

WATER PERMIT NO. 7525-3

Name of Applicant: **Brad Jongeling**

Address: **18995 461st Ave, Estelline SD 57234** Phone: **873-2898**

Amount of Water Claimed: **1.78 cfs** Total Acres: **140**

Source of Water Supply: **groundwater (two wells)**

Water to be used for: **irrigation** County: **Hamlin**

Type of Waste Disposal System:

Location: **6 miles northeast of Estelline**

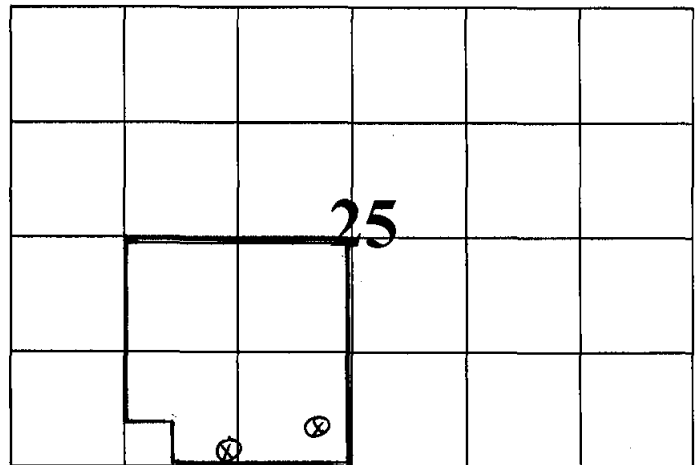
PRIORITY Date Received: **11-21-2012** Application/License Fee: **\$ 1050**

Corrected Application Received: Period of Annual Use: **May 1 – September 30**

Remarks:

Diversion Point: **S 1/2 SW 1/4 Sec 25-T114N-R52W**

Land to be Irrigated: **SW 1/4 Sec 25-T114N-R52W**



Depth of Well: **32 feet deep**

Well Driller: **Kaiser Well Drilling**

Remarks:

Type of Map: **aerial**

Prepared by:

Reviewed and the Number Assigned on: **11-21-12**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

FORM 2: Application for irrigation in South Dakota
(type or print)

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>7525-3</u>	(office use only) Hydrologic Unit <u>10170202</u>
	Basin <u>Sioux River</u>	<u>605-873-2475</u>
	Newspaper <u>Estelline Journal Box 159-57234</u>	<u>605-886-6901</u>
	<u>Public Opinion Box 10 Watertown 57201</u>	

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NOV 21 2012
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 to Appear on Irrigation Permit Brad Jangeling
(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent _____
(name and complete address if different than above name)
- Mailing Address 18995 461st Ave Estelline SD 57234
(Address) (City) (State) (Zip Code)
- Home Phone 813-2898 Cell _____ Email _____
2. Amount of water claimed 1.78 *CFS or 800 **GPM ***AF Total Acreage 140
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply New Well or wells
4. Location of point of diversion 1 or 2 new wells in the SW 1/4 Sec 25 township
(example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W)
114N Range 52W County Hamlin
5. County or counties where water will be used Hamlin CO
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
NE 1/2 of SW 1/4 Sec 25	38	T-114 R-52	
NE 1/2 of the SW 1/4 Sec 25	38		
SW 1/4 of the SW 1/4 Sec 25	28		
SE 1/4 of the SW 1/4 Sec 25	38		

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

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

**SOUTH DAKOTA
WATER PERMIT NO. 7525-3**

Date of first receipt of application November 21, 2012.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7525-3 to Brad 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. 7525-3 appropriates 1.78 cubic feet of water per second from two wells to be completed into the Big Sioux:Brookings Aquifer (32 feet deep) located in S 1/2 SW 1/4 Section 25 for irrigation of 140 acres located in the SW 1/4 Section 25; all in T114N-R52W.
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 November 21, 2012.
4. The date of approval of Permit No. 7525-3 is February 11, 2013.
5. One-fifth of the construction is to be completed on or before August 11, 2015.
6. All construction is to be completed on or before February 11, 2018.
7. Water is to be put to beneficial use on or before February 11, 2022.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The 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. 7525-3 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

MAR 12 2013
date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 30" Depth 32
- b) Casing Type Steel Diameter 24" Thickness 5/16"
- c) Screen Type Schlosser stainless steel Diameter 24" Thickness 5/8"
- d) Gravel Pack 1/4" x 3/8" & flint Length of Gravel Pack 10'
- e) Depth to Top of Water Bearing Material 10'
- f) Depth to Water (ground surface to water level) 6'
- g) Distance to nearest existing domestic well:
- On applicants property none On property owned by others 1500'

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 _____

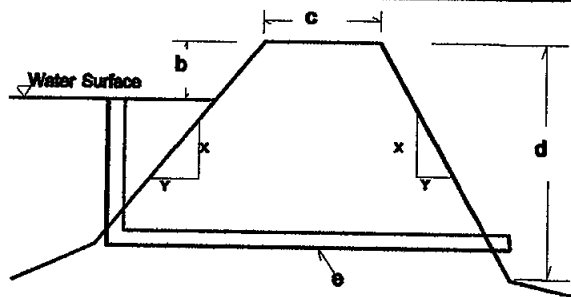
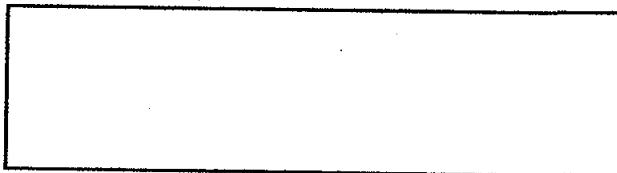
3. Dugout Information

- 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 _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres



PPLS: 25_114N_52W

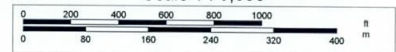
Data use subject to license.

© DeLorme. XMap® 7.

www.delorme.com



Scale 1 : 9,600



1" = 800.0 ft

Data Zoom 14-4

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW 1/4 SW 1/4 Sec 25 Twp 14N Rg 50W

County Hamlin

North

Please mark well location with an "X"

Well completion Date 10-20-12

Distance from nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.) 200 ft from run off drainage ditch (Identify source)

PROPOSED USE:

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

METHOD OF DRILLING:
Direct Rotary

CASING DATA: ☐ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type Groutwell No. of Sacks 5 Grout Weight 54 Lb/gal From 0 Ft To 29 Ft

DI Lb/gal Ft

Describe grouting procedure pressure pull method

SCREEN: ☐ Perforated pipe ☐ Manufactured

Diameter _____ Inches Length _____ Feet

Material _____

Slot Size _____ Set From _____ Feet to _____ 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? _____

Lab sample sent to for water quality analysis ☐ No, Why Not? _____

Well Owner: Brad Jonsson Jongeling

Business Name: _____

Address1: 8995 46th AVE

Address2: _____

City, State, Zip: Estelline SD 57234

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>TS</u>	<u>0</u>	<u>2</u>
<u>Sandy Clay</u>	<u>2</u>	<u>10</u>
<u>fine gray sand</u>	<u>10</u>	<u>18</u>
<u>Mediana to coarse sand</u>	<u>18</u>	<u>29</u>
<u>Black Clay</u>	<u>29</u>	<u>33</u>

STATIC WATER LEVEL 6 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 _____

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

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This well was drilled under license # 689

And this report is true and accurate.

Drilling firm: KWD

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: Brad Jonsson

Date: 10-23-2012

Please return White Copy to DENR Water Rights

523 E. Capitol Ave., Pierre SD 57501

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 11/21, 20 12

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>7525-3</u> 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. <u>7525-3</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	1050 00

No. **05708**

By

David E. Steele
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7525-3, Brad 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. 7525-3, Brad Jongeling, 18995 461st Avenue, Estelline SD 57234.

The Chief Engineer is recommending APPROVAL of Application No. 7525-3 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. 7525-3 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
January 24, 2013

**REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 7525-3
BRAD JONGELING
JANUARY 9, 2013**

Water Permit Application No. 7525-3 proposes to appropriate up to 280 acre-feet per year (ac-ft/yr) at a maximum diversion rate of 1.78 cubic feet of water per second (cfs) from two wells to be completed into the Brookings management unit of the Big Sioux aquifer. The wells are expected to be approximately 32 feet deep and are to be located in the S½ SW¼ of Section 25, T114N-R52W. This permit application proposes to irrigate 140 acres located in the SW¼ Section 25, T114N-R52W in Hamlin County.

AQUIFER: Brookings management unit of the Big Sioux aquifer (BS: B)

GEOLOGY AND AQUIFER CHARACTERISTICS:

The Big Sioux: Brookings is an alluvium mantled outwash consisting of well-sorted, permeable medium to coarse sand and fine to medium gravel that is generally under unconfined conditions near the Big Sioux River and can be confined elsewhere (Hamilton, 1989). The Brookings management unit of the Big Sioux aquifer extends from central Hamlin County, where it is differentiated from the North management unit of the aquifer, south into Brookings, then Moody County, where it is differentiated from the Moody management unit of the aquifer. The Big Sioux: Brookings also underlies portions of Kingsbury and Deuel Counties. In total, the Big Sioux: Brookings aquifer is estimated to underlie 191,100 acres and contain 642,230 acre-feet (ac-ft) of recoverable water in storage (Hedges and others, 1982). The aquifer is hydraulically connected to the Big Sioux River and water in the aquifer generally moves from north to south and locally towards the Big Sioux River (Hamilton, 1989).

Generally, the Big Sioux: Brookings aquifer is underlain by till and, when buried, overlain by alluvial silt and clay. In Hamlin and Deuel Counties, the water levels in the aquifer range from land surface to 18 feet below land surface. The water level is usually highest in the spring and lowest in the fall and is heavily dependent of yearly precipitation. The top of the aquifer is found between ground surface and 40 feet below ground surface, and the thickness ranges from 2 to 123 feet, with an average of 30 feet. Wells in the Big Sioux: Brookings aquifer could yield 50 to 1,000 gpm and the water withdrawn is generally suitable for irrigation (Kume, 1985).

From the test hole log submitted with this application, below two feet of top soil, sandy clay was encountered from two to ten feet below ground surface, fine sand from ten to 18 feet, medium to coarse gravel from 18 to 29 feet, and blue clay from 29 to 33 feet below ground surface. The October, 2012 static water level was six feet below ground surface.

SDCL 46-2A-9

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

the availability of unappropriated water and existing rights from the aquifer that are pertinent to this application.

WATER AVAILABILITY:

This application proposes to appropriate 280 ac-ft/yr from the Big Sioux: Brookings aquifer. If this application is approved, the actual water use will be less than the appropriation. The probability of unappropriated water available from an aquifer can be evaluated by considering SDCL 46-6-3.1, which requires "No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source."

WATER BALANCE:

Recharge:

Recharge to the Big Sioux: Brookings aquifer occurs due to infiltration of precipitation in areas where the aquifer is at or near land surface, seepage through till, lake deposits, and underlying aquifers, and inflow from the Big Sioux River during wet years (Hamilton, 1989; Kume, 1985).

Hedges and others (1985) estimated recharge of various management units of the Big Sioux aquifer using several methods and states that "recharge rates calculated using observation well data and computer models are generally in accord" and "management programs using these values should be acceptable." Therefore, recharge to the Big Sioux aquifer is estimated to range from 2.7 to 6.9 inches per year (in/yr). The recharge rate, based on observation well analysis, of the Brookings management unit is estimated to be 4.0 in/yr (Hedges and others, 1985).

Using this recharge rate and the total area of the aquifer, recharge to the Big Sioux: Brookings aquifer is estimated to equal 63,700 ac-ft/yr., equating to approximately 10 percent of recoverable water in storage. This is not to suggest that this entire volume of water is available anywhere in the aquifer, but demonstrates that in general the Big Sioux: Brookings aquifer is readily recharged.

Discharge:

Discharge from the aquifer may occur due to evapotranspiration in areas where the aquifer is at or near land surface, outflow to the the Big Sioux River during dry years, and well withdrawals (Kume, 1985). There are a total of 229 water rights/permits appropriating water and nine future use permits reserving water from the Big Sioux: Brookings aquifer for irrigation, municipal, commercial, industrial, geothermal, suburban housing development, and rural water systems use (Water Rights, 2013b). There are also pending water permit applications for the aquifer.

From the Big Sioux: Brookings, water rights/permits for non-irrigation use that are limited by an annual volume currently appropriate a total of 4,075 ac-ft/yr. Future use permits reserve a remaining total of 5,317 ac-ft/yr. Water rights/permits for non-irrigation use that are limited only by diversion rate currently authorize a total of 19.049 cfs. However, the municipalities of Bruce, Clear Lake, Estelline, and Hayti are now connected to rural water systems, and so, the associated water rights, which are all limited by diversion rate, totaling 4.570 cfs, are no longer expected to withdraw from the aquifer and are excluded from the hydrologic budget (Water Rights, 2013b).

The maximum amount of water that can be expected to be withdrawn by the non-irrigation use water rights/permits at the current appropriation amount can be estimated by assuming: 1) water rights/permits limited by an annual volume will pump the entire volume appropriated annually, 2) water rights/permits limited only by diversion rate will pump at the maximum permitted diversion rate at 60 percent of the time, and 3) future use permits can be fully developed. Consider also, some cities with municipal use water rights could be connected to rural water systems, and therefore, the associated water rights are no longer expected to withdraw from the aquifer. Therefore, the total annual withdrawal from the Big Sioux: Brookings aquifer by non-irrigation use is currently expected to total at maximum 15,700 ac-ft/yr (Water Rights, 2013b).

While the irrigation development of the aquifer over the period of record, 1979 to 2011, has remained fairly constant, the annual withdrawal from the Big Sioux: Brookings aquifer fluctuates, probably mostly due to annual growing season climatic conditions. Over the period of record, the average pumpage reported equals 8,379 ac-ft/yr. The maximum pumpage reported was 18,522 ac-ft/yr and the minimum reported was 1,043 ac-ft/yr (Water Rights, 1979-2011).

In addition, there are many domestic wells on file with the SD DENR-Water Rights Program that appear to be completed into the Big Sioux: Brookings aquifer (Water Rights, 2013c). The annual withdrawal due to domestic use is not significant to the hydrologic budget of the aquifer. Consider also that many of these domestic wells are no longer in use due to users connecting to local rural water systems.

Hydrologic Budget:

The annual discharge from the Big Sioux: Brookings aquifer due to well withdrawal is estimated to be at maximum 34,200 ac-ft/yr, but the actual annual pumpage will often be much less. While SDCL 46-6-3.1 applies to average withdrawal versus average recharge, using potential maximum annual withdrawal creates the most conservative estimate. This potential maximum annual withdrawal is much less than the estimated annual recharge of 63,700 ac-ft/yr. Therefore, there is a reasonable probability that unappropriated water is available from the Big Sioux: Brookings aquifer for the proposed appropriation of 280 ac-ft/yr.

While the Big Sioux: Brookings aquifer generally readily recharges, a small portion of the aquifer is considered fully appropriated due to its isolated condition. The proposed well site is not located within or near the boundaries of the fully appropriated area.

OBSERVATION WELL DATA:

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

The SD DENR-Water Rights Program monitors 80 observation wells completed into the Big Sioux: Brookings aquifer. The five nearest observation wells to the proposed well sites are described in Table 1 and shown in Figures 1, 2, 3, 4, and 5 (Water Rights, 2013a).

Table 1: Description of five nearest observation wells to the proposed well sites

Observation well	Location from proposed well sites	Hydrograph
HN-77E	2.5 miles east	Figure 1
HN-57B	1.25 miles southeast	Figure 2
HN-77D	3.5 miles west	Figure 3
HN-77C	4 miles northwest	Figure 4
HN-63A	4 miles north-northwest	Figure 5

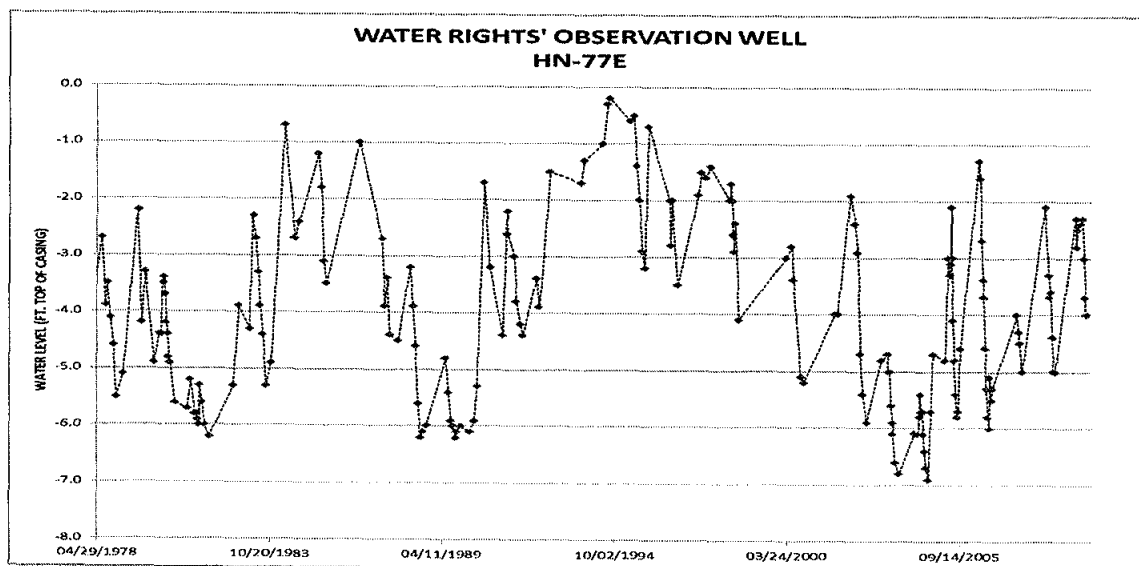


Figure 1: Hydrograph for SD DENR-Water Rights' observation well HN-77E (Water Rights, 2013a)

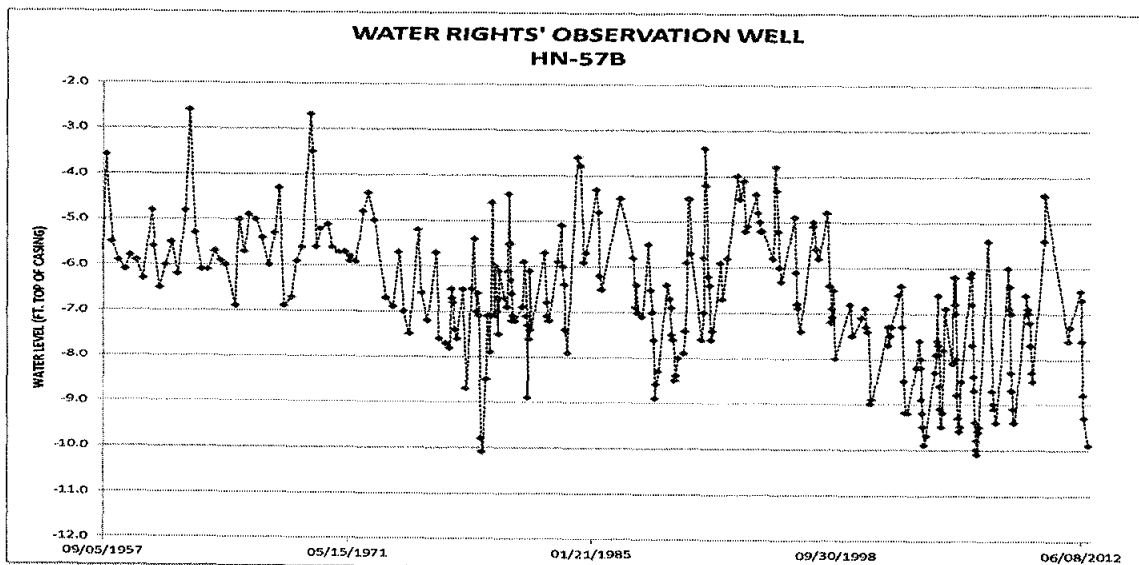


Figure 2: Hydrograph for SD DENR-Water Rights' observation well HN-57B (Water Rights, 2013a)

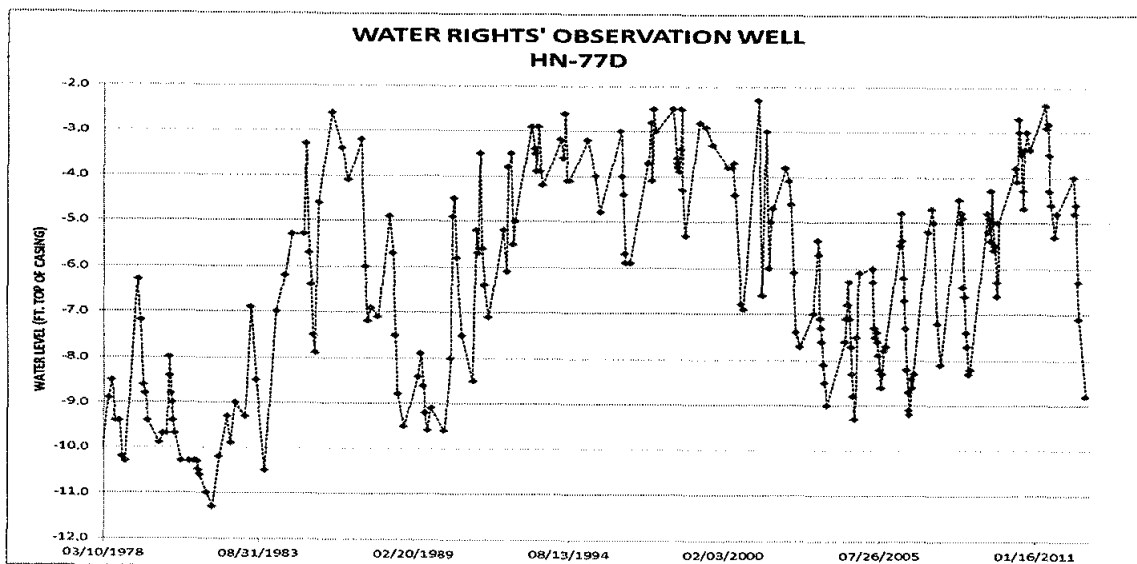


Figure 3: Hydrograph for SD DENR-Water Rights' observation well HN-77D (Water Rights, 2013a)

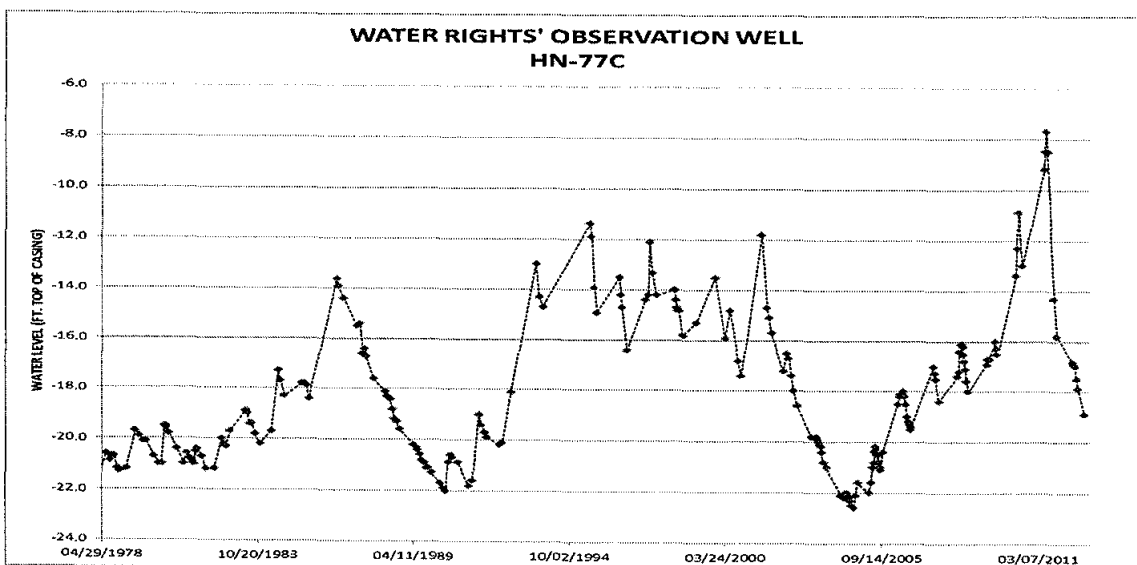


Figure 4: Hydrograph for SD DENR-Water Rights' observation well HN-77C (Water Rights, 2013a)

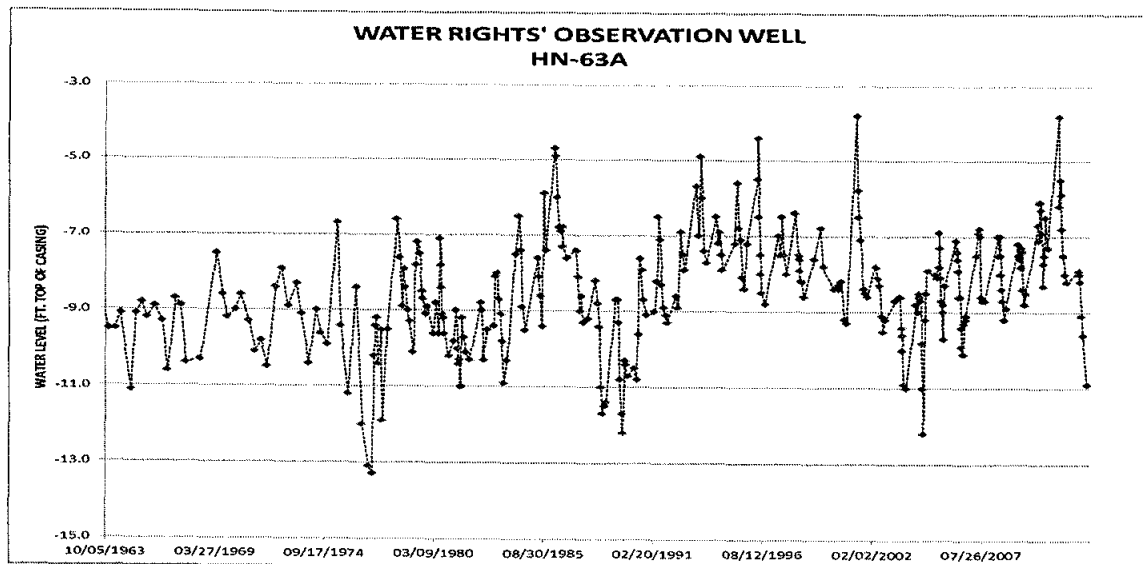


Figure 5: Hydrograph for SD DENR-Water Rights' observation well HN-63A (Water Rights, 2013a)

The observation well data documents cyclic conditions of water levels, recharging during wet years and declining during dry years. Note that water levels in these observation wells declined recently, due to the recent dry year; however, these levels are not abnormally low for the aquifer over the period of record. The hydrographs also show the effects of nearby pumping on the aquifer. This data documents that, at the current level of development, temporal well withdrawal is masked by climatic conditions. Therefore, recharge to and natural discharge from the aquifer greatly exceeds well withdrawal, indicating that unappropriated water is available from this area of the Big Sioux: Brookings aquifer to support the proposed appropriation of 280 ac-ft/yr at the proposed well sites.

EXISTING WATER RIGHTS:

There are 19 water rights/permits appropriating water from the Big Sioux: Brookings aquifer within two miles of the proposed well sites (Water Rights, 2013b). In addition, there are several domestic wells on record with the SD DENR-Water Rights Program within two miles of the proposed well sites that appear to be completed into the Big Sioux: Brookings aquifer (Water Rights, 2013c). The nearest well, authorized to Water Right No. 7071-3 Jerry Kiihl, is located approximately one quarter mile east of the proposed well sites.

The water table conditions of the aquifer in this area dictate that drawdown due to pumping would probably not extend far from the proposed well sites. Considering that the Water Management Board has consistently recognized that to place water to maximum beneficial use a certain amount of drawdown may occur, a nearby adequate well defined by ARSD 74:02:20(7), which states that the pump intake must be set 20 feet below the top of the aquifer or, if the aquifer is less than 20 feet thick, as near to the bottom of the aquifer as is practical, is not expected to be adversely or unlawfully impaired.

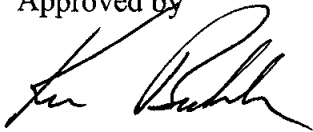
CONCLUSIONS:

1. The application proposes to appropriate 280 ac-ft/yr for irrigation from two wells. However, the actual water use will likely be less than the appropriation.
2. There is a reasonable probability that unappropriated water is available from the Big Sioux: Brookings aquifer to supply the proposed appropriation.
3. There is a reasonable probability that this proposed well will not adversely or unlawfully impair existing nearby wells.



Joseph R Stonesifer
SD DENR-Water Rights Program

Approved by



Ken Buhler
SD DENR-Water Rights Program

REFERENCES:

- Hamilton, L.J. 1989, Water Resources of Brookings and Kingsbury Counties, South Dakota: U.S. Geological Survey Water-Resources Investigations Report 88-4185, 82 p.
- 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 1: Bedrock Topography and Distribution, Task 2: Extent of Aquifers, Task 3: Ground-Water Storage, Task 4: Computerized Data Base, Final Report. U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
- Hedges, L.S., Allen, J., and Holly, D.E. 1985. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa. Task 7: Ground Water Recharge. South Dakota DENR-Geological Survey, Vermillion, SD.
- Kume, J. 1985. Water Resources of Deuel and Hamlin Counties, South Dakota. Water-Resources Investigations Report 84-4069. USGS, Huron SD.
- Water Rights. 1979-2011. "Annual Irrigation Summary by Aquifer": SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, SD.
- Water Rights. 2013a. Observation Well Files, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2013b. Water Right/Permit Files, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2013c. Water Well Completion Reports, SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.

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FEB - 4 2013

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 Estelline Journal

printed and published in Estelline

County of Hamlin and

state of South Dakota. The notice was
published

in the newspaper on the following date:

Jan. 30, 2013

Cost of Printing \$ 22.77

LeeAnne Dufek
(Signature)

Publisher
(Title)

2-1-13
(Date Signed)

NOTICE OF APPLICATION
NO. 7525-3 TO
APPROPRIATE WATER

Notice is given that Brad Jongeling, 18995 461st Ave., Estelline, SD 57234 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from two wells to be completed into the Big Sioux Brookings Aquifer (32 feet deep) located in S 1/2 SW 1/4 Section 25 for irrigation of 140 acres located in the SW 1/4 Section 25; all in T114N-R52W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7525-3 because, 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by February 11, 2013.

The petition may be informal but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application.

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

RECEIVED

FEB - 4 2013

Form 8

WATER RIGHTS
PROGRAM

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Codington) SS

I, Monica 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:

January 30th, 2013

Cost of Printing 57.29

Monica K. Saathoff
(Signature)

Bookkeeper

(Title)

January 30th, 2013

(Date Signed)

DEPARTMENT
OF ENVIRON-
MENT AND
NATURAL
RESOURCES

NOTICE OF APPLICATION
NO. 7525-3 to Appropriate
Water

Notice is given that Brad Jongeling, 18995 461st Ave, Estelline SD 57234 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from two wells to be completed into the Big Sioux-Brookings Aquifer (32 feet deep) located in S 1/2 SW 1/4 Section 25 for irrigation of 140 acres located in the SW 1/4 Section 25; all in T114N-R52W.

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or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

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tioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Published once at the approximate cost of \$52.25. (January 30, 2013)

All legal notices in the Public Opinion and other South Dakota newspapers can be



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 24, 2013

Estelline Journal
PO Box 159
Estelline SD 57234

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7525-3 to Appropriate Water. Please publish the notice once on January 30, 2013. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published and arrange for payment. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Brad Jongeling, 18995 461st Ave., Estelline SD 57234 (Ph # 605-873-2898).

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

The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 24, 2013

Public Opinion
PO Box 10
Watertown SD 57201

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7525-3 to Appropriate Water. Please publish the notice once on January 30, 2013. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

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

January 24, 2013

Brad Jongeling
18995 461st Ave
Estelline SD 57234

Dear Mr. Jongeling:

Water Permit Application No. 7525-3 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 Estelline Journal printed at Estelline SD (Ph # 605-873-2475) 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.

Instruction to Newspaper - Publish the Notice on January 30, 2013. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 7525-3 to Appropriate Water

Notice is given that Brad Jongeling, 18995 461st Ave, Estelline SD 57234 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from two wells to be completed into the Big Sioux:Brookings Aquifer (32 feet deep) located in S 1/2 SW 1/4 Section 25 for irrigation of 140 acres located in the SW 1/4 Section 25; all in T114N-R52W.

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Published once at the total approximate cost of _____.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

MAR 12 2013

Brad Jongeling
18995 461st Ave
Estelline SD 57234

Dear Mr. Jongeling:

Enclosed is Water Permit No. 7525-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

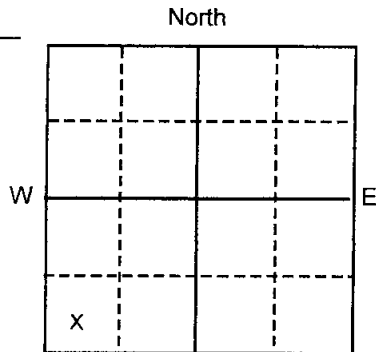
enclosures

7525-3

SD EForm - 1621LD V1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW ¼ SW ¼ Sec 25 Twp 114N Rg 52WCounty HAMLINPlease mark well
location with an "X"

Well Completion Date

7-1-2013

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
3,000.0 ft. from STATE WELL (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

BUCKET RIG

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
40.0 LB/FT	24.00 IN	0.0 FT	21.0 FT	36.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
GRTWELDF	32	54.0 Lb/gal	0.0 Ft	21.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

PRESSURE PULL

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 24.00 Inches Length 6.0 FeetMaterial STAINLESS STEELSlot Size .080 Set From 21.0 Feet to 27.0 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?

☐ No, Why Not?
Lab to which water
quality sample sent for analysisWell Owner: BRAD JONGELING

Business Name:

Address: 19423 467TH AVECity, State, Zip: ESTELLINE SD 57234-5604

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOP SOIL	0	2
SANDY CLAY	2	10
FINE GREY SAND	10	18
MED TO COURSE GRAVEL	18	27

STATIC WATER LEVEL 6.0 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

Pumping Level Below Land Surface

14.0 Ft. After 24.0 Hrs. pumped 400.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

JAN 31 2014

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:

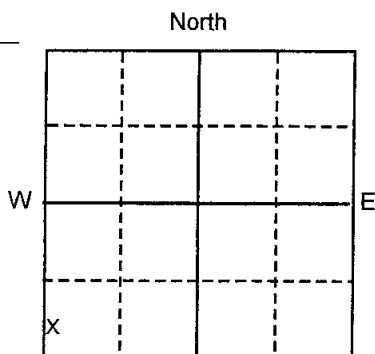
Date: _____

7525-3

SD EForm - 1621LD V1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW 1/4 SW 1/4 Sec 25 Twp 114N Rg 52WCounty HAMLINPlease mark well
location with an "X"

Well Completion Date

7-16-2013

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
2,500.0 ft. from STATE WELL (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

DRD

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
40.0 LB/FT	8.00 IN	0.0 FT	18.0 FT	14.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
GRTWELDF	10	54.0 Lb/gal	0.0 Ft	18.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

TREMIE PRESSURE PULL

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 8.00 Inches Length 10.0 FeetMaterial STAINLESS STEELSlot Size .080 Set From 18.0 Feet to 28.0 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?

☐ No, Why Not?
Lab to which water
quality sample sent for analysisWell Owner: BRAD JONGELING

Business Name:

Address: 19423 467TH AVECity, State, Zip: ESTELLINE SD 57234-5604

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOP SOIL	0	1
SANDY CLAY	1	6
YELLOW SAND	6	12
FINE-MED	12	28

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

Pumping Level Below Land Surface

16.0 Ft. After 24.0 Hrs. pumped 150.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

JAN 31 2014

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:

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7525-3

I have this day, March 30, 2015, made a thorough examination of the water use system constructed by Brad Jongeling of Permit No. 7525-3, bearing the priority of November 21, 2012 authorizing the diversion of 1.78 cu. ft. per second of the waters of Big Sioux Brookings aquifer for irrigation purposes, in Hamlin County.

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

A. Works used to divert the water:

Well Information:

Two wells (east and west)

- 1) Well Drilling Firm: Kaiser Well Drilling
- 2) No. of Wells 2
- 3) Depth(s) 27 (east), 28 (west) feet
- 4) Well logs are available Yes

Casing:

- 1) Diameter 24 (east), 8 (west) inches
- 2) Length 21 (east), 18 (west) feet
- 3) Type Plastic (both)

Screen:

- 1) Type Stainless steel (both)
- 2) Length 6 (east), 10 (west) feet
- 3) Static water level 6 (east), 8 (west) feet

Motor/Pump:

- 1) Make submersible (both)
- 2) Model unknown
- 3) Capacity 700 (combined) GPM

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

- 1) Type PVC
- 2) Size 8 inches
- 3) Length 2,100 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 700 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 Not applicable – construction period has not expired
- 3) Exceptions to compliance are: None

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: Well No. 2 (west well): approx. 40 feet north and 1,270 feet east (SW1/4 SW1/4 – longitude -97.02218, latitude 44.64497); Well No. 1 (east well): approx. 30 feet north and 1,930 feet east (SE1/4 SW1/4 – longitude -97.01966, latitude 44.64492) both from SW corner section 25-T114N-R52W.
2. The works are capable of diverting and conveying to the place of use 1.56 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows: All in section 25-T114N-R52W

NE1/4 SW1/4 – 31 acres
NW1/4 SW1/4 – 31 acres

SW1/4 SW1/4 – 15 acres
SE1/4 SW1/4 – 31 acres

comprising a total of 108 acres of land and the license should be issued for 1.54 cfs.

3. All structures, wells and lands on map Yes

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

None



Ron Duvall
Water Rights Permitting Administrator
DENR, Water Rights Program

Date report completed: January 19, 2017

Scale: 1 inch = 513 feet

730

Feet



Completed by:

Ron Duvall

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

Diversion point(s) located using Garmin eTrex 10 GPS

Date: January 19, 2017

Water Right No. 7525-3

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

Date

1/18/17

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

FROM:

Brad Jongeling
(name)18995 461st Ave
(address)Estelline SD 57234
(city, state, zip)

(phone)

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

Water Permit No. 7525-3 states that the water use system is to be constructed by

2/11/18
(date)

, and water is to be put to beneficial use by

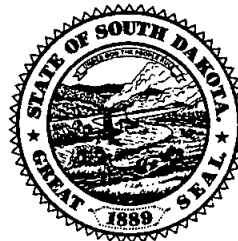
2/11/22
(date)

The water use system was completed on 2013
(date)

Applying the water to beneficial use was completed on 2013
(date)

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

Brad Jongeling
(signature)





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

FEB 06 2017

7525-3

Brad Jongeling
18995 461st Ave
Estelline SD 57234

Dear Mr. Jongeling:

Enclosed is Water License No. 7525-3. 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 the owner of an existing well, such as the well authorized by Water Right No. 7525-3, 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

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 7525-3

(1) Brad Jongeling, 18995 461st Ave, Estelline SD 57234 made Application No. 7525-3, November 21, 2012 for a water permit to divert 1.78 cubic feet of water per second from ground water, two wells (Big Sioux Brookings Aquifer), Hamlin County, South Dakota for irrigation purposes. Permit No. 7525-3, with a priority date of November 21, 2012 was approved February 11, 2013 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before February 11, 2018 and for the application to beneficial use of said water on or before February 11, 2022.

The Permit holder submitted a "*Notice of Completion of Works and Application of Water to Beneficial Use*". The "*Notice*" stated the water use system was completed and water placed to beneficial use in 2013.

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

- **west well:** 40'N and 1,270'E of the SW corner of Section 25, T114N, R52W(SW $\frac{1}{4}$ SW $\frac{1}{4}$);
- **east well:** 30'N and 1,930'E of the SW corner of Section 25, T114N, R52W (SE $\frac{1}{4}$ SW $\frac{1}{4}$)

(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 25, T114N, R52W	NE $\frac{1}{4}$ SW $\frac{1}{4}$	31 acres
	NW $\frac{1}{4}$ SW $\frac{1}{4}$	31 acres
	SW $\frac{1}{4}$ SW $\frac{1}{4}$	15 acres
	SE $\frac{1}{4}$ SW $\frac{1}{4}$	31 acres
	Total	108 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Brad Jongeling, 18995 461st Ave, Estelline SD 57234 the holder and/or owner of Water Right No. 7525-3 is issued a license to appropriate water, the right to use 1.54 cubic feet of water per second from ground water, two wells (Big Sioux Brookings Aquifer) with a priority date of November 21, 2012 from the locations 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. 7525-3 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.

continued

- The wells authorized by Permit No. 7525-3 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. ***Both wells were drilled by Kaiser Well Drilling Inc. in 2013. Copies of the well completion reports are on file with the Water Rights Program.***
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



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

FEB 06 2017

date

