

WATER PERMIT NO. 7533-3

Name of Applicant: Chad or Rhonda Wosje

Address: 45877 218th St, Volga SD 57071 Phone: 605 826-4366

Amount of Water Claimed: 0.89 cfs Total Acres: 37 acres

Source of Water Supply: one add'l well

Water to be used for: irrigation County: Brookings

Type of Waste Disposal System:

Location: 5 south of Volga

PRIORITY Date Received: 11-13-12

Application/License Fee: \$ 700

Corrected Application Received: 11-20-12

Period of Annual Use: april 1 – October 31

11/29/12

Remarks: Add'l well, cfs and acreage to Water Right No. 3647-3

Diversion Point: N 1/2 NW 1/4 Sec 15-T109N-
R51W

Land to be Irrigated: NW 1/4 Sec 15-T109N-
R51W

Depth of Well: 45 feet deep

Well Driller: Lacey Well Drilling

Remarks:

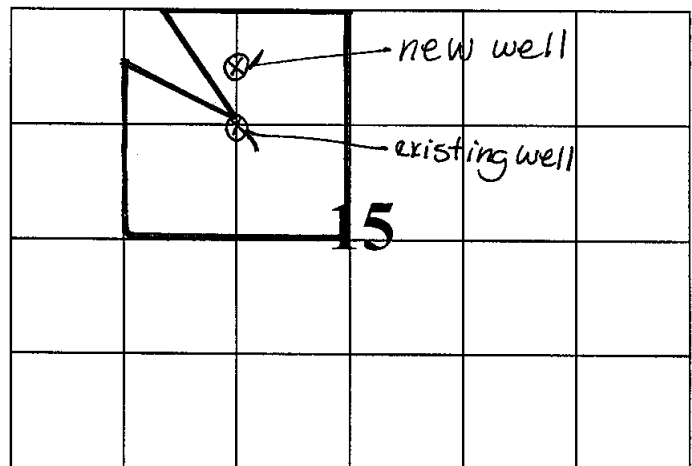
Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 11-29-12

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>7533-3</u> (office use only)	Hydrologic Unit <u>10170202</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Brookings Register Box 177</u>	
	<u>Brookings 57006 605-692-6271</u>	

RECEIVED

NOV 13 2012

WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☐ New ☐ Vested Right ☒ Amendment/Correction to Permit No. 3647-3
(Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

Replace traveling gun with a pivot and upgrade existing well, plus add
second well. Change permit to 2 wells and 800 GPM, update acres.

1. Name to Appear on Irrigation Permit Chad or Rhonda Wasje 800 GPM
(check one) ☒ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent

(name and complete address if different than above name)

Mailing Address 45877 218th Street Volga SD 57071
(Address) (City) (State) (Zip Code)

Home Phone 605-826-4366 Cell 605-690-8692 Email 37 add'l acres

2. Amount of water claimed 0.89*CFS or 800**GPM ***AF Total Acreage 145 A
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply groundwater - 2 wells (1 add'l well)

4. Location of point of diversion 2 wells in NE1/4 NW1/4 Section 15 T109N-R51W
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

County Brookings

5. County or counties where water will be used Brookings

6. Annual period during which water is to be used April 1 - October 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
NE 1/4 NW 1/4 15-109-51	40	add'l acres NW 1/4 15-109-51	37
NW 1/4 NW 1/4 15-109-51	25		
SW 1/4 NW 1/4 15-109-51	40		
SE 1/4 NW 1/4 15-109-51	40		

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

We will replace a traveling gun with a center pivot. This requires digging a new well at the location shown on the included map. If the new well cannot provide 800 GPM flow, we will upgrade the existing well contained in our current permit as well. Also, the pivot will allow us to increase the acres irrigated to 145 acres.

I, Rhonda Wasje, 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. 7533-3

Date of first receipt of application November 13, 2012.

Date of return to applicant for corrections, amendments or changes November 14, 2012.

Date of receipt of corrected application November 29, 2012.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7533-3 to Chad or Rhonda Wosje, 45877 218th St, Volga SD 57071 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. 7533-3 appropriates an additional 0.89 cubic feet of water per second (cfs) from an additional well and irrigates 37 additional acres. Water Right No. 3647-3 authorizes 0.89 cfs from one well located near the center of the NW 1/4 Section 15 to irrigate 108 acres located in the NW 1/4 Section 15; all in T109N-R51W. This permit appropriates 0.89 cfs from an additional well to be completed into the Big Sioux: South Aquifer (45 feet deep) located in the NE 1/4 NW 1/4 Section 15 to irrigate an additional 37 acres located in the NW 1/4 Section 15; all in T109N-R51W. This permit and Water Right No. 3647-3 will authorize a total diversion rate of 1.78 cfs from two wells for irrigation of 145 acres.
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 13, 2012.
4. The date of approval of Permit No. 7533-3 is February 19, 2013.
5. One-fifth of the construction is to be completed on or before August 19, 2015.
6. All construction is to be completed on or before February 19, 2018.
7. Water is to be put to beneficial use on or before February 19, 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 Water Right No. 3647-3 and Water Permit No. 7533-3 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 new well authorized by Permit No. 7533-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

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

APR 12 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 1 Have test holes been drilled ☒ Yes ☐ No Drilled by Lacey Well Drilling
(if yes, please provide copies of logs)

b) If existing wells, how many 1 Provide copy of log(s), if available. Drilled by Lacey Well Drilling

c) ^{New} Well Depth 45' Depth to Top of Water Bearing Material 20' Depth to Water from Surface 20'

d) Distance to nearest existing domestic well:

On applicant's property 1500 ft On property owned by others 6600'

2. Wastewater Disposal System Information

a) Type of System (i.e. septic tank, drain field) _____

b) System Capacity (gallons) _____ Year Constructed _____

c) Connected to the City of _____ Sanitary System

3. Dugout Information

a) Surface Dimensions _____ Depth _____

b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

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

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

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____

If pipe, diameter _____

f) Secondary Spillway Capacity _____

Spillway Width _____

g) X & Y Slope (e.g. 3 to 1 is a typical slope)

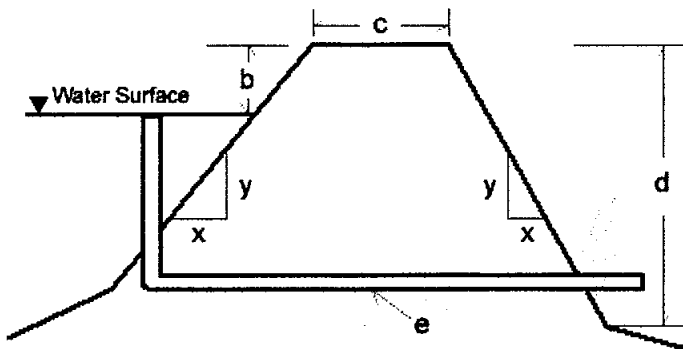
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



Sec 9
T109N
R51W

Sec 10
T109N
R51W

Sec 11
T109N
R51W

Sec 16
T109N
R51W

Sec 15
T109N
R51W

Sec 14
T109N
R51W

Sec 21
T109N
R51W

Sec 22
T109N
R51W

Sec 23
T109N
R51W



x new well

NW 14 15-109-51

Barbara Pass
Brookings County FSA

corner

1396.21 ft

707.55 ft

x

**BEST IMAGE POSSIBLE
FROM POOR ORIGINAL**

NOV 13 2012

WELL DRILLERS REPORT
Division of Water Rights
Department of Water & Natural Resources

Well Owner:
Name Albert Swenson
Address Valge, So. Dak.

Well Location:

Mark location with an "X"

W

North.

1 mile

County Brackins

N. 1/4 Sec. 15 Twp. 109 N. Rg. 51 W

Proposed Use: ☐ Domestic ☐ Municipal ☐ Test
holes
☒ Irrigation ☐ Industrial ☐ Stock

Method of Drilling: ☐ Forward Rotary ☒ Bored ☐ Jetted
☐ Reverse Rotary ☐ Cable ☐ Other

Well Construction:

Diameter of Hole 12"
Depth 90'
Casing ☒ Steel ☐ Concrete
☐ Plastic ☐ Other
If other, specify _____

Was casing and left open NO
Was a well screen installed yes
Describe Well Screen
Diameter 14" Material Stainless
Slot size 0.60 Steel
Was well gravel packed yes
Was well grouted NO
Was water sample taken no

Remarks:

Water Level Information:
 Static water level 29' below land surface
 If flowing: closed in pressure _____ PSI
 rate of flow _____ GPM
 Controlled by:
☐ Valve ☐ Reducers ☐ Other
 If other, specify _____

Well Test Data:

☒ Pumped
☐ Bailed
☐ Other

Pumping Level Below Land Surface				GPM
ft.	After	Hrs. pumped		
_____	" "	" "	_____	"
_____	" "	" "	_____	"

Well Log:

[illegible]

Date Completed: 7-6-81

Driller: Ed H. Lacey & Sons 111
Driller's or Firm's Name License NO.

Box 796 Trent, S. Dak 57063

Signed By John F. Long Date 11-1-81

In Water Since 1946

Wells — Pumps
Dewatering Work
Test Drilling

LACEY WELL DRILLING, INC.
47582 - 240th St.
Dell Rapids, South Dakota 57022
Telephone (605) 428-5979

Down-Hole Camera
Water Specialists
Irrigation Supplies

10-26-12

CHAD,

Log on Test hole from 10-23-12

0-10 till

10-47 GRAVEL gwl approx 17

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Jim Lacey

SD #111

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 11/29, 20 12

RECEIVED OF Chad Wosje 45877 218th St Volga SD 57071

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

Fee for Application for Permit No. <u>7533-3</u> to Appropriate Water, to construct and to put water to beneficial use	500	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>7533-3</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	700 00

No. **05721**

By

Richard E. White
Chief Engineer



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

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WATER RIGHTS
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November 14, 2012

Chad or Rhonda Wosje
45877 218th St
Volga SD 57071

Dear Mr. & Ms. Wosje:

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

- Enclosed is the aerial photo map submitted with the application. For your use, I have enclosed a map which includes the entire NW 1/4 Section 15. Please outline the 145 acres to be irrigated and identify the existing well and the proposed well locations.
- Water Right No. 3647-3 authorizes 0.89 cubic feet of water per second [cfs] (400 gpm) for irrigation of 108 acres. My understanding is the new application will be for an additional 0.89 cfs (400 gpm), one additional well and to irrigate 37 additional acres. The application/license fee, based on the 37 additional acres, will be \$700.00. Enclosed is your check for \$1050.00.

Please return the enclosed map and the correct fee. If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352
karen.schlaak@state.sd.us

enclosures



**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. 7533-3, Chad or Rhonda Wosje**

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. 7533-3, Chad or Rhonda Wosje, 45877 218th Street, Volga SD 57071.

The Chief Engineer is recommending APPROVAL of Application No. 7533-3 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 Water Right No. 3647-3 and Water Permit No. 7533-3 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 new well authorized by Permit No. 7533-3 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 25, 2013

REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 7533-3
CHAD OR RHONDA WOSJE
January 22, 2013

Water Permit Application No. 7533-3 proposes to appropriate up to 74 additional acre-feet annually (ac-ft/yr) at a maximum diversion rate of 0.89 cubic feet of water per second (cfs) from one additional well completed into the Big Sioux: Brookings aquifer. The well will be located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 15, T109N-R51W and is expected to be approximately 45 feet deep. This application proposes to irrigate 37 acres located in the NW $\frac{1}{4}$ of Section 15, T109N-R51W in Brookings County.

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

GEOLOGY AND AQUIFER CHARACTERISTICS:

The Brookings management unit of the Big Sioux aquifer is a surficial aquifer composed of alluvium-mantled glacial outwash, consisting of silt, sand and gravel (Koch, 1980). The aquifer generally lies below the Big Sioux River valley and its tributaries. Most of the water in this aquifer is under water-table conditions. The Brookings management unit of the Big Sioux aquifer encompasses regions of Brookings, Deuel, Hamlin, Kingsbury and Moody Counties. The Big Sioux: Brookings underlies approximately 74,500 acres of Brookings County alone and contains an estimated 245,850 acre-feet of recoverable water in storage in the county (Hedges and others, 1982). The saturated thickness of the Big Sioux aquifer ranges in thickness from approximately 0-100 feet (Koch, 1980). The proposed well location is on the edge of the aquifer. The thickness in the Brookings County area averages 30 feet (Hamilton, 1989). The average hydraulic conductivity of the aquifer ranges from 500-1,000 feet per day (ft/d) (Koch, 1980). The transmissivity of the aquifer ranges from 20,000-42,000 square feet per day (ft²/d) (Hamilton, 1989). The aquifer storativity is approximately equal to the specific yield for an aquifer under water table conditions, and the specific yield of the Big Sioux aquifer ranges from approximately 10-17 percent (Koch, 1980). Withdrawals from wells completed into the Big Sioux aquifer generally result in minimal drawdown (Hamilton 1989).

SDCL 46-2A-9

In accordance with SDCL 46-2A-9, a permit may be issued to appropriate water 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 review the availability of unappropriated water and existing rights within the Big Sioux: Brookings aquifer.

WATER AVAILABILITY:

This application proposes to appropriate 74 ac-ft/yr from the Big Sioux: Brookings aquifer. If this application is approved, it is likely that the actual water use will be less than the appropriated amount. The probability of unappropriated water available from the aquifer can be evaluated using 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 (Koch, 1980). 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 County of 74,500 acres, average annual recharge to the aquifer in Brookings County alone is estimated to be 16,762 – 42,838 ac-ft/yr.

Discharge:

Discharge from the Big Sioux: Brookings aquifer is by evapotranspiration, discharge to streams and lakes, and withdrawal from wells (Koch, 1980). There are a number of completion reports on file with the SD DENR-Water Rights Program for domestic use wells completed into the Big Sioux: Brookings aquifer (Water Rights, 2013b) and there are currently 229 water rights/permits appropriating water from the Big Sioux: Brookings aquifer (Water Rights, 2013c). In addition, there are nine future use permits reserving water from the aquifer. There are 104 water rights/permits appropriating water from this aquifer in Brookings County alone (Water Rights, 2013c). Five of the future use permits reserving water from the aquifer are from Brookings County. The distribution of these appropriations and their types are shown in Table 1.

Water Rights/Permits	Number
Commercial	4
Industrial	1
Irrigation	88
Municipal	4
Rural Water System	5
Suburban Housing Development	2
Future Use Permits	Number
City of Volga	2
Joint Well Field Inc.	3

Table 1. Water Rights from the Big Sioux: Brookings aquifer in Brookings County (Water Rights, 2013c).

The amount of water that can be expected to be withdrawn through water rights/permits authorizing water use for non-irrigation purposes at the current appropriation level 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.
3. Future use permits can be fully developed.

The expected water use for non-irrigation purposes, including that reserved for future use, from the Big Sioux: Brookings aquifer in Brookings County is less than 10,000 ac-ft/yr based on current water appropriations.

The annual reported water use from the Big Sioux: Brookings aquifer for irrigation purposes is displayed in Table 2.

YEAR	NO. OF PERMITS	APPROPRIATION (AC-FT/YR)	PUMPAGE REPORTED (AC-FT/YR)
2011	174	63494.4	8527.61
2010	172	62966.4	2713.39
2009	174	65098.4	9172.9
2008	166	62761.8	12505.85
2007	164	62374.8	12730.13
2006	161	61075.8	14325.04
2005	159	61435.8	11513.48
2004	156	60695.8	11809.91
2003	149	58970.8	11380.47
2002	149	59186.8	12410.94
2001	149	59312.8	8384.81
2000	153	60799.8	8933.72
1999	155	62181.3	7841.04
1998	157	63306.2	8109.71
1997	153	62281.7	5650
1996	154	62575.2	7220.95
1995	161	62961.2	3862.25
1994	160	64395.2	2854.62
1993	162	64963.7	1042.9
1992	162	64603.7	2331.6
1991	165	65534.97	7771.74
1990	175	71616.95	5862.92
1989	166	69391.27	13930.7
1988	167	74615.27	18521.4
1987	171	76624.07	10015
1986	179	80788.57	2854.7
1985	181	81385.57	4951.4
1984	188	84188.07	8177.6
1983	161	74854.57	8227.46
1982	155	77754.57	4551.86
1981	198	91361	9040
1980	187	87093	9837
1979	184	85701	6144
MIN	149	58970.8	1042.9
MAX	198	91361	18521.4
AVE	166	68677.29	8279.00

Table 2. Irrigation from the Big Sioux: Brookings aquifer (Water Rights, 1979-2011)

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 County 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 74 acre-feet 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 Big Sioux: Brookings aquifer with two of these observation wells located within three miles of the well site proposed by this application (Water Rights, 2013b). Hydrographs for these wells are shown in Figures 1 and 2.

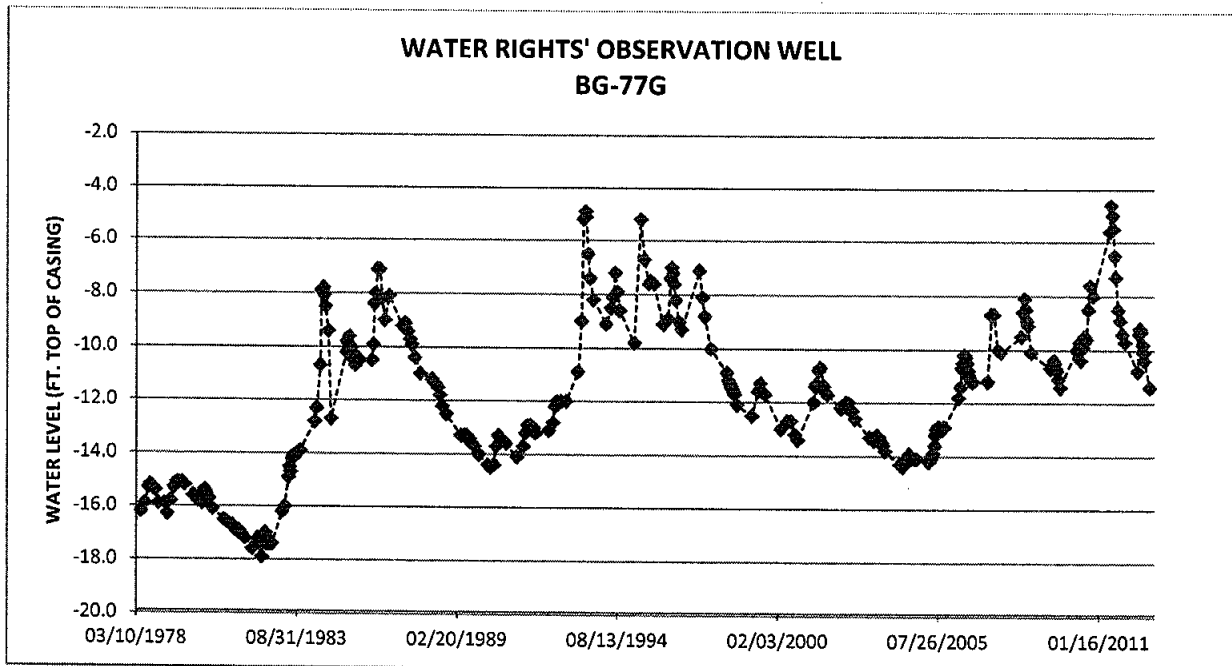


Figure 1. Hydrograph for DENR-Water Rights Observation Well BG-77G completed into the Big Sioux: Brookings aquifer approximately one and a half miles northeast of the well site proposed by Application No. 7533-3 (Water Rights, 2013a).

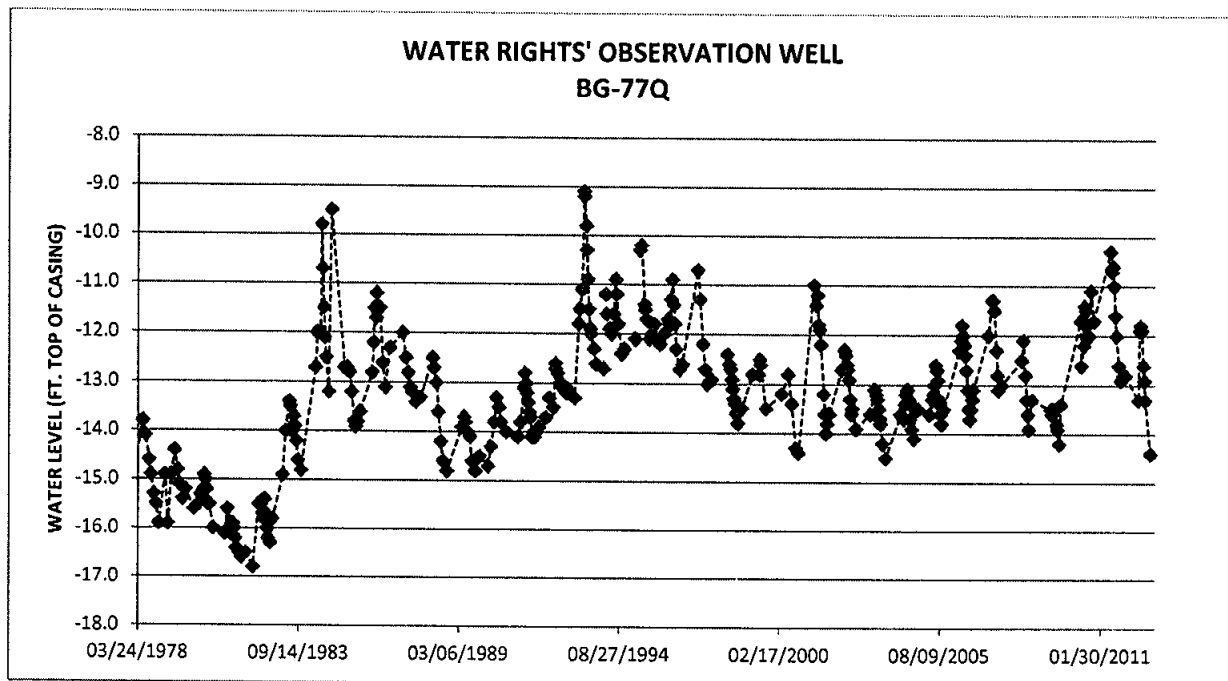


Figure 2. Hydrograph for DENR- Water Rights Observation Well BG-77Q completed into the Big Sioux: Brookings aquifer approximately three miles northeast of the well site proposed by Application No. 7533-3 (Water Rights, 2013a).

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 shows that over the period of record, discharge has not exceeded recharge. 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 site proposed by this application is located 4.4 miles from the Big Sioux River in a portion of the Big Sioux: Brookings aquifer that extends west of the Big Sioux River for approximately five and a half miles to the edge of the aquifer. The river is a recharge boundary that would limit drawdown beyond it to the east. The nearest water right/permit is Water Permit number 3647-3 for the same applicant, Chad Wosje, on the west side of the river. This water right/permit has a diversion point over 2,000 feet north and up-gradient from the proposed well site. At the distance between wells and the relatively high transmissivity expected, drawdown is not expected to be significant nor likely to cause adverse impacts to existing water rights.

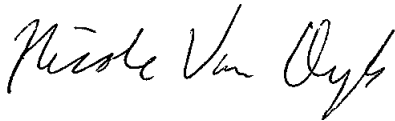
SDCL 46-5-6

Pursuant to SDCL 46-5-6, the diversion rate for an irrigation appropriation cannot be in excess of one cubic foot of water per second for every seventy acres, or "the equivalent thereof". The statute provides that the Water Management Board may allow a greater diversion if the method of irrigation so requires. Water Permit Application No. 7533-3 proposes to divert at a rate of

1.68 cfs per 70 acres to a center pivot irrigation system that will not make a full rotation. The diversion rate is required to properly operate the center pivot irrigation system and is reasonable for the proposed use. The applicant did not provide justification for the diversion rate greater than the statutory limit.

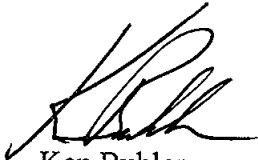
CONCLUSIONS:

1. This application proposes to appropriate up to 74 acre-feet annually for irrigation from the Big Sioux: Brookings aquifer.
2. There is a reasonable probability that unappropriated water is available from the Big Sioux: Brookings aquifer to supply this proposed appropriation.
3. The Big Sioux: Brookings aquifer is under unconfined (water table) conditions in this area, and drawdown from pumping is not expected to be significant very far from a production well.
4. There is a reasonable probability that the well proposed by this application will not adversely impact existing water rights.



Nicole Van Dyk
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., 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, 46p.
- Water Rights, 1979-2011, Irrigation Questionnaire Summaries 1979-2011, 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.

RECEIVED

FEB 15 2013 10/

Affidavit of Publication

State of South Dakota

ss

WATER RIGHTS
PROGRAM

County of Brookings

Exhibit "A"

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#968 Notice on App #7533-3- Wosje

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

February 6, 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-six dollars and ninety-four cents \$26.94



Chaylee Duis
7th day of

February

2013

Laura Johnson

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

Legal 968, 1x, 2/6
NOTICE OF APPLICA-
TION NO. 7533-3 to
Appropriate Water
Notice is given that
Chad or Rhonda Wosje,
45877 218th St, Volga
SD 57071 have filed an
application for a water
permit to appropriate an
additional 0.89 cubic
feet of water per second
(cfs) from an additional
well and to irrigate 37
additional acres. Water
Right No. 3647-3 autho-
rizes 0.89 cfs from one
well located near the
center of the NW 1/4
Section 15 to irrigate
108 acres located in the
NW 1/4 Section 15; all in
T109N-R51W. This
application proposes to
appropriate 0.89 cfs
from an additional well
to be completed into the
Big Sioux South
Aquifer (45 feet deep)
located in the NE 1/4
NW 1/4 Section 15 to
irrigate an additional 37
acres located in the NW
1/4 Section 15; all in
T109N-R51W. This
application, if approved
and Water Right No.
3647-3 will authorize a
total diversion rate of
1.78 cfs from two wells
for irrigation of 145
acres.
Pursuant to SDCL 46-
2A-2, the Chief
Engineer recommends

APPROVAL of
Application No. 7533-3
because 1) unappropri-
ated water is available,
2) existing rights will not
be unlawfully impaired,
3) it is a beneficial use
of water, and 4) it is in
the public interest. In
accordance with SDCL
46-2A-23, the Chief
Engineer will act on this
application, as recom-
mended, unless a peti-
tion is filed opposing the
application or the appli-
cant files a petition con-
testing the Chief
Engineer's recommen-
dation. If a petition
opposing the application
or contesting the recom-
mendation is filed, then
a hearing will be sched-
uled and the Water
Management Board will
consider this applica-
tion. Notice of the hear-
ing will be given to the
applicant and any per-
son filing a petition.
Any person interested in
opposing or supporting
this application or rec-
ommendation must file
a written petition with
BOTH the applicant and
Chief Engineer. The
applicant must file a
petition if contesting the
Chief Engineer's recom-
mendation. The Chief
Engineer's address is
Water Rights Program,
Foss Building, 523 E
Capitol, Pierre SD
57501 (605 773-
3352) and the appli-
cant's mailing address is
given above. A petition
filed by either an inter-
ested person or the
applicant must be filed
by February 19, 2013.
The petition may be
informal, but must
include a statement
describing the peti-
tioner's interest in the
application; the petitioner's
reasons for opposing or
supporting the applica-
tion, and the signature
and mailing address of
the petitioner or the peti-
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 appli-
cation. Steven M.
Pirner, Secretary,
Department of
Environment and
Natural Resources.
Published once at the
total approximate cost of
\$26.94.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 29, 2013

Brookings Register
PO Box 177
Brookings SD 57006

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7533-3 to Appropriate Water. Please publish the notice once on February 6, 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 Chad or Rhonda Wosje, 45877 218th St., Volga SD 57071 (Ph # 605-826-4366).

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

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

January 29, 2013

Chad or Rhonda Wosje
45877 218th St
Volga SD 57071

Dear Sir:

Water Permit Application No. 7533-3 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 February 6, 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. 7533-3 to Appropriate Water

Notice is given that Chad or Rhonda Wosje, 45877 218th St, Volga SD 57071 have filed an application for a water permit to appropriate an additional 0.89 cubic feet of water per second (cfs) from an additional well and to irrigate 37 additional acres. Water Right No. 3647-3 authorizes 0.89 cfs from one well located near the center of the NW 1/4 Section 15 to irrigate 108 acres located in the NW 1/4 Section 15; all in T109N-R51W. This application proposes to appropriate 0.89 cfs from an additional well to be completed into the Big Sioux: South Aquifer (45 feet deep) located in the NE 1/4 NW 1/4 Section 15 to irrigate an additional 37 acres located in the NW 1/4 Section 15; all in T109N-R51W. This application, if approved and Water Right No. 3647-3 will authorize a total diversion rate of 1.78 cfs from two wells for irrigation of 145 acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7533-3 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 19, 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
and NATURAL RESOURCES**

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

denr.sd.gov

APR 12 2013

Chad or Rhonda Wosje
45877 218th St
Volga SD 57071

Dear Sir:

Enclosed is Water Permit No. 7533-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

enclosures

RECEIVED

MAY 16 2013

WATER RIGHTS
PROGRAM

Chad and Rhonda Wosje
45877 218th Street
Volga, SD 57071
(605) 826-4366 or (605) 690-1303
cwosje@itctel.com

May 13, 2013

Department of Environment and Natural Resources
ATTN: Eric
523 East Capitol Avenue
Pierre, SD 57501

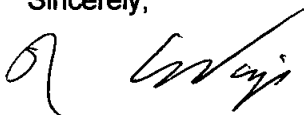
Dear Eric:

As per our phone conversation earlier this morning, this letter is written in request of a change to be made to the Water Permit No. 7533-3 for Chad or Rhonda Wosje. Our original permit request involved two wells, both located in the NW ¼ of Section 15, T109N-51W. One well was an existing well, the other well was to be new.

We have completed the installation of the permitted new well in the site specified. While inspecting the existing well for needed repairs, the well drillers recommended drilling a test well north of the existing well in an attempt to achieve better flow and a location with courser sand. They identified an improved well location almost directly north of the existing well, as shown on the enclosed map. This new well location is still within the NW ¼ of Section 15 and still within the Big Sioux: South Aquifer, but must be drilled to a depth of 70 feet.

We request the Department's permission to drill a replacement well as described. The number of acres to be irrigated and the total diversion rate will not change from our permit. Thank you for your consideration.

Sincerely,



Rhonda Wosje

Sec 9
T109N
R51W

Sec 10
T109N
R51W

Sec 11
T109N
R51W

X proposed
replacement well

X new well (completed
as per water Permit No. 2533-3)

To
Be
Imagined X existing
well

Sec 16
T109N
R51W

Sec 15
T109N
R51W

Sec 14
T109N
R51W

Sec 21
T109N
R51W

Sec 22
T109N
R51W

Sec 23
T109N
R51W

Water Rights Program - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: Water Permit Application No. 7533-3

ADDRESS: COUNTY: Brookings

DATE: June 26, 2013 TELEPHONE: 605 826-4366

RE: need to readvertise Water Permit Application No. 7533-3

Mrs. Rhonda Wosje filed a request for a replacement well for one of the wells authorized by Water Permit No. 7533-3. There had been an existing well in the approximate center of the NW ¼ of Section 15, T109N, R51W. But when drilling the 2 second authorized well, the driller did a test hole along the north section line in the N ½ NW ¼ of this section and suggested to them to drill a new well instead of rehabilitating the existing well.

Upon review it was discovered that the public notice errantly identified the aquifer as the Big Sioux:South Aquifer instead of the Big Sioux:Brookings Aquifer. I contacted Mrs. Wosje regarding the need to readvertise the public notice. I further indicated that in this readvertisement, DENR will correctly identify the location of the wells.

DENR will pay the cost of publication.

NAME:

Eric Sundland



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

denr.sd.gov

June 27, 2013

Chad or Rhonda Wosje
45877 218th St
Volga SD 57071

Dear Sir:

On May 13, 2013, you filed a request to change the well location identified on Water Permit No. 7533-3. Upon review of the permit it was discovered the February 6, 2013 publication incorrectly identified the aquifer as the Big Sioux:South Aquifer instead of the Big Sioux:Brookings Aquifer. As stated in our phone conversation, the notice needs to be readvertised. The notice will list the correct aquifer and location of the wells.

For your information, a copy of the notice is enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

The cost of publication will be paid by the Water Rights Program. Please contact us if you have any questions.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosure

Instruction to Newspaper - Publish the Notice on July 5, 2013.

Readvertisement of Permit No. 7533-3 to Appropriate Water

Notice is given of readvertisement of Water Permit No. 7533-3 held by Chad or Rhonda Wosje, 45877 218th St, Volga SD 57071. Water Permit No. 7533-3 and Water Right No. 3647-3, combined, appropriate 1.78 cubic feet of water per second from two wells completed into the Big Sioux:Brookings Aquifer (45 feet deep) located in the NE 1/4 NW 1/4 Section 15 for irrigation of 145 acres located in the NW 1/4 Section 15; all in T109N-R51W. Readvertisement is necessary to correct the aquifer designation which was incorrectly advertised as the Big Sioux:South Aquifer on February 6, 2013. This readvertisement does not authorize any increase in the diversion rate or number of acres to be irrigated.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of readvertised Permit No. 7533-3 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 July 15, 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 _____.

RECEIVED

JUL 17 2013

WATER RIGHTS
PROGRAM

10/

Affidavit of Publication

State of South Dakota

ss

County of Brookings

Jennifer Milligan 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

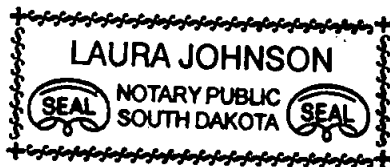
Leg#593 Readvertisement of Permit No. 7533-3

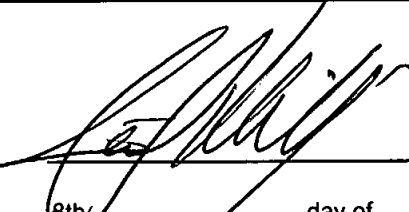
same was published, is hereto attached marked Exhibit said newspaper for _____ 1 times, to-wit:

July 5, 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:

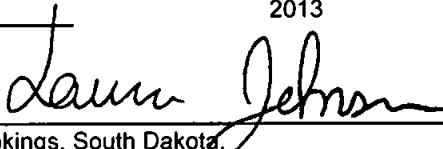
twenty-five dollars and twelve cents \$25.12




8th _____ day of

July

2013



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

Legal 593, 1x, 7/5
Readvertisement of
Permit No. 7533-3 to
Appropriate Water
Notice is given of read-
vertisement of Water
Permit No. 7533-3 held
by Chad or Rhonda
Wosje, 45877 218th St,
Volga SD 57071. Water
Permit No. 7533-3 and
Water Right No. 3647-3,
combined, appropriate
1.78 cubic feet of water
per second from two
wells completed into the
Big Sioux:Brookings
Aquifer (45 feet deep)
located in the NE 1/4
NW 1/4 Section 15 for
irrigation of 145 acres
located in the NW 1/4
Section 15; all in
T 1 0 9 N - R 5 1 W .
Readvertisement is nec-
essary to correct the
aquifer designation
which was incorrectly
advertised as the Big
Sioux:South Aquifer on
February 6, 2013. This
readvertisement does
not authorize any
increase in the diversion
rate or number of acres
to be irrigated.
Pursuant to SDCL 46-
2A-2, the Chief
Engineer recommends
APPROVAL of readver-
tised Permit No. 7533-3
because 1) unappropri-
ated water is available,
2) existing rights will not
be unlawfully impaired,
3) it is a beneficial use
of water, and 4) it is in
the public interest. In
accordance with SDCL
46-2A-23, the Chief
Engineer will act on this
application, as recom-
mended, unless a peti-
tion is filed opposing the
application or the appli-
cant files a petition con-
testing the Chief
Engineer's recommen-
dation. If a petition
opposing the applica-
tion 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 rec-
ommendation must file
a written petition with
BOTH the applicant and
Chief Engineer. The
applicant must file a
petition if contesting the
Chief Engineer's recom-
mendation. The Chief
Engineer's address is
"Water Rights Program,
Foss Building, 523 E
Capitol, Pierre SD
57501 (605 773-3352)"
and the applicant's mail-
ing address is given
above. A petition filed
by either an interested
person or the applicant
must be filed by July 15,
2013.

The petition may be
informal, but must
include a statement
describing the peti-
tioner's interest in the appli-
cation, the petitioner's
reasons for opposing or
supporting the applica-
tion, and the signature
and mailing address of
the petitioner or the
petitioner's legal coun-
sel, if legal counsel is
obtained. Contact Eric
Gronlund at the above
Water Rights Program
address to request
copies of information
pertaining to this appli-
cation. Steven M.
Pirner, Secretary,
Department of
Environment and
Natural Resources.
Published once at the
total approximate cost
of \$10.43.

July 17, 2013

PAYMENT REQUEST FORM

PAYEE: Brookings Register
PO Box 177
Brookings SD 57006

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

DESCRIPTION OF SERVICE, PRODUCE OR TRANSFER

Public Notice for Water Permit No. 7533-3 Legal 593

AMOUNT: \$25.12

FUNDING SOURCE:

GENERAL: X

FEDERAL:

COMMENTS:

AUTHORIZATION:

Gail Jacobson 7-17-13

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.

**REISSUED
SOUTH DAKOTA
WATER PERMIT NO. 7533-3**

The Chief Engineer, on behalf of the Water Management Board, issued Water Permit No. 7533-3 on February 19, 2013 to Chad or Rhonda Wosje, 45877 218th St, Volga SD 57071 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. 7533-3 appropriates an additional 0.89 cubic feet of water per second (cfs) from an additional well and irrigates 37 additional acres. Water Right No. 3647-3 authorizes 0.89 cfs from one well located near the center of the NW 1/4 Section 15 to irrigate 108 acres located in the NW 1/4 Section 15; all in T109N-R51W. This permit appropriates 0.89 cfs from an additional well to be completed into the Big Sioux: South Aquifer (45 feet deep) located in the NE 1/4 NW 1/4 Section 15 to irrigate an additional 37 acres located in the NW 1/4 Section 15; all in T109N-R51W.

The permit was readvertised on July 5, 2013 to correct the aquifer designation and reissued as follows:

Water Permit No. 7533-3 and Water Right No. 3647-3, combined, appropriate 1.78 cubic feet of water per second from two wells completed into the Big Sioux:Brookings Aquifer (45 feet deep) located in the NE 1/4 NW 1/4 Section 15 for irrigation of 145 acres located in the NW 1/4 Section 15; all in T109N-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 13, 2012 (0.89 cfs and 37 additional acres).
4. The date of approval of Permit No. 7533-3 is July 15, 2013.
5. One-fifth of the construction is to be completed on or before January 15, 2016.
6. All construction is to be completed on or before July 15, 2018.
7. Water is to be put to beneficial use on or before July 15, 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 Water Right No. 3647-3 and Water Permit No. 7533-3 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 new well authorized by Permit No. 7533-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

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

SEP 25 2013

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

denr.sd.gov

SEP 25 2013

Chad or Rhonda Wosje
45877 218th St
Volga SD 57071

Dear Mr. & Mrs. Wosje:

Enclosed is Reissued Water Permit No. 7533-3 authorizing construction of your water diversion system from two wells completed into the Big Sioux:Brookings Aquifer and beneficial use of the water not exceeding the limits as specified in the Water Permit.

If you have any questions regarding the water permit, please contact this office.

Sincerely,

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

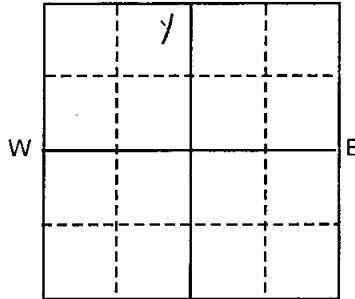
enclosure

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 NW 1/4 Sec 15 Twp 109N Rg 51WCounty Brookings

North

Please mark well
location with an "X"

Well Completion Date

June 6, 2013

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	12.00 IN	0 FT	40 FT	17.50 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	24	Lb/gal	0.0 Ft	32.0 Ft
Red Flint	60.0	Lb/gal	32.0 Ft	52.0 Ft
Describe grouting procedure				
Red Flint	50.0		52.0 Ft	72.0 Ft

SCREEN:

☐ Perforated pipe ☒ ManufacturedDiameter 12.00 Inches Length 30.0 FeetMaterial Stainless SteelSlot Size 50 & 60 Set From 42.0 Feet to 72.0 FeetOther information 43' - 52' 60 slot
52' - 72' 50 slot

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: Chad Wosje

Business Name: _____

Address: 45877 218th STCity, State, Zip: Volga SD 57071

WELL LOG:

		DEPTH	
FORMATION		FROM	TO
top soil	black	0	1
clay	tan	1	3
sand	brown M-course	3	25
clay	tan	25	28
sand	gravel yellow	28	42
sand	80 - 120 slot	42	72

STATIC WATER LEVEL 10.0 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

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

Production Well #1

44 15 12.6N

96 56 37.0W

RECEIVED

SEP 12 2013

WATER RIGHTS
PROGRAMThis well was drilled under license # 463 and this
report is true and accurate.Drilling firm: Steffl Drilling & Pump Inc / Kris VanHeuveln

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

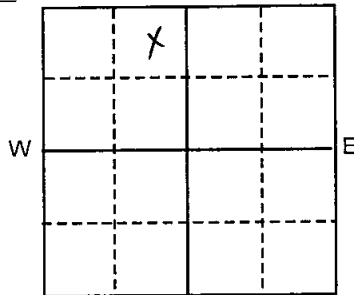
Date: 6-12-13

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location 1/4 NW 1/4 Sec 15 Twp 109N Rg 51WCounty Brookings

North

Please mark well
location with an "X"

Well Completion Date

April 1, 2013

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:

If other describe _____

☐ Steel ☒ Plastic ☐ Other

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	14.00 IN	1.0 FT	35.0 FT	19.25 IN
LB/FT	IN	FT	FT	IN
LB/FT	14.00 IN	47.0 FT	49.0 FT	19.25 IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Quick Grout	18	Lb/gal	0.0 Ft	25.0 Ft
Red Flint #80		Lb/gal	25.0 Ft	49.0 Ft

Describe grouting procedure
Tremmy

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 14.00 Inches Length 12.0 Feet
 Material stainless steel
 Slot Size 80 Set From 35.0 Feet to 47.0 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? irrigation well
 Lab to which water
quality sample sent for analysis _____
Well Owner: Chad Wosje

Business Name: _____

Address: 45877 218th STCity, State, Zip: Volga SD 57071

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
top soil	black	0 3
sand	brown	3 17
gravel	brown	17 47
clay	blue	47 49

STATIC WATER LEVEL 15.0 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

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____

REMARKS

44 15 07.1N
96 56 35.6W

Kris VanHeuveln

RECEIVED

SEP 12 2013

WATER RIGHTS
PROGRAMThis 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: 4-17-13

NOV 14 2013

WATER RIGHTS
PROGRAMNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 11-7-13TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM:

Chad and Rhonda Wasje
(name)45877 218th Str.
(address)Volga, SD 57071
(city, state, zip)605-826-4366
(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. 7533-3 states that the water use system is to be constructed by7-15-2018

(date)

, and water is to be put to beneficial use by

7-15-2022

(date)

The water use system was completed on

9-1-13

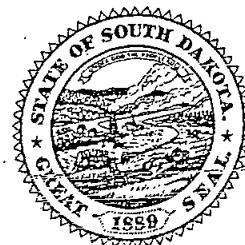
(date)

Applying the water to beneficial use was completed on

9-27-13

(date)

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

[Signature]
(signature)



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

November 14, 2013

7533-3

Chad & Rhonda Wosje
45877 218th St
Volga SD 57071

Dear Mr. & Mrs. Wosje:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with your irrigation system as authorized under Water Permit No. 7533-3.

The system is now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between the completion of your project and the staff inspection has no bearing on your water permit.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath". The signature is written in a cursive, flowing style.

Genny McMath
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 7533-3

I have this day, May 26 2021, made a thorough examination of the water use system constructed by Chad or Rhonda Wosje, 45877 218th St, Volga, SD 57071 of Permit No. 7533-3, bearing the priority of November 29, 2012 authorizing the diversion of 0.89 cu. ft. per second of the waters of the Big Sioux: South Aquifer for irrigation purposes, in Brookings County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Steffl Drilling & Pump Inc
- 2) No. of Wells 2
- 3) Depth(s) (S) 72 & (N) 47 feet
- 4) Well log is available Y

Casing:

- 1) Diameter (S) 14 & (N) 12 inches
- 2) Length (S) 35 & (N) 40 feet
- 3) Type Plastic

Screen:

- 1) Type Stainless steel
- 2) Length (S) 12 & (N) 30 feet
- 3) Static water level (S) 15 & (N) 10 feet

Pump:

- 1) Make NA
- 2) Model Submersible
- 3) Size NA
- 4) Capacity 900 combined GPM

Motor:

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

B. Works used to transport water to place of use:Comments: 670 feet of buried pipe**C. Works used to apply water to beneficial use:****Center pivot:**

- 1) Make Valley
- 2) Overall length 1300 feet
- 3) Number of towers 7
- 4) End gun Y
- 5) Capacity 650 GPM (The two wells have a capacity of 900 gpm) *ESJ*

Chemigation Equipment:

- 1) Does chemigate N

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 NW corner of Sec 15 - T109N-R51W (NORTH WELL) 130 ft S & 1320 ft E, Lat 44.25349 Long -96.94362 (NW NW Sec 15) (SOUTH WELL) 640 ft S & 1,380 ft E, Lat 44.25196 Long -96.94325 (NE NW Sec 15).
2. The works are capable of diverting and conveying to the place of use 2.0 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 15-T109N-R51W

NW1/4 NW 1/4 - 25 ac

NE 1/4 NW 1/4 - 34 ac

SE 1/4 NW 1/4 - 34 ac

SW 1/4 NW 1/4 - 34 ac

comprising a total of 127 acres of land and the license should be issued for 1.78 cfs (See Section F)

3. All structures, wells and lands on map Y

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

The original Water Permit authorizes 1.78 cfs for the irrigation of 145 acres. (7533-3 & 3647-3)

The irrigated acreage was determined by the use FSA maps and ArcMAPS software.

The address and home phone provided by the review documents are valid. Chad's cell is 605/690-1303 & Rhonda's is 605/690-8692.



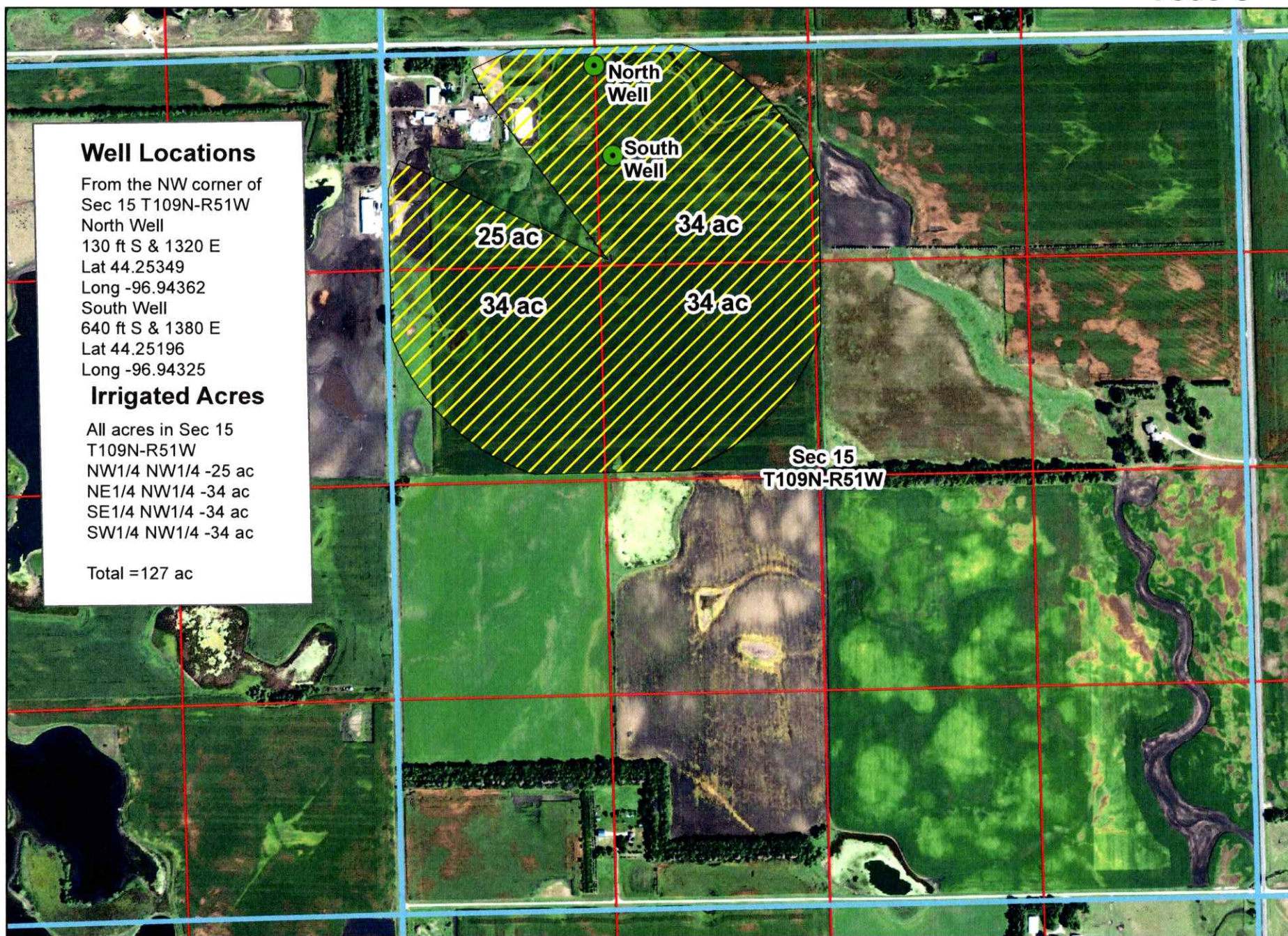
Darrell W DeBoer
Water Rights Inspector
DANR, Water Rights Program

Date report completed: **June 16, 2021**

Notes: Water Permit No. 7533-3 was obtained to add 0.89 cfs, one additional well and 37 acres to the project described in Water Right No. 3647-3. Water Right No. 3647-3 authorizes 0.89 cfs from one well to irrigate 108 acres. The applicable portions of Water Right No. 3647-3 will be incorporated into Water License No. 7533-3 to reflect the system as it was developed (two wells, 127 acres).

**Priority dates: November 13, 2012 for 0.89 cfs and 19 acres (established under No. 7533-3)
February 7, 1977 for 0.89 cfs and 108 acres (established under No. 3647-3)**

Genny



0 0.125 0.25 0.5 0.75 1 Miles



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

7533-3
3647-3

JUN 23 2021

Chad & Rhonda Wosje
45877 218th St
Volga SD 57071

Dear Mr. & Mrs. Wosje:

Enclosed is Water License No. 7533-3. 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

Note: The applicable portions of Water Right No. 3647-3 were incorporated into Water License No. 7533-3.

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 7533-3

(1) Chad or Rhonda Wosje, 45877 218th St, Volga SD 57071 made Application No. 7533-3, November 13, 2012 for a water permit to divert 0.89 cubic feet of water per second from ground water, one well (Big Sioux Brookings Aquifer), Brookings County, South Dakota for irrigation purposes. Due to an error in the aquifer designation, the permit was readvertised and reissued. Reissued Permit No. 7533-3, with a priority date of November 13, 2012 was approved July 15, 2013 and issued to the applicants for diversion of water with construction of the described water supply system to be completed on or before July 15, 2018 and for the application to beneficial use of water on or before July 15, 2022.

The Permit holder submitted a "Notice of Completion of Works and Application of Water to Beneficial Use" on November 14, 2013. The "Notice" stated the water use system was completed and water placed to beneficial use in September 2013.

Water Right No. 3647-3, with a priority date of February 6, 1977, authorizes diversion of 0.89 cfs from one well to irrigate 108 acres in the NW ¼ Section 15, T109N, R51W. Water Permit No. 7533-3 was obtained to add 37 acres within the NW ¼ Section 15, an additional 0.89 cfs and an additional well to the irrigation system authorized under Water Right No. 3647-3 to accommodate a change in the method of irrigating from traveling gun to a center pivot.

The applicable portions of Water Right No. 3647-3 are incorporated into this license. Priority dates of February 6, 1977 and November 13, 2012 are retained.

(2) It is certified that the permit holders have complied with the provisions of South Dakota State Law relating to completion of the water supply system and are entitled to divert 1.78 cubic feet of water per second for beneficial use. The location of the diversion points are as follows:

North well: 130'S and 1,320'E of the NW corner of Section 15, T109N, R51W (NE ¼ NW ¼)
Latitude 44.25349 Longitude -96.94362

South well: 640'S and 1,380'E of the NW corner of Section 15, T109N, R51W (NE ¼ NW ¼)
Latitude 44.25196 Longitude -96.94325

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

T109N, R51W Section 15	NW ¼ NW ¼	25 acres
	NE ¼ NW ¼	34 acres
	SE ¼ NW ¼	34 acres
	SW ¼ NW ¼	34 acres
	Total	127 acres

Priority dates: 108 acres – February 7, 1977 (3647-3) and 19 acres – November 13, 2012 (7533-3)

continued

Water License No. 7533-3

Page 2

(4) Pursuant to South Dakota Water Law 46-5-30.1 Chad or Rhonda Wosje, 45877 218th St, Volga SD 57071 the holders and/or owners of Incorporated Water Right No. 7533-3 are issued a license to appropriate water, the right to use 1.78 cubic feet of water per second from ground water, two wells (Big Sioux Brookings Aquifer) with priority dates of November 13, 2012 (0.89 cfs) and February 7, 1977 (0.89 cfs) 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. 7533-3 and subject to the following qualifications:

- The wells approved under this water right will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owners under this water right shall control withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The new well authorized by Permit No. 7533-3 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, Chief Engineer
Water Rights Program
Department of Agriculture and Natural Resources

JUN 23 2021

date

