

WATER PERMIT NO. 8383-3

Name of Applicant: Paul Leiseth

Address: 44405 179th St, Hazel SD 57242 Phone: 605 881-4373

Amount of Water Claimed: 2.0 cfs Total Acres: 150

Source of Water Supply: groundwater (two wells)

Water to be used for: irrigation County: Hamlin

Type of Waste Disposal System:

Location: 3 miles south of Hayti

PRIORITY Date Received: 12-6-18 Application/License Fee: \$1050

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

Remarks:

Diversion Point: SE 1/4 SW 1/4 Sec 4-T113N-R53W

Land to be Irrigated: SW 1/4 Sec 4-T113N-R53W

Depth of Well: 44

Well Driller: Steffl Drilling & Pump

Remarks:

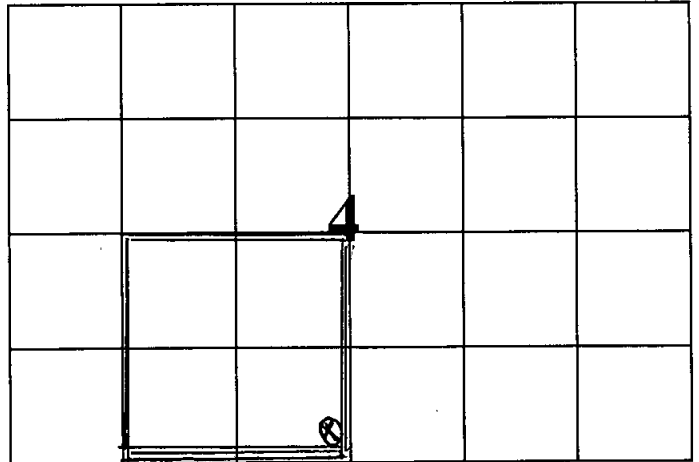
Type of Map: aerial

Prepared by:

Reviewed and the Number Assigned on: 12-6-18

By: Karen Schlaak

Notice of Hearing - date to intervene: _____



**SOUTH DAKOTA
WATER PERMIT NO. 8383-3**

Date of first receipt of application December 6, 2018.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8383-3 to Paul Leiseth, 44405 179th St, Hazel SD 57242 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. 8383-3 appropriates 2.0 cubic feet of water per second from two wells to be completed into the Big Sioux:Brookings Aquifer (44 feet deep) located in the SE 1/4 SW 1/4 Section 4 for irrigation of 150 acres located in the SW 1/4 Section 4; all in T113N-R53W. This site is located approximately 3 miles south of Hayti SD.
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 December 6, 2018.
4. The date of approval of Permit No. 8383-3 is February 19, 2019.
5. One-fifth of the construction is to be completed on or before August 19, 2021.
6. All construction is to be completed on or before February 19, 2024.
7. Water is to be put to beneficial use on or before February 19, 2028.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

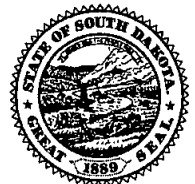
QUALIFICATIONS

1. The wells approved under Permit No. 8383-3 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 wells authorized by Permit No. 8383-3 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
Jeanne Goodman, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

FEB 26 2019
date



RECEIVED

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8383-3</u> (office use only) Hydrologic Unit <u>10170203</u>	DEC 06 2018 WATER RIGHTS PROGRAM PAID DEC 06 2018 Ck# <u>16490</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Hamlin Co. Herald Enterprise</u>	
	<u>Public Opinion</u>	

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 Paul Leiseth

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

Mailing Address 44405 179th St. Hazel SD 57242
(Address) (City) (State) (Zip Code)

Phone 605-628-2099 Mobile 605-881-4373 Email Leisethp@itctel.com

2. Amount of water claimed 2.0 *CFS or 900 **GPM ***AF Total Acreage 150
(*Cubic Feet per Second) (**Gallons per Minute) (**Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Wells

4. Location of point of diversion possibly 2 wells SE corner of SW 1/4 Sec 4-T113N-R53W
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

County Hamlin

5. County or counties where water will be used Hamlin

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

7. List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
NW 1/4 of the SW 1/4 Sec 4 T113N-R53W	37.5		
NE 1/4 of the SW 1/4 Sec 4 T113N-R53W	37.5		
SW 1/4 of the SW 1/4 Sec 4 T113N-R53W	37.5		
SE 1/4 of the SW 1/4 Sec 4 T113N-R53W	37.5		

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

I, Paul Leiseth Owner, the applicant, certify under
Name of Person Title (if applicable)

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

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 2 Have test holes been drilled ☒ Yes ☐ No Drilled by Steffl Drilling
(if yes, please provide copies of logs)b) If existing wells, how many 0 Provide copy of log(s), if available. Drilled by _____

For either Existing or Proposed Wells:

c) Well Depth (required) 44 Depth to Top of Water Bearing Material 6' Depth to Water from Surface 15'd) Distance to nearest domestic well on applicant's property NA Property owned by others 1/4 South**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)

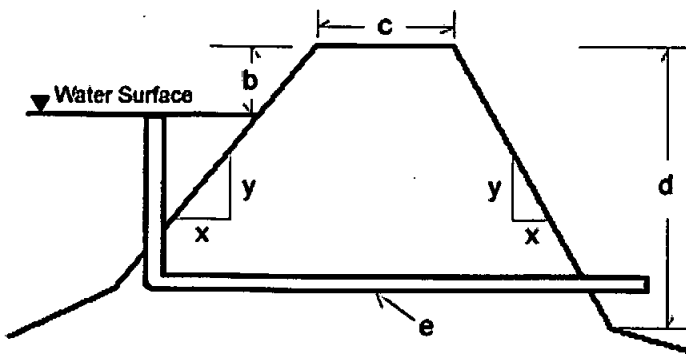
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres



T113N 53W SW 1/4 SEC 4

Irrigated 143 acres

Legend

 well location

21

450th Ave

191st St

X

 well location

N

1000 ft

Google Earth

© 2018 Google

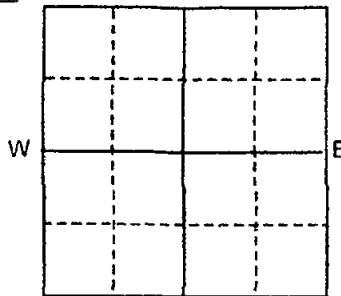
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 4 Twp 113 Rg 53

County Hamlin

North

Please mark well
location with an "X"

Well Completion Date

November 15, 2018

1 Mile

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

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

CASING DATA:

☐ Steel ☐ Plastic ☐ Other

If other describe

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

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
H.S. Bent	4	Lb/gal	0.0 Ft	76.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
Drill Rod

SCREEN:

☐ Perforated pipe ☐ Manufactured
 Diameter _____ Inches Length _____ Feet
 Material _____
 Slot Size _____ Set From _____ Feet to _____ Feet
 Other information _____

WAS A PACKER OR SEAL USED?

☐ Yes ☐ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☐ Yes. How?
☐ No. Why Not?
 Lab to which water
 quality sample sent for analysis

Well Owner: Paul Leiseth

Business Name:

Address: 44405 179th ST

City, State, Zip: Hazel SD 57242

WELL LOG:

FORMATION			DEPTH	
			FROM	TO
Topsoil	Blk	M	0	1
Clay	Tan	M	1	3
Sand	Tan/Blu	M	3	44
Clay	Blue	M	44	76

STATIC WATER LEVEL

 FEET
 If flowing: closed in pressure _____ PSI
 GPM flow _____ through _____ Inch pipe
 Controlled by ☐ Valve ☐ Reducers ☐ Other
 Reduced flow rate _____ GPM
 Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe:
☐ Bailed
☐ Other

Pumping Level Below Land Surface

 _____ Ft. After _____ Hrs. pumped _____ GPM
 _____ Ft. After _____ Hrs. pumped _____ GPM
 If pump installed, pump rate. _____ GPM

REMARKS

 Test Hole #1
 44 36 56.70N
 97 12 00.00W

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

Drilling firm: Steffl Drilling & Pump Inc

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

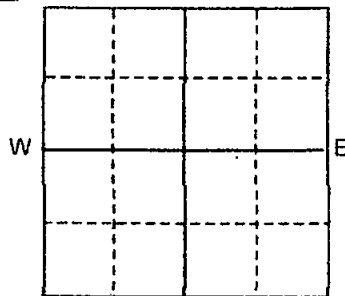
Date:

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location 1/4 SW 1/4 Sec 4 Twp 113 Rg 53County Hamlin

North

Please mark well
location with an "X"

Well Completion Date

November 15, 2018

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

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

CASING DATA:

☐ Steel ☐ Plastic ☐ Other

If other describe _____

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

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
H.S. Bent	4	Lb/gal	0.0 Ft	76.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
Drill Rod

SCREEN:

☐ Perforated pipe ☐ Manufactured

Diameter _____ Inches

Length _____ Feet

Material _____

Slot Size _____ Set From _____ Feet to _____ Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ Yes ☐ No

If so, what material? _____

Describe packer(s) and location _____

DISINFECTION: Was well disinfected upon completion?

☐ Yes How? _____
☐ No, Why Not? _____
 Lab to which water
 quality sample sent for analysis
Well Owner: Paul Leiseth

Business Name: _____

Address: 44405 179th STCity, State, Zip: Hazel SD 57242

WELL LOG:

FORMATION			DEPTH	
			FROM	TO
Topsoil	Blk	M	0	1
Clay	Tan	M	1	9
Sand	Tan	20-60SLT	9	44
Clay	Blue	M	44	76

STATIC WATER LEVEL

 FEET
 If flowing: closed in pressure _____ PSI
 GPM flow _____ through _____ Inch pipe
 Controlled by ☐ Valve ☐ Reducers ☐ Other _____
 Reduced flow rate _____ GPM
 Can well be completely shut in? _____

WELL TEST DATA:

☐ Pumped Describe:
☐ Bailed
☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

 Test Hole #3
 44 36 58.90N
 97 11 57.00W
This well was drilled under license # 463 and this report is true and accurate.Drilling firm: Steffl Drilling & Pump Inc

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

This is an aerial photograph of a rural area, likely in the Midwest, showing a grid of land sections. The sections are labeled with their respective township and range coordinates. The terrain is mostly green, indicating agricultural land, with some areas of bare earth or water. A prominent road or canal runs vertically through the center of the image. The sections are arranged in a 3x3 grid, with the central section (Sec 4) being the largest and most prominent.

Sec 32
T114N
R53W

Sec 33
T114N
R53W

Sec 34
T114N
R53W

Sec 5
T113N
R53W

Sec 4
T113N
R53W

Sec 3
T113N
R53W

Sec 8
T113N
R53W

Sec 9
T113N
R53W

Sec 10
T113N
R53W

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date December 6, 20 18

Leiseth Farms, Inc. 44405 179th St Hazel SD 57242

RECEIVED OF _____

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

Fee for Application for Permit No. <u>8383-3</u> to Appropriate Water, to construct and to put water to beneficial use	850	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>8383-3</u>	200	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	1050 00

No. 08825

By Jeannie Goodman
Chief Engineer
24



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

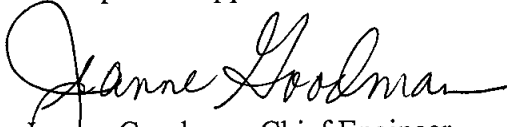
**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8383-3, Paul Leiseth**

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. 8383-3, Paul Leiseth, 44405 179th Street, Hazel SD 57242.

The Chief Engineer is recommending APPROVAL of Application No. 8383-3 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 Permit No. 8383-3 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 wells authorized by Permit No. 8383-3 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.


Jeanne Goodman, Chief Engineer
January 29, 2019

REPORT ON WATER PERMIT APPLICATION NO. 8383-3

Paul Leiseth

January 29, 2019

Water Permit Application No. 8383-3 proposes to irrigate 150 acres at a maximum diversion rate of 2.0 cubic feet per second (cfs) of water from two wells (44 feet deep) to be completed into the Brookings management unit of the Big Sioux aquifer located in the SE ¼ SW ¼ Section 4. The irrigated acres are to be in the SW ¼ Section 4; all in T113N-R53W. The site is located approximately 3 miles south of Hayti, SD in Hamlin County.

Aquifer: Big Sioux: Brookings (BS:B)

Hydrogeology

The Brookings management unit of the Big Sioux aquifer is an alluvium mantled outwash consisting of well sorted, permeable, medium to coarse sand and fine to medium gravel (Stonesifer, 2013). The areal extent of the Big Sioux: Brookings aquifer was estimated to be approximately 323,000 acres covering areas of Brookings, Kingsbury, Deuel, Hamlin, and Moody Counties (Stonesifer, 2013). The Big Sioux: Brookings aquifer is hydraulically connected to the Big Sioux River with a general groundwater movement to the south (Hamilton, 1989).

Based on a nearby USGS test hole there is topsoil from ground surface to 2 feet, fine to coarse sand with silt from 2 to 14 feet, medium to very coarse sand from 14 to 38 feet, and clay and silt from 38 to 41 feet below ground surface. Based on test hole logs submitted with the permit application there is clay from 41 to 76 feet below ground surface. The static water level was at 16.26 feet at the time of completion of the USGS test hole (August 27, 1973) (South Dakota Geological Survey, 2019). The Big Sioux: Brookings aquifer is unconfined in the area of Application No. 8383-3.

Observation well HN-2005A (1.2 miles to the southwest of the proposed site) shows the water table varying by 6 feet over the period of record (1976 – 2018) (Water Rights, 2019c). Based on the static water level at the time of completion of the USGS test hole and the test hole information, the estimated saturated thickness of the Big Sioux: Brookings aquifer in the area of Application No. 8383-3 varies between approximately 19 and 25 feet. It should be noted that since the USGS test hole was drilled during the summer, the assumption is made that there was irrigation pumping affecting the water table at the time, making this estimate an approximation and there is a degree of error associated with this estimated saturated thickness.

South Dakota Codified Law 46-2A-9

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

Water Availability

SDCL 46-6-3.1 is considered when evaluating the probability of unappropriated water from an aquifer and states "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. An application may be approved, however, for withdrawals of groundwater from any groundwater formation older than or stratigraphically lower than the greenhorn formation in excess of the average estimated annual recharge for use by water distribution systems." The Big Sioux: Brookings aquifer is not older or lower than the Greenhorn Formation, and there is no water distribution system involved. Therefore, the recharge and withdrawal rates must be considered.

Hydrologic Budget

Recharge

Recharge to the Big Sioux: Brookings aquifer occurs primarily through infiltration of precipitation on the aquifer area, and seepage from the Big Sioux River and its tributaries (Koch, 1980). Recharge to the Big Sioux: Brookings aquifer was estimated by Hedges, Allen and Holly (1985) to be 4.0 in/yr using observation well data analysis. Using the areal extent estimated by Stonesifer (2013) (323,000 acres) and 4.0 in/yr, the estimated average annual recharge to the Big Sioux: Brookings aquifer is approximately 108,000 ac-ft/yr.

Discharge

Discharge from the Big Sioux: Brookings aquifer occurs through evapotranspiration in areas where the aquifer is near land surface, well withdrawals, and outflow to hydraulically connected sediments and springs (Hamilton, 1989; Kume, 1985; Koch, 1980). Currently, there are a total of 274 water rights/permits including eleven future use permits appropriating water from the Brookings management unit of the Big Sioux aquifer (Water Rights, 2019a). The eleven future use permits combined have reserved 6,686 ac-ft/yr. All current non-irrigation water rights/permits appropriating water from the Big Sioux: Brookings aquifer are summarized in Table 1. The amount of water that can be expected to be withdrawn by the non-irrigation water

rights/permits can be estimated by assuming water rights/permits limited by an annual volume will pump the entire volume appropriated annually. Non-irrigation water rights/permits limited only by diversion rate are assumed to pump at the maximum permitted diversion rate 60 percent of the time. Estimated water usage for municipal rights/permits currently using rural water systems have been accounted for in the rural water system (RWS) section of Table 1. There are 5 municipal water rights currently using rural water systems: the City of Clear Lake (534A-3, 5071-3), the City/Town of Hayti (617-3, 3117-3) and the City of Bruce (4950-3).

Table 1: Summary of expected water use of non-irrigation rights/permits authorized to withdraw water from the Big Sioux: Brookings aquifer (Water Rights, 2019a).

Use Type	No. of Water Rights/Permits	Appropriation (cfs)	Appropriation (ac-ft)	Expected Annual Use (ac-ft)
MUN	16	5.190	1,914	4,168
IND	2	0.244		106
RWS	16	7.560	4,037	7,321
COM	9	3.235		1,405
SHD	2	0.070		30
GEO	1	0.000	120	120
Total	46	16.299	6,071	13,150
MUN = Municipal, IND = Industrial, RWS = Rural Water System, COM = Commercial, SHD = Suburban Housing Development, GEO = Geothermal				

There are a number of well completion reports on file with SD DENR- Water Rights Program for domestic wells that appear to be completed into the Big Sioux: Brookings aquifer. However, due to the low population density, their annual withdrawal is not significant to the hydrologic budget for the aquifer (Water Rights, 2019b).

There are 217 water rights/permits for irrigation currently authorized to appropriate water from the Big Sioux: Brookings aquifer. The historical irrigation pumpage for the Big Sioux: Brookings aquifer is shown in Figure 1. The average annual irrigation pumpage of the period of record for the entire aquifer is 8,889.9 ac-ft/yr.

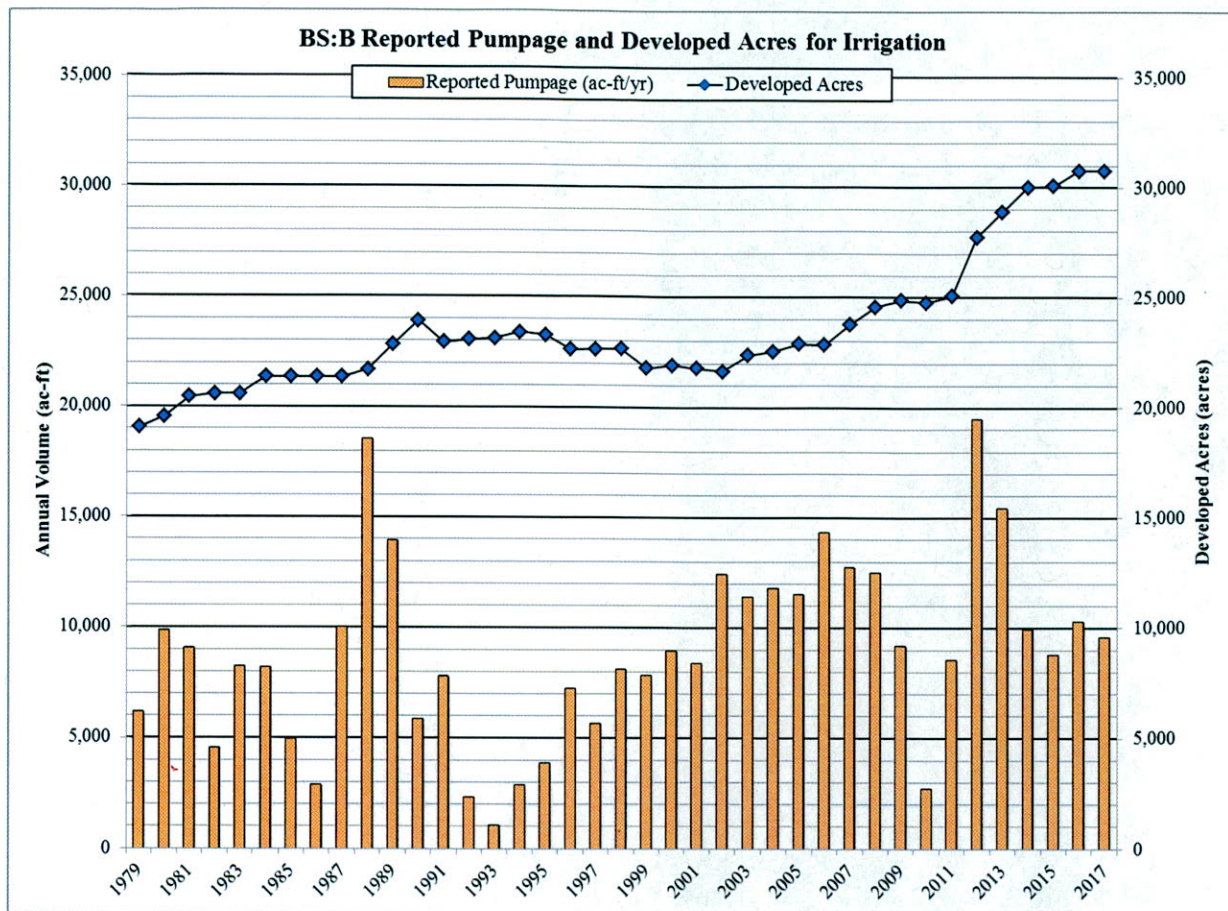


Figure 1: Historical irrigation questionnaire data and developed acres by year for irrigation rights/permits in the Big Sioux: Brookings (BS:B) aquifer (Water Rights, 2019a; Water Rights, 2019d). Developed acres for water rights are calculated by taking the licensed acres and backdating that value to the priority date. Developed acres for permits use the permitted acres starting at the priority date.

Hydrologic Budget Summary

The estimated average annual withdrawals from the Big Sioux: Brookings aquifer are 6,686 ac-ft/yr reserved for future use permits, 13,150 ac-ft/yr from non-irrigation users and 8,889.9 ac-ft/yr from irrigation. If approved, Permit Application No. 8383-3 will use 300 ac-ft/yr assuming full appropriation. Therefore, the total estimated average annual withdrawal from the Big Sioux: Brookings aquifer is 29,026 ac-ft/yr.

The estimated average annual recharge to the Big Sioux: Brookings aquifer is approximately 108,000 ac-ft/yr. Subtracting the estimated average annual withdrawals from the estimated average annual recharge results in 78,974 ac-ft/yr of unappropriated water. Due to the relatively small development of this significant resource, there is a reasonable probability there is unappropriated water available from the Big Sioux: Brookings aquifer for the proposed appropriation.

Observation Well Data

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

The DENR-Water Rights Program monitors 79 observation wells completed into the Big Sioux: Brookings aquifer (Water Rights, 2019c). The location of this proposed application is within a reasonable distance of several observation wells. These observation wells provide data on how the aquifer reacts to regional climatic conditions and local pumping. Three nearby observation wells that can be used for analysis of Permit Application No. 8383-3 are HN-2005A (1.2 miles southwest), HN-76D (1.4 miles southwest) and HN-2005B (1.7 miles southwest) as seen in Figure 2.

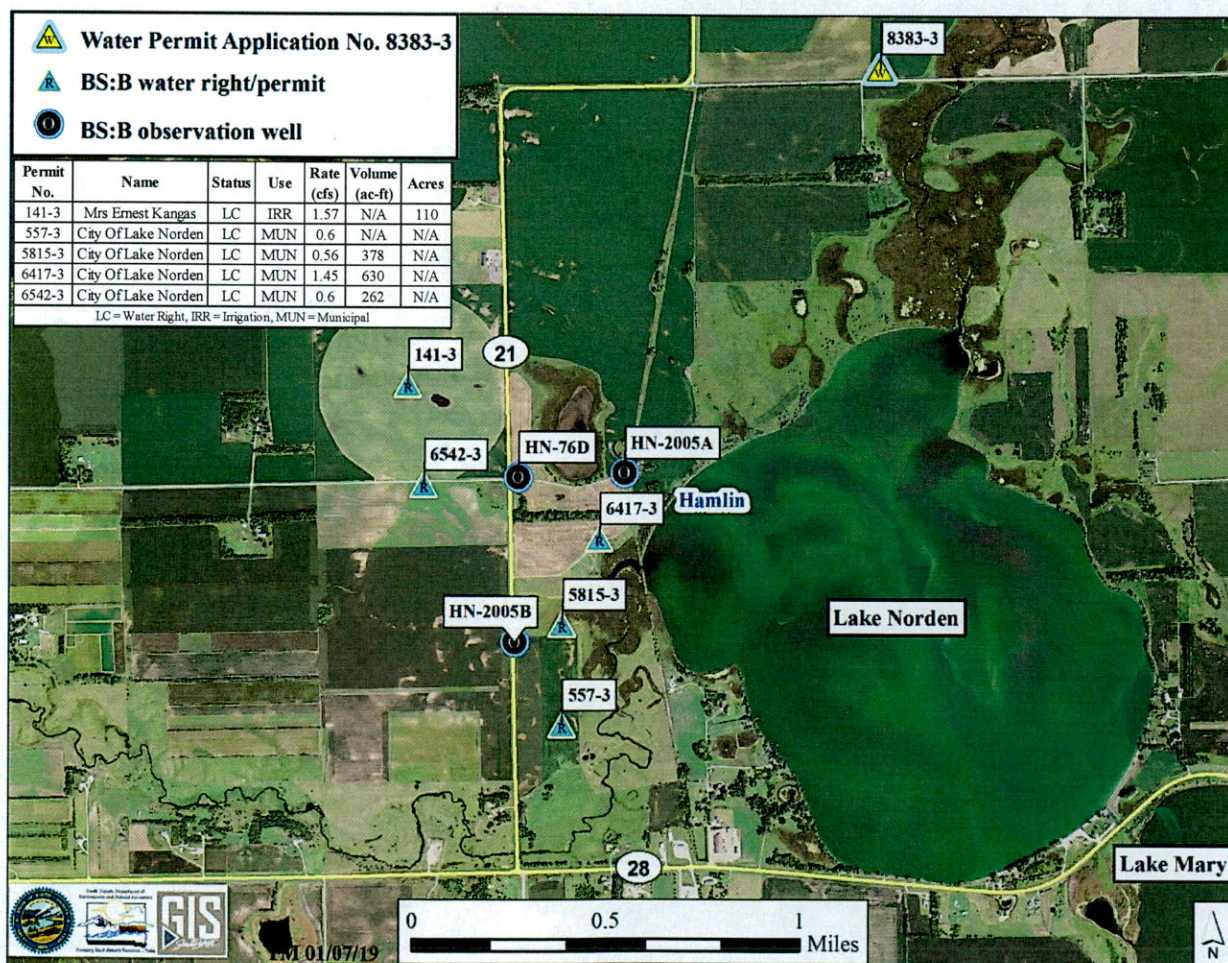


Figure 2: Map showing the location of Water Permit Application No. 8383-3, water rights/permits and nearby observation wells in the Big Sioux: Brookings aquifer (BS:B) (Water Rights, 2019a; Water Rights, 2019c).

The hydrographs for HN-2005A, HN-76D, and HN-2005B are shown in Figure 3. Observation well HN-76D was destroyed by construction work in the area in the Spring of 2004 and HN-2005A and HN-2005B were constructed June 15, 2005, to measure water levels in the aquifer in that area. These observation well hydrographs are representative of the Big Sioux: Brookings aquifer and show that the aquifer responds well to hydrologic conditions, recharging during wetter periods and declining during drier periods.

The water levels in the observation wells show that the amount of recharge to and natural discharge from the aquifer greatly exceeds pumping with the aquifer returning to pre-pumping condition between irrigation seasons. Therefore, recharge to, and natural discharge from the Big Sioux: Brookings aquifer can be captured for pumping, and the hydrographs document that unappropriated water is available for this proposed appropriation.

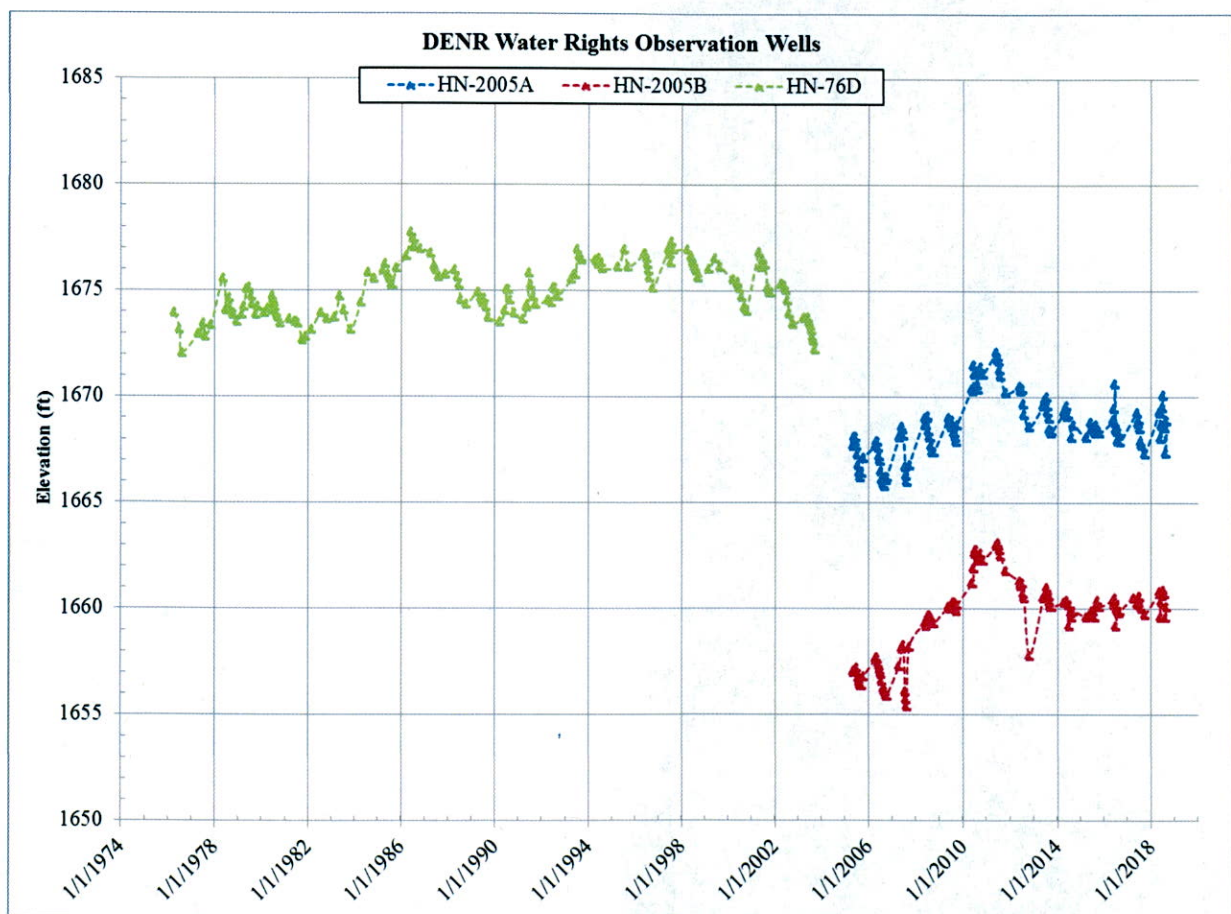


Figure 3: Hydrographs for Observation Wells HN-2005A, HN-76D and HN-2005B (Water Rights, 2019c).

Existing Water Rights

Currently, there are 274 water rights/permits including eleven future use permits appropriating water from the Big Sioux: Brookings aquifer (Water Rights, 2019a). There are 5 water right/permit diversion points currently authorized to withdraw water located within an

approximately 2-mile radius of the proposed application illustrated in Figure 2. The nearest water right/permit completed into the Big Sioux: Brookings aquifer is located approximately 0.9-miles to the southwest. There are a number of domestic wells on file with the SD DENR-Water Rights Program within approximately 2-miles of the diversion point that appear to be completed into the Big Sioux: Brookings aquifer (Water Rights, 2019b).

The Big Sioux: Brookings is expected to be unconfined in this area, so drawdown from pumping is not expected to extend a significant distance from the proposed well site. Observation well data can provide insight into how the aquifer reacts to local pumping. Over the period of record, the water table shown in the hydrograph for observation well HN-2005A (Figure 2) varies between 5 and 11 feet below grade. Saturated thickness of the Big Sioux: Brookings aquifer in the area of Application No. 8383-3 is estimated to range from approximately 19 to 25 feet based on a nearby USGS well log (Water Rights, 2019a; Water Rights, 2019c). This would allow sufficient saturated thickness for a pump to be placed 20 feet below the top of the aquifer. An adequate well as defined in Administrative Rule of South Dakota (ARSD) 74:02:04:20(6) should not be adversely impacted by pumping at this proposed diversion rate.

The Water Management Board defined an “adversely impacted domestic well” in ARSD 74:02:04:20(7) as:

“A well in which the pump intake was set at least 20 feet below the top of the aquifer at the time of construction or, if the aquifer is less than 20 feet thick, is as near to the bottom of the aquifer as is practical and the water level of the aquifer has declined to a level that the pump will no longer deliver sufficient water for the well owner's needs”

Considering the lack of well interference complaints and the saturated thickness of the Big Sioux: Brookings aquifer in the area, well interference from this proposed diversion is not expected to cause an adverse impact. Therefore, there is a reasonable probability that any interference created by pumping for this proposed appropriation will not be adverse.

Conclusions

1. Water Permit Application No. 8383-3 proposes to irrigate 150 acres at a maximum diversion rate of 2.00 cubic feet per second (cfs) of water from two wells (44 feet deep) to be completed into the Big Sioux: Brookings aquifer.
2. Based on observation well data and the hydrologic budget, there is a reasonable probability that unappropriated water is available from the Big Sioux: Brookings aquifer.
3. There is a reasonable probability that the diversion proposed by this application will not adversely impact adequate wells for existing water rights and domestic use.


Timothy Magstadt
SD DENR – Water Rights Program

References

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- 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*. Vermillion: Department of Water and Natural Resources.
- Koch, N. C. (1980). *Appraisal of the Water Resources of the Big Sioux Aquifer, Brookings, Deuel, and Hamlin Counties, South Dakota; Water-Resources Investigations 80-100*. USGS, Huron, SD.
- Kume, J. (1985). *Water Resources of Deuel and Hamlin Counties, South Dakota; Water-Resources Investigations Report 84-4069*. SDGS, Huron, SD.
- South Dakota Geological Survey. (2019). *Lithologic Logs Database*. Retrieved 11/16/2019, from SDDENR:
http://cf.sddenr.net/lithdb/search_results_lith.cfm?Search1=6&search_type=simple&page_num=1&search=Search&input_box=113N53W04CDDD
- Stonesifer, J. R. (2013). *Report on Water Permit Application No. 7854-3 David Ulvestad*. SD DENR-Water Rights Program, Joe Foss Bldg., Pierre, SD, 57501.
- Water Rights. (2019a). *Water Right/Permit Files*. Joe Foss Bldg., Pierre, South Dakota.: SD DENR-Water Rights Program.
- Water Rights. (2019b). *Well Completion Report Files*. Joe Foss Bldg., Pierre, South Dakota.: SD DENR-Water Rights Program.
- Water Rights. (2019c). *Observation Well Database*. Joe Foss Bldg., Pierre, South Dakota.: SD DENR-Water Rights Program.
- Water Rights. (2019d). *Irrigation Questionnaire database*. Joe Foss Bldg., Pierre, South Dakota.: SD DENR-Water Rights Program.

RECEIVED

FEB 19 2019

WATER RIGHTS
PROGRAM

Form 8

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of Codington) SSI, Jackie Wettestadcertify that the attached printed Notice was
takenfrom the Watertown
Public Opinionprinted and published in WatertownCounty of Codington andstate of South Dakota. The notice was
published

in the newspaper on the following date:

February 6, 2019Cost of Printing \$42.06Jackie Wettestad
(Signature)Business Office Mgr.
(Title)2-14-19
(Date Signed)

SD DENR

NOTICE OF APPLICATION NO. 8383-3
to Appropriate Water

Notice is given that Paul Leiseth, 44405 179th St, Hazel SD 57242 has filed an application for a water permit to appropriate 2.0 cubic feet of water per second from two wells to be completed into the Big Sioux Brookings Aquifer (44 feet deep) located in the SE 1/4 SW 1/4 Section 4 for irrigation of 150 acres located in the SW 1/4 Section 4, all in T113N-R53W. This site is located approximately 3 miles south of Hayti SD. Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8383-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below. Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by February 19, 2019. The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. If the applicant does not contest the recommendation of the Chief Engineer, and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition. Steven M. Pinner, Secretary, Department of Environment and Natural Resources. Published once at the approximate cost of \$37.06.

42.06 (February 6, 2019)

RECEIVED

FEB 07 2019

WATER RIGHTS
PROGRAM

Form 8

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County of Hamlin) SS

I, LeeAnne Dufek

certify that the attached printed Notice was taken

from the Hamlin County
Herald Enterprise

printed and published in Hayti

County of Hamlin and

state of South Dakota. The notice was published

in the newspaper on the following date:

Feb 6, 2019

Cost of Printing \$24.94

LeeAnne Dufek
(Signature)

Owner
(Title)

2-6-19
(Date Signed)

12

/ Feb. 6, 2019

RECORDS

NOTICE OF APPLICATION NO.
8383-3 TO APPROPRIATE WATER

Notice is given that Paul Leiseth, 44405 179th St, Hazel SD 57242 has filed an application for a water permit to appropriate 2.0 cubic feet of water per second from two wells to be completed into the Big Sioux:Brookings Aquifer (44 feet deep) located in the SE 1/4 SW 1/4 Section 4 for irrigation of 150 acres located in the SW 1/4 Section 4; all in T113N-R53W. This site is located approximately 3 miles south of Hayti SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8383-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation.

The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by February 19, 2019.

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If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

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

Published Feb. 6, 2019, at total cost of \$24.94.

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, January 29, 2019 12:54 PM
To: legals@thepublicopinion.com
Subject: 8383-3, Paul Leiseth
Attachments: 8383-3public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on February 6, 2019.

Paul Leiseth, 44405 179th St, Hazel SD 57242 (695 628-2099 or 605 881-4373) has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol, Pierre SD 57501.

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

Karen Schlaak
SD DENR, Water Rights Program
(605) 773-3352



Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, January 29, 2019 12:53 PM
To: Hamlin County Publishing (hcp@itctel.com)
Subject: 8383-3, Paul Leiseth
Attachments: 8383-3public.short.docx; FORM8.FRM.doc

Attached is a notice to be published on February 6, 2019 in the Hamlin County Herald Enterprise.

Paul Leiseth, 44405 179th St, Hazel SD 57242 (695 628-2099 or 605 881-4373) has been notified to contact you to authorize publication and arrange for payment.

Please send the affidavit or return the attached Proof of Publication form ASAP to the Water Rights Program, 523 E Capitol, Pierre SD 57501.

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

Karen Schlaak

SD DENR, Water Rights Program
(605) 773-3352





DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

**NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPERS RIGHT AWAY.**

January 29, 2019

Paul Leiseth
44405 179th St
Hazel SD 57242

Dear Mr. Leiseth:

Water Permit Application No. 8383-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Hamlin County Herald Enterprise printed at Hayti SD (Ph # 605 783-3636) and the Public Opinion printed at Watertown SD (Ph # 605 886-6901). You will need to contact the newspapers 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 newspapers to authorize publication of your Notice and to arrange for payment. Early contact with the papers 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.

NOTICE OF APPLICATION NO. 8383-3 to Appropriate Water

Notice is given that Paul Leiseth, 44405 179th St, Hazel SD 57242 has filed an application for a water permit to appropriate 2.0 cubic feet of water per second from two wells to be completed into the Big Sioux:Brookings Aquifer (44 feet deep) located in the SE 1/4 SW 1/4 Section 4 for irrigation of 150 acres located in the SW 1/4 Section 4; all in T113N-R53W. This site is located approximately 3 miles south of Hayti SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8383-3 with qualifications because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <http://denr.sd.gov/public> or contact Eric Gronlund for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by February 19, 2019.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

If the applicant does not contest the recommendation of the Chief Engineer and no petition to oppose the application is received, the Chief Engineer shall act on the application pursuant to the recommendation with no hearing held before the Water Management Board. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

denr.sd.gov

FEB 26 2019

Paul Lieseth
44405 179th St.
Hazel SD 57242

Dear Mr. Lieseth:

Enclosed is Water Permit No. 8383-3 authorizing construction of the 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

SOUTH DAKOTA WATER WELL COMPLETION REPORT

SD EForm - 1621LD V1

11-02

Location SE 1/4 SW 1/4 Sec 4 Twp 113 Rg 53

Well Owner: Paul Leiseth

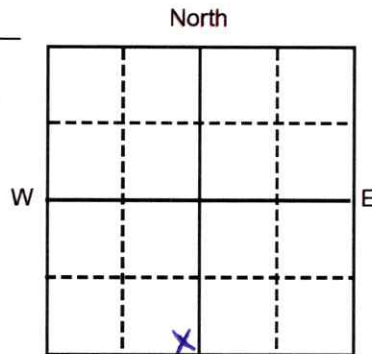
Business Name: Leiseth Farms, Inc

Address: 44405 179th ST

City, State, Zip: Hazel SD 57242

County Hamlin

Please mark well location with an "X"



Well Completion Date

Feb 25, 2020

← 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

WEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	<u>12.00</u> IN	<u>0.0</u> FT	<u>29.0</u> FT	<u>17.25</u> 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>HS Bent</u>	<u>12</u>	Lb/gal	<u>0.0</u> Ft	<u>19.0</u> Ft
<u>Gravel Pk#80</u>		Lb/gal	<u>19.0</u> Ft	<u>54.0</u> Ft

Describe grouting procedure
Tremmy

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 12.00 Inches Length 15.0 Feet
Material stainless steel
Slot Size 80 Set From 29.0 Feet to 44.0 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? granular chlorine

☐ No, Why Not?

to which water
quality sample sent for analysis

WELL LOG:

			DEPTH	
FORMATION			FROM	TO
topsoil	blk	M	0	1
clay	tan	M	1	3
sand/gravel	tan/blue	50slt	3	44
clay	blue	M	44	54

STATIC WATER LEVEL

14' 8" 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: submersible pump

☐ Bailed

☐ Other

Pumping Level Below Land Surface

31.5 Ft. After 6.0 Hrs. pumped 696.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

44 36 56.7N
97 12 00.0W
Michael Gjerde

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

Drilling firm: Steffl Drilling & Pump Inc

Signature of License Representative:

Michael Gjerde

Signature of Well Owner or Equitable Property Holder

RECEIVED
DEC 17 2020

Date: _____

WATER RIGHTS
PROGRAM

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 8383-3

I have this day, June 27, 2024, made a thorough examination of the water use system constructed by Paul Leiseth, 44405 179th St, Hazel, SD 57242 of Permit No. 8383-3, bearing the priority of December 6, 2018 authorizing the diversion of 2.0 cu. ft. per second of the waters of the Big Sioux: Brookings Aquifer for irrigation purposes, in Hamlin County.

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Steffl Drilling & Well
- 2) No. of Wells 1
- 3) Depth(s) 44 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 12 inches
- 2) Length 29 feet
- 3) Type Plastic

Screen:

- 1) Type Stainless steel
- 2) Length 15 feet
- 3) Static water level 15 feet

Pump:

- 1) Make Submersible
- 2) Model Unknown
- 3) Size Unknown
- 4) Capacity 600 GPM

Motor:

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

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

- 1) Type Buried PVC
- 2) Size 8 inches
- 3) Length 2700 feet

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Valley
- 2) Overall length 1400 feet
- 3) Number of towers 7 plus a corner leg
- 4) End gun Y
- 5) Capacity 520 GPM

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 excellent condition with the point(s) of diversion located as follows: WELL LOCATION
From the SW corner Sec 4 T113N R53W, 30 ft N & 2360 ft E, Lat 44.61575 Long -97.20004 (SE 1/4 SW 1/4)

2. The works are capable of diverting and conveying to the place of use 0.82 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:

legal description/acreage

All land in Sec 4 T113N R53W

NW 1/4 SW 1/4 - 34.5 acres

NE 1/4 SW 1/4 - 37.5 acres

SE 1/4 SW 1/4 - 37.5 acres

SW 1/4 SW 1/4 - 37.5 acres

comprising a total of 147 acres of land and the license should be issued for 0.82 cfs

3. All structures, wells and lands on map Y

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

I contacted Mr. Paul Leiseth (605/881-4373) regarding this Permit. The mailing address in the permit materials is current.

FSA maps and the ArcGIS program were used to estimate the irrigated acreage and to construct the attached well location and irrigated land map.

The 2023 Irrigation Questionnaire report was used to establish the pump flow rate.



Darrell DeBoer

Water Rights Inspector

DENR, Water Rights Program

Date report completed: June 27, 2024

*Amanda Dewell called MR. Leiseth 7-1-24 + confirmed the end guns use
≈ 520 gpm but inner nossels ≈ 250-350 gpm. MR. Leiseth has been
Page 2 of 2 reporting average use on lqs.



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



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

JUL 02 2024

8383-3

Paul Leiseth
44405 179th St
Hazel SD 57242

Dear Mr. Leiseth:

Enclosed is Water License No. 8383-3. 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.

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

Sincerely,

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

enclosures

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 8383-3**

(1) Paul Leiseth, 44405 179th St, Hazel SD 57242, made Application No. 8383-3, December 6, 2018, for a water permit to divert 2.0 cubic feet of water per second from groundwater, two wells (Big Sioux: Brookings Aquifer), Hamlin County, South Dakota for irrigation purposes. Permit No. 8383-3, with a priority date of December 6, 2018, was approved February 19, 2019, and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before February 19, 2024, and for the application to beneficial use of water on or before February 19, 2028.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.16 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 30 ft N & 2,360 ft E of the SW corner Section 4, T113N, R53W (SE ¼ SW ¼)
(Latitude 44.61575 & Longitude -97.20004)

(3) The amount of 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.

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

Section 4, T113N, R53W			
NE¼ SW ¼	37.5 acres	SW ¼ SW ¼	37.5 acres
NW ¼ SW ¼	34.5 acres	SE ¼ SW ¼	37.5 acres
TOTAL: 147 acres			

(5) Pursuant to South Dakota Water Law 46-5-30.1 Paul Leiseth, the holder and/or owner of Water Right No. 8383-3 is issued a license to appropriate water, the right to use 1.16 cubic feet of water per second from groundwater, one well (Big Sioux: Brookings Aquifer), with a priority date of December 6, 2018, from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 8383-3 and subject to the following qualifications:

1. The wells approved under Permit No. 8383-3 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. *(Only one well was developed under 8383-3.)*
2. The wells authorized by Permit No. 8383-3 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 wells causing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. *(The well was drilled in 2020 by Steffl Drilling & Pump Inc. A copy of the well completion report is on file with the Water Rights Program.)*

continued

3. This Water Right is approved subject to the irrigation water use questionnaire being submitted each year.

Eric Gronlund

Eric Gronlund, Chief Engineer

Water Rights Program

Department of Agriculture and Natural Resources

JUL 02 2024

date

