrawn annually from the aquifer does not exceed the estimated average annual recharge of the aquifer.”

The SD DENR-Water Rights Program monitors 25 observation wells in the Choteau: West aquifer. The nearest observation wells, BH-82D, BH-78C and BH-78D are located approximately 0.3 miles northeast, 1.3 miles northeast and 2.5 miles east of the well site respectively. The associated hydrographs are shown in Figure 2 - 4 (Water Rights, 2013a).

The observation well data documents cyclic conditions of water levels, recharging during wet years and declining during dry years. The effects of pumping are also evident. This data documents that, at the current level of development, temporal well withdrawal is masked by climatic conditions. The recent low water levels are due to the current dry conditions. Recharge to and natural discharge from the Choteau: West aquifer exceeds pumping, indicating that unappropriated water is available from the aquifer to support this proposed appropriation.

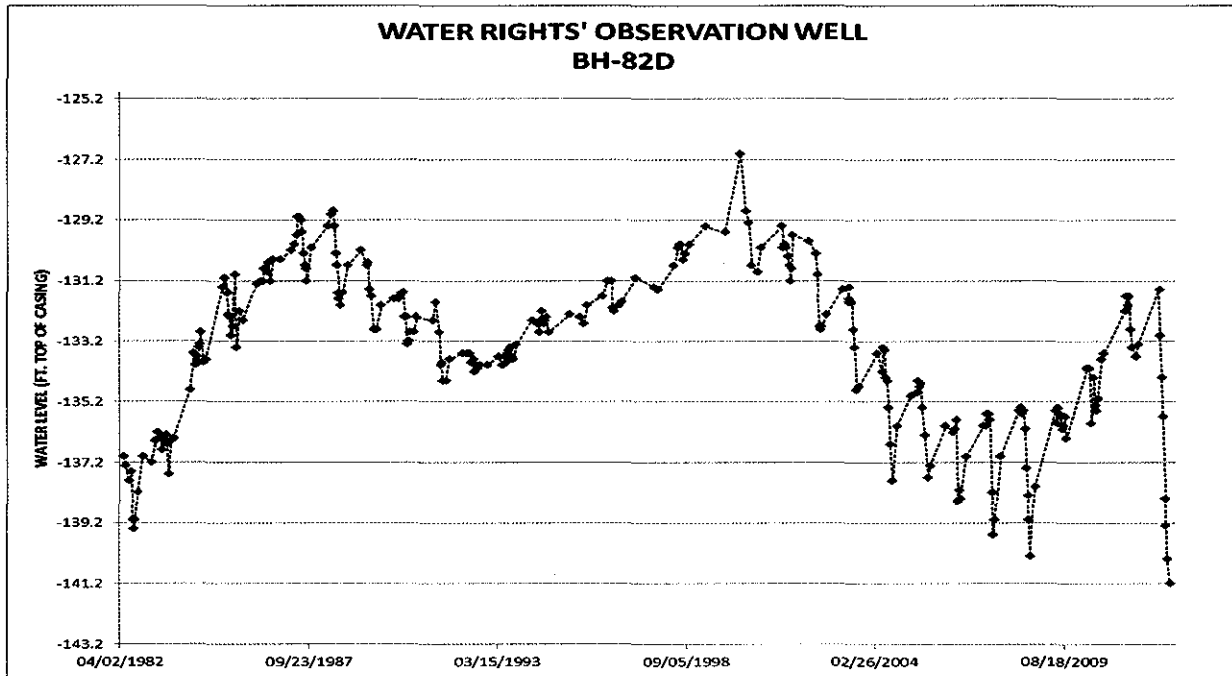


Figure 2: Hydrograph for observation well BH-82D (Water Rights, 2013a)

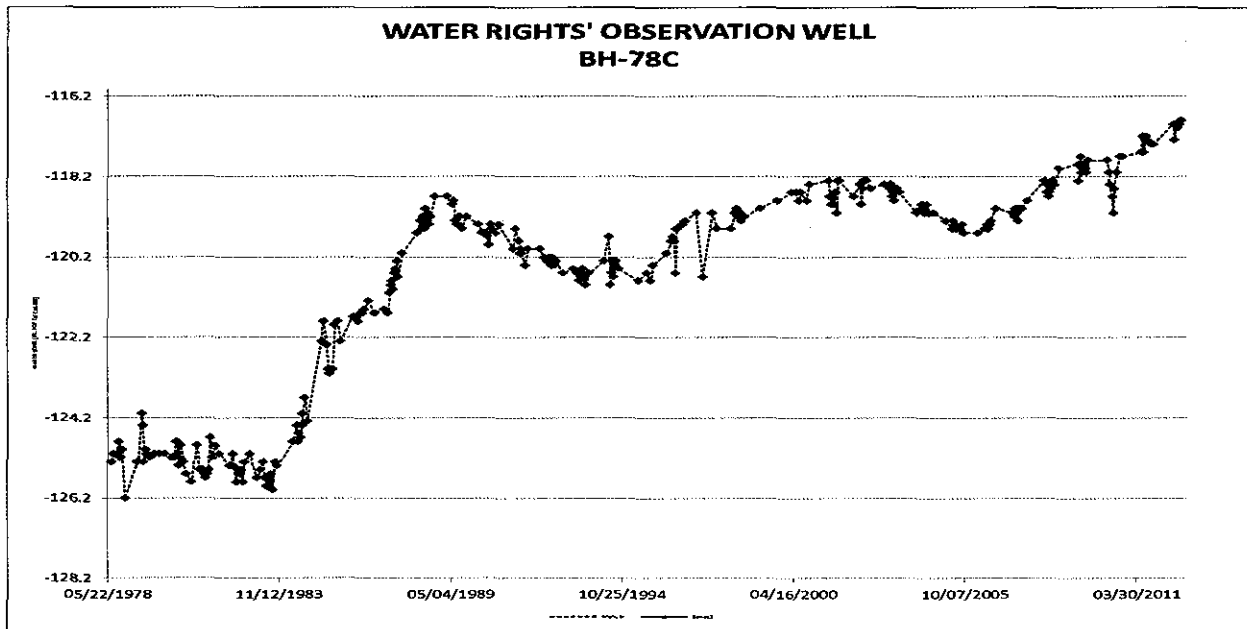


Figure 3: Hydrograph for observation well BH-78C (Water Rights, 2013a)

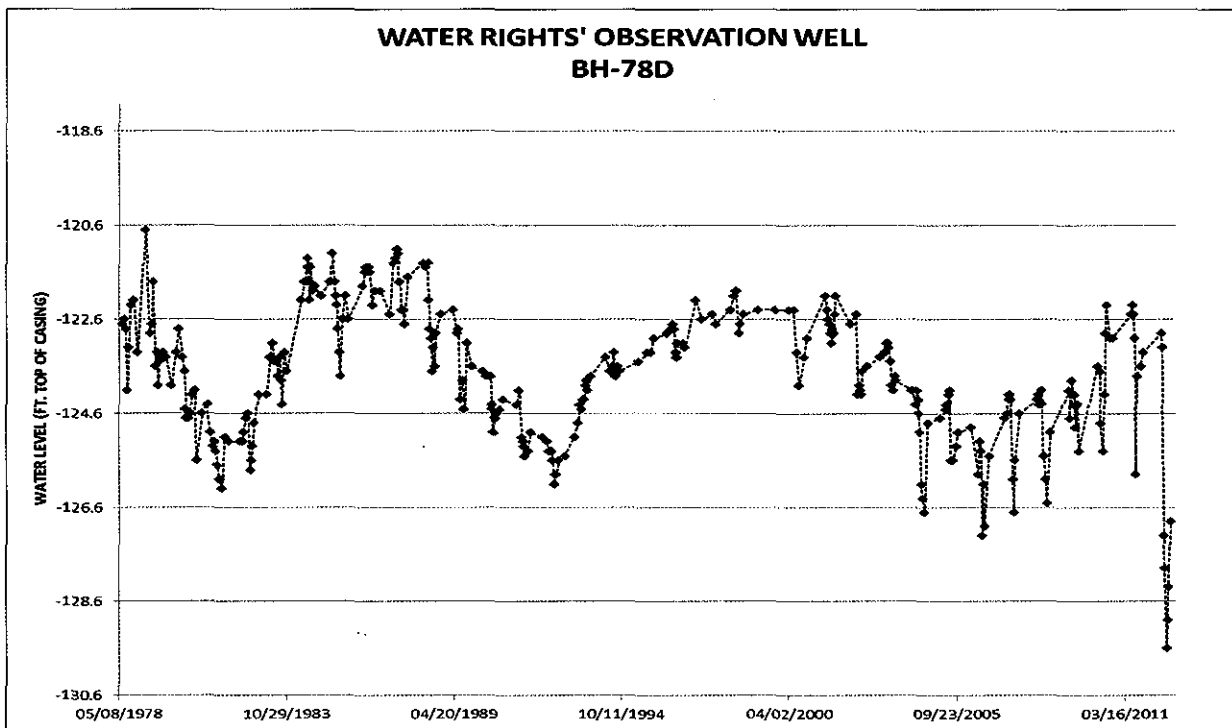


Figure 4: Hydrograph for observation well BH-78D (Water Rights, 2013a)

## EXISTING WATER RIGHTS:

Early irrigation development (i.e. 1950's) in this area was controversial. Irrigation well pumping caused water level fluctuations in domestic wells that resulted in wells no longer free flowing at the surface and caused other wells to have pumps lowered. Early controversies have been resolved and there have not been any issues in this area for a number of years. In addition, a change in SD Water Law has been made so that artesian head pressure is no longer protected as a means of delivery. The earlier controversies would have been non-issues with the change in water law.

Although the Choteau: West aquifer is under confined conditions, historically, drawdown from high capacity wells has not been significant. For example, the hydrograph for Observation Well BH-78D, Figure 4, located approximately 0.3 miles from the 900 gallon per minute (gpm) that supplies Water Permit No. 7195-3 and about 0.8 miles from the 800 gpm well that supplies Water Permit No. 6920-and shows only a few feet of drawdown from the diversions. Given the distance between the wells and the historical interference documented by the observation wells, well interference will not adversely affect existing users.

Table 1: Water rights/permits with diversion points within two miles of the well site (Water Rights, 2013b)

| PERMIT_NO | NAME      | STATUS | USE | CFS   | ACRES  |
|-----------|-----------|--------|-----|-------|--------|
| 6487-3    | VANDERLEI | LC     | IRR | 1.890 | 263.00 |
| 6920-3    | NAMMINGA  | PE     | IRR | 2.220 | 160.00 |

The Choteau: West aquifer could be under artesian conditions at the well site; therefore, some drawdown due to pumping is likely. However, precise drawdown cannot be quantified without aquifer testing. The Water Management Board has consistently recognized that to place water to maximum beneficial use a certain amount of drawdown may occur. SDCL 46-6-6.1 does not require protection of artesian head pressure as a means of groundwater delivery. However, reasonable domestic use must be assured before irrigation use is allowed. Therefore, when considering irrigation projects, the Water Management Board must give consideration to maintaining artesian head pressure as a method of delivery for domestic wells. To balance interests between irrigation use and delivery of groundwater by artesian pressure, ARSD 74:02:04:20(7) defines an adversely impacted domestic well as:

“a well in which the pump intake was set at least 20 feet below the top of the aquifer at the time of construction or, if the aquifer is less than 20 feet thick, is as near to the bottom of the aquifer as is practical and the water level of the aquifer has declined to a level that the pump will no longer deliver sufficient water for the well owner's needs”

Depending on the specific characteristics of the Choteau: West aquifer at the well site, some existing well owners may need to lower their pumps to accommodate possible reduction of head pressure.

#### **CONCLUSIONS:**

1. The application proposes to appropriate water at a maximum diversion rate of 0.58 cfs for irrigation of 69 acres.
2. There is a reasonable probability that unappropriated water is available from the Choteau: West aquifer to supply the proposed appropriation.
3. There is a reasonable probability that this well will not adversely or unlawfully impair existing nearby wells.



Mark D. Rath  
Natural Resources Engineer  
SD DENR-Water Rights Program

Approved by



Ken Buhler  
Natural Resources Engineer  
SD DENR-Water Rights Program

#### **REFERENCES:**

Hedges, L.S., S.L. Burch, D.L. Iles, R.A. Barari, and R.A. Schoon. 1982. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 1: Bedrock Topography and Distribution, Task 2: Extent of Aquifers, Task 3: Ground-Water Storage, Task 4: Computerized Data Base, Final Report. U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.

Hedges, L.S., Allen, J., and Holly, D.E. 1985. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa. Task 7: Ground Water Recharge. South Dakota DENR-Geological Survey, Vermillion, South Dakota.

- Jorgensen, D. 1971. *Geology and Water Resources of Bon Homme County, South Dakota; Part II: Water Resources*. S.D. Geological Survey Bulletin 21. SD DENR-Geological Survey, Vermillion, South Dakota.
- Kume, J. 1977. *Geology and Water Resources of Charles Mix and Douglas Counties, South Dakota; Part II: Water Resources*. S.D. Geological Survey Bulletin 22. SD DENR-Geological Survey, Vermillion, South Dakota.
- Water Rights. 1980-2012. "Annual Irrigation Summary by Aquifer": SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2013a. *Observation Well Files*, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2013b. *Water Right/Permit Files*, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2013c. *Water Well Completion Reports*, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

**Affidavit of Publication**  
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State of South Dakota }  
County of Bon Homme } SS

**APR - 1 2013**

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*Rebecca Tycz*.....Being first duly sworn  
says that the **Springfield Times** is a legal weekly news-  
paper 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 pub-  
lished in English language in the City of Springfield, 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 publi-  
cation of the notice herein mentioned, and that it is  
printed in an office maintained at the place of publica-  
tion at Springfield, South Dakota, and that deponent is  
the publisher in charge of the advertising department of  
said newspaper; that the advertisement headed

*Notice of Application*

*#7636-3*

*60 e 37.2*

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

*March 27* 20*13* .....20.....  
.....20..... .....20.....  
.....20..... .....20.....  
.....20..... .....20.....

That the full amount of the fee charged for the publica-  
tion of said notice, *\$22.32*....., 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 Tycz, publisher*  
Subscribed and sworn to before me this  
*27th* day of *March* 20*13*.  
*Peggy Schelske*  
Notary Public, South Dakota

*My commission expires OCT 24, 2015*

**NOTICE OF APPLICATION**

**NO. 7636-3 to Appropriate Water**  
Notice is given that Verlyn Jelsma, 41414 309th St, Springfield SD 57062 has filed an application for a water permit to appropriate 0.58 cubic feet of water per second from one well to be completed into the Choteau West Aquifer (220 feet deep) located in the SE 1/4 NE 1/4 Section 9 for irrigation of 69 acres located in the E 1/2 NE 1/4 SW 1/4 NE 1/4 N 1/2 SE 1/4 Section 9; all in T93N-R61W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7636-3 because 1) unap- propriated 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 recom- mended, unless a petition is filed oppos- ing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recom- mendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. No- tice of the hearing will be given to the ap- plicant and any person filing a petition. Any person interested in opposing or supporting this application or recom- mendation must file a written petition with BOTH the applicant and Chief En- gineer. The applicant must file a petition if contesting the Chief Engineer's recom- mendation. The Chief Engineer's address is "Water Rights Program, Ross Building, 523 E Capitol, Pierre SD 57501 (605 773- 3352) and the applicant's mailing ad- dress is given above. A petition filed by either an interested person or the appli- cant must be filed by April 8, 2013.

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 sup- porting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gron-lund at the above Water Rights Program address to request copies of information pertaining to this application.

Steven M. Pinner,  
Secretary  
Department of Environment and Natural Resources.  
Published once at the total approximate cost of \$22.32

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**YANKTON DAILY PRESS AND DAKOTAN**

3+27

NOTICE OF APPLICATION  
NO. 7636-3 to Appropriate Water

Notice is given that Verlyn Jelsma, 41414 309th St, Springfield SD 57062 has filed an application for a water permit to appropriate 0.58 cubic feet of water per second from one well to be completed into the Choteau West Aquifer (220 feet deep) located in the SE 1/4 NE 1/4 Section 9 for irrigation of 69 acres located in the E 1/2 NE 1/4, SW 1/4 NE 1/4, N 1/2 SE 1/4 Section 9; all in T93N-R61W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7636-3 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 April 8, 2013.

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. Pimer, Secretary, Department of Environment and Natural Resources.

Published once at the total approximate cost of \$25.82.

Department of Environment and Natural Resources  
PMB 2020  
Joe Foss Building  
523 East Capitol  
Pierre, SD 57501-3182

STATE OF SOUTH DAKOTA  
COUNTY OF YANKTON

KELLY HERTZ BEING FIRST DULY SWORN ON OATH DEPOSES AND SAYS THAT HE IS THE MANAGING EDITOR OF, YANKTON MEDIA INC, A CORPORATION, THE PRINTER AND THE PUBLISHER OF THE YANKTON DAILY PRESS AND DAKOTAN, A LEGAL DAILY NEWSPAPER PUBLISHED AND CIRCULATED IN THE CITY OF YANKTON, SAID COUNTY AND STATE, AND ONE OF THE OFFICIAL NEWSPAPERS OF THE SAID COUNTY OF FACTS STATED IN THIS AFFIDAVIT; THAT THE ANNEXED Notice of Application No. 7636-3

TAKEN FROM THE PAPER, IN WHICH IT WAS LAST PUBLISHED IN THE NEWSPAPER ON THE 27th DAY OF March 2013 THAT THE FULL AMOUNT OF THE FEE CHARGED FOR THE PUBLICATION OF SAID NOTICE TO WIT \$25.82 ENSURES TO THE BENEFITS OF THE PUBLISHER OF SAID NEWSPAPER AND THAT NO AGREEMENT AND UNDERSTANDING FOR THE DIVISION THEREOF HAS BEEN MADE WITH ANY OTHER PERSON, AND THAT NO PART THEREOF HAS BEEN AGREED TO BE PAID TO ANY PERSON WHOMSOEVER.

PUBLISHED ON: 3/27/2013

FILED ON: 3/27/2013

SUBSCRIBED AND SWORN TO BEFORE ME THIS 27th DAY OF March

2013

[Signature]  
NOTARY PUBLIC, SOUTH DAKOTA

MY COMMISSION EXPIRES

8/19/2015



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

March 19, 2013

Springfield Times  
PO Box 465  
Springfield SD 57062

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7636-3 to Appropriate Water. Please publish the notice once on March 27, 2013. 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 and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Verlyn Jelsma, 41414 309<sup>th</sup> St, Springfield SD 57062 (Ph # 605-369-2664).

**Please send the Water Rights Program an affidavit or the enclosed Proof of Publication form immediately.**

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



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

March 19, 2013

Press & Dakotan  
319 Walnut  
Yankton SD 57078

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Eric Gronlund  
Natural Resources Engineer  
605 773-3352

enclosures



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

PMB 2020  
JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182

[denr.sd.gov](http://denr.sd.gov)

NOTE: TO BE SURE OF PUBLICATION ON  
THE CORRECT DATE, CONTACT  
THE NEWSPAPER(S) RIGHT AWAY.

March 19, 2013

Verlyn Jelsma  
41414 309<sup>th</sup> St  
Springfield SD 57062

Dear Mr. Jelsma:

Water Permit Application No. 7636-3 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 Springfield Times printed at Springfield SD (Ph # 605-369-2441) and the Press & Dakotan printed at Yankton SD (Ph # 605-665-7811). You will need to contact the newspaper(s) 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(s) to authorize publication of your Notice and to arrange for payment. Early contact with the paper(s) can eliminate delays. Upon receiving authorization from you, the publisher has been instructed to publish your notice. 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

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 the Notice on March 27, 2013. 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.

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#### NOTICE OF APPLICATION NO. 7636-3 to Appropriate Water

Notice is given that Verlyn Jelsma, 41414 309<sup>th</sup> St, Springfield SD 57062 has filed an application for a water permit to appropriate 0.58 cubic feet of water per second from one well to be completed into the Choteau:West Aquifer (220 feet deep) located in the SE 1/4 NE 1/4 Section 9 for irrigation of 69 acres located in the E 1/2 NE 1/4, SW 1/4 NE 1/4, N 1/2 SE 1/4 Section 9; all in T93N-R61W.

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Published once 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

MAY 20 2013

Verlyn Jelsma  
41414 309<sup>th</sup> St  
Springfield SD 57062

Dear Mr. Jelsma:

Enclosed is Water Permit No. 7636-3 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,

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

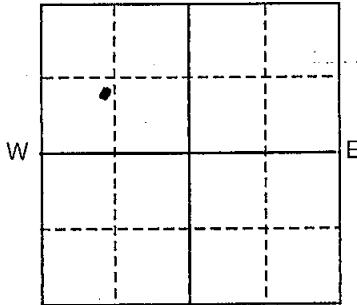
enclosures

7636-3

SD EForm - 1621LD V1

68624  
11-02

## SOUTH DAKOTA WATER WELL COMPLETION REPORT

Location SW 1/4 NE 1/4 Sec 9 Twp 93N Rg 64WCounty Don HommePlease mark well  
location with an "X"

Well Completion Date

11-14-12

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?  
1000 ft. from septic tank (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>160</u> LB/FT | <u>0.6</u> IN | <u>0</u> FT | <u>200</u> FT | <u>26</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>Cement</u> | _____        | Lb/gal       | <u>0</u> Ft | <u>200</u> Ft |
| _____         | _____        | Lb/gal       | _____ Ft    | _____ Ft      |

Describe grouting procedure

pumped down w/ grout

## SCREEN:

☐ Perforated pipe ☒ Manufactured  
 Diameter 16 Inches Length 20 Feet  
 Material POC  
 Slot Size .085 Set From 200 Feet to 220 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☐ No, Why Not?Lab to which water  
quality sample sent for analysis

RECEIVED

MAR 11 2013

WATER RIGHTS  
PROGRAMWell Owner: Verlyn Jelsma

Business Name: \_\_\_\_\_

Address: 41414 309 StCity, State, Zip: Springfield South Dakota 57062

## WELL LOG:

| FORMATION                | DEPTH      |            |
|--------------------------|------------|------------|
|                          | FROM       | TO         |
| <u>Top + brown clay</u>  | <u>0</u>   | <u>35</u>  |
| <u>clay + ROCKS</u>      | <u>35</u>  | <u>36</u>  |
| <u>blue clay</u>         | <u>36</u>  | <u>56</u>  |
| <u>blue clay + ROCKS</u> | <u>56</u>  | <u>57</u>  |
| <u>blue clay</u>         | <u>57</u>  | <u>130</u> |
| <u>blue clay + ROCKS</u> | <u>130</u> | <u>131</u> |
| <u>blue clay</u>         | <u>131</u> | <u>205</u> |
| <u>gravel + ROCKS</u>    | <u>205</u> | <u>219</u> |
| <u>grey shale</u>        | <u>219</u> | <u>223</u> |

STATIC WATER LEVEL 145 FEET

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

GPM flow \_\_\_\_\_ through \_\_\_\_\_ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other \_\_\_\_\_

Reduced flow rate \_\_\_\_\_ GPM

Can well be completely shut in?

## WELL TEST DATA:

☒ Pumped Describe: pumped w/ turbine☐ Bailed☐ Other

Pumping Level Below Land Surface

212 Ft. After 2 Hrs. pumped 260 GPM

\_\_\_\_\_ Ft. After \_\_\_\_\_ Hrs. pumped \_\_\_\_\_ GPM

If pump installed, pump rate: 200 GPM

## REMARKS

Revised 3-5-2013Cody W. ChaslerThis well was drilled under license # 444 and this  
report is true and accurate.Drilling firm: Christensen Well & Supply

Signature of License Representative:

Cody W. Chasler

Signature of Well Owner or Equitable Property Holder:

CodyDate: 12-31-12Mailed to  
State  
1-3-13

## **Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7636-3**

I have this day, May 2, 2018, made a thorough examination of the water use system constructed by Verlyn Jelsma, 41414 309<sup>th</sup> St., Springfield, SD 57062, holder of Permit No. 7636-3, bearing the priority of January 7, 2013 authorizing the diversion of 0.58 cu. ft. per second of the waters of groundwater (Choteau: West) for irrigation purposes, in Bon Homme County.

Inspection contact: Verlyn Jelsma, Owner

### **A. Works used to divert the water:**

#### **Well Information:**

1) Well Drilling Firm: Christensen Well &

#### **Irrigation**

2) No. of Wells 1

3) Depth(s) 223 feet

4) Well log is available Yes

#### **Casing:**

1) Diameter 16 inches

2) Length 200 feet

3) Type Plastic

#### **Screen:**

1) Type PVC

2) Length 20 feet

3) Static water level 145 feet

#### **Pump:**

1) Make Goulds

2) Model unknown

3) Capacity 260 GPM

#### **Motor:**

1) Make Unknown

2) Model No. Unknown

3) Horsepower rating 25 hp

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

1) Type Galvanized      2) Size 8 inches      3) Length 8 feet

### **C. Works used to apply water to beneficial use:**

#### **Center pivot:**

1) Make T&L

2) Overall length 1,168 feet

3) Number of towers 7

4) End gun Yes

5) Capacity 260 GPM

**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(s) of diversion located as follows: Well: 1,650 feet south and 1,320 feet west from the northeast corner of Section 9-T93N-R61W (Latitude 42.89009, Longitude -98.005494).
2. The works are capable of diverting and conveying to the place of use 0.58 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: all in Section 9-T93N-R61W

|                   |                 |
|-------------------|-----------------|
| <u>NE1/4NE1/4</u> | <u>3 acres</u>  |
| <u>SE1/4NE1/4</u> | <u>34 acres</u> |
| <u>NE1/4SE1/4</u> | <u>3 acres</u>  |

|                   |                 |
|-------------------|-----------------|
| <u>SW1/4NE1/4</u> | <u>26 acres</u> |
| <u>NW1/4SE1/4</u> | <u>3 acres</u>  |

comprising a total of 69 acres of land and the license should be issued for 0.58 cfs.

3. All structures, wells and lands on map Yes

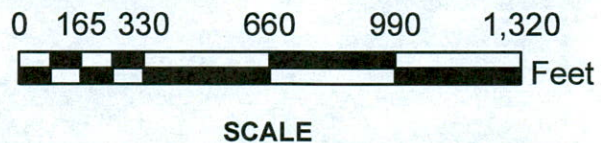
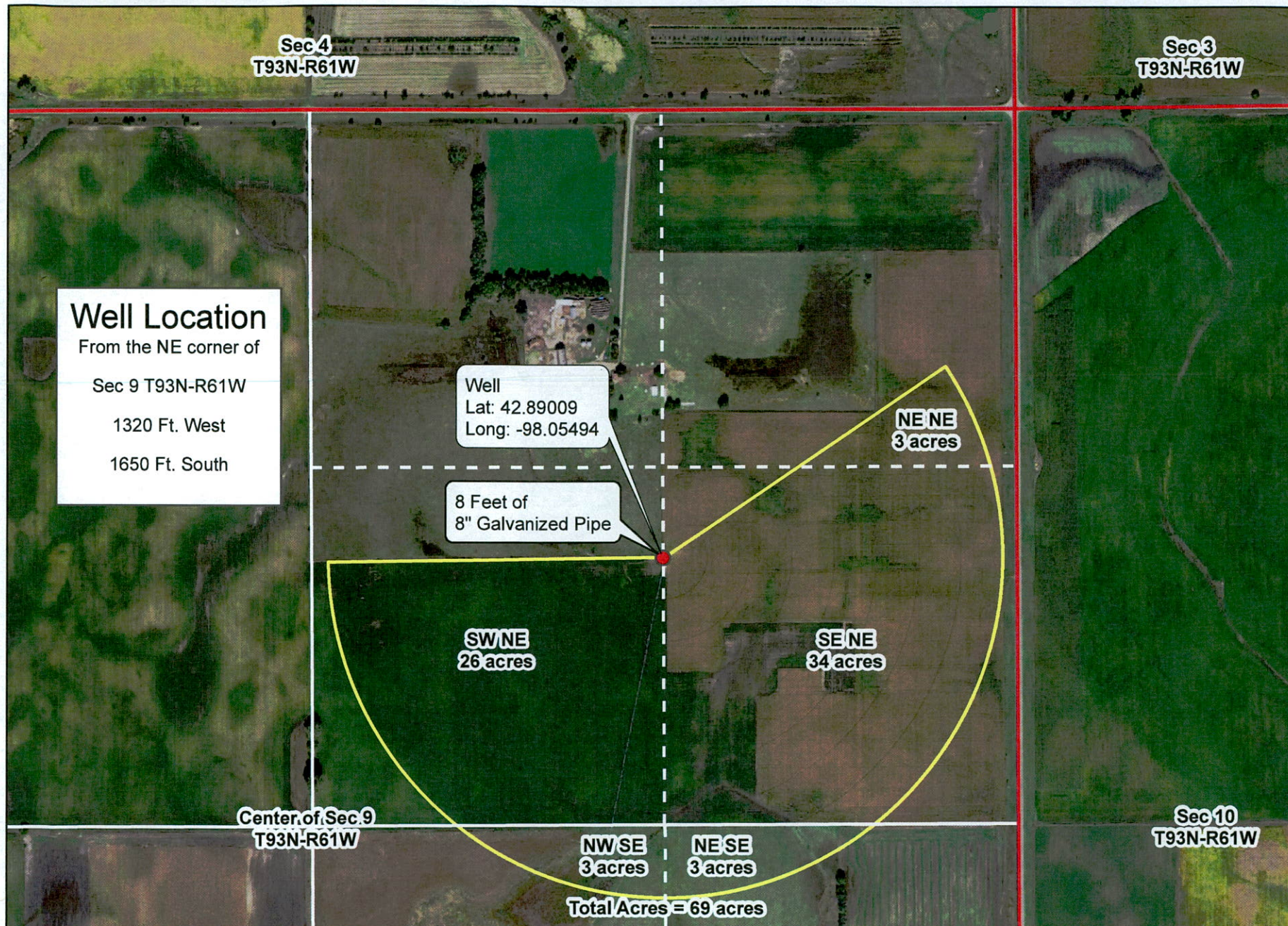
**F. Comments or other permit(s) associated with the project: None**

---

Keith DeJong  
Water Rights Inspector  
DENR, Water Rights Program

Date report completed: May 14, 2018

# Water Right No. 7636-3



*Keith DeJong*  
Keith DeJong, PE  
Staff Engineer  
May 14, 2018



DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

**JUN 20 2018**

7636-3

Verlyn Jelsma  
41414 309<sup>th</sup> St  
Springfield SD 57062

Dear Mr. Jelsma:

Enclosed is Water License No. 7636-3. 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 black ink that reads "Jeanne Goodman". The signature is fluid and cursive, with the first name "Jeanne" being more prominent than the last name "Goodman".

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

enclosures

**STATE OF SOUTH DAKOTA  
WATER LICENSE NO. 7636-3**

(1) Verlyn Jelsma, 41414 309<sup>th</sup> St, Springfield SD 57062 made Application No. 7636-3, January 7, 2013 for a water permit to divert 0.58 cubic feet of water per second from ground water, one well (Choteau West Aquifer), Bon Homme County, South Dakota for irrigation purposes. Permit No. 7636-3, with a priority date of January 7, 2013 was approved April 8, 2013 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before April 8, 2018 and for the application to beneficial use of said water on or before April 8, 2022.

(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 0.58 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 1,650'S and 1,320'W of the NE corner of Section 9, T93N, R61W (S ½ NE ¼ Section 9)  
Latitude 42.89009, Longitude -98.005494

(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:

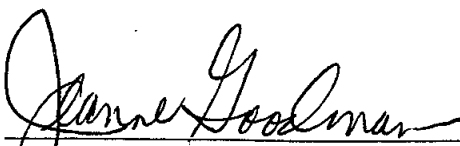
|                       |           |          |           |         |
|-----------------------|-----------|----------|-----------|---------|
| Section 9, T93N, R61W | NE ¼ NE ¼ | 3 acres  | NE ¼ SE ¼ | 3 acres |
|                       | SE ¼ NE ¼ | 34 acres | NW ¼ SE ¼ | 3 acres |
|                       | SW ¼ NE ¼ | 26 acres |           |         |

Total 69 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Verlyn Jelsma, 41414 309<sup>th</sup> St, Springfield SD 57062 the holder and/or owner of Water Right No. 7636-3 is issued a license to appropriate water, the right to use 0.58 cubic feet of water per second from ground water, one well (Choteau West Aquifer) with a priority date of January 7, 2013 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. 7636-3 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. 7636-3 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 by Christensen Well & Irrigation in November, 2012. A copy of the well completion report is on file with the Water Rights Program.*
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

  
Jeanne Goodman, Chief Engineer  
Water Rights Program

Department of Environment and Natural Resources

**JUN 20 2018**  
date

