

WATER PERMIT NO. 7269-3

Name of Applicant: Verlyn Jelsma

Address: 41414 309th St, Springfield SD 57062

Phone: 605 369-2664

Amount of Water Claimed: 1.67 cfs

Total Acres: 162

Source of Water Supply: groundwater (two wells)

Water to be used for: irrigation

County: BH

Type of Waste Disposal System:

Location: 1 miles northwest of Springfield

PRIORITY

Date Received: 9-6-11

Application/License Fee: \$1050

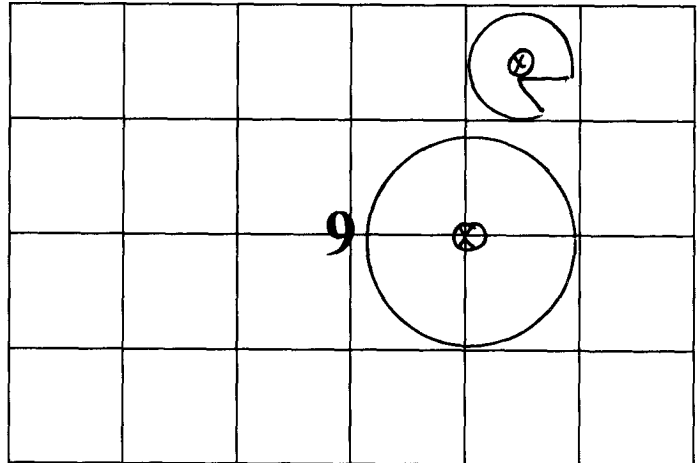
Corrected Application Received: 9-15-11

Period of Annual Use: May 1 – Sept 30

Remarks:

Diversion Point: NE ¼ NE ¼ Sec 9-T93N-R60W

Land to be Irrigated: N ½ SE ¼, NE ¼ NE ¼, SE ¼ NE ¼ Sec 9-T93N-R60W



Depth of Well: 180 feet

Well Driller: Christensen Well & Irrigation

Remarks:

Type of Map: aerial

Prepared by: Ernie? Bon Homme Co FSA

Reviewed and the Number Assigned on: 9-15-11

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

Jeremie Alace

Mail to:
PMB 2020
DENR - Water Rights
523 E Capitol Ave
Pierre, SD 57501-3182
ph. (605) 773-3352

No. 7269-3 (office use only)
Hydrologic Unit 10170101
Basin Missouri River
Newspaper Lyndall Tribune & Register

RECEIVED
SEP - 6 2011
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 Verlyn Jelsma Phone 369-2664
(check one) Owner ☐ Tenant/lessee
Mailing Address 41414 309th St. Springfield SD 57062
(Address) (City) (State) (Zip Code)
2. Amount of water claimed 1.67*CFS or 750**GPM ***AF Total Acreage 162
(*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 Ben Hur
NE 1/4 NE 1/4 sec 9 T-93-N R-60-W
and approximate centerline between the S 1/2 NE 1/4 & N 1/2 SE 1/4
5. County or counties where water will be used Ben Hur
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 ariel photo</u>			

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

see ariel photo

STATE OF SOUTH DAKOTA)
County of BH) 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, Verlyn Jelsma, 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 Verlyn Jelsma

Subscribed and sworn to before me this 1 day of Sept 20 11

Nancy L Mesman
Notary Public signature

Commission Exp: 09-25-2012

SOUTH DAKOTA
WATER PERMIT NO. 7269-3

Date of first receipt of application September 6, 2011.

Date of return to applicant for corrections, amendments or changes September 6, 2011.

Date of receipt of corrected application September 15, 2011.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7269-3 to Verlyn Jelsma, 41414 309th 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. 7269-3 appropriates 1.67 cubic feet of water per second from two wells completed into the Niobrara Aquifer located in the NE ¼ NE ¼ and the center between the S ½ NE ¼ and the N ½ SE ¼ Section 9 to irrigate 162 acres located in the N ½ SE ¼, NE ¼ NE ¼, S ½ NE ¼ Section 9; all in T93N-R60W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 – September 30.
3. The date from which applicant may claim right is September 6, 2011.
4. The date of approval of Permit No. 7269-3 is December 12, 2011.
5. One-fifth of the construction is to be completed on or before June 12, 2014.
6. All construction is to be completed on or before December 12, 2016.
7. Water is to be put to beneficial use on or before December 12, 2020.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

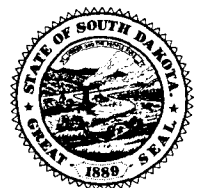
1. The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 7269-3 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

JAN 10 2012
date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- then 13" open hole to 180'*
a) Drill Hole Diameter 26" down to 60' Depth 180'
b) Casing Type PVC Diameter 16" Thickness .616
c) Screen Type — Diameter — Thickness —
d) Gravel Pack — Length of Gravel Pack —
e) Depth to Top of Water Bearing Material 96'
f) Depth to Water (ground surface to water level) 96'
g) Distance to nearest existing domestic well:
On applicant's property 600' On property owned by others —

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 —

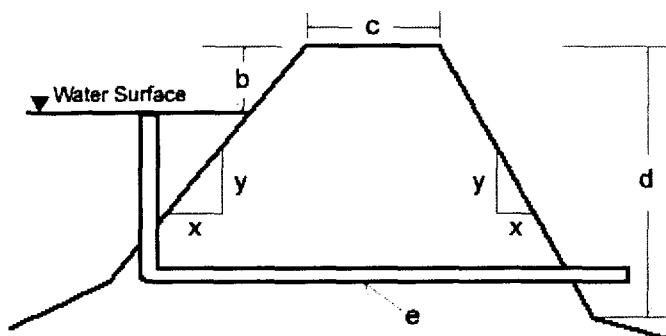
3. Dugout Information

- 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

Jeremi's Place

⑦ 40 acre breakdown

NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec 9
SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec 9
SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec 9
NW $\frac{1}{4}$ SE $\frac{1}{4}$ sec 9
NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec 9

T- 93-N
R- 60-W
BON HOMME

29 acres

33.25 acres

33.25 acres

33.25 acres

33.25 acres

162 acres
total

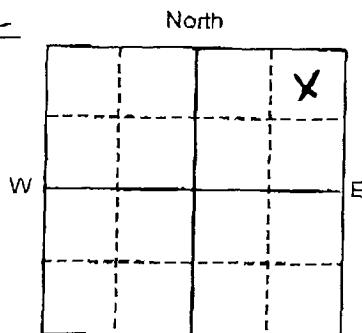
SD EForm - 1621LD V1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 NE 1/4 Sec 9 Twp 93-N Rg 60WCounty Don Homme

Please mark well location with an "X"



Well Completion Date

8-10-11

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.):
600 ft. from septic tank (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Reverse rotary to 60' then
straight rotary to 180'

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>160</u> LB/FT	<u>16</u> IN	<u>0</u> FT	<u>60</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>Cement</u>	<u>36</u>	<u>Lb/gal</u>	<u>0</u> Ft	<u>60</u> Ft
		<u>Lb/gal</u>	Ft	Ft

Describe grouting procedure

Pumped down w/ pressure grouter

SCREEN:

☐ Perforated pipe ☐ Manufactured

Diameter _____ Inches Length _____ Feet

Material _____

Slot Size _____ Set From _____ Feet to _____ Feet

Other information

13" open hole from 60' to 180'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

Well Owner: Verlyn Jelsma

Business Name:

Address: 41414 309th St.City, State, Zip: Springfield SD 57062

WELL LOG:

DEPTH

FORMATION	FROM	TO
<u>top + silty brown ch</u>	<u>0</u>	<u>48</u>
<u>med sand w/ pebbles</u>	<u>48</u>	<u>54</u>
<u>fine clay</u>	<u>54</u>	<u>56</u>
<u>grey chalk</u>	<u>56</u>	<u>180</u>
<u>LOST WATER @</u>		
<u>90'</u>		

STATIC WATER LEVEL

96'

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: turbine pump☐ Bailed☐ Other

Pumping Level Below Land Surface

125 Ft. After 2 Hrs. pumped 175 GPM145 Ft. After 4 Hrs. pumped 225 GPMIf pump installed, pump rate: 150 GPM

REMARKS

This well was drilled under license # 444 and this report is true and accurate.

Drilling firm:

Christensen Well + Irrigation

Signature of License Representative

Cody W Christensen

Signature of Well Owner or Equitable Property Holder:

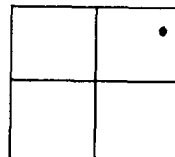
Date:

10-26-11

Jeremie Place N42° 53.542
W97° 56.024

Christensen Well & Irrigation, Inc.

88005 Hwy. 57
Hartington, NE 68739
Office 402-254-6809



OWNER Verlyn Jelma
ADDRESS Springfield SD
STATE SD DATE 8/10 20 11

Quarter NE
Section 9
Township 93N
Range 60W
County Butte

TEST HOLE ☐ FARM WELL ☐ IRRIGATION ☒

FT	FT	
0	50	Silty Brown clay w/rocks
50	55	Blue clay w/rocks
55	60	Hard gray shale
60	180	Shale
		lost water @ 95'
		60' 16" pvc SDR 26
		12" open hole to 180
		60'
		Call to Christensen
		Line # 444

STATIC WATER LEVEL	96'
PUMPING WATER LEVEL 175 GPM @	126'
SCREEN LENGTH	
SLOT SIZE	
TOTAL DEPTH	180'

GPS:



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Scale 1 : 9,600



Data Zoom 14-4

Em R Brown C.E.D. Bon Homme County FSA
8-31-2011

DeLORME

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Scale 1 : 2,400



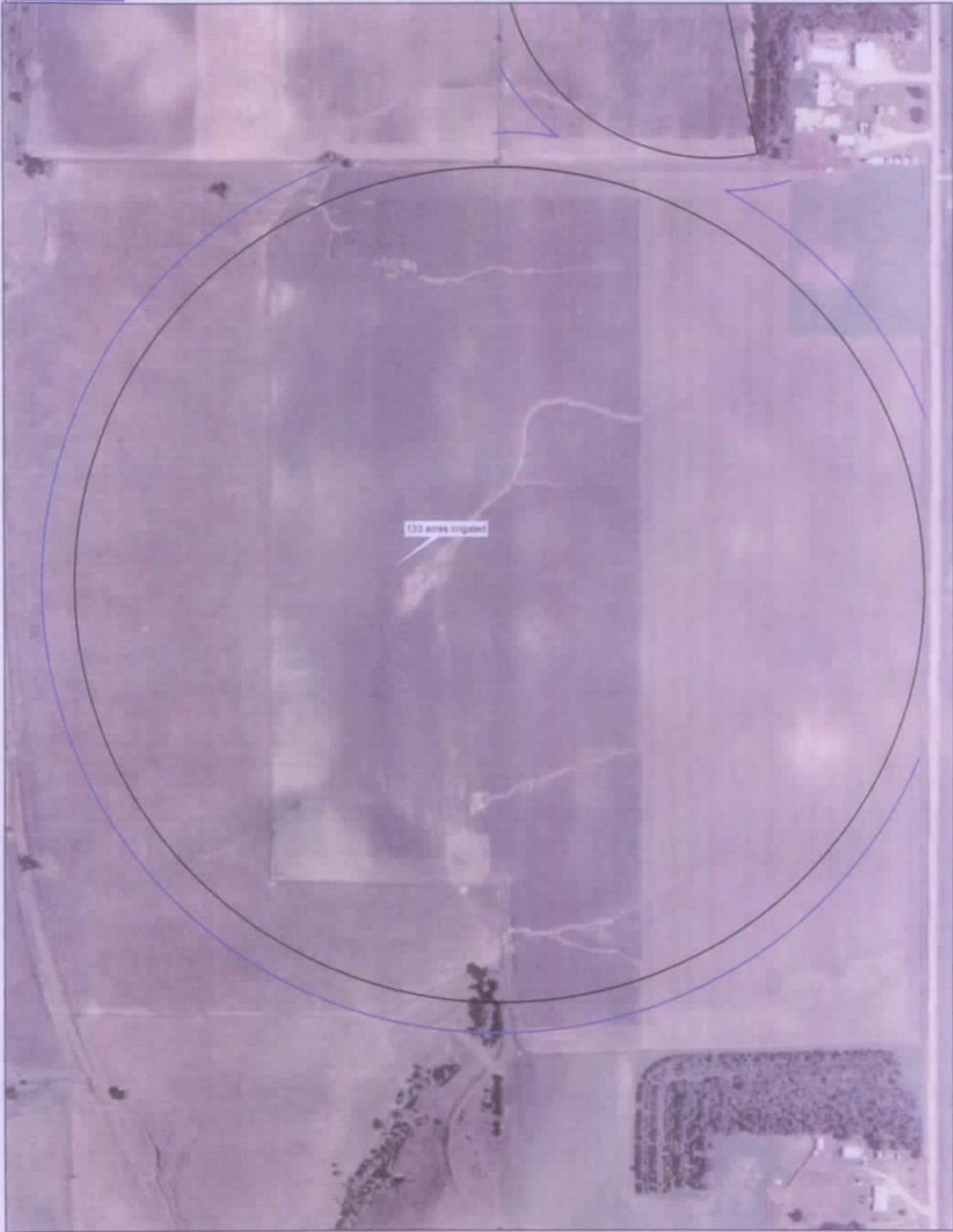
1" = 200.0 ft

Data Zoom 16-4

Em R Brown C.E.D. Bon Homme County ESA
8-31-2011

DeLORME

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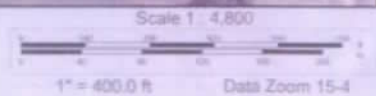
www.delorme.com



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RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 9/6, 20 11

RECEIVED OF Royleen K Jelsma 41414 309th St Springfield SD 57062

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	850	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. _____	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	1050 00

No. **05026**

By


Chief Engineer

Water Rights Program - File Documentation

NAME: Cody Christensen

ADDRESS:

DATE: 9-15-11 **COUNTY:** BH **TELEPHONE:** 402 254-6809

RE: Application for Verlyn Jelsma

COMMENTS:

Cody Christensen, driller for Verlyn Jelsma indicated that the application marked as "Jeremies Place" should include a possible second well located between the S $\frac{1}{2}$ NE $\frac{1}{4}$ and the N $\frac{1}{2}$ SE $\frac{1}{4}$ Sec 9-T93N-R60W as show on the map.



Karen Schlaak
Environmental Scientist



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7269-3**

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. 7269-3, Verlyn Jelsma, 41414 309th Street, Springfield SD 57062.

The Chief Engineer is recommending APPROVAL of Application No. 7269-3 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 wells 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 wells authorized by Permit No. 7269-3 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
November 10, 2011

NOTE: I encourage you to have a soil water compatibility analysis performed to insure the water is suitable for irrigation since the Niobrara Aquifer can present water quality issues. The Water Resources Institute at SDSU or other qualified soil scientist will be able to assist you in making a soil water compatibility determination and recommend if there are water management techniques to implement to optimize crop production and protect the soil structure.

**Report on Water Permit Application No. 7268-3 & 7269-3
for Verlyn Jelsma
October 13, 2011**

Application No. 7268-3 proposes to appropriate 800 gallons per minute (1.78 cfs) from one well approximately 120 feet deep to be completed into the Niobrara Formation aquifer located in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 35 to irrigate 146 acres in the S $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$, Section 35; all in T94N-R60W in Bon Homme County. The annual period during which water will be used is May 1 through September 30.

Application No. 7269-3 proposes to appropriate 750 gallons per minute (1.67 cfs) from two wells approximately 180 feet deep to be completed into the Niobrara Formation aquifer located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 9 and the approximate center of the S $\frac{1}{2}$ NE $\frac{1}{4}$ and N $\frac{1}{2}$ SE $\frac{1}{4}$ Section 18 to irrigate 162 acres in the N $\frac{1}{2}$ SE $\frac{1}{4}$, NE $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NE $\frac{1}{4}$ Section 9; all in T93N-R60W in Bon Homme County. The annual period during which water will be used is April 1 through September 30.

The well locations for these applications appear to be located near the boundary where the Choteau – Tyndall aquifer overlies the Niobrara Formation aquifer.

AQUIFER: Choteau Tyndall (CH-T), Niobrara Formation (NBRR)

This report will address the availability of unappropriated water from the Choteau Tyndall and the Niobrara Formation aquifers.

WATER AVAILABILITY

Aquifer Characteristics:

The Choteau Tyndall is a buried outwash consisting of sand and gravel that may be under artesian or water table conditions at this site. The aquifer underlies 31,300 acres and contains an estimated 140,850 acre-feet of recoverable water in storage in Bon Homme County (Hedges, 1982). The aquifer extends into Yankton County to the east and Hutchinson County to the north where it blends into the Lower James Missouri aquifer. The Choteau Tyndall may not be present at the proposed well location sites for these applications.

The Niobrara Formation is a bedrock unit consisting of nearly horizontal layers of calcareous shale, chalk, and chalky limestone (Jorgensen, 1971). The aquifer underlies about 470 square miles and there is no estimate available for water in storage for the aquifer in Bon Homme County. Water is available from the Niobrara Formation.

Both of these applications included a test well report. The test well report for application No. 7268-3 was denoted with "Verlyn's Place" and indicated topsoil and silty brown clay from 0-10 feet below surface, sand gravel and rocks from 10-18 feet below surface, blue clay from 18-25 feet below surface, gray and yellow shale from 25-45 feet below surface,

gray shale from 45-100 feet below surface, and dull sandy shale from 100-120 feet below surface. The static water level for this test well was 37 feet below surface.

The test well report for application 7269-3 was denoted with "Jeremy's Place" and indicated silty brown clay with rocks from 0-50 feet below surface, blue clay with rocks from 50-55 feet below surface, hard gray shale from 55-60 feet below surface, and shale from 60-180 feet below surface. The static water level for this test was reported at 96 feet below surface.

Observation Well Data:

The Water Rights Program monitors three observation wells located within two miles of these application locations. Two of these observation wells are completed into the Choteau-Tyndall aquifer, one is located about a mile west and the other is located about a mile north. The other observation well, BH-82C, is completed into the Niobrara Formation and is located approximately one mile east of the proposed well location for 7268-3. Water levels for these wells show good response to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years due to natural discharge and to pumping. The water level record indicates that the aquifers are capable of sustaining additional withdrawals (Water Rights, 2011). The hydrographs for these observation wells are included with this report.

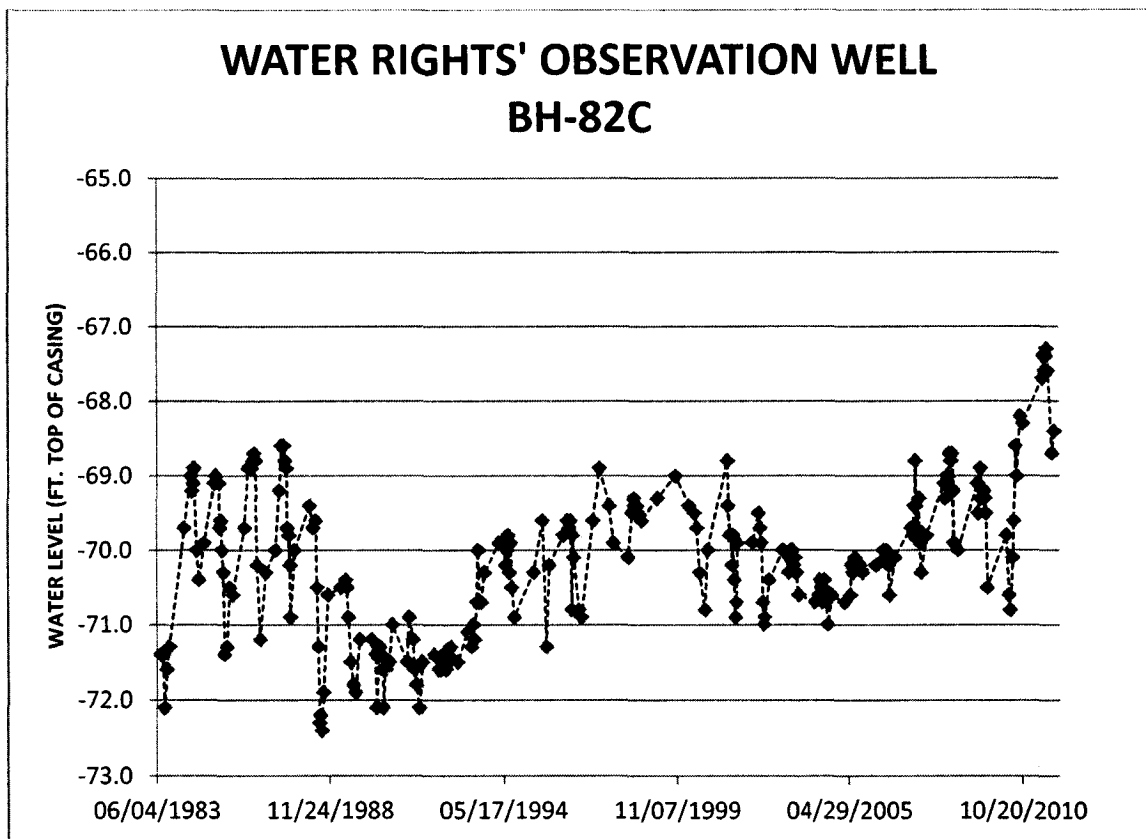


Figure 1. Hydrograph for Water Rights Observation Well BH-82C, completed into the Niobrara Formation Aquifer within one mile of 7268-3 and 7269-3 (Water Rights, 2011)

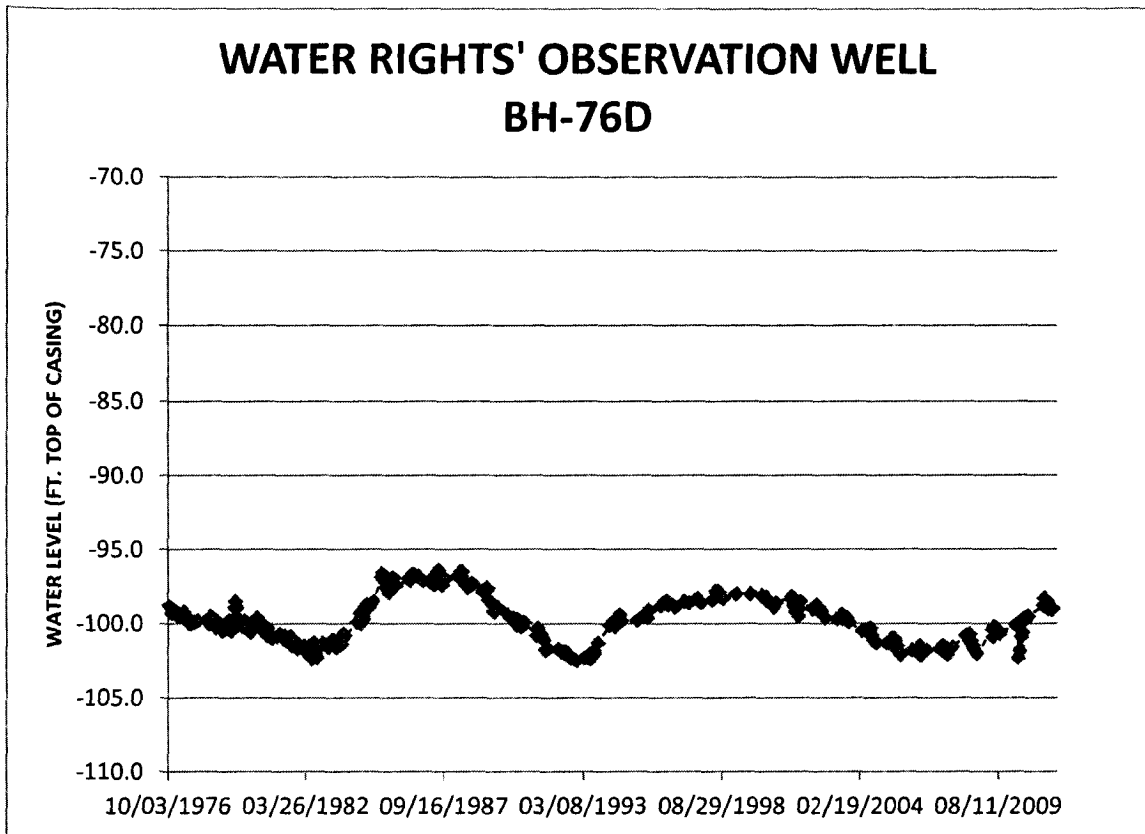


Figure 2. Hydrograph for Water Rights Observation Well BH-76D, completed into the Choteau Tyndall Aquifer within two miles of 7268-3 and 7269-3(Water Rights, 2011)

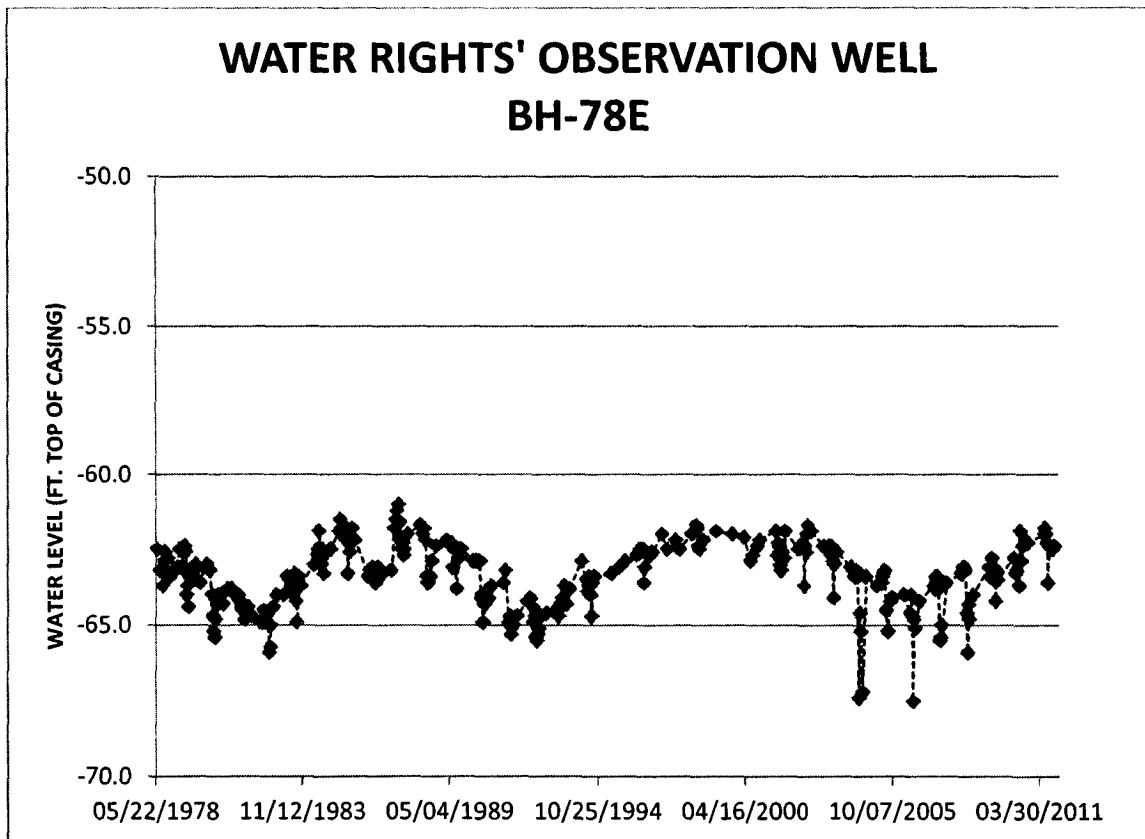


Figure 3. Hydrograph for Water Rights Observation Well BH-78E, completed into the Choteau Tyndall Aquifer within two miles of 7268-3 and 7269-3(Water Rights, 2011)

In general, the hydrographs show that over the period of record, withdrawals have not exceeded recharge.

Review of Existing Water Permits/Rights/Water Use:

There are thirteen irrigation permits within two miles of 7268-3; one of these appropriates water from the Niobrara and the other twelve appropriate water from the Choteau Tyndall aquifer. There are eight irrigation permits within two miles of 7269-3, all appropriate water from the Choteau Tyndall aquifer. Interference should not be a problem.

Conclusions:

1. Water is available from Niobrara Formation aquifer or the Choteau Tyndall aquifer. The Choteau Tyndall will likely not be encountered at these locations; however the Niobrara Formation aquifer could be present.
2. These wells must be constructed in accordance with SD Well Construction Standards.
3. Water quality could be an issue. The water may not be suitable for irrigation. Suitability for irrigation is limited to certain soil texture conditions. It is recommended that the applicant make sure that the soil texture and water quality is compatible.
4. If the wells covered by these permits deplete the domestic supplies or interfere with prior water rights, restrictions or other arrangements may be required to protect these water supplies.



Hayes Haas
Natural Resources Engineer

Bibliography:

Hedges, L.S. et al, 1982, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, for the U.S. Army Corps of Engineers, 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, 2011, Unpublished Observation Well Data for the Choteau Tyndall aquifer and the Niobrara Formation, SD DENR, DES, Water Rights Program, Pierre, SD, 57501

Affidavit of Publication RECEIVED

State of South Dakota }
County of Bon Homme } SS

DEC - 1 2011

WATER RIGHTS PROGRAM

Rebecca Tydz Being first duly sworn
says that the **Tyndall Tribune & Register** is a legal
weekly newspaper for publication of legal and other offi-
cial 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 depo-
nent is the publisher in charge of the advertising depart-
ment of said newspaper; that the advertisement headed

Notice of Application

Nos. 7268-3 and 7269-3

77e37.2+809.1

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

Nov. 23 2011.....20.....

Nov. 30 2011.....20.....

.....20.....20.....

.....20.....20.....

That the full amount of the fee charged for the publica-
tion of said notice, \$51.55, 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.

Subscribed and sworn to before me this

20th day of Nov 2011

Peggy Schelske
Notary Public, South Dakota

My commission expires: Oct 24, 2015

NOTICE OF APPLICATION

NOS. 7268-3 and 7269-3
to Appropriate Water

Notice is given that Verlyn Jelsma,
41414 309th Street, Springfield, SD 57062
has filed the following applications for a
water permit.

Application No. 7268-3 proposes to
appropriate 1.78 cubic feet of water per
second (cfs) from one well completed
into the Niobrara Aquifer (120 feet
deep) located in SW1/4 NW1/4 Section
35 to irrigate 146 acres located in the
S1/2 NW1/4, SW1/4, Section 35; all in
T94N-R60W.

Application No. 7269-3 proposes to
appropriate 1.67 cfs from two wells
completed into the Niobrara Aquifer lo-
cated in the NE1/4 NE1/4 and the cen-
ter between the S1/2 NE1/4 and the
N1/2 SE1/4 Section 9 to irrigate 162
acres located in the N1/2 SE1/4, NE1/4
NE1/4, S1/2 NE1/4 Section 9; all in
T93N-R60W.

Pursuant to SDCL 46-2A-2, the Chief
Engineer recommends APPROVAL of
Application Nos. 7268-3 and 7269-3 be-
cause 1) unappropriated water is avail-
able, 2) existing rights will not be un-
lawfully 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
these applications, as recommended,
unless a petition is filed opposing the
applications or the applicant files a peti-
tion contesting the Chief Engineer's rec-
ommendations. If a petition opposing
the applications or contesting the rec-
ommendations is filed, then a hearing
will be scheduled and the Water Man-
agement Board will consider these ap-
plications. Notice of the hearing will be
given to the applicant and any person
filing a petition.

Any person interested in opposing or
supporting these applications or rec-
ommendations must file a written peti-
tion with BOTH the applicant and Chief
Engineer. The applicant must file a peti-
tion if contesting the Chief Engineer's
recommendations. The Chief Engineer's
address is "Water Rights Program, Foss
Building, 523 E. Capitol, Pierre, SD
57501 (605-773-3352)" and the appli-
cant's mailing address is given above. A
petition filed by either an interested per-
son or the applicant must be filed by
December 12, 2011.

The petition may be informal, but
must include a statement describing the
petitioner's interest in the applications,
the petitioner's reasons for opposing or
supporting the applications and the sig-
nature and mailing address of the peti-
tion 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 in-
formation pertaining to these applica-
tions.

Steven M. Pirner, Secretary
Department of Environment
and Natural Resources

Published twice at an approximate
cost of \$51.55

(Nov. 23 & 30)



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

November 14, 2011

Tyndall Tribune & Register
PO Box 250
Tyndall SD 57066

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application Nos. 7268-3 and 7269-3 to Appropriate Water to be published twice. Please publish the first notice on November 23, 2011 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 Verlyn Jelsma 41414 309th St., Springfield SD 57062 (Ph # 605-369-2664).

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 /KS

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

Nos. 7268-3 & 7269-3

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

Date _____

We are in receipt of your letter of November 14, 2011 enclosing Notice to Appropriate Water by Application Nos. 7268-3 & 7269-3 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
www.state.sd.us/denr

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

November 14, 2011

Verlyn Jelsma
41414 309th St
Springfield SD 57062

Dear Mr. Jelsma:

Water Permit Application Nos. 7268-3 and 7269-3 for irrigation use have 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 recommendations of the Chief Engineer and reports 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 /ks

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 recommendations, 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 applications.

Instruction to Newspaper - Publish first Notice on November 23, 2011 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 NOS. 7268-3 and 7269-3 to Appropriate Water

Notice is given that Verlyn Jelsma, 41414 309th St, Springfield SD 57062 has filed the following applications for a water permit.

Application No. 7268-3 proposes to appropriate 1.78 cubic feet of water per second (cfs) from one well completed into the Niobrara Aquifer (120 feet deep) located in SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 35 to irrigate 146 acres located in the S $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ Section 35; all in T94N-R60W.

Application No. 7269-3 proposes to appropriate 1.67 cfs from two wells completed into the Niobrara Aquifer located in the NE $\frac{1}{4}$ NE $\frac{1}{4}$ and the center between the S $\frac{1}{2}$ NE $\frac{1}{4}$ and the N $\frac{1}{2}$ SE $\frac{1}{4}$ Section 9 to irrigate 162 acres located in the N $\frac{1}{2}$ SE $\frac{1}{4}$, NE $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NE $\frac{1}{4}$ Section 9; all in T93N-R60W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 7268-3 and 7269-3 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 these applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendations. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider these applications. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. 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 December 12, 2011.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 these applications.

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
www.state.sd.us/denr

JAN 10 2012

Verlyn Jelsma
41414 309th St
Springfield SD 57062

Dear Mr. Jelsma:

Enclosed are Water Permit Nos. 7266-3, 7267-3, 7268-3 and 7269-3 authorizing construction of your water diversion systems and beneficial use of the water, not exceeding the limits as specified in the Water Permits.

Form 10's, *Notice of Completion of Works and Application of Water to Beneficial Use*, are enclosed. Please return the completed forms after you have finished the systems and have put the water to beneficial use. An investigation can then be scheduled so the water licenses 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

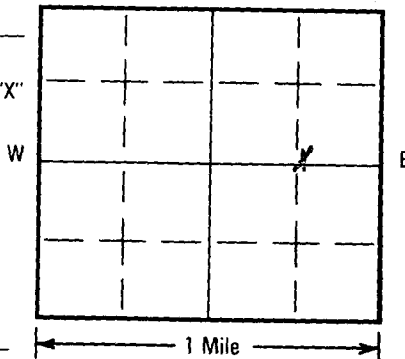
enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location SE 1/4 NE 1/4 Sec 9 Twp 73N Rg 60W
 County Bon Homme

Please mark well location with an "X"



Well Completion Date

11-21-11

Well Owner: Nelson Nelson 7269-3
 Business Name: 41414 309th St
 Address: Springfield, SD 57062

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>top of brown clay</u>	<u>0</u>	<u>58</u>
<u>grey chalk</u>	<u>58</u>	<u>140</u>

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 200 ft. from septic (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Reverse Rotary / Straight Rotary

CASING DATA:

- ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>11.0</u> LB/FT	<u>2 1/2</u> IN	<u>0</u> FT	<u>60</u> FT	<u>2 1/2</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>	<u>360</u>	_____ lb./gal	<u>0</u> ft	<u>60</u> ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure pumped down w/ pressure grout

SCREEN:

☐ Perforated pipe ☐ Manufactured
 Diameter 1 1/2 IN Length _____ FEET
 Material OPEN HOLE
 Slot Size _____ Set From 60 Feet to 140 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? _____

Laboratory sent to for water quality analysis _____

STATIC WATER LEVEL

75 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

87 ft. After 1 Hrs. pumped 700 GPM

91 ft. After 2 Hrs. pumped 1000 GPM

If pump installed, pump rate 700 GPM

REMARKS

RECEIVED

JAN 23 2012

WATER RIGHTS PROGRAM

This well was drilled under license # 444

And this report is true and accurate.

Drilling firm Chastain Well & Pumping

Signature of License Representative: Cody M. Chastain

Signature of Well Owner or Equitable Property Holder: _____

Date: 1-17-12

**Report of Examination of Works and/or Application of Water to Beneficial Use
For Permit No. 7269-3**

I have this day, May 2, 2018, made a thorough examination of the water use system constructed by Verlyn Jelsma, 41414 309th St., Springfield, SD 57062, holder of Permit No. 7269-3, bearing the priority of September 6, 2011 authorizing the diversion of 1.67 cu. ft. per second of the waters of groundwater (Niobrara Aquifer) for irrigation purposes, in Bon Homme County.

Inspection contact: Verlyn Jelsma, Owner

A. Works used to divert the water: Well Information:

South Well

- 1) Well Drilling Firm: Christensen Well & Irrigation
- 2) Depth(s) 140 feet
- 3) Well log is available Yes

Casing:

- 1) Diameter 16 inches
- 2) Length 60 feet
- 3) Type Plastic

Screen:

- 1) Type Open hole in the grey chalk
- 2) Length 80 feet
- 3) Static water level 75 feet

Pump:

- 1) Make Goulds
- 2) Model Unknown
- 3) Capacity 700 GPM

Motor:

- 1) Make US
- 2) Model No. BF48A
- 3) Horsepower rating 40 hp

North Well

- 1) Well Drilling Firm: Christensen Well & Irrigation
- 2) Depth(s) 180 feet
- 3) Well log is available Yes

Casing:

- 1) Diameter 16 inches
- 2) Length 60 feet
- 3) Type Plastic

Screen:

- 1) Type Open hole in the grey chalk
- 2) Length 120 feet
- 3) Static water level 96 feet

Pump:

- 1) Make Goulds
- 2) Model Unknown
- 3) Capacity 150 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

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:**South Center pivot:**

- 1) Make T&L
- 2) Overall length 1292 feet
- 3) Number of towers 8
- 4) End gun Yes
- 5) Capacity 700 GPM

North Center pivot:

- 1) Make T&L
- 2) Overall length 642 feet
- 3) Number of towers 4
- 4) End gun Yes
- 5) Capacity 150 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: North Well: 670 feet south and 670 feet west from the northeast corner of Section 9-T93N-R60W (Latitude 42.89236, Longitude -97.93378); South Well: 2,610 feet south and 1,330 feet west from the northeast corner of Section 9-T93N-R60W (Latitude 42.88708, Longitude -97.93632).
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: all in Section 9-T93N-R60W

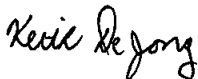
<u>NE1/4NE1/4</u>	<u>27 acres</u>
<u>SW1/4NE1/4</u>	<u>33 acres</u>
<u>NW1/4SE1/4</u>	<u>33 acres</u>

<u>SE1/4NE1/4</u>	<u>33 acres</u>
<u>NE1/4SE1/4</u>	<u>32 acres</u>

comprising a total of 158 acres of land and the license should be issued for 1.67 cfs.

3. All structures, wells and lands on map Yes

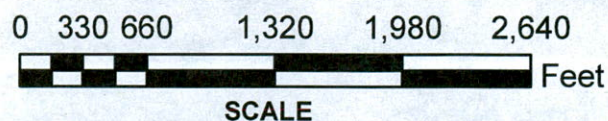
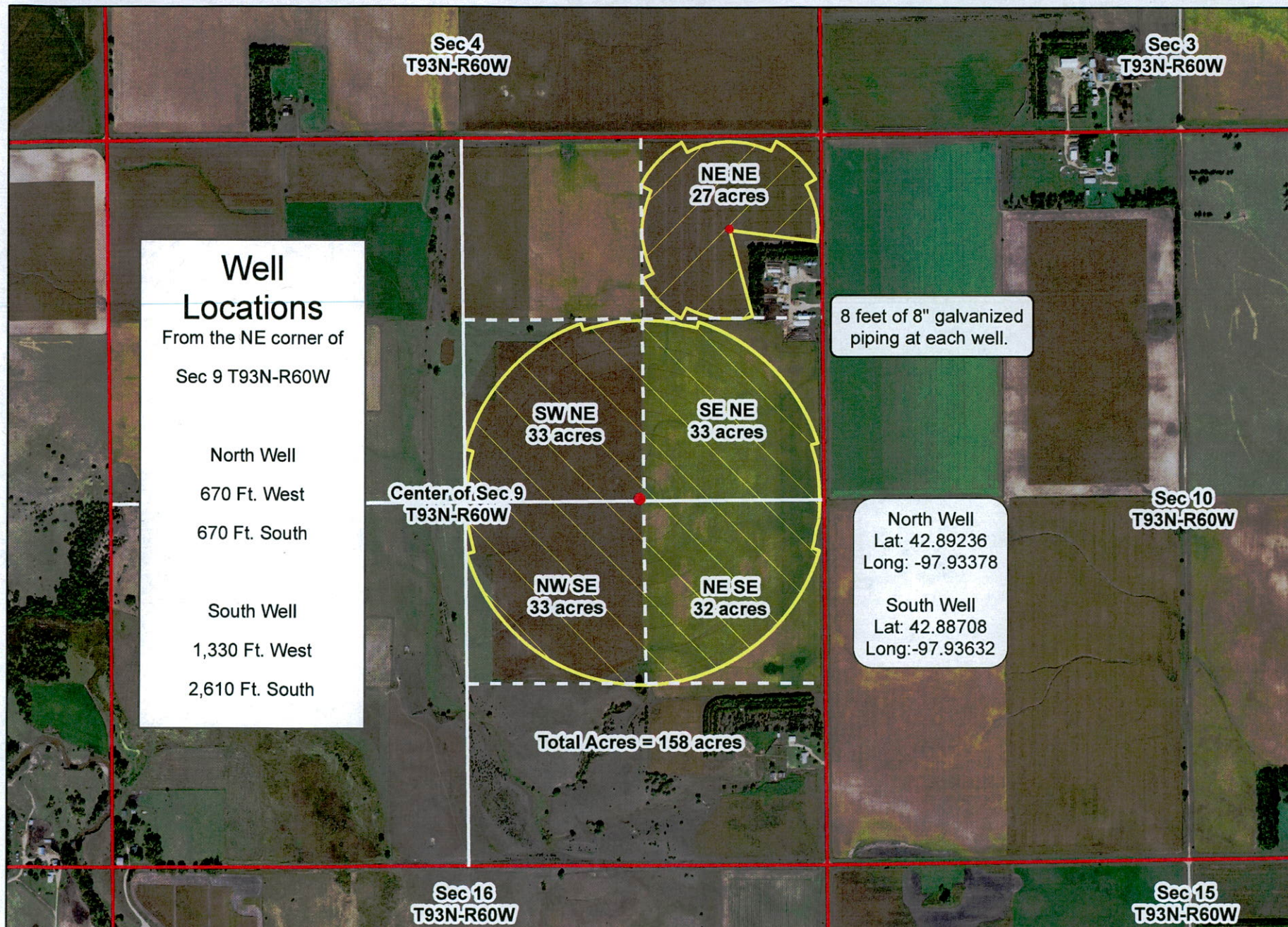
F. Comments or other permit(s) associated with the project: The well locations were obtained with a GPS unit. The south well appears to be in the SW1/4 of the NE1/4 instead of the SE1/4 of the NE1/4 as noted on the well log.



Keith DeJong
Water Rights Inspector
DENR, Water Rights Program

Date report completed: May 9, 2018

Water Right No. 7269-3



Keith DeJong
Keith DeJong, PE
Staff Engineer
May 9, 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

7269-3

Verlyn Jelsma
41414 309th St
Springfield SD 57062

Dear Mr. Jelsma:

Enclosed is Water License No. 7269-3. 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,

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

enclosures

NOTE: The investigation found your irrigation system is capable of diverting 1.89 cubic feet of water per second (cfs) which is equivalent to approximately 850 gallons per minute. Permit No. 7269-3 appropriated 1.67 cfs which is equivalent to 750 gpm. The water license cannot be issued for an amount greater than originally permitted. Diversion of water under this water license is limited to 1.67 cfs.

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 7269-3

(1) Verlyn Jelsma, 41414 309th St, Springfield SD 57062 made Application No. 7269-3, September 6, 2011 for a water permit to divert 1.67 cubic feet of water per second from ground water, two wells (Niobrara Aquifer), Bon Homme County, South Dakota for irrigation purposes. Permit No. 7269-3, with a priority date of September 6, 2011 was approved December 12, 2011 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before December 12, 2016 and for the application to beneficial use of said water on or before December 12, 2020.

(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 1.67 cubic feet of water per second for beneficial use. The location of the diversion points are:

- **North Well:** 670'S and 670'W of the NE corner of Section 9, T93N, R60W (NE ¼ NE ¼)
Latitude 42.89236, Longitude -97.93378
- **South Well:** 2,610' S and 1,330'W of the NE corner of Section 9, T93N, R60W (SE ¼ NE ¼)
Latitude 42.88708, Longitude -97.93632

(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, R60W	NE ¼ NE ¼	27 acres	NW ¼ SE ¼	33 acres
	SW ¼ NE ¼	33 acres	NE ¼ SE ¼	32 acres
	SE ¼ NE ¼	33 acres	Total 158 acres	

(4) Pursuant to South Dakota Water Law 46-5-30.1 Verlyn Jelsma, 41414 309th St, Springfield SD 57062 the holder and/or owner of Water Right No. 7269-3 is issued a license to appropriate water, the right to use 1.67 cubic feet of water per second from ground water, two wells (Niobrara Aquifer) with a priority date of September 6, 2011 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. 7269-3 and subject to the following qualifications:

- The wells 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 wells authorized by Permit No. 7269-3 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 two wells were drilled in August and November, 2011 by Christensen Well & Irrigation. Copies of the well completion reports are 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, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JUN 20 2018

date

