

WATER PERMIT NO. 8242-3

Name of Applicant: **Bradley and Shelly Jongeling**

Address: **18995 461st Ave, Castlewood SD 57234**

Phone: **605 881-3432**

Amount of Water Claimed: **1.78 cfs**

Total Acres: **76 acres**

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

Water to be used for: **irrigation**

County: **Hamlin**

Type of Waste Disposal System:

Location: **4 miles south of Castlewood**

PRIORITY

Date Received: **10-11-16**

Application/License Fee: **\$ 950**

Corrected Application Received:

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

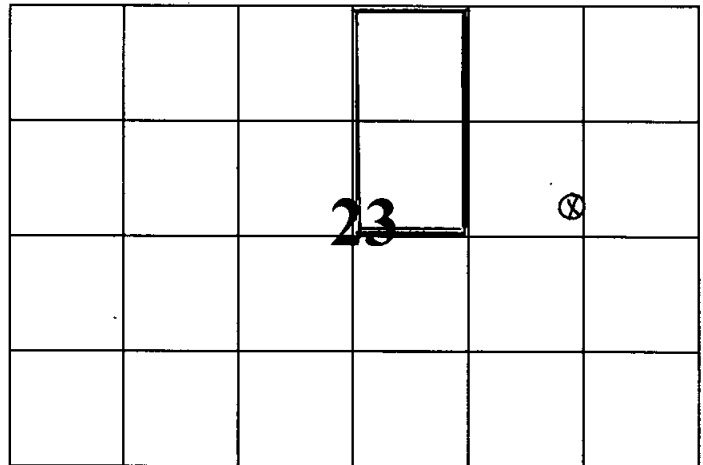
Remarks: **Using existing well authorized by No. 7100-3**

Diversion Point: **SE 1/4 NE 1/4 Sec 23-T114N-**

R52W

Land to be Irrigated: **W 1/2 NE 1/4 Sec 23-T114N-**

R52W



Depth of Well: **70 feet deep**

Well Driller: **Kaiser Well Drilling Inc.**

Remarks:

Type of Map: **aerial**

Prepared by:

Reviewed and the Number Assigned on: **10-11-16**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8242-3</u>	(office use only) Hydrologic Unit <u>10170202</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Hamlin Co Republican, Castlewood</u>	
	<u>Public Opinion, Watertown</u>	

RECEIVED
OCT 11 2016
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. 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 Bradley and Shelly Jongeling

Note: The "Name to Appear on Irrigation Permit" must be the name in which the property to be irrigated is held in.

Mailing Address 18995 461st Ave Estelline Castlewood SD 57234
(Address) (City) (State) (Zip Code)

Phone 605-873-2898 Mobile 605-881-3432 Email jongelin@itctel.com

2. Amount of water claimed *CFS or **GPM ~~800~~ ***AF Total Acreage 76A
(*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 Well is in the SE corner of the NE 1/2 SE 1/4 NE 1/4 Sec 23 - T114N - R52W
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

Permit #7100 County Hamlin

5. County or counties where water will be used Hamlin

6. Annual period during which water is to be used June
May-September

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
NW 1/4 of the NE 1/4 Sec 23 T114N R52W	38A		
SW 1/4 of the NE 1/4 Sec 23 T114N R52W	38A		

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

I, Bradley G Jongeling Farmer, the applicant, certify under
Name of Person Title (if applicable)

penalty of perjury that I have read this application, examined the attached map, and that the matters stated are true. I further certify, if acting on behalf of an entity or individual other than myself, that I am authorized to submit this application.

**SOUTH DAKOTA
WATER PERMIT NO. 8242-3**

Date of first receipt of application October 11, 2016.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8242-3 to Bradley and Shelly Jongeling, 18995 461st Ave, Estelline SD 57234 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. 8242-3 authorizes irrigation of 76 acres from the existing well authorized by Water Permit No. 7100-3. Water Permit No. 7100-3 appropriates 2.0 cubic feet of water per second (cfs) from one existing well completed into the Big Sioux:Brookings Aquifer (70 feet deep) located in the SE 1/4 NE 1/4 Section 23 for irrigation of 80 acres located in the E 1/2 NE 1/4 Section 23; all in T114N-R52W. Permit No. 8242-3 authorizes irrigation of 76 additional acres located in the W 1/2 NE 1/4 of this section. This permit allows the center pivot will make a full rotation in the NE 1/4 of Section 23.
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: June 1 – September 30.
3. The date from which applicant may claim right is October 11, 2016 (76 acres in the W 1/2 NE 1/4 Section 23-T114N-R52W).
4. The date of approval of Permit No. 8242-3 is December 26, 2016.
5. 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. 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

JAN 30 2017
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 ____ Have test holes been drilled ☐ Yes ☐ No Drilled by ____
(if yes, please provide copies of logs)

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

For either Existing or Proposed Wells:

c) Well Depth (required) ____ Depth to Top of Water Bearing Material ____ Depth to Water from Surface ____

d) Distance to nearest domestic well on applicant's property ____ 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)

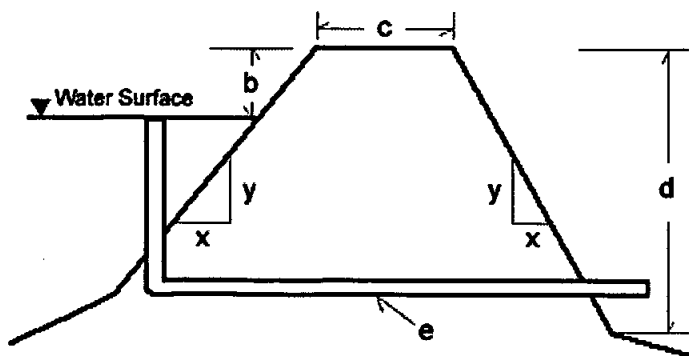
Upstream ____

Downstream ____

h) Surface Area of Impoundment ____

i) Storage ____ Acre Feet

j) Drainage Area Above Dam ____ Acres



Sec 23 T114N R52W 76A

NW 1/4 of the NE 1/4
SW 1/4 of the NE 1/4

Legend

-  Endgun Watered Path
-  Feature 1

well

Google earth

© 2016 Google

3000 ft

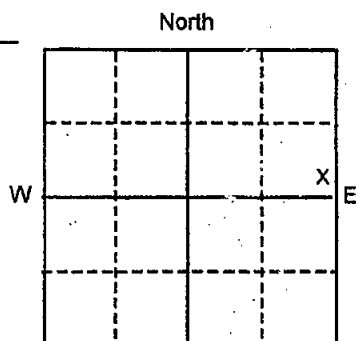


7100-3

SD EForm - 1621LD V1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SE 1/4 NE 1/4 Sec 23 Twp 114N Rg 52WCounty HamlinPlease mark well
location with an "X"

Well Completion Date

9-6-2012

1 Mile

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

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary Drill

CASING DATA:

☐ Steel ☒ Plastic ☐ Other
If other describe Sch 40

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
40.0 LB/FT	16.00 IN	0.0 FT	43.0 FT	22.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Grt Well DF	28	54.0 Lb/gal	0.0 Ft	40.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 16.00 Inches Length 27.0 Feet
 Material _____
 Slot Size _____ Set From 43.0 Feet to 7.0 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? HTH
☐ No, Why Not?
Lab to which water
quality sample sent for analysisWell Owner: Brad Jongeling

Business Name:

Address: 18995 461ST AVECity, State, Zip: ESTELLINE SD 57234

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	1
Sandy Yellow Clay	1	3
Mixed sand and gravel	3	70

STATIC WATER LEVEL 8.0 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:

☐ Bailed

☐ Other

AIR LIFT

Pumping Level Below Land Surface

25.0 Ft. After 8.0 Hrs. pumped 1,200.0 GPM

 Ft. After Hrs. pumped GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

OCT 19 2012

WATER RIGHTS
PROGRAMThis well was drilled under license # 689 and this
report is true and accurate.Drilling firm: KAISER WELL DRILLING INC

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 9-11-2012

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 10-11, 20 16

RECEIVED OF Bradley Jongeling, 18995 461st Ave. Estelline SD 57234

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

Fee for Application for Permit No. <u>8242-3</u> to Appropriate Water, to construct and to put water to beneficial use	750	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>8242-3</u>	200	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	950 00

No. **07932**

By Jeanne Goodman
Chief Engineer /KS

No. 8242-3

Water Rights Program - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: Application No. 8242-3, Jongeling

ADDRESS: COUNTY Hamlin County

DATE: October 11, 2016

TELEPHONE: 605 881-3432

RE: application for additional acres

I contacted Mr. Jongeling to clarify the application. The application requests 800 gpm for irrigation of 76 new acres to what is authorized by Water Permit No. 7100-3. Mr. Jongeling confirmed that he is not requesting any additional diversion rate to what is already authorized by Permit No. 7100-3. If approved this will allow the pivot to make full rotation.

I indicated that the application will be amended accordingly.

NAME: Eric Thacker

No. 8242-3

Water Rights Program - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: Application No. 8242-3, Jongeling

ADDRESS: COUNTY Hamlin County

DATE: October 19, 2016 TELEPHONE: 605 881-3432

RE: annual period of use

I contacted Mr. Jongeling regarding the inconsistency between the annual period of use. Water Permit No. 7100-3 has an annual period of use of June 1 – September 30 and Application No. 8242-3 requests a period of use of May – September. Mr. Jongeling stated he never irrigates in May and requested the application be amended to be from June 1 – September 30.

I indicated that the application will be amended accordingly.

NAME: _____

Eric Hamlin



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

denr.sd.gov

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8242-3, Bradley and Shelly Jongeling**

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. 8242-3, Bradley and Shelly Jongeling, 18995 461st Avenue, Castlewood SD 57234.

The Chief Engineer is recommending APPROVAL of Application No. 8242-3 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. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Jeanne Goodman, Chief Engineer
December 7, 2016

NOTE: At the time of licensing Water Permit No. 7100-3 and Water Permit No. 8242-3 will be incorporated into one water license to reflect this being one water use system. Until that time, you will be receiving an irrigation questionnaire each fall for both permits. Please fill out just one of the irrigation questionnaires and reference in the comment section that you are reporting for both permits.

Report to the Chief Engineer

Water Permit Application No. 8242-3

Bradley and Shelly Jongeling

November 30, 2016

Water Permit Application No. 8242-3 proposes the irrigation of 76 acres in the W $\frac{1}{2}$ NE $\frac{1}{4}$ Section 23-T114N-R52W using an existing well authorized under Water Permit No. 7100-3. Water Right No. 7100-3 authorizes the diversion of water at a maximum rate of 2.0 cubic feet per second (cfs) from one well (70 feet deep) completed into the Brookings management unit of the Big Sioux aquifer located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ Section 23 for the irrigation of 80 acres in the E $\frac{1}{2}$ NE $\frac{1}{4}$ Section 23; all in T114N-R52W. This application, if approved, does not authorize any increase in the maximum diversion rate authorized by Water Permit No. 7100-3. If approved, this application would allow the center pivot in the NE $\frac{1}{4}$ of Section 23 to make a full rotation.

Aquifer: Brookings management unit of the Big Sioux aquifer (Big Sioux: Brookings)

Aquifer Characteristics and Hydrogeology

The Big Sioux aquifer is a shallow, glacial aquifer that underlays the Big Sioux River Valley and many of its tributaries (Koch, 1980). It is made up of very permeable, well-sorted glacial outwash sand (mostly medium to very coarse) and gravel (mostly very fine to medium) that overlies a relatively impermeable glacial till (Hamilton, 1989 and Koch, 1980). Near the Big Sioux River and its major tributaries, the aquifer is under unconfined conditions; elsewhere it can underlie glacial till and be under locally confined conditions (Hamilton, 1989). However the Big Sioux: Brookings aquifer is considered to be primarily an unconfined aquifer (Hedges et al., 1982).

The Brookings management unit of the Big Sioux aquifer underlies portions of Brookings, Deuel, Hamlin, Kingsbury, and Moody counties. The Brookings management unit is hydraulically connected to the surface water resources of the Big Sioux River, its tributaries, and area lakes (Koch, 1980). Groundwater in the Brookings management unit is hydraulically connected to the North, North Deer Creek, Unnamed Creek, Six Mile Creek, Aurora, and the Moody management units of the Big Sioux aquifer (Hedges et al., 1982). Groundwater flow is locally in the direction of the slope of the land, which is generally toward the Big Sioux River and local lakes and regionally toward the south (Hedges et al., 1982; Hamilton, 1989; and Kume, 1985). A compilation of county water resource investigations (Hamilton, 1989; Hansen, 1988; and Kume, 1985) by Stonesifer (2013) estimated the aerial extent of the Big Sioux: Brookings aquifer at about 323,000 acres shown in Figure 1.

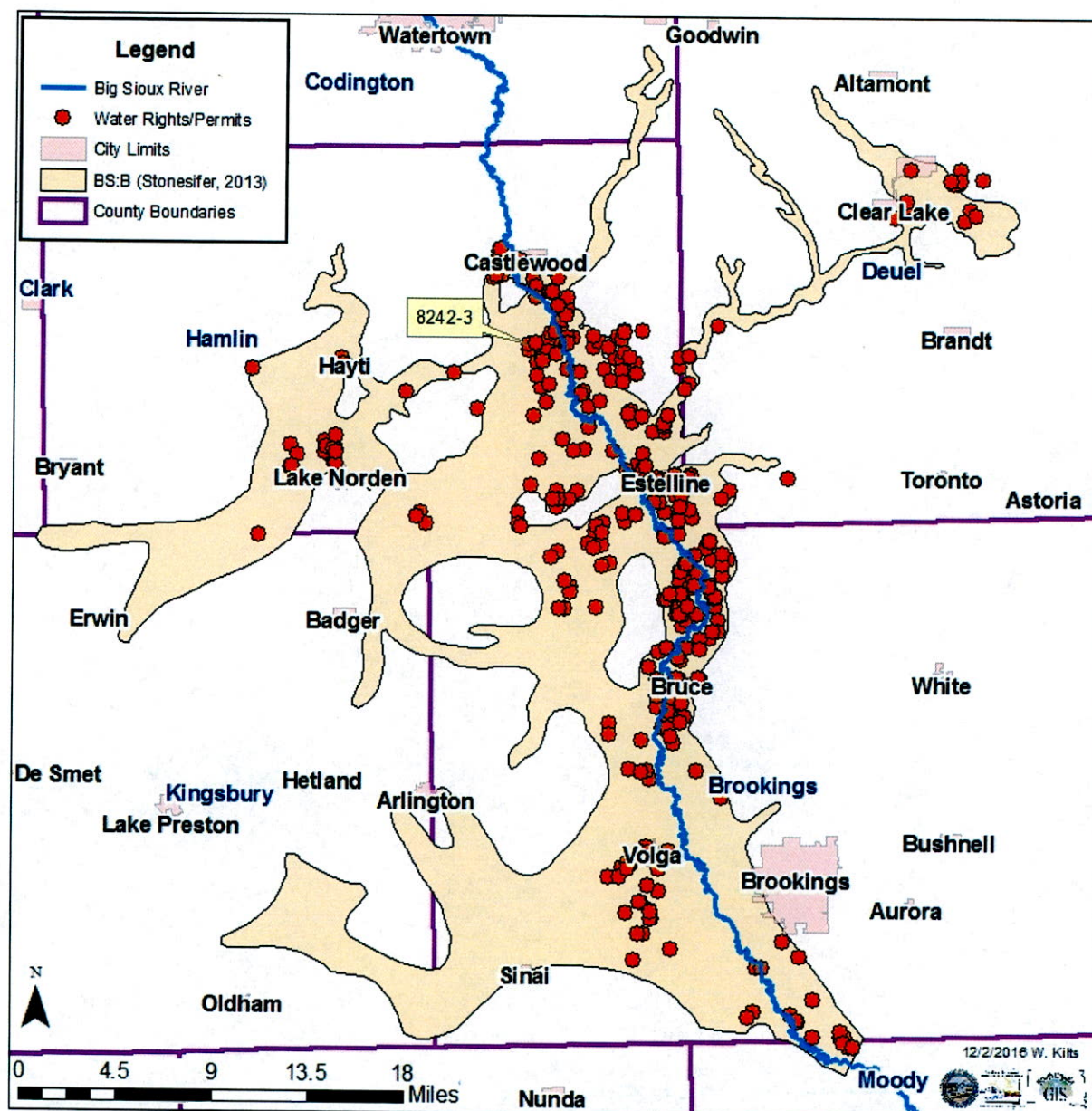


Figure 1: Big Sioux: Brookings aquifer (BS:B) as mapped by Stonesifer (2013) and water rights/permits in the Big Sioux: Brookings aquifer (Water Rights, 2016a)

The well completion report for Water Permit No. 7100-3 indicates that the aquifer is under unconfined conditions at the well site. The report indicates aquifer materials from 3 to 70 feet below grade. At the time of well completion (09/06/2012) the static water level was eight feet below grade. This results in a saturated thickness of 62 feet at the well location.

South Dakota Codified Law (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

Water Permit Application No. 8242-3 proposes to appropriate water from the Big Sioux: Brookings aquifer. 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 that 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.” If the source of the water is older or lower than the Greenhorn Formation and a water distribution system has applied for a permit, the Board need not consider the recharge/withdrawal issue. Here, a water distribution system is not involved and the Big Sioux: Brookings aquifer is not older or lower than the Greenhorn Formation, therefore the withdrawal/recharge issue must be considered.

Hydrologic Budget

Recharge

Big Sioux: Brookings aquifer is recharged by infiltration from precipitation and seepage from surface water (Hamilton, 1989). A 1985 study by Hedges et al. reported recharge to the Big Sioux: Brookings aquifer utilizing three different methods. Based on observation well analysis, recharge was estimated at 4.0 inches per year (Hedges et al., 1985). Based on the compiled best fit modeling data from various investigations, recharge was reported at 3.6 inches per year (information included from other management units in estimate) (Hedges et al., 1985). The third method used regional flow net analysis to estimate recharge at 1.0 inch per year for the entirety of the Big Sioux aquifer (Hedges et al., 1985). Of the regional flow net analysis Hedges et al. (1985) comments, “It should be noted that recharge rates calculated using flownet analysis are suspect and conclusions based on this method are questionable.” Of these three methods the observation well analysis is considered to be the most reflective of actual conditions since it utilized management unit specific data and is more closely based on real world observation. The observation well estimate for recharge will be utilized in this report as the estimate for average annual recharge, since it is more reflective of actual conditions when evaluating the hydraulic budget for the aquifer. When utilizing the aquifer area from Stonesifer (2013), this results in an estimated average annual recharge to the Big Sioux: Brookings aquifer of about 107,000 acre-feet per year.

Discharge

Withdrawals from the aquifer include evapotranspiration, seepage to surface water, and pumping (Hamilton, 1989). The amount of water withdrawn by domestic uses are not considered

a significant portion of the hydraulic budget of the aquifer due to the relatively low diversion rate of domestic wells; additionally with the development of rural water systems in the area many domestic wells may no longer be in use. The remainder of withdrawals can be split into irrigation and non-irrigation uses.

Historically, average water use by non-irrigation appropriations limited by instantaneous diversion rate has been less than 60% of full time pumping at the permitted diversion rate. For water rights/permits limited to an annual volume, full use of that volume is assumed for estimation of average annual withdrawal, and it is assumed that future use permits will be fully developed. There are 11 future use permits in the aquifer reserving a total of 7,382 acre-feet. The municipalities of Bruce, Clear Lake, and Hayti currently utilize rural water as a primary water source and maintain their water rights for backup and emergency use purposes (Drinking Water Program, 2015 and Friedeman, 2016). Water use by non-irrigation rights/permits limited by diversion rate can be estimated at about 7,658 acre-feet per year and those limited by an annual volume at 5,637 acre-feet per year. This yields an estimated annual non-irrigation use of about 20,677 acre-feet per year.

The Water Rights Program collects and maintains irrigation data from across the state. Irrigation appropriations and reported pumping from 1979 to 2015 is shown in Figure 2. The average reported pumpage for this time period is 8,835 acre-feet, with a minimum of 1,043 acre-feet in 1993 and a maximum of 19,483 acre-feet in 2012. Irrigation appropriations are fairly steady from 1991 to 2012 and notable increases in appropriations have occurred since the 2012 irrigation season. This increase corresponds with the addition of approximately 5,485 acres (Water Rights, 2015b). Although irrigation appropriations are for up to two feet per acre per year, aquifers in the eastern portion of the state for which the application rate per irrigated acre has been quantified have yielded application rates of less than ten inches per acre per year. Utilizing the historical average combined with an estimated usage of less than ten inches per acre for recent appropriations and assuming that all recently permitted acres will be irrigated results in estimation for irrigation use of less than 13,233 acre-feet per year.

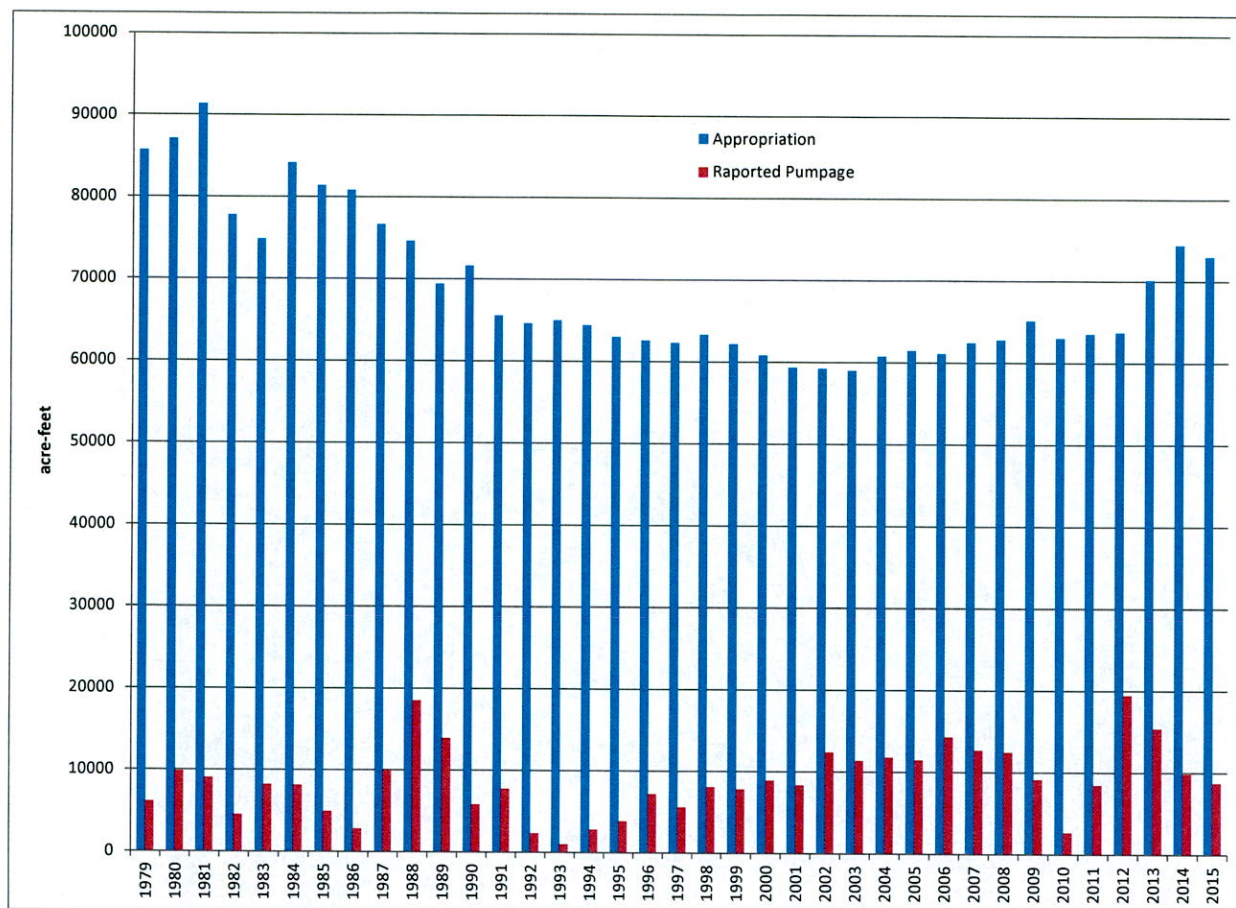


Figure 2: Irrigation pumping and appropriation from the Big Sioux: Brookings aquifer (Water Rights, 1980-2016)

The estimated total average annual withdrawal from the aquifer is less than 33,910 acre-feet per year. When compared to the estimated average annual recharge estimated from the recharge rate based on observation well data analysis by Hedges et al. (1985) of 107,000 acre-feet per year, estimated average annual recharge exceeds average annual withdrawals. Irrigation rates per permitted acre under Water Permit No. 7100-3 for the 2013-2015 range from 3.9 to 12.3 inches per permitted acre and averages 7.5 inches per permitted acre. Since the data range is limited, average irrigation use for this application, if approved, can be estimated at less than 63 acre-feet per year using an application rate of ten inches per acre. Therefore, there is a reasonable probability that water is available to meet the needs of this application.

Observation Wells

In determining the availability of unappropriated water for a permit application Administrative Rule 74:02:05:07 requires the Water Management Board to rely on the record of observation well measurements, in addition to other data, to determine that the quantity of water withdrawn annually from the aquifer does not exceed the estimated annual recharge.

The Water Rights Program monitors 80 observation wells completed in the Big Sioux: Brookings aquifer. The nearest is observation well HN-77C is located about 2.4 miles northwest of the well that this application proposes to utilize. The hydrograph for observation well HN-77C is shown in Figure 3 and the hydrographs for other nearby observation wells are shown in Figures 4, 5, and 6.

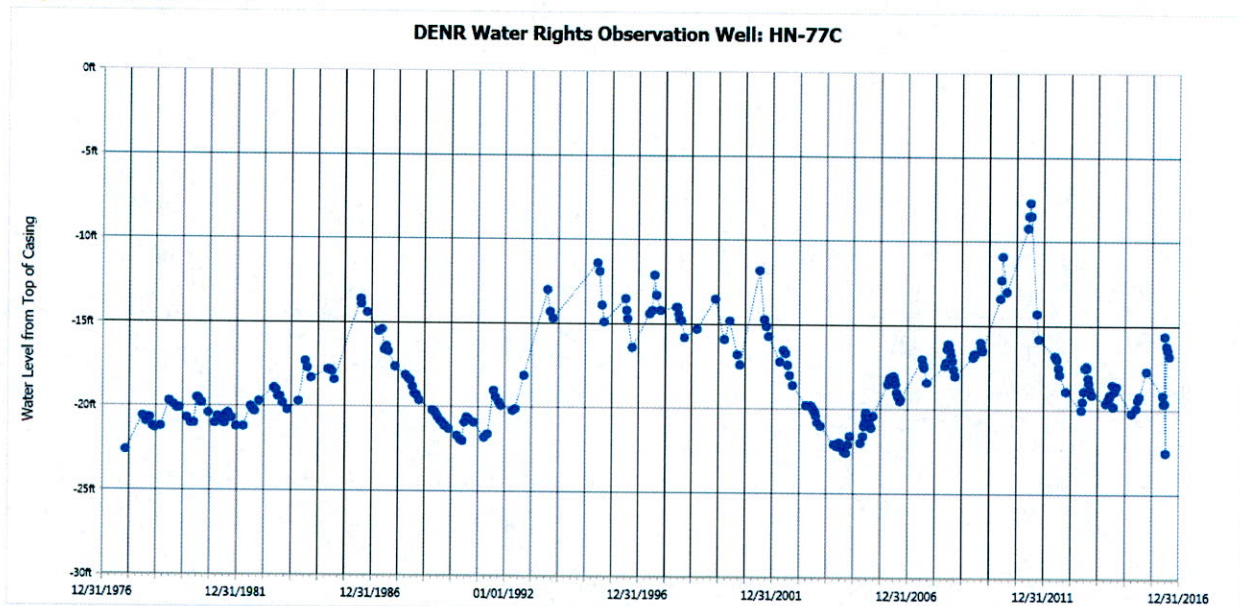


Figure 3: Water Rights Observation Well HN-77C located about 2.4 miles to the northwest (Water Rights, 2016b)

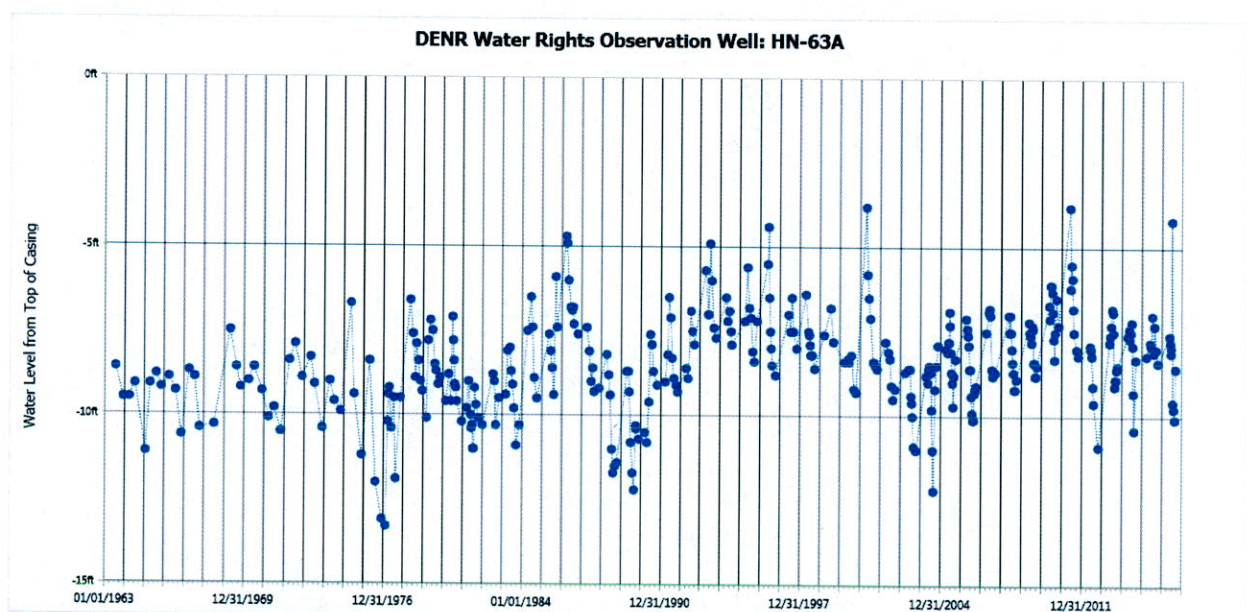


Figure 4: Water Rights Observation Well HN-63A located about 2.7 miles to the north northeast (Water Rights, 2016b)

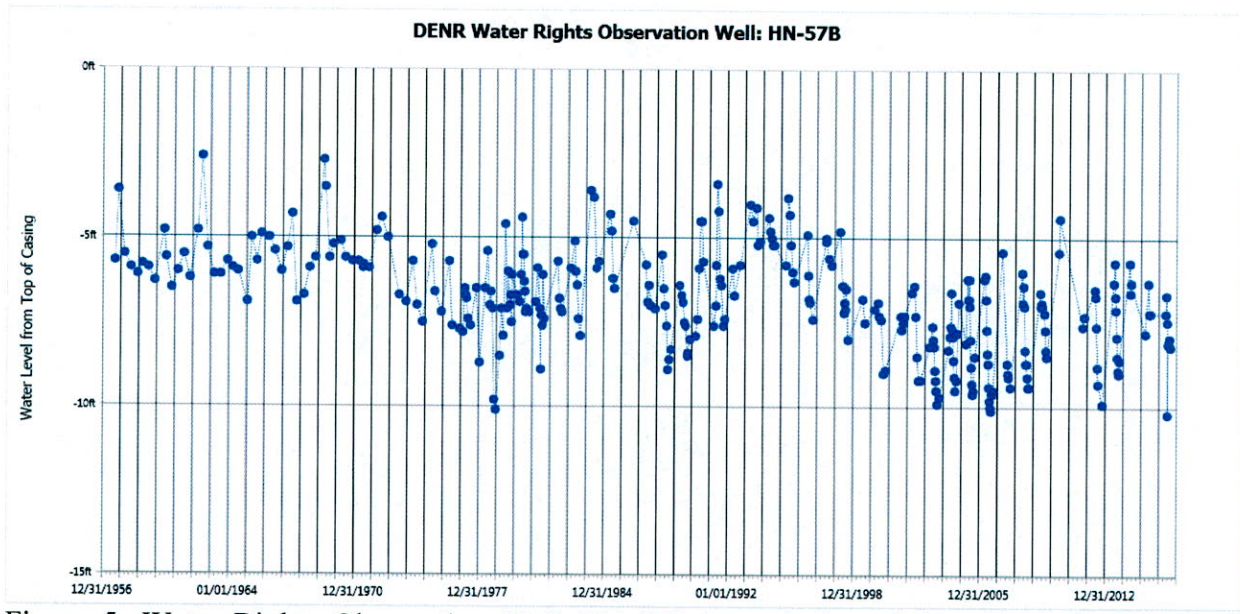


Figure 5: Water Rights Observation Well HN-57B located about 2.9 to the south southeast (Water Rights, 2016b)

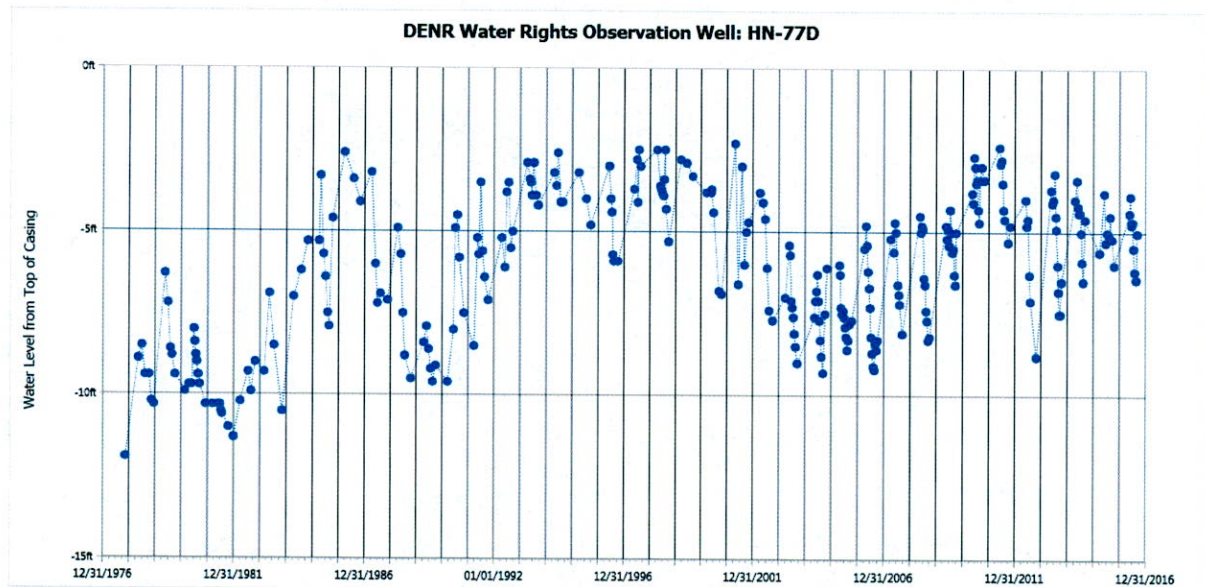


Figure 6: Water Rights Observation Well HN-77D located 3.1 miles southwest (Water Rights, 2016b)

Observation well water levels increase during wet periods and gradually decrease during dry periods. Observation wells in the Big Sioux: Brookings aquifer demonstrate that the aquifer responds well to climatic conditions, with the response of the aquifer to climatic conditions masking the temporal effects of well withdrawals. This indicates that natural conditions dominate the aquifer, indicating that recharge to and natural discharge from the aquifer exceed pumping. Since natural discharge from an aquifer can be captured for pumping, there is a reasonable probability that unappropriated water is available.

Existing Water Rights/Permits

The approximate location of diversion points for water rights/permits completed into the Big Sioux: Brookings aquifer in the area of this well are shown in Figure 7. The water rights/permits shown in Figure 7 are summarized in Table 1. Water Right Nos. 5620-3, 2172-3, and Water Permit No. 7928-3 are located within approximately one-half mile of the well that this application proposes to utilize. There are several domestic well completion reports on file with the SDDENR-Water Rights Program within one mile of the well location for this application, most of which appear to be completed into this aquifer.

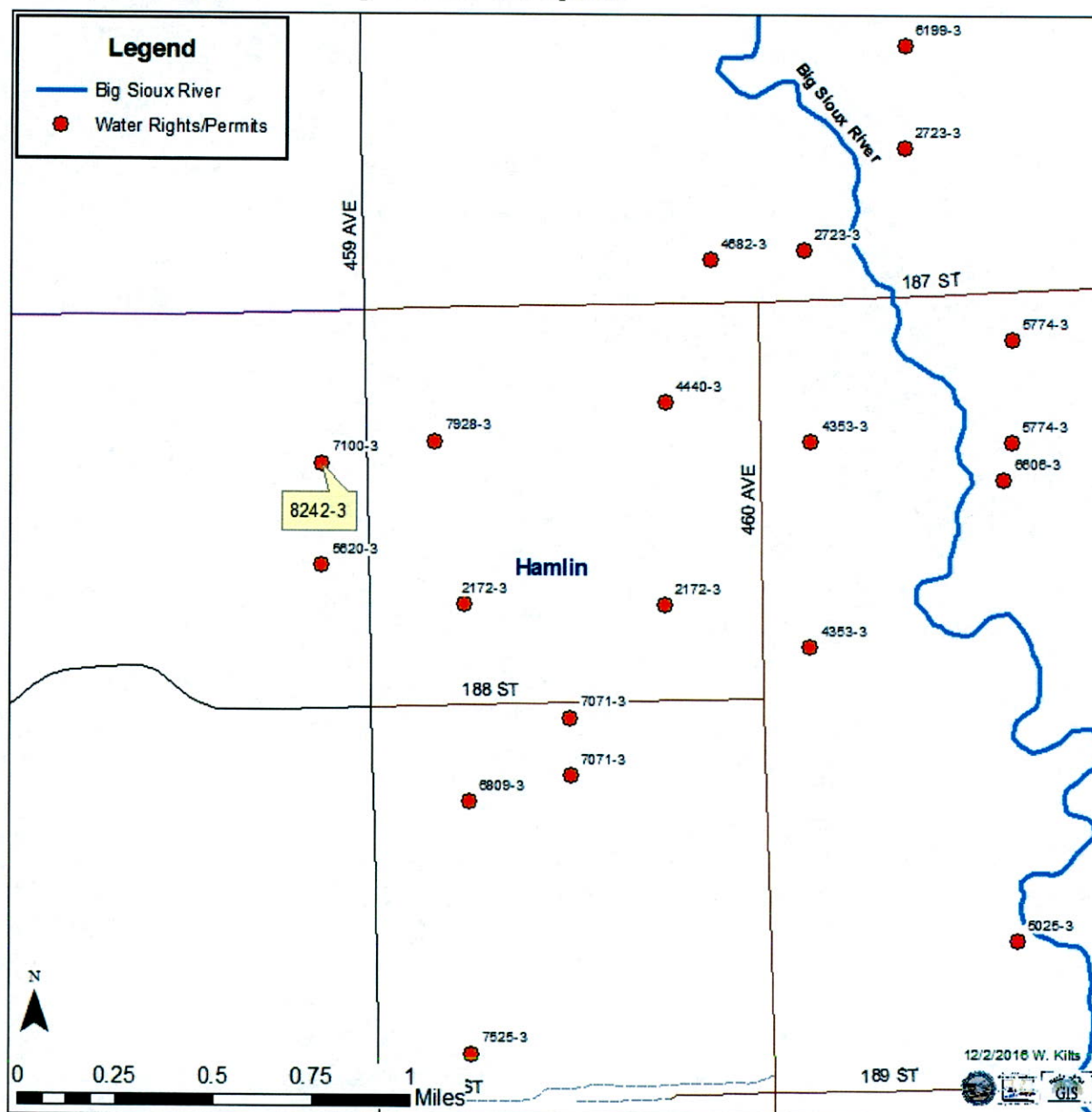


Figure 7: Location of water rights/permits in the area of the well that this application proposes to utilize (Water Rights, 2016a)

Table 1: Summary of Water Right/Permits show in Figure 7 (Water Rights, 2016a)

Permit No.	Name	Status	Use	Rate (cfs)	Acres
7100-3	BRADLEY JONGELING	PE	IRR	2	80
7525-3	BRAD JONGELING	PE	IRR	1.78	140
7071-3	JERRY KIIHL	LC	IRR	1.45	270
5025-3	DARREL JONGELING	LC	IRR	1.5	149
6606-3	CLAREMONT HTTRN BRETHERN	LC	IRR	1.67	132
4682-3	RANDY H HANSON	LC	IRR	1.71	125
5620-3	RANDY H HANSON	LC	IRR	1.77	126
4440-3	RANDY H HANSON	LC	IRR	1.78	131
6199-3	RANDY HANSON	LC	IRR	1.78	108
6809-3	WALSETH-PURCELL PARTNERSHIP	LC	IRR	1.78	140
7928-3	KEVIN KANNAS	LC	IRR	1.78	136
2723-3	WAYNE JANSSEN	LC	IRR	2	140
4353-3	CLAREMONT HTTRN BRETHERN	LC	IRR	2.7	188
5774-3	CLAREMONT HTTRN BRETHERN	LC	IRR	3.12	465
2172-3	RANDY H HANSON	LC	IRR	3.56	264

PE=water permit, LC=water right, and IRR=irrigation

Although if this application is approved it would not authorize any increase in the maximum diversion rate authorized by Water Permit No. 7100-3, the irrigation of additional acres will result in an increase in the volume of water utilized by this permit. Utilizing the application rate of ten inches per acre the average annual water use from this well as a result of this application, if approved, would increase from an estimated 67 acre-feet per year to an estimated 130 acre-feet per year. Over a 185 day irrigation season this would result in an estimated change in average diversion rate over the irrigation season from 0.18 cfs to 0.35 cfs, an increase in estimated average diversion rate of 0.17 cfs. Koch (1980) documents transmissivities for the Big Sioux aquifer ranging from 13,000 to 43,000 ft² per day. Even at the low end of this transmissivity range the increase, in drawdown near the well site associated with an increase in average diversion rate of 0.17 cfs would be expected to be relatively insignificant.

In the past, the Water Management Board has recognized that to place water to maximum beneficial use, a certain amount of drawdown may occur. Since the aquifer is under unconfined conditions, drawdown due to pumping would not be expected to be significant far from the well site. Additionally, Hamilton (1989) notes that, "Effects of withdrawals from wells that tap the Big Sioux aquifer generally are small because of extensive recharge and unconfined conditions. Drawdown of water levels is temporary and a few feet at most at distances of about a mile from large-capacity wells." Additionally any increase in drawdown as a result of the increased annual volume of water used for the irrigation of additional acres is not expected to be significant. The SD Well Construction Standards have defined 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." Furthermore, observation wells HN-77D, HN-57B, and HN-63A are all within one mile of at least one or more high capacity irrigation wells, and their hydrographs show climatic conditions masking the impacts of pumping indicating that the irrigation of additional acres would not be expected to adversely impact nearby adequate wells. Therefore, nearby adequate wells are not expected to be adversely impacted by the irrigation of the proposed additional acreage.

The Big Sioux: Brookings aquifer is a relatively thin aquifer with a limited amount of water in storage. While the average annual withdrawal would not exceed average annual recharge to the aquifer, conditions may occur when the withdrawal exceeds recharge. When this occurs, water will be removed from storage, consequently reducing the saturated thickness of the aquifer. If the saturated thickness is reduced to the extent that the water rights/permits can no longer pump at their developed or "historically established" rates, this may be considered an adverse impact.

Conclusions

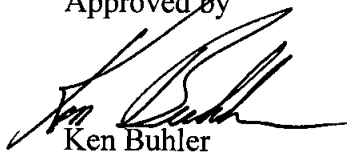
1. Water Permit Application No. 8242-3 proposes the irrigation of 76 acres in the W ½ NE ¼ Section 23-T114N-R52W using an existing well authorized under Water Permit No. 7100-3 with no increase in the diversion rate authorized under Water Permit No. 7100-3.
2. There is a reasonable probability that there is unappropriated water available to meet the request of this application.
3. There is a reasonable probability that this application if approve will not adversely impact existing water rights/permits.



Whitney Kilts

SDDENR-Water Rights Program

Approved by



Ken Buhler

SDDENR-Water Rights Program

Resources

- Drinking Water Program. 2015. Drinking Water System Information. South Dakota Department of Environment and Natural Resources. <http://denr.sd.gov/des/dw/sysinfomap.aspx>. Accessed: Dec. 1, 2016.
- Duffield. G. Transmissivity from Specific Capacity. Accessed Dec. 5, 2016. <http://aqtesolv.com/forum/transcap.asp>
- Friedeman, B. 2016. Environmental Scientist. SDDENR-Drinking Water Program, Pierre, SD. Personal Communication. Dec 1, 2016.
- Hamilton, L. 1989. Water Resources of Brookings and Kingsbury Counties, South Dakota. USGS, Huron, SD.
- Hansen, D. S. 1988. Appraisal of Water Resources of the Big Sioux Aquifer, Moody County, South Dakota. USGS, Huron, SD.
- Hedges, L.S., Burch, S. L., Iles, D. L., Barari, R. A., and Schoon, R. A. 1982. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota, and Iowa. Task 3: Ground-Water Storage. 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. U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
- Koch, N. C. 1980. Appraisal of the Water Resources of the Big Sioux Aquifer, Brookings, Deuel and Hamlin Counties, South Dakota. USGS, Huron, SD.
- Kume, J. 1985. Water Resources of Deuel and Hamlin Counties, South Dakota. USGS, Huron, SD.
- Stonesifer, J. 2013. Report to the Chief Engineer Water Permit Application 7854-3. SD DENR-Water Rights Program, Joe Foss Building, Pierre, South Dakota.
- Water Rights. 1980-2016. "1979-2015 Irrigation Summaries by Aquifer": SD DENR-Water Rights Program, Joe Foss Building, Pierre, South Dakota.
- Water Rights. 2016a. Water Right/Permit Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2016b. Water Rights Program Observation Well Files. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

Water Rights Program. 2016. Well Completion Reports Database. South Dakota Department of Environment and Natural Resources.

<http://arcgis.sd.gov/server/denr/wellLogs/default.aspx>. Retrieved Dec. 2016.

RECEIVED

DEC 21 2016

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Codington) SS

I, Moncia K. Saathoff

certify that the attached printed Notice was taken

from the Watertown Public Opinion

printed and published in Watertown

County of Codington and

state of South Dakota. The notice was published

in the newspaper on the following date:

December 14th, 2016

Cost of Printing \$55.41

Monica K. Saathoff
(Signature)

Bookkeeper

(Title)

December 14th, 2016

(Date Signed)

DEPARTMENT
OF
ENVIRONMENT
AND NATURAL
RESOURCES

NOTICE OF APPLICATION NO.

8242-3 to Appropriate Water
Notice is given that Bradley and Shelly Jongeling, 18995 461st Ave, Castlewood SD 57234 have filed an application for a water permit to irrigate 76 acres from the existing well authorized by Water Permit No. 7100-3. Water Permit No. 7100-3 appropriates 2.0 cubic feet of water per second (cfs) from one existing well completed into the Big Sioux-Brookings Aquifer (70 feet deep) located in the SE 1/4 NE 1/4 Section 23 for irrigation of 80 acres located in the E 1/2 NE 1/4 Section 23; all in T114N-R52W. Application No. 8242-3 proposes to irrigate 76 additional acres located in the W 1/2 NE 1/4 of this section. If approved, the center pivot will make a full rotation in the NE 1/4 of Section 23. Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8242-3 with qualifications 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. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below. 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 December 28, 2016.

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.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. 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.

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

Published once at an approximate cost of \$50.40.

(December 14, 2016)

All legal notices in the Public Opinion and other South Dakota newspapers can be found at sdpublicnotices.com

RECEIVED

DEC 16 2016

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of Hamlin) SS

I, LeeAnne Dufek

certify that the attached printed Notice was taken

from the The Hamlin

County Republican

printed and published in Castnewood

County of Hamlin and

state of South Dakota. The notice was published

in the newspaper on the following date:

Dec. 14, 2016

Cost of Printing \$ 27.97

LeeAnne Dufek
(Signature)

Owner
(Title)

12-14-16
(Date Signed)

NOTICE OF APPLICATION
NO. 8242-3 TO
APPROPRIATE WATER

Notice is given that Bradley and Shelly Jongeling, 18995 461st Ave, Castlewood SD 57234 have filed an application for a water permit to irrigate 76 acres from the existing well authorized by Water Permit No. 7100-3. Water Permit No. 7100-3 appropriates 2.0 cubic feet of water per second (cfs) from one existing well completed into the Big Sioux:Brookings Aquifer (70 feet deep) located in the SE 1/4 NE 1/4 Section 23 for irrigation of 80 acres located in the E 1/2 NE 1/4 Section 23; all in T114N-R52W. Application No. 8242-3 proposes to irrigate 76 additional acres located in the W 1/2 NE 1/4 of this section. If approved, the center pivot will make a full rotation in the NE 1/4 of Section 23.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8242-3 with qualifications 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. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

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 December 26, 2016.

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.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. 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.

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

Published Dec. 14, 2016, at total cost of \$27.97.

Schlaak, Karen

From: Schlaak, Karen
Sent: Wednesday, December 07, 2016 2:40 PM
To: legals@thepublicopinion.com
Subject: 8242-3, Bradley and Shelly Jongeling
Attachments: 8242-3public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on December 14, 2016.

Bradley and Shelly Jongeling, 18995 461st Ave, Castlewood SD 57234 (605 873-2898 or cell 605 881-3432) have been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP.

Let me know if you have questions. Please acknowledge receipt of this email.

Karen Schlaak
Water Rights Program
523 E Capitol Ave
Pierre SD 57501
Phone: 605 773-3352

Schlaak, Karen

From: Schlaak, Karen
Sent: Wednesday, December 07, 2016 2:39 PM
To: Hamlin County Publishing (hcp@itctel.com)
Subject: 8242-3, Bradley and Shelly Jongeling
Attachments: 8242-3public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on December 14, 2016.

Bradley and Shelly Jongeling, 18995 461st Ave, Castlewood SD 57234 (605 873-2898 or cell 605 881-3432) have been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP.

Let me know if you have questions. Please acknowledge receipt of this email.

Karen Schlaak
Water Rights Program
523 E Capitol Ave
Pierre SD 57501
Phone: 605 773-3352

Instruction to Newspaper - Publish the Notice on December 14, 2016. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 8242-3 to Appropriate Water

Notice is given that Bradley and Shelly Jongeling, 18995 461st Ave, Castlewood SD 57234 have filed an application for a water permit to irrigate 76 acres from the existing well authorized by Water Permit No. 7100-3. Water Permit No. 7100-3 appropriates 2.0 cubic feet of water per second (cfs) from one existing well completed into the Big Sioux:Brookings Aquifer (70 feet deep) located in the SE 1/4 NE 1/4 Section 23 for irrigation of 80 acres located in the E 1/2 NE 1/4 Section 23; all in T114N-R52W. Application No. 8242-3 proposes to irrigate 76 additional acres located in the W 1/2 NE 1/4 of this section. If approved, the center pivot will make a full rotation in the NE 1/4 of Section 23.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8242-3 with qualifications 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. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

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 December 26, 2016.

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.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. 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.

Steven M. Pirner, Secretary, Department of Environment and Natural Resources. Published once at the total approximate cost of_____.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

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

December 7, 2016

Bradley and Shelly Jongeling
18995 461st Ave
Castlewood SD 57234

Dear Sir:

Water Permit Application No. 8242-3 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 Hamlin County Republican printed at Castlewood SD (Ph # 605-793-2293) and the Public Opinion printed at Watertown SD (Ph # 605-886-6901). 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.

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 8242-3 and 7100-3

I have this day, March 30, 2015, made a thorough examination of the water use system constructed by Bradley Jongeling holder of Permit No. 7100-3, bearing the priority of March 4, 2009 authorizing the diversion of 2.00 cu. ft. per second of the waters of Big Sioux Brookings aquifer for irrigation purposes, in Hamlin County. Permit No. 8242-3 held by Bradley and Shelly Jongeling, bearing a priority date of October 11, 2016, authorizes irrigation of additional acres using the same irrigation system.

Inspection contact & relationship **Brad and Ron Jongeling**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Kaiser Well Drilling
- 2) No. of Wells 1
- 3) Depth(s) 70 feet
- 4) Well logs are available Yes

Casing:

- 1) Diameter 16 inches
- 2) Length 43 feet
- 3) Type Plastic

Screen:

- 1) Type Manufactured
- 2) Length 27 feet
- 3) Static water level 8 feet

Motor/Pump:

- 1) Make submersible
- 2) Model unknown
- 3) Capacity 800 GPM

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

- 1) Type PVC
- 2) Size 8 inches
- 3) Length 1,750 feet

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Valley
- 2) Number of towers 7
- 3) End gun Yes
- 4) Capacity 800 GPM @ 30 PSI

Chemigation Equipment:

- 1) Does chemigate No

D. Compliance with Permit Requirements:

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

E. Condition and Location:

1. The system is in good condition with the point of diversion located as follows: Well : approx. 100 feet west and 2,550 feet south (SE1/4 NE1/4 – longitude -97.02740, latitude 44.66692 from NE corner section 23-T114N-R52W.
2. The works are capable of diverting and conveying to the place of use 1.78 cu. ft. per second of water which is to be used for irrigation. Water has been and will be put to beneficial use to the maximum extent as follows: All in section 23-T114N-R52W

Permit No. 7100-3

NE1/4 NE1/4 – 34 acres

SE1/4 NE1/4 – 34 acres

Permit No. 8242-3

NW1/4 NE1/4 – 34 acres

SW1/4 NE1/4 – 34 acres

comprising a total of 136 acres of land and the license should be issued for 1.78 cfs.

3. All structures, wells and lands on map Yes

F. Comments or other permit(s) associated with the project:

Permit No. 7100-3 should be incorporated into Permit No. 8242-3 since it is one water use system. Bradley Jongeling indicated via phone on January 26, 2017, that combining the permits was OK and that the license including Shelly's name is appropriate even though No. 7100-3 was issued only in Bradley's name.



Ron Duvall

Water Rights Permitting Administrator
DENR, Water Rights Program

Date report completed: January 27, 2017

Scale: 1 inch = 512 feet

720

Feet



Completed by:

Ron Duvall

Ron Duvall, W.R. Permitting Administrator
SD DENR, Water Rights Program

Date: January 27, 2017

Diversion point(s) located using Garmin eTrex 10 GPS

**Water Right No. 8242-3
incorporate No. 7100-3**

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 8242-3**

(1) Bradley & Shelly Jongeling, 18995 461st Ave, Estelline SD 57234 made Application No. 8242-3, October 11, 2016 for a water permit to irrigate an additional 76 acres using the existing well authorized under Water Permit No. 7100-3. The project is located in Hamlin County, South Dakota. Permit No. 8242-3, with a priority date of October 11, 1976 was approved December 26, 2016 and issued to the applicants for diversion of water with construction of the described water supply system and the application to beneficial use of said water completed.

Water Permit No. 7100-3, with a priority date of March 4, 2009, authorizes diversion of 2.00 cubic feet of water per second from one well completed into the Big Sioux Brookings Aquifer for irrigation of 80 acres located in the E $\frac{1}{2}$ NE $\frac{1}{4}$ Section 23, T114N, R52W. The approval of Water Permit No. 8242-3, authorizing irrigation of the W $\frac{1}{2}$ NE $\frac{1}{4}$ Section 23, T114N, R52W allows the center pivot to make a full rotation within the NE $\frac{1}{4}$.

The applicable portions of Water Permit No. 7100-3 have been incorporated into Water License No. 8242-3.

(2) It is certified that the permit holders have complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and are entitled to divert 1.78 cubic feet of water per second for beneficial use. The location of the diversion point is approximately 100 feet west and 2,550 feet south of the NE corner of Section 23, T114N, R52W (SE $\frac{1}{4}$ NE $\frac{1}{4}$).

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

Section 23, T114N, R51W	NE $\frac{1}{4}$ NE $\frac{1}{4}$	34 acres	March 4, 2009 priority date (7100-3)
	SE $\frac{1}{4}$ NE $\frac{1}{4}$	34 acres	March 4, 2009 priority date (7100-3)
	NW $\frac{1}{4}$ NE $\frac{1}{4}$	34 acres	October 11, 2016 priority date (8242-3)
	SW $\frac{1}{4}$ NE $\frac{1}{4}$	<u>34 acres</u>	October 11, 2016 priority date (8242-3)
	Total	136 acres	

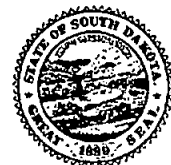
(4) Pursuant to South Dakota Water Law 46-5-30.1 Bradley & Shelly Jongeling, 18995 461st Ave, Estelline SD 57234 the holders and/or owners of Incorporated Water Right No. 8242-3 are issued a license to appropriate water, the right to use 1.78 cubic feet of water per second from ground water (one well – Big Sioux Brookings Aquifer) with priority dates of March 4, 2009 (E $\frac{1}{2}$ NE $\frac{1}{4}$) & October 11, 2016 (W $\frac{1}{2}$ NE $\frac{1}{4}$) 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. 8242-3 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.
- 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

JAN 30 2017
date





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

JAN 30 2017

7100-3
8242-3

Bradley and Shelly Jongeling
18995 461st Ave
Estelline SD 57234

Dear Mr. & Mrs. Jongeling:

Enclosed are Water Permit and Water License No. 8242-3. The applicable portions of Water Permit No. 7100-3 were incorporated in the water license. 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 the owner of an existing well, such as the well authorized by Water Right No. 8242-3, 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