

WATER PERMIT NO. 7874-3

Name of Applicant: Arnie Beisch

Address: 44877 142nd St, Waubay SD 57273 Phone: 605 881-4128

Amount of Water Claimed: 1.0 cfs Total Acres: 60

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation County: Roberts

Type of Waste Disposal System:

Location: 1/2 miles west of Ortley

PRIORITY Date Received: 7-22-2013 Application/License Fee: \$ 700

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

Remarks: Requesting diversion rate greater than statutory limit

Diversion Point: NE 1/4 SE 1/4 Sec 19-T122N-
R52W

Land to be Irrigated: E 1/2 SE 1/4 Sec 19-T122N-
R52W

Depth of Well: 40 feet deep

Well Driller: Wieber Well Drilling

Remarks:

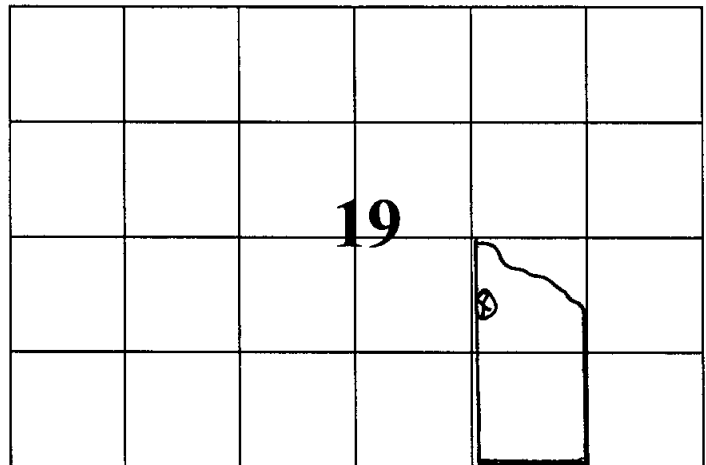
Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 7-22-13

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>2874-3</u>	(office use only) Hydrologic Unit <u>10160010</u>
	Basin <u>James River</u>	<u>605-698-7642</u>
	Newspaper <u>Sisseton Courier Box 169</u>	<u>57262</u>
	<u>Public Opinion Box 10 Watertown</u>	<u>605-886-6901</u>
	<u>57201</u>	

RECEIVED
JUL 22 2013
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 ARNIE BEISCH
(check one) ☐ Owner ☐ Tenant/lessee ☐ Owner's Legal Agent _____
(name and complete address if different than above name)
- Mailing Address 44877 142ND STREET WAUBAY SD 57273
(Address) (City) (State) (Zip Code)
- Home Phone 881-4128 Cell _____ Email _____
2. Amount of water claimed 1.0 *CFS or 450 **GPM ***AF Total Acreage 60
(*Cubic Feet per Second) (**Gallons per Minute) (***) Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply WELL + pump - up to 3 wells
4. Location of point of diversion NE 1/4 SE 1/4 Sec 19 122 52
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
- County ROBERTS
5. County or counties where water will be used Roberts
6. Annual period during which water is to be used may - september 30
7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
SE 1/4 SE 1/4 19-122-52	30		
NE 1/4 SE 1/4 19-122-52	30		

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

apply water through pump + pipe to CENTER PILOT
Requesting diversion rate greater than statutory limit

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

2012-09

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Also, attach map and any other technical information. (see instructions)

 Annie Beisch
44877 142nd ST
Waubay, SD 57273-5742

SOUTH DAKOTA
WATER PERMIT NO. 7874-3

Date of first receipt of application July 22, 2013.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7874-3 to Arnie Beisch, 44877 142nd St. Waubay SD 57273 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. 7874-3 appropriates 1.0 cubic feet of water per second (cfs) from up to three wells to be completed into the Coteau Lakes Aquifer (40 feet deep) located in the NE 1/4 SE 1/4 Section 19 for irrigation of 60 acres located in the E 1/2 SE 1/4 Section 19; all in T122N-R52W within the former boundaries of the Sisseton Wahpeton Indian Reservation.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: May 1 – September 30.
3. The date from which applicant may claim right is July 22, 2013.
4. The date of approval of Permit No. 7874-3 is September 20, 2013.
5. One-fifth of the construction is to be completed on or before March 20, 2016.
6. All construction is to be completed on or before September 20, 2018.
7. Water is to be put to beneficial use on or before September 20, 2022.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 7874-3 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. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 7874-3 authorizes a maximum diversion rate of 1.0 cfs for the irrigation of 60 acres with an annual volume not to exceed 2 acre feet of water per acre per year.
4. 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 27 2013

date



Supplemental Information

(type or print)

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

a) If new wells, how many 1 Have test holes been drilled ☒ Yes ☐ No Drilled by _____
(if yes, please provide copies of logs)

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

c) Well Depth _____ 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)

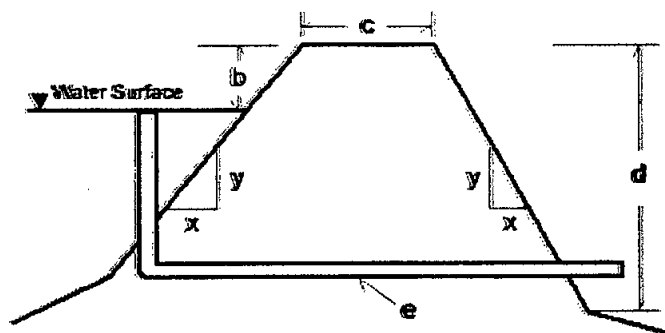
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

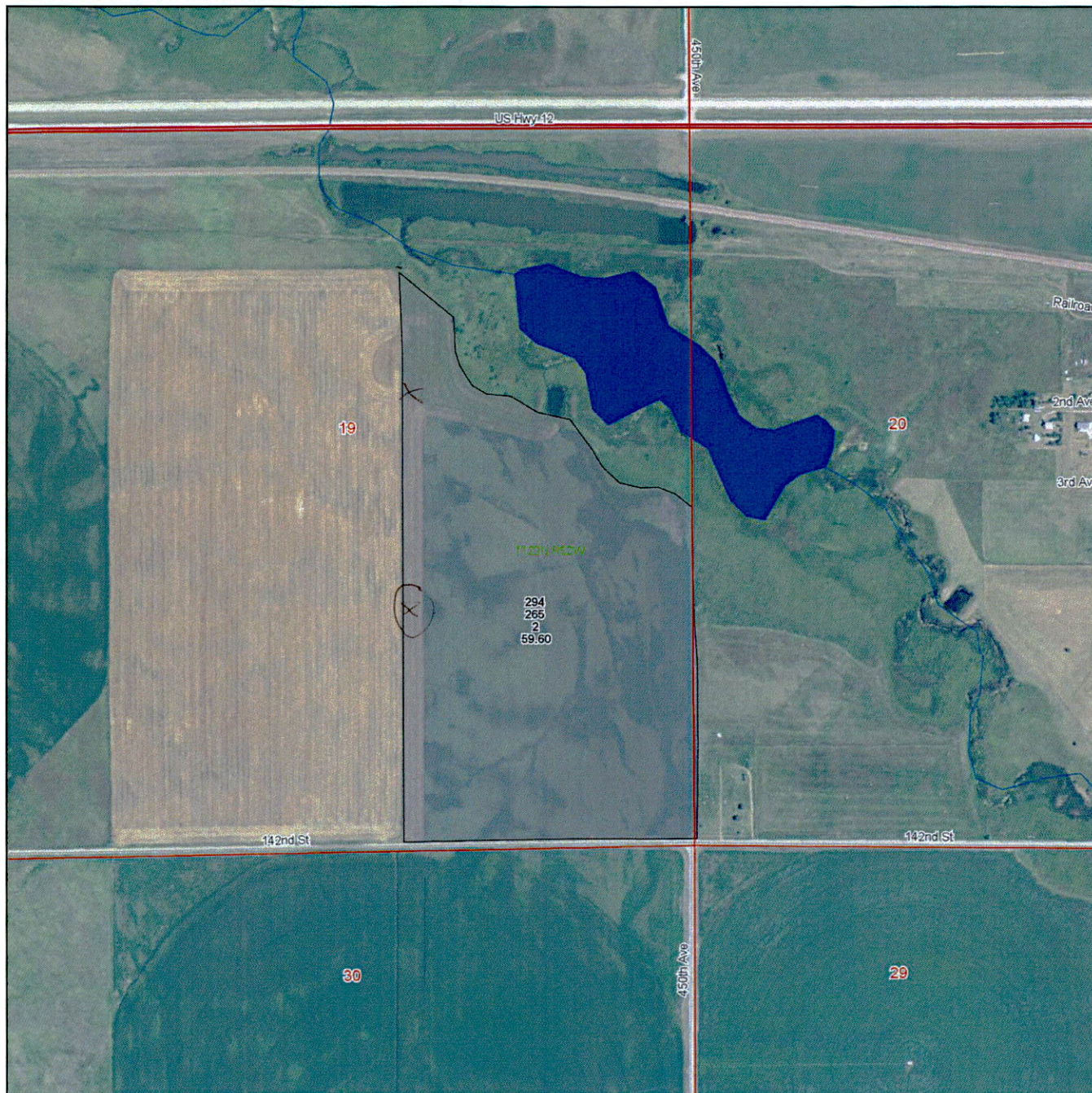
j) Drainage Area Above Dam _____ Acres



BEISCH, ARNIE
Arnie Beisch

ROBERTS, SD
T122N R52W sections 19,20,29,30

Crop Year:2013 Date Printed:6/21/2013



Provided Courtesy of:



LEGEND
■ Undesignated
(X) Pivot
TOTAL 0.00
ACRES
X Well

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RCIS | We grow stronger every day - together

Accole Bloom

Sec 12
T122N
R53W

Sec 7
T122N
R52W

Sec 8
T122N
R52W

Sec 13
T122N
R53W

Sec 18
T122N
R52W

Sec 17
T122N
R52W

Sec 24
T122N
R53W

Sec 19
T122N
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Sec 25
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Sec 30
T122N
R52W

Sec 29
T122N
R52W

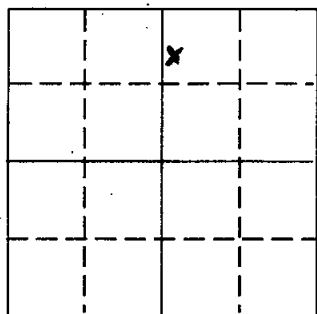
Sec 32
T122N
R52W

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW 1/4 NE 1/4 Sec 19 Twp 122 Rg 52W Well Owner: ARNIE BeischCounty DAKOTA
Roberts

North



Please mark well location with an "X"

Well completion Date

Sept 20, 2013

Distance from nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? 1/2 mile ft. from (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

ROTARY

CASING DATA:

- ☐ Steel ☐ Plastic ☐ Other

If other describe Test Hole

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
		Lb/gal	Ft	Ft
		Lb/gal	Ft	Ft

Describe grouting procedure Bentonite chips

SCREEN:

- ☐ Perforated pipe ☐ Manufactured

Diameter NA 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 sample sent to for water quality analysis _____

Business Name:

Address1:

Address2:

City, State, Zip:

WELL LOG:

DEPTH

FORMATION

FROM

TO

<u>150 ft</u>	<u>0</u>	<u>2</u>
<u>SAND + GRAVEL</u>	<u>2</u>	<u>40</u>

STATIC WATER LEVEL

EST 5' below

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

Note ↓
Test Hole - 150 - 180 gpm EST CAP.3 or 4 8" wells maybe NeededApply FOR (4)This well was drilled under license # 480

And this report is true and accurate.

Drilling firm: Wieber Well DrillingSignature of License Representative: James Wieber

Signature of Well Owner or Equitable Property Holder: _____

Date: 7-15-2013

Please return WHITE COPY to: DENR Water Rights, 523 E. Capitol Ave., Pierre SD 57501

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 7/22, 20 13

RECEIVED OF Arnie Beisch 44877 142nd St Waubay SD 57273

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

Fee for Application for Permit No. <u>7874-3</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>7874-3</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. **06390**

By Jeanne Landman
Chief Engineer

Water Rights Program - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: Application No. 7874-3, Arnie Beisch

ADDRESS: 44877 142nd St, Waubay SD 57273 COUNTY: Roberts

DATE: July 23, 2013 TELEPHONE:

RE: Number of wells

Mr. Beisch returned my phone call about the number of wells for his irrigation project. The application states a single well but a note on the test hole log submitted indicates the well driller advised him to apply for four (4) wells. Mr. Beisch was not sure why the driller stated that as the driller stated the test hole looked good. He said he may need up to three wells but the driller is so busy he has not been able to return with a generator to test pump the well.

I advised to apply for a maximum number of wells he might need to operate the system. Mr. Beisch requested that I amend his application to be for up to three wells. I told him if the permit is approved and the system developed and he gets good production from one well, the water right will be quantified accordingly.

NAME: Eric Humble



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

denr.sd.gov

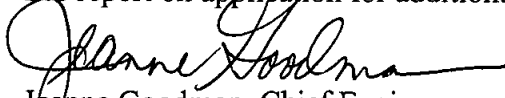
**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7874-3, Arnie Beisch**

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. 7874-3, Arnie Beisch, 44877 142nd Street, Waubay SD 57273.

The Chief Engineer is recommending APPROVAL of Application No. 7874-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 7874-3 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. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 7874-3 authorizes a maximum diversion rate of 1.0 cfs for the irrigation of 60 acres with an annual volume not to exceed 2 acre feet of water per acre per year.
4. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.


Jeanne Goodman, Chief Engineer
September 3, 2013

REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 7874-3
ARNIE BEISCH
SEPTEMBER 03, 2013

Water Permit Application No. 7874-3 proposes to appropriate water at a maximum diversion rate of 1.0 cubic feet of water per second (cfs) from up to three wells to be completed into the Coteau Lakes aquifer. The wells are expected to be 40 feet deep and are to be located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 19 for the irrigation of 60 acres located in the E $\frac{1}{2}$ SE $\frac{1}{4}$ Section 19; all in T122N-R52W within the former boundaries of the Sisseton Wahpeton Indian Reservation in Roberts County.

AQUIFER: Coteau Lakes (COL)

GEOLOGY AND AQUIFER CHARACTERISTICS:

The Coteau Lakes “aquifer” is a group of unconsolidated sand and gravel outwash deposits that are at or near ground surface in southeastern Marshall, eastern Day, and southwestern Roberts Counties (see Figure 1). These deposits may or may not be hydraulically connected with each other, but because of their similarities they are considered collectively as the Coteau Lakes aquifer by Gilbertson (1996) or the Coteau Lakes aquifer system by Thompson (2001). The outwash deposits are “most often adjacent to, and hydraulically connected with, one or more of the large lakes in these areas” (Gilbertson, 1996). This application proposes to withdraw water from an isolated outwash deposit near the town of Ortley. The deposit is shown in Figure 2. The outwash extends over an area of approximately 15,500 acres based on mapping done by Gilbertson (1996), Thompson (2001), and Buhler (2012c). According to Gilbertson (1996) the aquifer can be up to 60 feet thick in this area. In general, the groundwater movement is from the northeast to the southwest (Gilbertson, 1996). The Coteau Lakes aquifer can be found under confined and unconfined conditions. The test hole log submitted with this application found sand and gravel from two feet to 40 feet below grade. That indicates that at the proposed well sites the aquifer is under water table conditions.

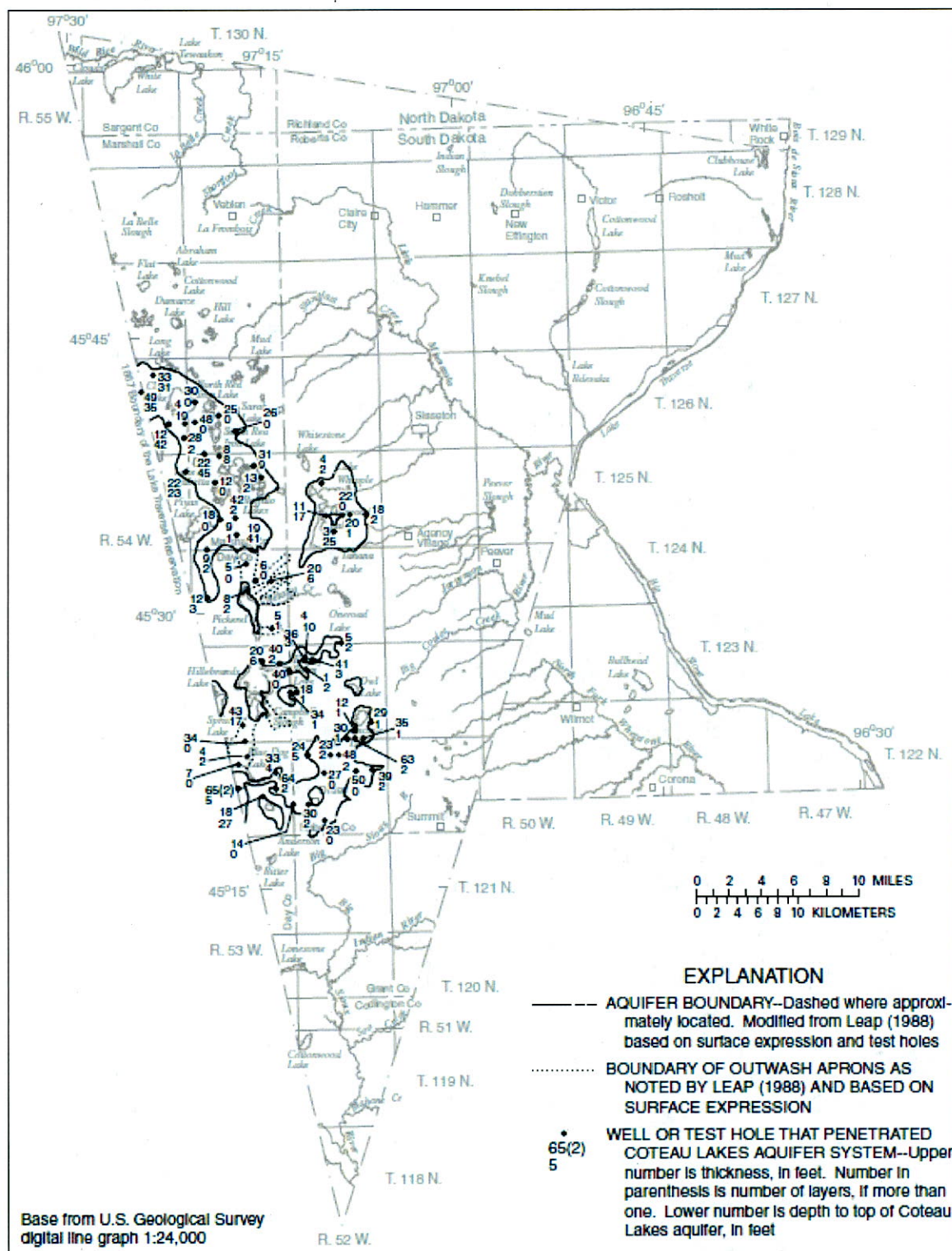


Figure 1- Thickness, depth, and extent of the Coteau Lakes aquifer system (Thompson, 2001)

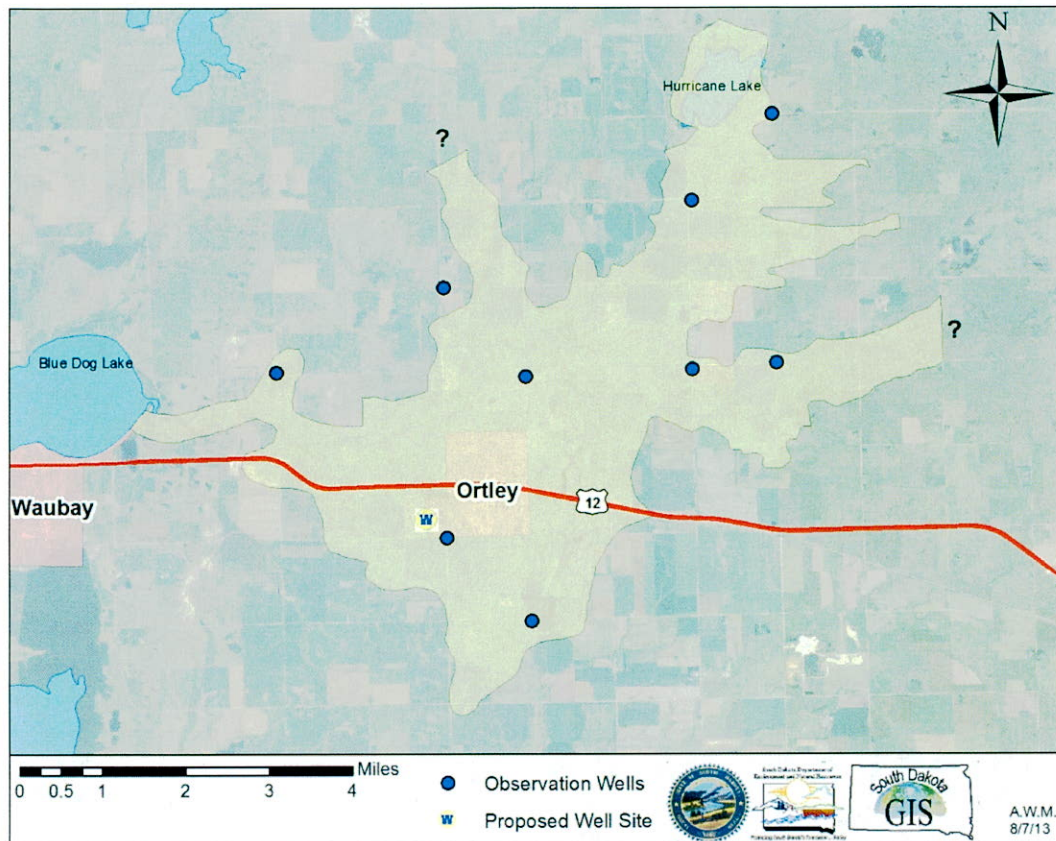


Figure 2- The Coteau Lakes aquifer in the vicinity of the well site proposed by Application No. 7874-3 (modified from Buhler, 2012c)

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, the proposed diversion can be developed without unlawful impairment of existing rights and the proposed use is a beneficial use and in the public interest. This report will address the availability of unappropriated water from the aquifer and the potential for impairment of existing rights.

WATER AVAILABILITY:

This application proposes to appropriate water from the Coteau Lakes aquifer system. Actual water use, if this application is approved, will likely be less than 120 acre-feet annually (ac-ft/yr). The probability of unappropriated water available from an aquifer can be evaluated by considering SDCL 46-6-3.1 which requires "No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source." If the source of the water is older or lower than the Greenhorn Formation and a public water system has applied for a permit, the Board need not consider the recharge/withdrawal issue. Here, a public water system is not involved and the aquifer is not older or lower than the Greenhorn Formation, therefore withdrawal/recharge issue must be considered.

Hydrologic Budget:

Recharge:

Recharge to the Coteau Lakes aquifer system is primarily by infiltration of rainfall and snowmelt, but at times it may be possible that adjacent lakes could recharge the aquifer (Thompson, 2001). The Coteau Lakes aquifer system may also be hydraulically connected to the Big Sioux aquifer, which may provide some groundwater inflow. The average annual recharge rate to the Coteau Lakes aquifer system was estimated to be 4.5 inches per year using observation well analysis (Hedges et. al, 1985). Estimated annual recharge to this portion of the Coteau Lakes aquifer is 5,812 ac-ft/yr.

Discharge:

Discharge from the Coteau Lakes aquifer system occurs through evapotranspiration, seepage to lakes, and well withdrawals. Water rights/permits appropriating water for irrigation from this portion of the Coteau Lakes aquifer system are shown in Table 1.

Permit No.	Name	County	Status	CFS	Acres
2662-3	Curtis L. Hanssen	RB	LC	2	267
2795-3	Earl Althoff	DA	LC	1.33	193
3288-3	Darrell D. Pies	RB	LC	1.22	154
3931-3	Maurice S. Dorsett	RB	LC	1.89	132
4041-3	James N. Endres Trustee	RB	PE	5.6	393
4041A-3	James N. Endres Trustee	RB	PE	0	0
4604-3	James N. Endres Trustee	RB	PE	2.1	156
4649-3	Curtis L. Hanssen	RB	LC	0.99	69
4886-3	Gregory Endres	RB	LC	1.78	136
5723-3	Endres Family Trust	RB	LC	1.89	132
5724-3	Endres Family Trust	RB	LC	1.89	132
6029-3	Endres Family Trust	RB	LC	1.78	136
6835A-3	Blooming Valley Grain Farms Inc	RB	PE	2.22	130
6836-3	James and Johnnylee Wohlleber	RB	PE	2.22	130
6885-3	Victor Maag	RB	PE	2.22	160
7073-3	Duane J. Gaikowski	RB	PE	5.13	359.5
7243-3	Rollin J. Morehouse	RB	PE	2.28	160
7832-3	Wohlleber Bros.	RB	PE	1.86	130

RB= Roberts, DA= Day, LC= Water Right, PE= Water Permit, IRR= Irrigation

Table 1- Water Rights/Permits appropriating water for irrigation (Water Rights, 2013b)

The total acreage currently authorized for irrigation from this portion of the Coteau Lakes aquifer system is 2,969.5 acres. The estimated annual recharge would allow for an application rate of 23.5 inches per year for every acre currently under permit. Adding in the proposed 60 acres would allow for a maximum application rate of 23 inches per year.

Hydrologic Budget:

Studies of irrigation application rates in South Dakota (Buhler, 2012a and 2012b) have shown that application rate, on average, does not exceed 12 inches per year even in an area with less precipitation than the area of this application. Since the average application rate is likely to be much less than 23 inches per year, withdrawals from this portion of the Coteau Lakes aquifer

system is not likely to exceed the estimated annual recharge to the area. Therefore, there is a reasonable probability that unappropriated water is available for this proposed appropriation.

Observation Well Data:

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

The DENR-Water Rights Program monitors 11 observation wells completed into the Coteau Lakes aquifer system with eight of the wells in the portion of the aquifer applicable to this application (Water Rights, 2013a). The nearest observation wells are RB-77S, RB-82B, and DA-78D and are 1.8 miles southeast, 2.1 miles northeast, and 2.5 miles northwest of the proposed well sites, respectively. The hydrographs for RB-77S, RB-82B, and DA-78D are shown in Figures 3, 4, and 5, respectively.

The hydrographs show that the water levels respond well to climatic conditions with rising water levels during wet periods and gradually declining water levels during dry conditions. The observation well data shows that at the current level of development, climatic conditions mask the temporal effects of well withdrawals. Therefore, the observation well data documents that recharge to and natural discharge from this aquifer significantly exceeds pumping. Recognizing that natural discharge can be captured for pumping, the hydrographs document that there is unappropriated water available from the aquifer to support this proposed appropriation.

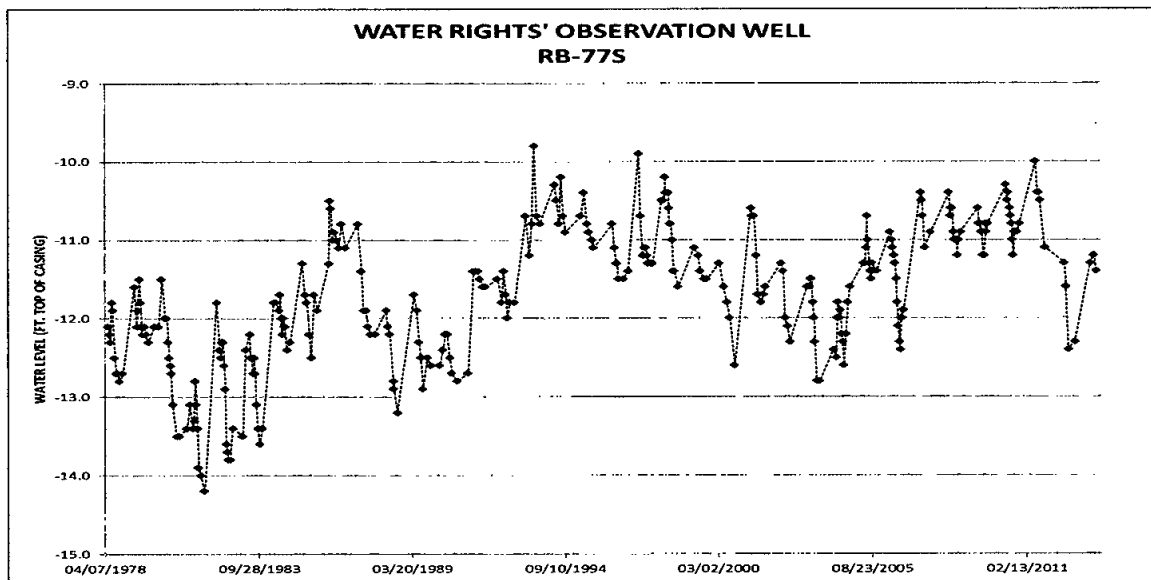


Figure 3- Hydrograph for observation well RB-77S (Water Rights, 2013a)

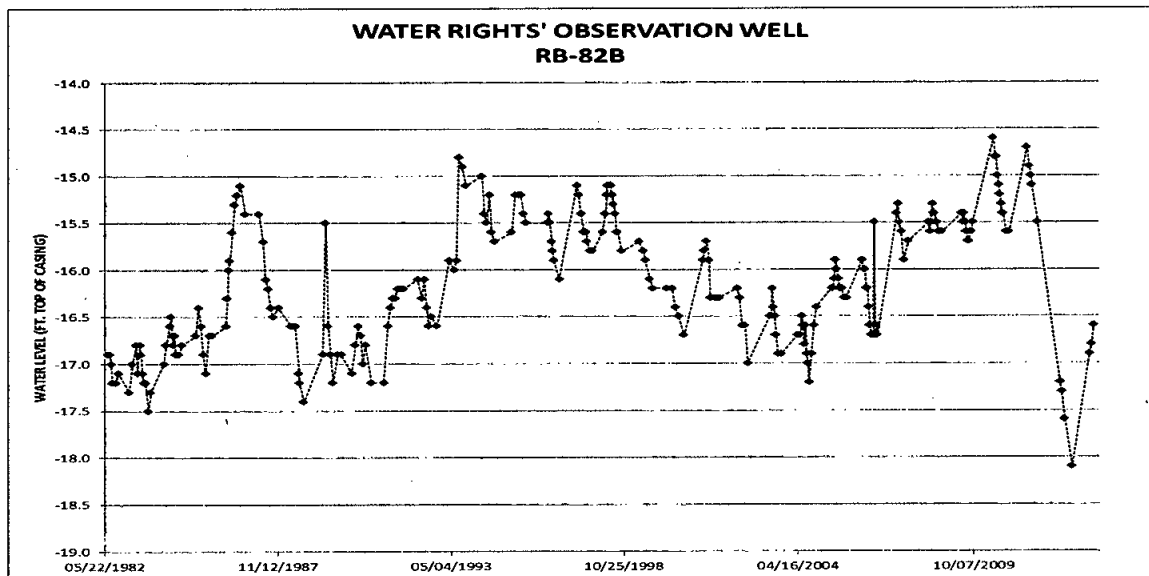


Figure 4- Hydrograph for observation well RB-82B (Water Rights, 2013a)

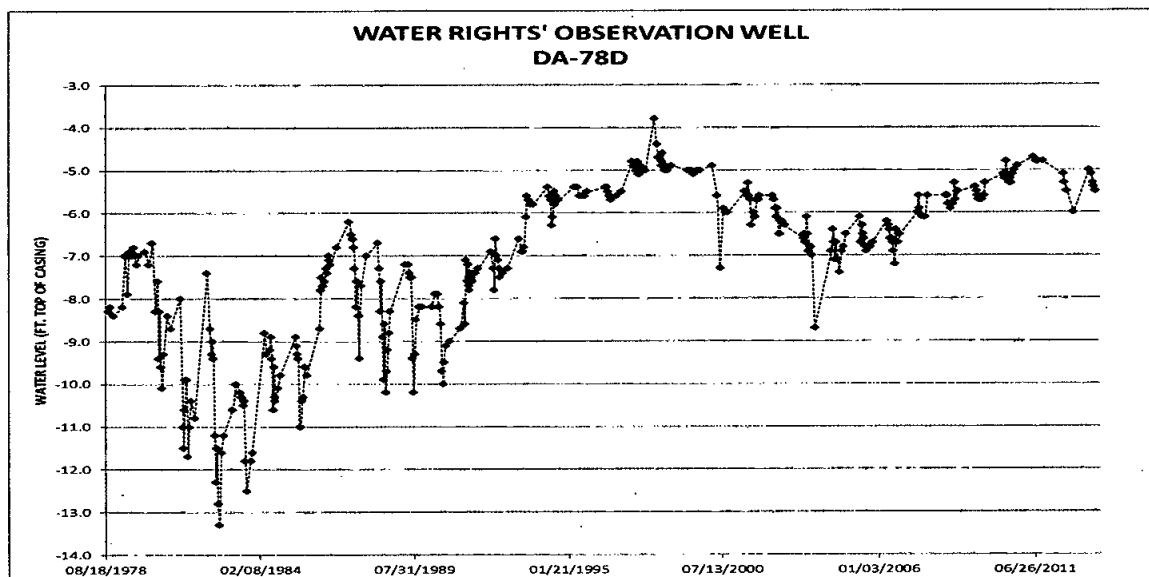


Figure 5- Hydrograph for observation well DA-78D (Water Rights, 2013a)

EXISTING WATER RIGHTS:

There has been a history of controversy related to water rights in this area. Petitions resulted in contested case hearings on water permit applications in 1976, 1981, and 1992. Issues of concern included: water availability, alleged impacts of chemigation, alleged cloudy water in domestic wells caused by irrigation pumping, and potential effects to Hurricane Lake. The DENR-Water Rights Program has investigated complaints in this area alleging: dirty water in domestic wells caused by irrigation withdrawals, dugouts going dry due to irrigation withdrawals, and a U.S. Fish and Wildlife wetland affected by irrigation withdrawals. In addition, the DENR-Water Rights Program has investigated complaints regarding irrigation system overspray in 2002, 2011, 2012, and there is currently an ongoing complaint regarding irrigation system overspray during the 2013 irrigation season.

The well sites proposed by this application are approximately 0.38 miles northwest of the nearest wells on file with the SD DENR-Water Rights Program (Water Rights, 2013c). These wells are authorized by Water Permit No. 6051-3. Even though Water Permit No. 6051-3 authorizes withdrawal from the Big Sioux: North aquifer, it is not clear if there is a significant hydraulic connection between the Big Sioux: North aquifer and this portion of the Coteau Lakes aquifer system. The nearest well that is authorized to withdraw water from the Coteau Lakes aquifer system is approximately 0.65 miles west of the proposed well sites (Water Rights, 2013b). That well is authorized under Water Right No. 3931-3.

The nearest domestic wells are in the town of Ortley and are approximately 0.7 miles east of the proposed well sites (Water Rights, 2013c). Many of the wells in Ortley are still used as primary domestic water supplies.

In the past, the Water Management Board has recognized that to place water to maximum beneficial use, a certain amount of drawdown may occur. The water table conditions of the aquifer in this area dictate that drawdown due to pumping would not be significant far from the proposed well sites.

While withdrawals would not exceed recharge of the aquifer as a whole, this cumulative impact of withdrawals could lead to a reduction of water levels to the extent that local rights/permits and domestic users can no longer pump at their developed, or “historically established,” diversion rates. This may be considered an adverse impact. If approved, the water permit should include a qualification that the well owner controls his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior 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 cfs for every 70 acres, or “the equivalent thereof.” The statute does provide that the Water Management Board may allow a greater diversion rate if the method of irrigation so requires. Water Permit Application No. 7874-3 proposes to divert 1.0 cfs from the Coteau Lakes aquifer system for the irrigation of 60 acres, or the equivalent of 1.17 cfs per 70 acres. The applicant did not specifically state a reason for the request, but based on the description of the land to be irrigated the center pivot will be making a “windshield wipe” instead of a full circle. In the past, it has been accepted that to run a “windshield wipe” center pivot requires a diversion rate greater than 1.0 cfs per 70 acres.

CONCLUSIONS:

1. Water Permit Application No. 7874-3 proposes to appropriate water at a maximum diversion rate of 1.0 cfs from the Coteau Lakes aquifer system for the irrigation of 60 acres in Roberts County.
2. There is a reasonable probability that unappropriated water is available from the Coteau Lakes aquifer to supply this proposed appropriation.

3. There is a reasonable probability that the diversion rate requested by this application can be made without adversely impacting existing water rights/permits and domestic users.
4. The applicant is requesting a diversion rate greater than the statutory limit. Based on a description of the land to be irrigated, the center pivot will make a “windshield wipe” motion and therefore, requires the higher diversion rate.



Adam Mathiowetz
SD DENR-Water Rights Program

Approved by:



Ken Buhler
SD DENR-Water Rights Program

REFERENCES:

- Buhler, K.A. 2012a. Report on Water Permit Application Nos. 7289-3, 7290-3, 7291-3, 7292-3, and 7293-3. SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, South Dakota.
- Buhler, K.A. 2012b. Report on Water Permit Application Nos. 7295-3, 7316-3, 7348-3, 7364-3, 7365-3, 7366-3, 7367-3, 7368-3, 7369-3, and 7370-3. SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, South Dakota.
- Buhler, K.A. 2012c. Report on Water Permit Application No. 6835A-3. SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, South Dakota.
- Gilbertson, J.P. 1996. Investigation of Ground Water Resources in Portions of Roberts County, South Dakota. SD DENR-Geological Survey open-File Report 81-UR.
- Hedges, L.S. J. Allen, and D.E. Holly. 1985. Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, Task 7: Ground Water Recharge. South Dakota DENR-Geological Survey, Vermillion, SD.
- Thompson, R.F. 2001. Water Resources of Lake Traverse Reservations, South and North Dakota, and Roberts County, South Dakota. U.S. Geological Survey Water-Resources Investigations Report 01-4219.
- Water Rights. 2013a. Observation Well Files. SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, SD.
- Water Rights. 2013b. Water Right/Permit Files. SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, SD.
- Water Rights. 2013c. Well Completion Reports. SD DENR-Water Rights Program. Joe Foss Bldg., Pierre, SD.

RECEIVED

SEP 12 2013

WATER RIGHTS
PROGRAM

Form 8

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Roberts) SS

I, Sylvia Deutsch

certify that the attached printed Notice was
taken

from the Sisseton Courier

printed and published in Sisseton

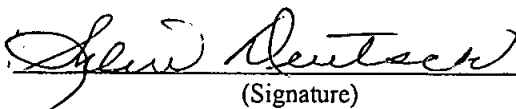
County of Roberts and

state of South Dakota. The notice was
published

in the newspaper on the following date:

September 10, 2013

Cost of Printing \$22.34


(Signature)

President

(Title)

September 10, 2013

(Date Signed)

NOTICE OF APPLICATION NO. 7874-3 TO APPROPRIATE WATER

Notice is given that Arnie Beisch, 44877 142nd St., Waubay, SD 57273, has filed an application for a water permit to appropriate 1.0 cubic feet of water per second from up to three wells to be completed into the Coteau Lakes Aquifer (40 feet deep) located in the NE1/4SE1/4 Section 19 for irrigation of 60 acres located in the E1/2SE1/4 Section 19; all in T122N-R52W within the former boundaries of the Sisseton Wahpeton Indian Reservation. The applicant is requesting a diversion rate greater than the statutory limit.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7874-3 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 September 20, 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 \$22.34.

RECEIVED

SEP 18 2013

WATER RIGHTS
PROGRAM

Form 8

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
County of Codington)

I, Monica K. Saathoff

certify that the attached printed Notice was
taken

from the Watertown Public Opinion

printed and published in Watertown

County of Codington and

state of South Dakota. The notice was
published

in the newspaper on the following date:

September 10th, 2013

Cost of Printing 60.19

Monica K. Saathoff
(Signature)

Bookkeeper

(Title)

September 10th, 2013

(Date Signed)

cation for a water permit to appropriate 1.0 cubic feet of water per second from up to three wells to be completed into the Coteau Lakes Aquifer (40 feet deep) located in the NE 1/4 SE 1/4 Section 19 for irrigation of 60 acres located in the E 1/2 SE 1/4 Section 19; all in T122N-R32W within the former boundaries of the Sisseton Wahpeton Indian Reservation. The applicant is requesting a diversion rate greater than the statutory limit.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7874-3 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 recommenda-

tion 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 September 20, 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 approximate cost of \$55.25. (September 10, 2013)

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

DEPARTMENT OF ENVIRON- MENT AND NATURAL RESOURCES

NOTICE OF APPLICATION NO. 7874-3 to Appropriate Water

Notice is given that Arnie Beisch, 44877 142nd St. Waubay SD 57273 has filed an appli-



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

September 3, 2013

Sisseton Courier
PO Box 169
Sisseton SD 57262

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7874-3 to Appropriate Water. Please publish the notice once on September 10, 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 Arnie Beisch, 44877 142nd St, Waubay SD 57273 (Ph # 605-881-4128).

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

September 3, 2013

Public Opinion
PO Box 10
Watertown SD 57201

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7874-3 to Appropriate Water. Please publish the notice once on September 10, 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 Arnie Beisch, 44877 142nd St, Waubay SD 57273 (Ph # 605-881-4128).

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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 DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.

September 3, 2013

Arnie Beisch
44877 142nd St
Waubay SD 57273

Dear Mr. Beisch:

Water Permit Application No. 7874-3 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 Sisseton Courier printed at Sisseton SD (Ph # 605-698-7642) and the Public Opinion printed at Watertown SD (Ph # 605-886-6901). You will need to contact the newspaper(s) and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper(s) to authorize publication of your Notice and to arrange for payment. Early contact with the paper(s) can eliminate delays. Upon receiving authorization from you, the publisher has been instructed to publish your notice. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352
enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.

Instruction to Newspaper - Publish the Notice on September 10, 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. 7874-3 to Appropriate Water

Notice is given that Arnie Beisch, 44877 142nd St, Waubay SD 57273 has filed an application for a water permit to appropriate 1.0 cubic feet of water per second from up to three wells to be completed into the Coteau Lakes Aquifer (40 feet deep) located in the NE 1/4 SE 1/4 Section 19 for irrigation of 60 acres located in the E 1/2 SE 1/4 Section 19; all in T122N-R52W within the former boundaries of the Sisseton Wahpeton Indian Reservation. The applicant is requesting a diversion rate greater than the statutory limit.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7874-3 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.

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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

SEP 27 2013

Arnie Beisch
44877 142nd St
Waubay SD 57273

Dear Mr. Beisch:

Enclosed is Water Permit No. 7874-3 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



**DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES**

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



November 18, 2014

7874-3

Arnie Beisch
44877 142nd St
Waubay SD 57273

Dear Mr. Beisch:

Thank you for completing and returning the 2014 irrigation questionnaire in a timely manner. The form was complete and nothing further is needed for this year.

I note from the form that you have completed your irrigation system and are 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,

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

Permit No. 7874-3
James River - Water District

Contact Person & Address: **Arnie Beisch, 44877 142 St, Waubay SD 57273**

Report of Examination of Works

On, **August 31, 2016**, I made a thorough examination of the water use system constructed by **Arnie Biesch** holder of Permit No. **7874-3**, bearing the priority of **July 22, 2013** authorizing the diversion of **1.0** cu. ft. per second of the waters of **ground water (Coteau Lakes Aquifer)** for **irrigation** purposes, in **Roberts** County.

The system is in the following condition **good**. The points of diversion are located **From the SE corner of Sec 19 T122N(res)-R52W: Diversion Point 1 - 2307 ft North and 1317 ft West** with latitude of **45.33294** and a longitude of **-97.21129** and **Diversion Point 2 - 2107 ft North and 1317 ft West** with latitude of **45.33232** and a longitude of **-97.21130** as determined using **GPS**. The works are capable of diverting and conveying to the place of use **0.89** 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 is located in **Sec 19 T122N(res)-R52W**

NE 1/4 SE 1/4 - 18 acres

SE 1/4 SE 1/4 - 30 acres

comprising a total of **48** acres of land and the license should be issued for **0.89** cfs.

Review of Permit Qualifications and Regulations:

- 1) Special qualifications to permit being abided by **yes**
- 2) All structures, wells and lands on map **yes**
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period **yes**.
- 4) Exceptions to compliance are: **none**

Report On the Specifics of the System

Diversion Point Information:

Well Information: Diversion 1 – north well

- | | | |
|---|---------------------------------|-----------------------------------|
| 1) Well Drilling Firm: <u>Wieber</u> | 2) No. of Wells <u>1</u> | 3) Depth(s) <u>40</u> feet |
| 4) Well log is available <u>yes</u> | | |

Casing:

- | | | |
|------------------------------------|---------------------------------|---------------------------|
| 1) Diameter <u>8</u> inches | 2) Length <u>NA</u> feet | 3) Type <u>PVC</u> |
|------------------------------------|---------------------------------|---------------------------|

Screen:

- | | | |
|-------------------------------|---------------------------------|--|
| 1) Type <u>slotted</u> | 2) Length <u>20</u> feet | 3) Static water level <u>7</u> feet |
|-------------------------------|---------------------------------|--|

Pump:

- | | | | |
|--------------------------|------------------------------------|--------------------------|---|
| 1) Make <u>NA</u> | 2) Model <u>submersible</u> | 3) Size <u>NA</u> | 4) Capacity <u>200</u> GPM for each well |
|--------------------------|------------------------------------|--------------------------|---|

Motor:

- | | | |
|--------------------------|--|--|
| 1) Make <u>NA</u> | 2) Model No. <u>submersible</u> | 3) Horsepower rating <u>10</u> hp |
|--------------------------|--|--|

Well Information: Diversion 2 – south well

- 1) Well Drilling Firm: Wieber 2) No. of Wells 1 3) Depth(s) 40 feet
4) Well log is available yes

Casing:

- 1) Diameter 8 inches 2) Length 18 feet 3) Type PVC

Screen:

- 1) Type slotted 2) Length 20 feet 3) Static water level 7 feet

Pump:

- 1) Make NA 2) Model submersible 3) Size NA 4) Capacity 200 GPM for each well

Motor:

- 1) Make NA 2) Model No. submersible 3) Horsepower rating 10 hp

DISTRIBUTION LINES OR CANALS:

- 1) Type PVC 2) Size 10 inches 3) Length 250 feet

SYSTEM TYPE:

Center pivot:

- 1) Make Valley 2) Overall length 1100 feet
3) Number of towers 7 4) End gun yes
5) High or low pressure low 6) Capacity 400 GPM

CHEMIGATION EQUIPMENT:

- 1) Does chemigate yes 2) Main line check valve yes
3) Inspection port/air relief yes 4) Low pressure drain yes
5) Discharge is 20' from source yes 6) Interlock type electric
7) Injection pump type piston 8) Injection check valve yes
9) Injection line check valve or positive displacement pump yes
10) All chemigation equipment appears to be installed in the proper position and complies with chemigation laws and rules yes



Mark D. Rath
Natural Resources Engineer III
DENR, Water Rights Program

September 26, 2016



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

September 7, 2016

Wieber Well Drilling
Jerry Wieber
PO Box 157
Lidgerwood ND 58053

Dear Mr. Wieber:

This letter is in regards to two irrigation wells that were drilled for Arnie Beisch of Waubay SD in the SE ¼ of the Sec 19 T122N-R52W. I recently did a water permit inspection and found two wells used to supply a center pivot irrigator. Mr. Beisch indicated you drilled these wells for him. I searched our records and was only able to find a test hole well log. Would you please look through your files and mail me the well logs for both wells. When you mail the well logs in please mark it: attention Mark Rath.

If you have any questions, please contact me at phone (605) 773-3352.

Sincerely,

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

4/28/17 changes per driller (Herb & Wieber Drilling) **SOUTH DAKOTA WATER WELL COMPLETION REPORT**

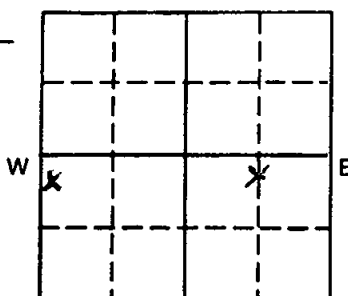
7874-3
 11-02

Location NW 1/4 SW 1/4 Sec 19 Twp 122 Rg 52

County Roberts

North (R)

Please mark well location with an "X"



Well completion Date

11/8/13

1 Mile

Distance from nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? ft from NMC (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Forward Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
200 LB/FT	8 IN	0 FT	18 FT	12 1/2 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Wyp-Bon</u>	<u>10</u>	<u>10</u> Lb/gal	<u>0</u> R	<u>15</u> FT
<u>no-step</u>		Lb/gal	FT	FT

Describe grouting procedure

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter 8 Inches Length 20 Feet

Material PVC EverFlo

Slot Size .040 Set From 18 Feet to 38 Feet

Other information

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

What material?

Where packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How?

☐ No, Why Not?

Sample sent to for

analysis

Well Owner:

Arnold Beisch

Business Name:

Address1:

44877 142nd St

Address2:

City, State, Zip:

Waubay, SD.

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>top soil</u>	<u>0</u>	<u>2</u>
<u>yellow clay</u>	<u>2</u>	<u>14</u>
<u>coarse gravel yellow</u>	<u>14</u>	<u>20</u>
<u>gray medium sand</u>	<u>20</u>	<u>38</u>
<u>blue clay</u>	<u>38</u>	<u>40</u>

STATIC WATER LEVEL

7

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?

yes

WELL TEST DATA:

☐ Pumped

Describe:

Air

☐ Bailed

☒ Other

Pumping Level Below Land Surface

11

FL After

1

Hrs. pumped

110

GPM

FL After

1

Hrs. pumped

110

GPM

If pump installed, pump rate:

GPM

REMARKS

Well #1 of 2
on quarter of land

This well was drilled under license #

480

And this report is true and accurate.

Drilling firm:

Wieber Well Drilling

Signature of Licensee/Representative:

Herb Wieber

Signature of Well Owner or Equitable Property Holder:

Date:

523 E. Capitol Ave., Pierre SD 57501

Return White Copy to DENR Water Rights

4/28/17 Changes made per conversation with driller
SOUTH DAKOTA WATER WELL COMPLETION REPORT

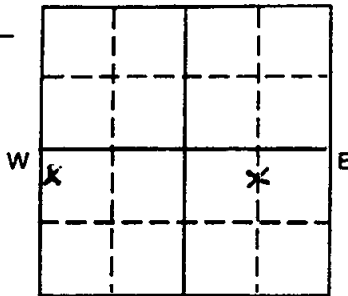
7874-3
 11-02

Location NW 1/4 SW 1/4 Sec 19 Twp 122 Rg 52

County Roberts

North

Please mark well location with an "X"



Well completion Date

11/8/13

1 Mile

Distance from nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? ft. from NMC (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Forward Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
200 LB/FT	8 IN	0 FT	18 FT	12 1/2 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Wyd-Bon	10	10 Lb/gal	0 FT	15 FT
no-step		Lb/gal	FT	FT

Describe grouting procedure

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter 8 Inches Length 20 Feet

Material PVC EverFlo

Slot Size .040 Set From 18 Feet to 38 Feet

Other information

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

What material?

Where packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How?
☒ No, Why Not?

Sample sent to for analysis

Well Owner:

Arnold Beisch

Business Name:

Address1:

44877 142nd St

Address2:

City, State, Zip:

Waubay, S.D.

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
top soil	0	2
yellow clay	2	14
coarse gravel yellow	14	20
gray medium sand	20	38
blue clay	38	40

STATIC WATER LEVEL

7 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?

yes

WELL TEST DATA:

☐ Pumped

Describe:

Air

☐ Bailed

☒ Other

Pumping Level Below Land Surface

11 Ft. After

1 Hrs. pumped

110 GPM

Ft. After

Hrs. pumped

GPM

If pump installed, pump rate:

GPM

REMARKS

Well #1 of 2
on quarter of land

This well was drilled under license #

480

And this report is true and accurate.

Drilling firm:

Wieber Well Drilling

Signature of Licensed Representative:

Henry Wieber

Signature of Well Owner or Equitable Property Holder:

Date:

523 E. Capitol Ave., Pierre SD 57501

White Copy to DENR Water Rights

From the SE corner of Sec 19 T122N(res)-R52W

Diversion Point 1

2307 ft North and 1317 ft West

Latitude 45.33294 Longitude - 97.21129

Diversion Point 2

2107 ft North and 1317 ft West

Latitude 45.33232 Longitude - 97.21130

Irrigation in Sec 19 T122N(res)-R52W

NE 1/4 SE 1/4 - 18 acres

SE 1/4 SE 1/4 - 30 acres

**Sec 19
T122N(res)-R52W**

0 460 920 1,840 2,760 3,680 Feet

Mark D Rath
Mark D Rath
Natural Resources Engineer
SD DENR - Water Rights
09-07-2016



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

7874-3

MAY 30 2017

Arnie Beisch
44877 142nd St
Waubay SD 57273

Dear Mr. Beisch:

Enclosed is Water License No. 7874-3. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the wells authorized by Water Right No. 7874-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Sincerely,

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

enclosures

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 7874-3

(1) Arnie Beisch, 44877 142nd St, Waubay SD 57273 made Application No. 7874-3, July 22, 2013 for a water permit to divert 1.0 cubic feet of water per second (cfs) from up to three wells – Coteau Lakes Aquifer, Roberts County, South Dakota for irrigation purposes. Permit No. 7874-3, with a priority date of July 22, 2013 was approved September 20, 2013 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before September 20, 2018 and for the application to beneficial use of water on or before September 20, 2022.

The permit holder stated on the 2014 Irrigation Questionnaire that the diversion system was completed.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 7874-3 is issued a license, bearing a priority date of July 22, 2013 to appropriate 0.89 cubic feet of water per second from two wells – Coteau Lakes Aquifer to irrigate 48 acres.

The diversion points are located as follows:

Diversion point 1 – 2,307 feet N and 1,317 feet W from SE corner Section 19 (NE 1/4 SE 1/4)
Diversion point 2 – 2,107 feet N and 1,317 feet W from SE corner of Section 19 (NE 1/4 SE 1/4);
all in T122N-R52W located within the former boundaries of the Sisseton Wahpeton Indian Reservation.

The acres authorized for irrigation are as follows: Section 19-T122N-R52W – total 48 acres

NE 1/4 SE 1/4	18 acres
SE 1/4 SE 1/4	30 acres

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 7874-3 including the following qualifications:

1. The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 7874-3 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. ***Both wells drilled in November, 2013 by Wieber Well Drilling. Copies of the logs are on file with the Water Rights Program.***
3. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints, or type of soils so requires, Permit No. 7874-3 authorizes a maximum diversion rate of 1.0 cfs for the irrigation of 60 acres with an annual volume not to exceed 2 acre feet of water per acre per year. ***Based on actual usage, the maximum diversion rate is reduced to 0.89 cfs and the number of acres is reduced to 48 acres.***
4. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.


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

MAY 30 2017
date





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

7874-3
8236-3

June 16, 2023

Arnie Beisch
44877 142nd Street
Waubay SD 57273

Dear Mr. Beisch:

The irrigation season is in full swing. This has led to the Department of Agriculture and Natural Resources (DANR) fielding inquiries regarding end gun overspray on to roads. This is a reminder that a water right holder is not allowed to operate an irrigation system in violation of state water law, which includes end gun overspray upon land not authorized by the water right.

DANR received an inquiry alleging the irrigation system located in the E 1/2 SE 1/4 Section 19 -T122N-R52W had irrigation water from the end gun hitting the road on 142nd Street. And irrigation system in the N 1/2 Section 25 -T122N-R53W had irrigation water from the end gun hitting the road on 142nd Street. The water rights for these systems are held in your name under Water License No. 7874-3 and Water Permit No. 8236-3.

Please take steps to ensure end gun stops are functioning properly so there is not direct overspray on to the road. If you don't believe your irrigation system is causing the overspray, or if you have any questions, please contact me at (605) 773-3352 or by email at ron.duvall@state.sd.us

Thank you for your cooperation,

Ron Duvall
Water Rights Program, DANR

Nos. 8238-3, 7874-3,
8236-3

Water Rights Program - File Documentation

NAME: Trevor Holscher – nephew of Neil Holscher

ADDRESS: 44834 142nd Street, Waubay SD 57273

DATE: June 21, 2023

RE: Overspray for Water Permit No. 8238-3

COMMENTS:

Trevor Holscher, the nephew of Neil Holscher called today to say that the overspray issue has been addressed for Water Permit No. 8238-3. He also went on to say that he spoke with Arnie Beisch whom has also taken care of his overspray issue; Water Right No. 7874-3 and Permit No. 8236-3.

Rachel Rodriguez

Rachel Rodriguez
Water Rights Program