

WATER PERMIT NO. 7517-3

Name of Applicant: Jerry Runia

Address: 19533 458th Ave, Estelline SD 57234 Phone: 605 690-1587

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

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation County: Brookings

Type of Waste Disposal System:

Location: 4 miles southwest of Estelline

PRIORITY Date Received: 11-15-2012 Application/License Fee: \$ 1050.00

Corrected Application Received: Period of Annual Use: April 1 – October 31

Remarks:

Diversion Point: center of SW 1/4 Sec 9-T112N-
R51W

Land to be Irrigated: SW 1/4 Sec 9-T112N-R51W

Depth of Well: 82 feet deep

Well Driller: Steffl Drilling & Pump

Remarks:

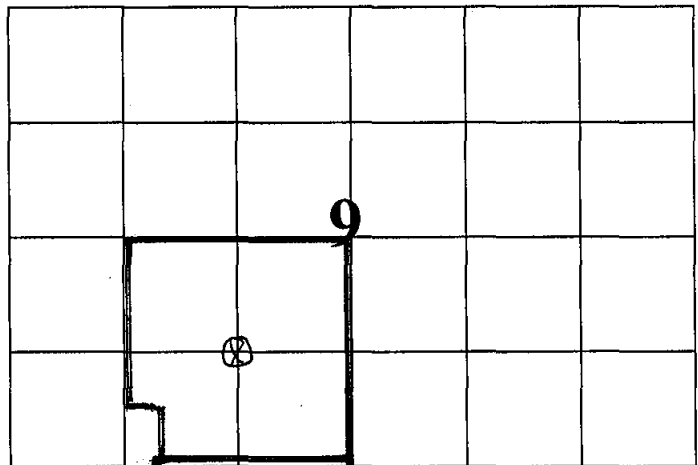
Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 11-15-2012

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>7517-3</u> (office use only) Hydrologic Unit <u>10170202</u>
	Basin <u>Sioux River</u>
	Newspaper <u>Brookings Register</u>
	<u>P.O. Box 177 57006 - 605-692-6271</u>

RECEIVED

NOV 15 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 Jerry Runia(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent

(name and complete address if different than above name)

Mailing Address 19533 458th Avenue Estelline SD 57234

(Address)

(City)

(State)

(Zip Code)

Home Phone 605 873-2702 Cell 605 690-1587 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 1 well4. Location of point of diversion 1 well in center of SW 1/4 Sec 9 T112N R51W

(example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W)

County Brookings5. County or counties where water will be used Brookings6. Annual period during which water is to be used April - Oct. 31

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 SW 1/4 Sec 9 T112N R51W	40		
NE 1/4 of the SW 1/4 Sec 9 T112N R51W	40		
SE 1/4 of the SW 1/4 Sec 9 T112N R51W	40		
SW 1/4 of the SW 1/4 Sec 9 T112N R51W	20		

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

1 well feeding 1 machineI, Jerry Runia, 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. 7517-3

Date of first receipt of application November 15, 2012.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7517-3 to Jerry Runia, 19533 458th 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. 7517-3 appropriates 1.78 cubic feet of water per second from one well to be completed into the Big Sioux:Brookings Aquifer (82 feet deep) located in center of the SW 1/4 Section 9 for irrigation of 140 acres located in the SW 1/4 Section 9; all in T112N-R51W.
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: April 1 – October 31.
3. The date from which applicant may claim right is November 15, 2012.
4. The date of approval of Permit No. 7517-3 is February 4, 2013.
5. One-fifth of the construction is to be completed on or before August 4, 2015.
6. All construction is to be completed on or before February 4, 2018.
7. Water is to be put to beneficial use on or before February 4, 2022.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 7517-3 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: Eric Erbele
for Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAR 25 2013

date



Supplemental Information

(type or print)

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

- a) If new wells, how many ____ Have test holes been drilled ☒ Yes ☐ No Drilled by Stefl Well Drillings
(if yes, please provide copies of logs)
- b) If existing wells, how many ____ Provide copy of log(s), if available. Drilled by _____
- c) Well Depth 1 Depth to Top of Water Bearing Material _____ Depth to Water from Surface _____
- d) Distance to nearest existing domestic well:

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

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) _____
- b) System Capacity (gallons) _____ Year Constructed _____
- c) Connected to the City of _____ Sanitary System _____

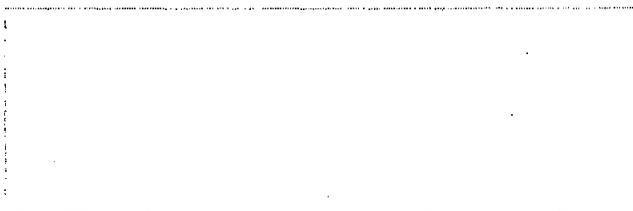
3. Dugout Information

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:



- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope (e.g. 3 to 1 is a typical slope)
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres



United States Department of Agriculture
Farm Service Agency

PLSS: 9_112N_51W
Farm: 4585

Hamlin County, SD
1:8,592



February 03, 2012

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

Wetland Determination Identifiers

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

□ Common Land Units

▨ Non Cropland

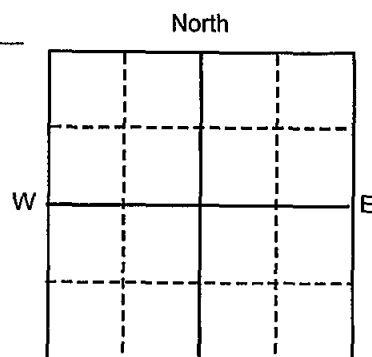
2010 Ortho-Photography - Not to Scale

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW ¼ SW ¼ Sec 9 Twp 112 Rg 51

County Brookings

Please mark well
location with an "X"

Well Completion Date

10/23/12

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:

mud rotary

CASING DATA:

☐ Steel ☐ Plastic ☐ Other
 If other describe

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

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Quick Grout	3	Lb/gal	0.0 Ft	100.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
Pressure Tremmie

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?

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

Well Owner: Jerry Runia

Business Name:

Address: 19533 458th Ave

City, State, Zip: Estelline SD 57234

WELL LOG:

		DEPTH	
FORMATION		FROM	TO
Top Soil	Black	0	3
Sand	Brown	3	5
Clay	Yellow	5	18
Clay	Blue	18	38
Sand	Blue	38	82
Clay	Yellow	82	100

STATIC WATER LEVEL:

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

Test Hole #4

44 31 03.4N

96 57 48.4W

Elev 1673

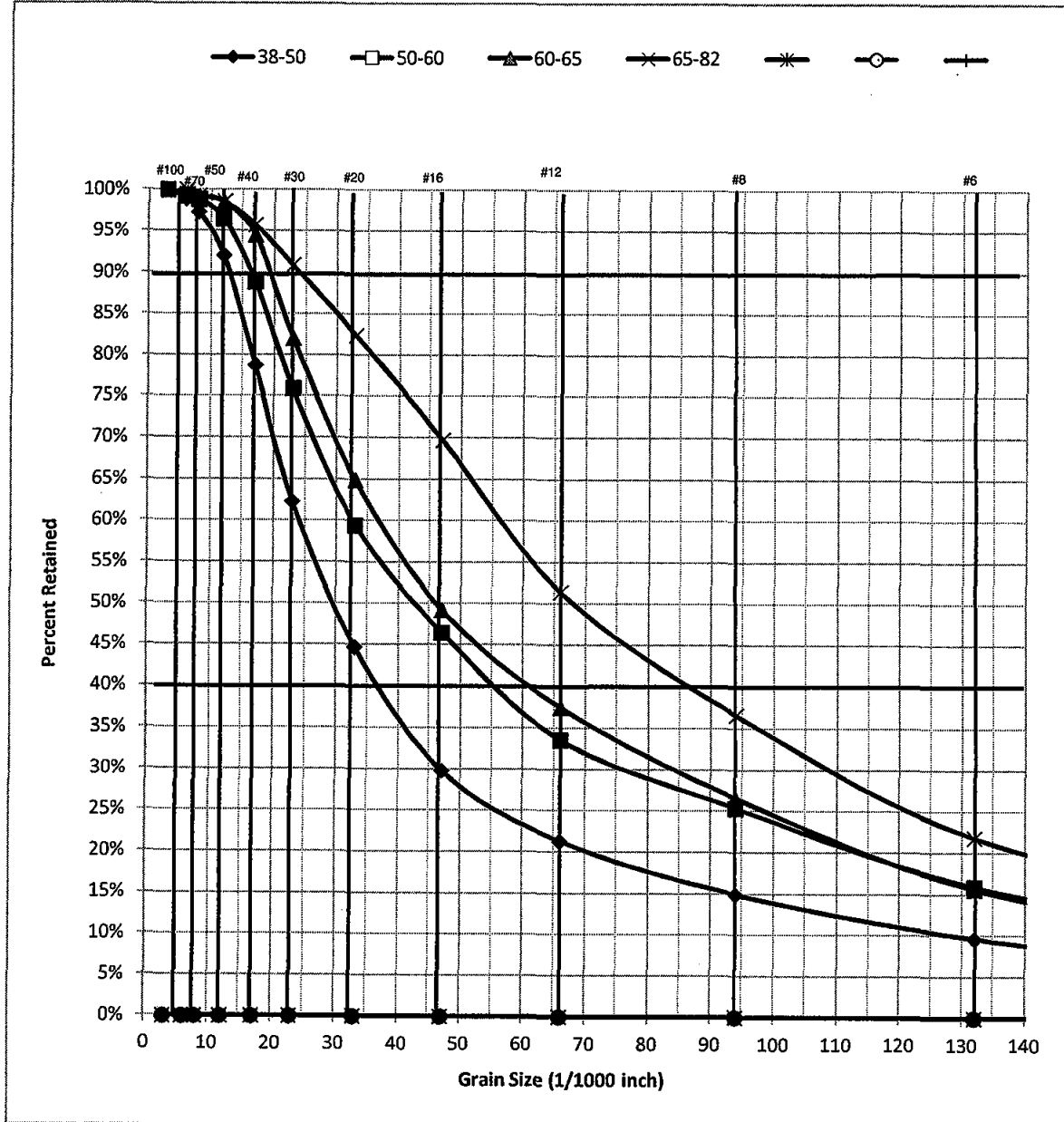
This well was drilled under license # 463 and this
report is true and accurate.

Drilling firm: Steffl Drilling & Pump Inc

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date:



Job Name Jerry Runia TH #4
Location
Driller Steffl Drilling

Sample ID 103112-3
Analyzed by: Al Smith, 651-638-3160
Date: 10/31/2012

Casing ϕ 12"
Screen ϕ 12" Pipe Size

Yield 800 GPM (Estimated)
SWL (ft) 20' (Estimated)

Recommended Slot Size 100 Slot From 65'- 82'
Recommended Gravel Pack #120 Well Slot Red Flint

Based exclusively on the samples provided by the contractor, a sieve analysis graph and suggested screen slot size is provided as requested. Since numerous construction considerations and site circumstances influence successful well completion, Johnson Screens assumes no responsibility for final well performance nor awareness of local regulations pertaining to well installations.

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date

November 15, 20 12

Jerry Runia, 19533 458th Ave, Estelline SD 57234

RECEIVED OF

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

Fee for Application for Permit No. <u>7517-3</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>7517-3</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. 05690

By

Garland Eskew
Chief Engineer
1/15

PAYMENT REQUEST FORM

PAYEE: Jerry Runia
19533 458th Ave
Estelline SD 57234

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

DESCRIPTION OF SERVICE, PRODUCE OR TRANSFER

Refund on Water Permit Nos. 7517 & 7518-3

AMOUNT: \$200.00

FUNDING SOURCE:

GENERAL: X

FEDERAL:

COMMENTS:

AUTHORIZATION:

Daral Ebel 3.25.13

I declare and affirm under the penalties of perjury that this claim is in all things, true and correct. I further agree to comply with the provisions of the Civil Rights Act of 1964 and regulations issued thereunder relating to nondiscrimination in federal assisted programs.



**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. 7517-3, Jerry Runia**

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. 7517-3, Jerry Runia, 19533 458th Avenue, Estelline SD 57234.

The Chief Engineer is recommending APPROVAL of Application No. 7517-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 7517-3 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 15, 2013

REPORT ON WATER PERMIT APPLICATION NO. 7517-3
JERRY RUNIA

Application No. 7517-3, Jerry Runia, proposes to appropriate 280 acre-feet of water at a maximum rate of 1.78 cubic feet of water per second from one well to be completed into the Big Sioux: Brookings Aquifer, BS:B, (82 feet deep) located in center of the SW 1/4 Section 9 for irrigation of 140 acres located in the SW 1/4 Section 9; all in T112N-R51W. This project is located approximately 5 miles southwest of the town of Estelline in northern Brookings County.

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

GEOLOGY AND AQUIFER CHARACTERISTICS:

The Big Sioux aquifer is an alluvium mantled glacial outwash deposit that consists of "well-sorted, very permeable glacial outwash sand and gravel, mostly medium to very coarse sand and very fine to medium gravel" (Hamilton, 1989). The aquifer is located primarily in the flood plain of the Big Sioux River and its tributaries. The Brookings management unit of the Big Sioux aquifer extends from near the center of Hamlin County where it is differentiated from the North management unit, south to northern Moody County where the management unit is distinguished from the Moody management unit. The Brookings management unit underlies parts of Hamlin, Deuel, Brookings, Kingsbury and Moody Counties. The Big Sioux: Brookings underlies approximately 163,000 acres of Brookings and Hamlin Counties alone and contains an estimated 577,730 acre-feet of recoverable water in storage in the two counties (Hedges and others, 1982). The thickness of the aquifer averages 30 feet in Brookings County (Hamilton, 1989). The average hydraulic conductivity of the Big Sioux aquifer, based on four aquifer tests, ranges from 500-1,000 feet per day (ft/d) (Koch, 1980). The test hole well completion report submitted with this application identifies sand from 38-82 feet below grade at the proposed well location.

SDCL 46-2A-9

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is 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 Big Sioux: Brookings aquifer.

WATER AVAILABILITY:

This application proposes to appropriate 280 acre-feet annually from the Big Sioux: Brookings aquifer. The actual water use if this application is approved will likely be less than the appropriation. The probability of unappropriated water available from the 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."

Recharge versus Discharge:

Recharge:

Recharge to the Big Sioux: Brookings occurs through infiltration and percolation of precipitation falling on the surface of the outwash. Since the aquifer is hydraulically connected to some area lakes and the Big Sioux River, recharge is also provided to the aquifer during times of high runoff when surface water levels are higher than groundwater levels. Recharge rates calculated for the various management units of the Big Sioux aquifer range from “2.7 to 6.9 in/yr if flow-net analysis is ignored” (Hedges and others, 1985). Given the area of the management unit in Brookings and Hamlin Counties, average annual recharge to the aquifer in these two counties alone is estimated to be 36,675-93,725 acre-feet per year.

Discharge:

Discharge from the Big Sioux: Brookings aquifer is by evapotranspiration, discharge to streams and lakes, and withdrawal from wells. There are a number of completion reports on file with the DENR-Water Rights Program for domestic use wells completed into the Big Sioux: Brookings aquifer (Water Rights, 2013b) and there are currently 228 Water Rights/Permits appropriating water from the Big Sioux: Brookings aquifer. In addition, there are nine future use permits reserving water from the aquifer, Table 1.

Water Right/Permit Type	Number
Commercial	8
Industrial	2
Irrigation	189
Municipal	16
Rural Water System	10
Suburban Housing	2
Geothermal	1

Table 1- Distribution of WaterRights/Permits in the Big Sioux: Brookings aquifer (Water Rights, 2013c)

The amount of water that can be expected to be withdrawn through non-irrigation appropriative uses from the Big Sioux: Brookings aquifer can be estimated by assuming: 1) water rights/permits limited by an annual volume will pump the entire volume appropriated, 2) water rights/permits limited only by diversion rate will pump at the maximum permitted diversion rate 60 percent of the time, and 3) future use permits can be fully developed. Under current appropriations, given the assumptions listed above, the well withdrawals are estimated to be less than 18,200 ac-ft/yr. The reported water use from the Big Sioux: Brookings aquifer for irrigation, Figure 1.

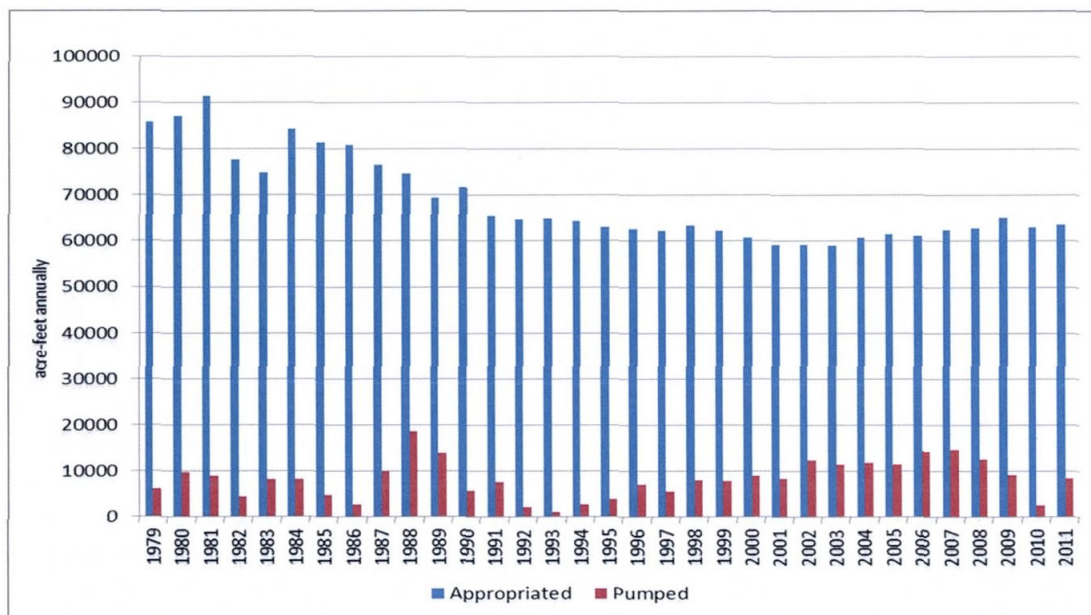


Figure 1. Historic irrigation use from the Big Sioux: Brookings aquifer (Water Rights, 1980-2011)

Comparison of the estimated average annual withdrawal from the entire Big Sioux: Brookings aquifer with the estimated average annual recharge for the aquifer in Brookings and Hamlin Counties alone indicated that in general the average annual withdrawals to the aquifer do not exceed the average annual recharge to the aquifer and unappropriated water is available from the Big Sioux: Brookings aquifer. Specifically, unappropriated water is available for the 280 acre-foot appropriation proposed by this application.

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 to the aquifer”.

The DENR-Water Rights Program monitors 80 observation wells completed into the Brookings management unit of the Big Sioux aquifer. Two of these observation wells are located within approximately 2 miles of the well sites proposed by this application. Hydrographs for these observation wells are shown below, Figures 2-3.

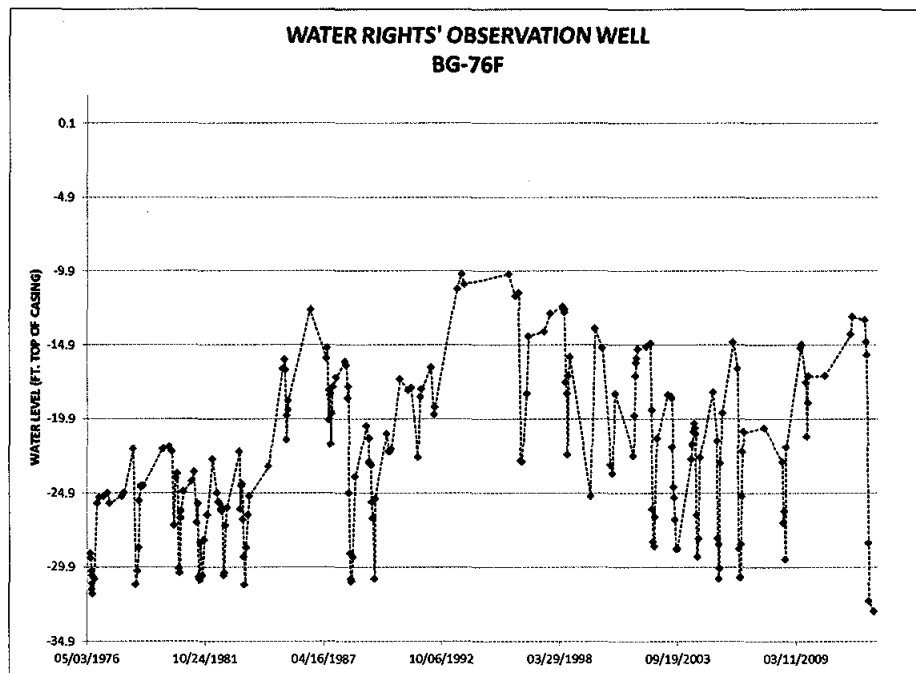


Figure 2. - Hydrograph of DENR-Water Rights' observation well BG-76F (Water Rights, 2013a)

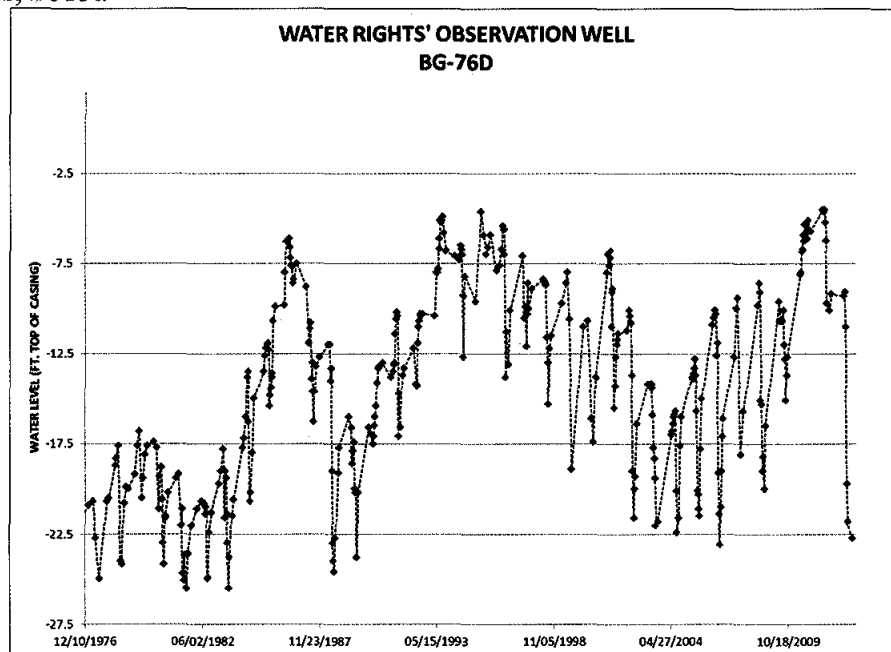


Figure 3. - Hydrograph of DENR-Water Rights' observation well BG-76D (Water Rights, 2013a)

The observation well data shows the aquifer responds well to climatic conditions with rising water levels during wet years and gradually declining water levels during dry years. The water level data verifies that over the period of record, withdrawals have not exceeded recharge. Most importantly, the observation well data shows that at the current level of development, climatic conditions greatly mask the temporal effects of well withdrawals. Therefore, recharge to and natural discharge from the Big Sioux: Brookings aquifer significantly exceeds pumping. Recognizing that natural discharge from the aquifer can be captured for pumping. The

hydrographs document that there is unappropriated water available from the aquifer to support this appropriation.

EXISTING WATER RIGHTS:

The well sites proposed by this application are located in a portion of the Big Sioux: Brookings aquifer that extends west of the Big Sioux River for approximately one-half mile to the edge of the aquifer. The river is a recharge boundary that would limit drawdown beyond it to the east.

There are 228 existing water rights/permits appropriating water from the Big Sioux: Brookings aquifer. Of these 8 water rights/permits authorizing wells and a number of domestic wells within two miles of the proposed well location are on file with the SD DENR- Water Rights program from the Big Sioux: Brookings. Table 2 lists these existing rights with No. 6591-3 being the nearest, approximately a half mile away.

PERMIT_NO	LAST_NAME	USE_TYPE1	STATUS	CFS	ACRES
4467-3	L. SAATHOFF	IRR	LC	3.230	376.00
4632-3	G. GOODFELLOW	IRR	LC	1.780	125.00
5299-3	R. CALLESEN	IRR	LC	1.780	268.00
5300-3	REX SCHWARTZ	IRR	LC	1.780	132.00
2496B-3	REX SCHWARTZ	IRR	LC	1.880	132.00
6328-3	ROGER SCHWARTZ	IRR	LC	3.760	399.00
6591-3	D. VERHOEK	IRR	LC	1.780	124.00
2594-3	K. TESCH	IRR	LC	3.800	266.00

Table 2 – Water Rights from of the Big Sioux: Brookings aquifer within two miles of Application No. 7517-3 (Water Rights, 2013c)

Since the Big Sioux: Brookings is under unconfined conditions with a relatively high transmissivity, drawdown is not expected to be significant beyond a few hundred feet from the production well. If approved, withdrawals from the Big Sioux: Brookings wells proposed by this application will not be expected to adversely impair existing water rights.

CONCLUSIONS:

1. This application proposes to appropriate up to 280 acre-feet annually from the Big Sioux: Brookings aquifer.
2. There is a reasonable probability that unappropriated water is available from the Big Sioux: Brookings aquifer to satisfy this proposed appropriation.
3. Withdrawals from the Big Sioux: Brookings wells proposed by this application will not be expected to adversely impair existing water rights.



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

Approved:



Ken Buhler
Natural Resources Engineer
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., 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., 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: U.S. Geological Survey Water-Resources Investigations Report 80-100, 46 p.
- Water Rights, 1980-2011, Irrigation Questioner Summaries 1980-2011, 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, SD.
- Water Rights, 2013b, Water Well Completion Reports, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.
- Water Rights, 2013c, Water Right/Permit Files, SD DENR-Water Rights Program, Joe Foss Bldg, Pierre, SD.

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FEB - 4 2013

10/

Affidavit of Publication

State of South Dakota

SS

WATER RIGHTS
PROGRAM

Exhibit "A"

County of Brookings

Chaylee Duis of said county, first duly sworn, on oath, says: That she is the office clerk of THE BROOKINGS REGISTER, a daily newspaper, printed and published in the City of Brookings, in said County of Brookings, and State of South Dakota; that she has full and personal knowledge of the facts herein stated; that said newspaper is a legal newspaper and has a bona fide circulation of at least two hundred copies of each issue daily; that said newspaper has been published within the said County of Brookings and State of South Dakota, for more than one year prior to the first publication of Exhibit "A," hereto attached and herein mentioned, and was and is printed that the

Leg#927 Notice #7517-3-Runia

same was published, is hereto attached marked Exhibit said newspaper for _____ 1 times, to-wit:

January 23, 2013

said Exhibit "A" inures to the sole benefit for the publishers of said newspaper; that no agreement or understanding for the division thereof has been made with any other person, and that no part thereof has been agreed to be paid to any person whomsoever; that the fees charged for the publication thereof are:

twenty-two dollars and sixty-nine cents \$22.69



24th

day of

January

2013

Notary Public in and for the County of Brookings, South Dakota.
My Commission expires August 3, 2017.

Legal 927, 1x, 1/23
NOTICE OF APPLICA-
TION NO. 7517-3 to
Appropriate Water
Notice is given that

Jerry Runia, 19533
458th Ave, Estelline SD
57234 has filed an
application for a water
permit to appropriate
1.78 cubic feet of water
per second from one
well to be completed
into the Big
Sioux:Brookings Aquifer
(82 feet deep) located in
center of the SW 1/4
Section 9 for irrigation of
140 acres located in the
SW 1/4 Section 9; all in
T112N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7517-3 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 4, 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. Published once at the total approximate cost of \$22.69.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 15, 2013

Brookings Register
PO Box 177
Brookings SD 57006

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7517-3 to Appropriate Water. Please publish the notice once on January 23, 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 Jerry Runia, 19533 458th Ave., Estelline SD 57234 (Ph # 605-873-2702).

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
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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 15, 2013

Jerry Runia
19533 458th Ave
Estelline SD 57234

Dear Mr. Runia:

Water Permit Application No. 7517-3 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 Brookings Register printed at Brookings SD (Ph # 605-692-6271). 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 23, 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. 7517-3 to Appropriate Water

Notice is given that Jerry Runia, 19533 458th Ave, Estelline SD 57234 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well to be completed into the Big Sioux:Brookings Aquifer (82 feet deep) located in center of the SW 1/4 Section 9 for irrigation of 140 acres located in the SW 1/4 Section 9; all in T112N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7517-3 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 4, 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.

Published once at the total approximate cost of _____.



DEPARTMENT of ENVIRONMENT
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denr.sd.gov

MAR 25 2013

Jerry Runia
19533 458th Ave
Estelline SD 57234

Dear Mr. Runia:

Enclosed are Water Permit Nos. 7517-3 and 7518-3 authorizing construction of your water diversion systems and beneficial use of the water, not exceeding the limits as specified in the Water Permits.

Permit No. 7518-3 was submitted with a \$1350.00 fee. The application/license filing fee for this permit is \$1150.00. Therefore, \$200.00 will be refunded to you. The refund check should be received within the next couple of weeks.

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

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7517-3

I have this day, June 5, 2021, made a thorough examination of the water use system constructed by Jerry Runia, 19533 458th Ave, Estelline, SD 57234 of Permit No. 7517-3, bearing the priority of November 15, 2012 authorizing the diversion of 1.78 cu. ft. per second of the waters of the Big Sioux: Brookings Aquifer for irrigation purposes, in Brookings County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Steffl Driling & Pump Co
- 2) No. of Wells 1
- 3) Depth(s) _____ feet
- 4) Well log is available N If no, explain in comments (see note at the bottom of this report)

Comments: Mr. Runia is planning to forward a copy to this Inspector when he obtains one.

Casing:

- 1) Diameter 12 inches
- 2) Length _____ feet
- 3) Type PVC

Screen:

- 1) Type _____
- 2) Length _____ feet
- 3) Static water level _____ feet

Pump:

- 1) Make NA
- 2) Model Submersible
- 3) Size NA
- 4) Capacity 750 GPM

Motor:

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

B. Works used to transport water to place of use: Well is at the pivot

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Valley
- 2) Overall length 1370 feet
- 3) Number of towers 7
- 4) End gun Y
- 5) Capacity 750 GPM

Chemigation Equipment:

- 1) Does chemigate Y (fertilizer in alternate years on corn)

Comments: The chemigation equipment is a commercial system supplied by the pivot installer which contains check valves, pressure/air relief valve and a piston injection pump.

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y
- 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: From the SW corner of Sec 9 T112N-R51W 1370 ft N & 1380 ft E, Lat 44.51752 Long -96.96345 (SW ¼ Sec 9).
2. The works are capable of diverting and conveying to the place of use 1.67 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 land in Sec 9-T112N-R51W

NW1/4 SW 1/4 - 34 ac	NE 1/4 SW 1/4 - 34 ac
SE 1/4 SW 1/4 - 33 ac	SW 1/4 SW 1/4 - 27 ac

comprising a total of 128 acres of land and the license should be issued for 1.67 cfs

3. All structures, wells and lands on map Y

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

The irrigation acreage was determined with the aid of FSA maps and the ArcMAP software.

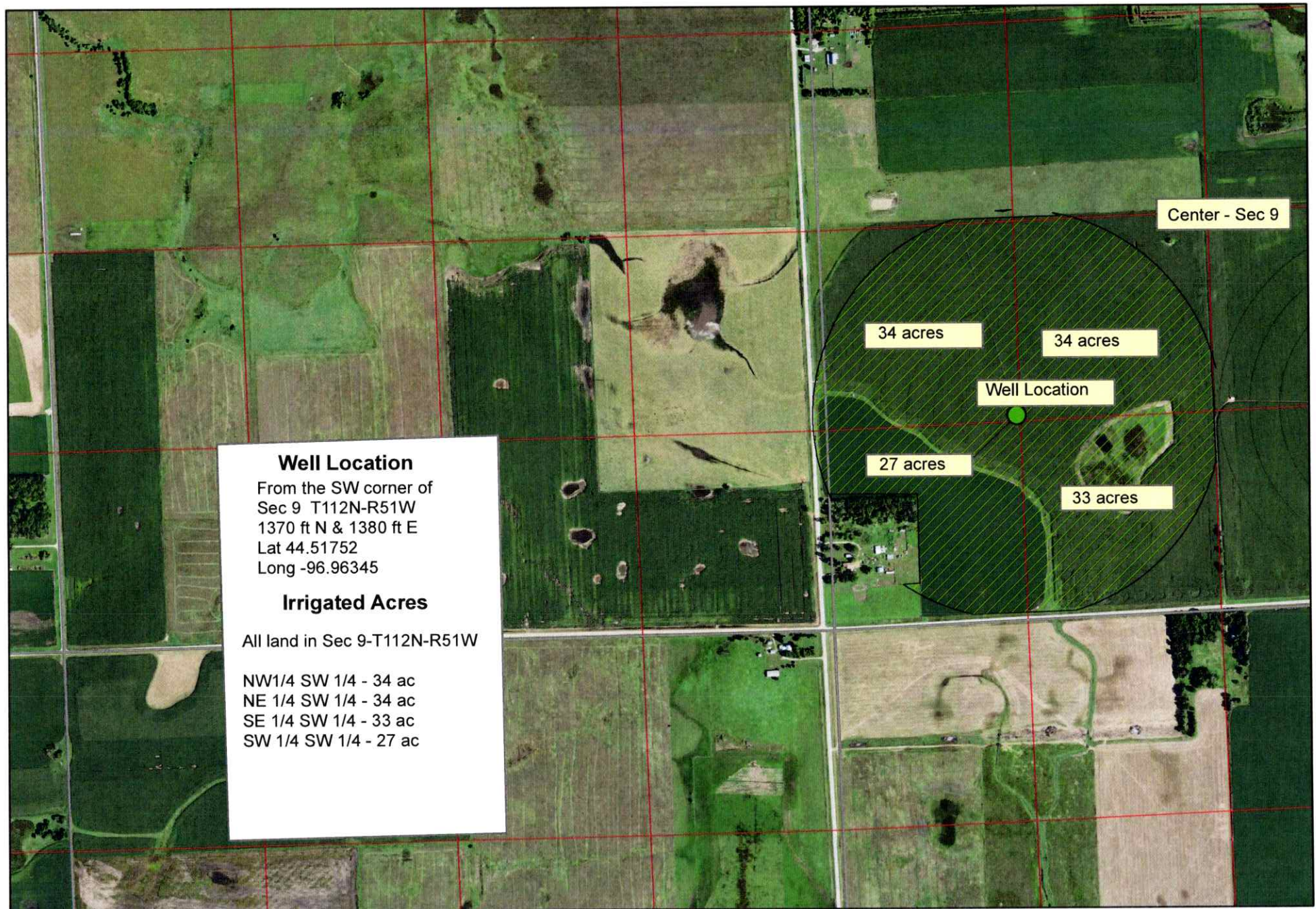


Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: June 7, 2021

Note: Shelby Kummers w/Steffl Well Drilling was contacted by phone July 13, 2021 (320-235-8484). She searched for the "production" well log in their records and was unable to find it. Steffl drilled the test hole in October 2012. The completion report for the test hole (labeled #4) is on file.

Genny



0 0.1 0.2 0.4 0.6 0.8 Miles



Darrell DeBoer
Water Right Inspector
DANR-Water Rights Program



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

7517-3

JUL 21 2021

Jerry Runia
19533 458th Ave
Estelline SD 57234

Dear Mr. Runia:

Enclosed is Water License No. 7517-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

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

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

Sincerely,

Eric Gronlund, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 7517-3**

(1) Jerry Runia, 19533 458th Ave., Estelline SD 57234 made Application No. 7517-3, November 15, 2012 for a water permit to divert 1.78 cubic feet of water per second from ground water, one well (Big Sioux Brookings Aquifer), Brookings County, South Dakota for irrigation purposes. Permit No. 7517-3, with a priority date of November 15, 2012 was approved February 4, 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 4, 2018 and for the application to beneficial use of said water on or before February 4, 2022.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.67 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 1,370'N and 1,380'E of the SW corner of Section 9, T112N, R51W (near center of SW ¼ Section 9)
Latitude 44.51752, Longitude -96.96345

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

Section 9, T112N, R51W	NW ¼ SW ¼	34 acres
	NE ¼ SW ¼	34 acres
	SE ¼ SW ¼	33 acres
	SW ¼ SW ¼	27 acres
	Total	128 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Jerry Runia, 19533 458th Ave., Estelline SD 57234 the holder and/or owner of Water Right No. 7517-3 is issued a license to appropriate water, the right to use 1.67 cubic feet of water per second from ground water, one well (Big Sioux Brookings Aquifer) with a priority date of November 15, 2012 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. 7517-3 and subject to the following qualifications:

- The well approved under this water right will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this water right shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The well authorized by No. 7517-3 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.
- This Water Right is approved subject to the irrigation water use questionnaire being submitted each year.

Eric Gronlund
Eric Gronlund, Chief Engineer
Water Rights Program
Department of Agriculture and Natural Resources

JUL 21 2021

date





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

November 1, 2024

7517-3
7518-3

Jerry Runia
2145 SE Lake Dr
Estelline SD 57234

Dear Mr. Runia:

Enclosed is a "Notice" dated October 23, 2024, concerning the 2024 Irrigation Questionnaires.

The notice was originally mailed to 19533 458th Ave, Estelline SD 57234. The post office notified our office that your address has changed, and your records have been updated accordingly.

This is a time sensitive matter. Please complete and return the enclosed questionnaires or submit your reports online at <https://danr.sd.gov/iq/> using this password *JGPRAJ*.

If this change of address is in-correct, please contact our office immediately to update your contact information.

Sincerely,

Amanda Dewell
Permitting Administrator
Water Rights Program
605 773-3352
Amanda.Dewell@state.sd.us

enclosures

SEE NFE 1141824C0010/29/24
RETURN TO SENDER
RUNIA JERRY
2145 SE LAKE DR
ESTELLINE SD 57234-6616
RETURN TO SENDER
|||