

WATER PERMIT NO. 8623-3

Name of Applicant: Anden Van Beek

Address: PO Box 319, Hudson SD 57034

Phone: 605 32104933

Amount of Water Claimed: 1.56 cfs

Total Acres: 246.45

Source of Water Supply: groundwater (2 wells)

Water to be used for: irrigation

County: Union

Type of Waste Disposal System:

Location: 2 miles southeast of Beresford

PRIORITY

Date Received: 4-4-22

Application/License Fee: \$ 1250

Corrected Application Received:

Period of Annual Use: May 1 – September 30

Remarks:

Diversion Point: S 1/2 SW 1/4 Sec 13-T95N-R50W

Land to be Irrigated: W 1/2 Sec 13-T95N-R50W

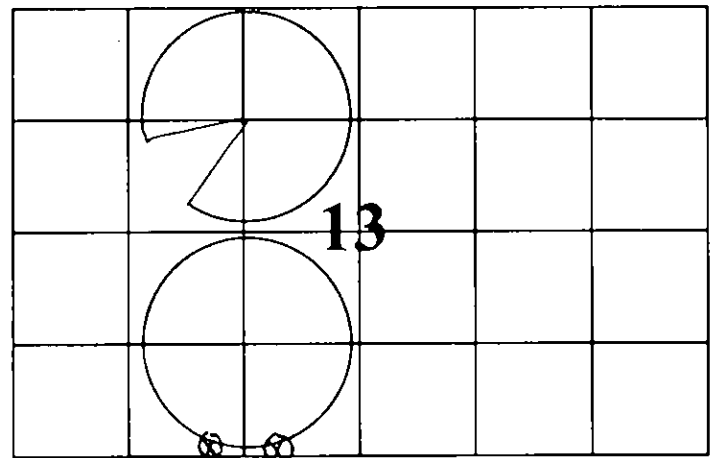
Depth of Well: 120 feet deep

Well Driller:

Remarks:

Type of Map: aerial

Prepared by:



Reviewed and the Number Assigned on: 4-4-22

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

**SOUTH DAKOTA
WATER PERMIT NO. 8623-3**

Date of first receipt of application April 4, 2022.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 8623-3 to Anden Van Beek, PO Box 319, Hudson SD 57034 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. 8623-3 appropriates 1.56 cubic feet of water per second from up to two wells to be completed into the Brule Creek Aquifer (approximately 120 feet deep) located in the S 1/2 SW 1/4 Section 13 for irrigation of 246.45 acres located in the W 1/2 Section 13; all in T95N-R50W. This site is located approximately 4 miles southeast of Beresford 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 April 4, 2022.
4. The date of approval of Permit No. 8623-3 is June 20, 2022.
5. One-fifth of the construction is to be completed on or before December 20, 2024.
6. All construction is to be completed on or before June 20, 2027.
7. Water is to be put to beneficial use on or before June 20, 2031.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

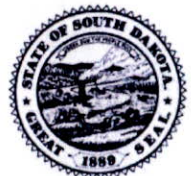
QUALIFICATIONS

1. The wells approved under Water Permit No. 8623-3 are located near domestic wells and other wells which may obtain water from the same aquifer. Water withdrawals shall be controlled 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. 8623-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

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

JUL 25 2022
date



PAID

APR 4 2022

Ck# 165

Rec't#

Mail to: DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8623-3</u>	(office use only) Hydrologic Unit <u>10170101</u>
	Basin <u>Missouri River</u>	
	Newspaper <u>Beresford Republic</u>	
	<u>Press & Dakotan</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 ANDEN VAN BEEK

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

Mailing Address P.O. BOX 319 HUDSON SD 57034
(Address) (City) (State) (Zip Code)Phone 605 321 4933 Mobile SAME Email ANDENVANBEEK@GMAIL.COM2. Amount of water claimed 156 *CFS or 700 **GPM ***AF Total Acreage 241.46
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
246.453. Source of water supply 10x2 WELLS TO SUPPLY WATER TO 2 PLOTS4. Location of point of diversion SW 1/4 S13 T95N R50W WITH A POSSIBLE
S1/2 (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)SECONDARY WELL 600' TO THE EAST IF NEEDED TO ACHIEVE County UNION
600GPM5. County or counties where water will be used UNION6. Annual period during which water is to be used MAY 1 - SEPTEMBER 307. 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
NENW S13 T95N R50W	32.53	NE5W S13 T95N R50W	32.53
NWNW S13 T95N R50W	32.53	NWSW S13 T95N R50W	32.53
SWNW S13 T95N R50W	18.74	SES1W S13 T95N R50W	32.53
SE NW S13 T95N R50W	32.53	SWSW S13 T95N R50W	32.53

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

TO DRILL 10x2 WELLS TO SUPPLY WATER TO 2 CENTER PLOTS LOCATED IN
THE NW 1/4 S13 T95N R50W & SW 1/2 S13 T95N R50W TO IRRIGATE 241.46 ACRES. SECONDARY
WELL MAY BE DRILLED TO REACH DESIRED GPM.

I, Anden Van BEEK, the applicant, certify under
Name of Person Title (if applicable)
~~*ASKING FOR ABOVE SATURATORY LIMIT DUE TO SOIL TYPE & RUNNING 2 PLOTS.~~

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 1 or 2 Have test holes been drilled ☒ Yes ☐ No Drilled by HEINE ELECTRIC IRRIGATION
(if yes, please provide copies of logs)b) If existing wells, how many x Provide copy of log(s), if available. Drilled by x

For either Existing or Proposed Wells:

c) Well Depth (required) ~20 Depth to Top of Water Bearing Material 50' Depth to Water from Surface ~10'd) Distance to nearest domestic well on applicant's property x Property owned by others NO**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)

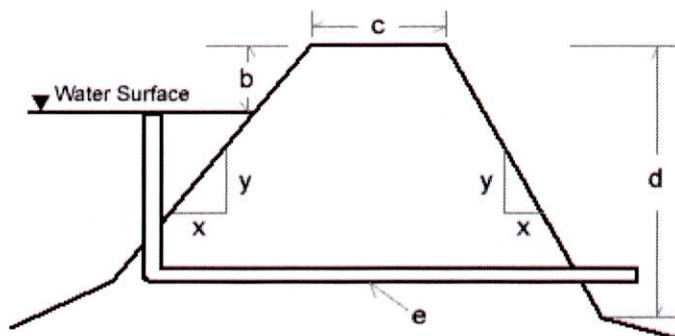
Upstream _____

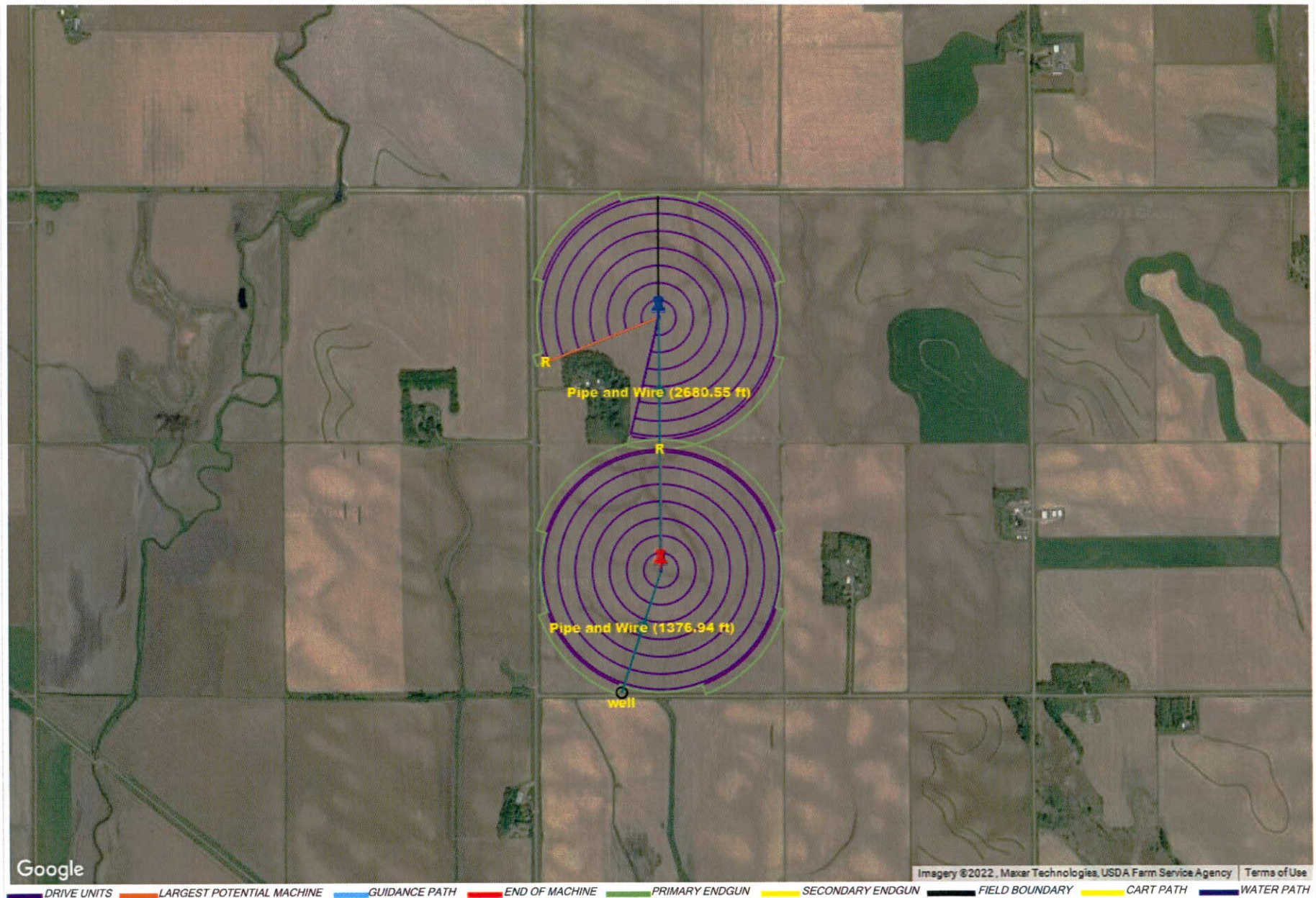
Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres







Field Name	Design Name	Machine Category	Machine Area (ac)	No.of Towers	Total Machine Length (ft)	Total Irrigated Area (ac)
 Pivot_1_1222202182348412	Nick Olson - North WW	Large Field Electrical Pivot 8000	100.33	7	1278.12	111.36

Total Project Irrigated Area (ac): 241.46

(Nick Olson - North WW)	Spans and Overhang	Comer	Endgun*	Bender / DropSpan	Polygon
Irrigated Area using (ac)	100.28	0	11.08	0	0.00

* Estimated

Total Span Length (ft) 1240.00

Overhang Length (ft) 36.00

Flex/Transition/Other Lengths (ft) 2.12

S.No	Diameter	Length (ft)	Cable Size	Motor Options	Tire Size	Bender / DropSpan	Profile
1	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard
2	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard
3	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard
4	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard
5	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard
6	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard
7	6 5/8	160.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard

Primary Endgun

Endgun Angles (Nick Olson - North WW)	Endgun 1	Endgun 2	Endgun 3	Endgun 4
Start Angle	18.76 deg	107.88 deg	248.64 deg	287.30 deg
End Angle	73.88 deg	193.79 deg	253.29 deg	342.41 deg

Field Name	Latitude	Longitude	Pivot Road Angle	Pivot Road Offset	Start Angle	End Angle
Pivot_1_1222202182348412	43.05117039797239	-96.701949986205	248.63 deg	-	248.63 deg	193.8 deg



Field Name	Design Name	Machine Category	Machine Area (ac)	No.of Towers	Total Machine Length (ft)	Total Irrigated Area (ac)
 Pivot_2_122220218398166	Nick Olson - South Circle	Large Field Electrical Pivot 8000	116.7	7	1269.12	130.10

Total Project Irrigated Area (ac): 241.46

(Nick Olson - South Circle)	Spans and Overhang	Corner	Endgun*	Bender / DropSpan	Polygon
Irrigated Area using (ac)	116.64	0	13.47	0	0.00

* Estimated

Total Span Length (ft) 1240.00

Overhang Length (ft) 27.00

Flex/Transition/Other Lengths (ft) 2.12

S.No	Diameter	Length (ft)	Cable Size	Motor Options	Tire Size	Bender / DropSpan	Profile
1	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional w/Tube	None	Standard
2	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard
3	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard
4	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard
5	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard
6	6 5/8	180.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard
7	6 5/8	160.00	12 ga cable / 11 cond shielded	34 RPM Baldor Helical	14.9 x 24 Non-Directional Tubeless	None	Standard

Primary Endgun

Endgun Angles (Nick Olson - South Circle)	Endgun 1	Endgun 2	Endgun 3
Start Angle	288.00 deg	108.00 deg	200.00 deg
End Angle	72.00 deg	160.00 deg	250.00 deg

Field Name	Latitude	Longitude	Pivot Road Angle	Pivot Road Offset	Start Angle	End Angle
Pivot_2_122220218398166	43.04390030428498	-96.70189740090262	-	-	0 deg	360 deg

Project Name - Nick Olson - 2022 Irrigation project

Version Name - Nick Olson - 2022 Irrigation project_Version



Map Point Summary

Point(s)		Latitude	Longitude
...	well	43.04039944016614	-96.70346196477541
Line(s)		Latitude	Longitude
—	Pipe and Wire (1376.94 ft)	43.04397109970782	-96.70346598808702
—	Pipe and Wire (2680.55 ft)	43.05123139553246	-96.70191030686004

Water Well Completion Reports

SEARCH WELLS
Help Tools

DRILLERS

PUMP INSTALLERS

Disclaimer



Search

NW NWS 13
T95N R50W

T095N R050W S14

T095N R050W S13

T095N R050W S12

X WELL

*SECONDARY POSSIBLE WELL
LOCATED 600' EAST
OF PROPOSED WELL SITE.

T095N R050W S23

T095N R050W S24

Streets

Water Well Completion Reports

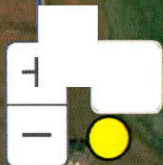


SEARCH WELLS
Help Tools

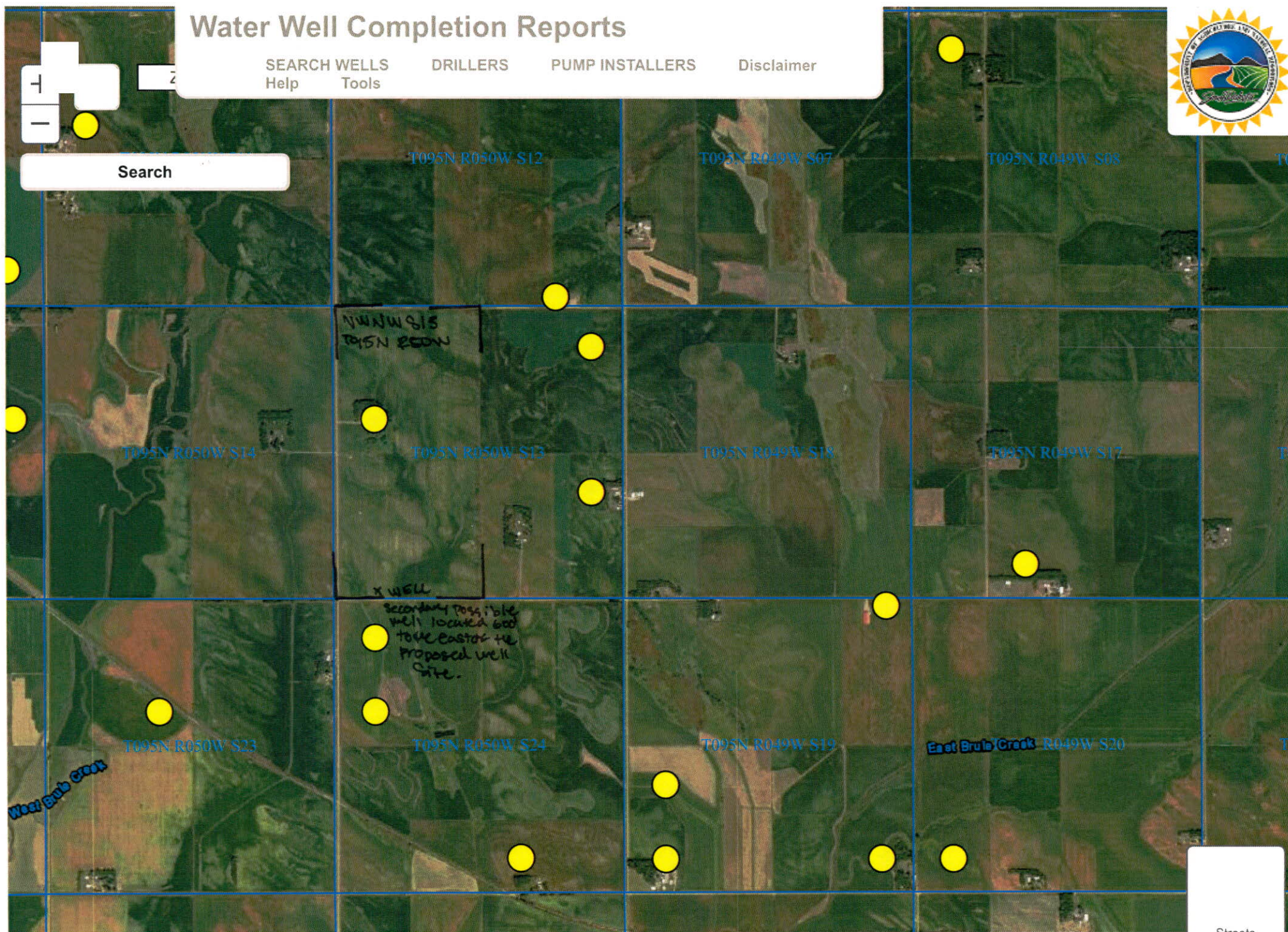
DRILLERS

PUMP INSTALLERS

Disclaimer



Search



Streets

SOUTH DAKOTA WATER WELL COMPLETION REPORT

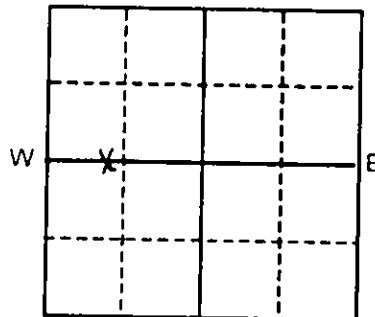
11-02

Location SW 1/4 NW 1/4 Sec 13 Twp 95N Rg 80WWell Owner: ANDER VAN BEEKCounty UNION

Business Name: _____

Address: PO BOX 319City, State, Zip: HUDSON SD 57034

Please mark well location with an "X"



Well Completion Date

1/27/22

1 Mile

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

1000 ft. from SEPTIC SYSTEM (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
<u>GROUTWELL DF</u>	<u>2</u>	<u>9.4</u> Lb/gal	<u>0</u> Ft	<u>60</u> Ft

Describe grouting procedure

TRE MINIE

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 ☐ NoIf so, what material? GROUTWELL DFDescribe packer(s) and location 0-60'

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How? _____☒ No, Why Not? _____

Lab to which water quality sample sent for analysis _____

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOPSOIL	0	2
DL. BROWN CLAY	2	15
DL. TAN CLAY	15	25
GREY SILTY CLAY	25	35
FINE SAND & CLAY	35	60

STATIC WATER LEVEL NA 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
 43.047604°N
 -96.703024°W

This well was drilled under license # 810 and this report is true and accurate.Drilling firm: HEINE ELECTRIC & IRRIGATION

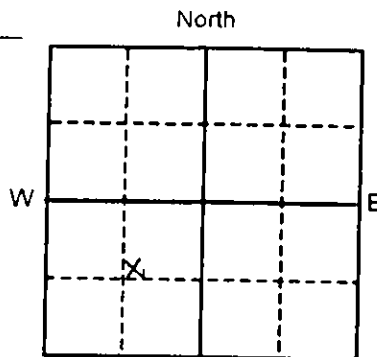
Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 SW 1/4 Sec 13 Twp 9S Rg 8WCounty UNIONPlease mark well
location with an "X"

Well Completion Date

1/27/2022Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
4900 ft. from SEPTIC SYSTEM (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
<u>GROUTWELL DF</u>	<u>5</u>	Lb/gal	<u>0</u> Ft	<u>140</u> Ft
	<u>9.47</u>	Lb/gal		

Describe grouting procedure

TREMMIE

SCREEN:

☐ Perforated pipe ☐ Manufactured
 Diameter _____ Inches Length _____ Feet
 Material _____
 Slot Size _____ Set From _____ Feet to _____ Feet
 Other information _____
WAS A PACKER OR SEAL USED? ☒ Yes ☐ NoIf so, what material? GROUTWELL DF

Describe packer(s) and location

0-140

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?
☒ No, Why Not?
Lab to which water
quality sample sent for analysisWell Owner: ANDER VAN BEEK

Business Name: _____

Address: PO BOX 319City, State, Zip: HUDSON SD 57034

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOPSOIL	0	2
BROWN CLAY	2	22
BROWN SILTY CLAY	22	30
BROWN & GREEN SILTY CLAY	30	40
GREY CLAY	40	45
GREEN CLAY	45	55
GREEN SILTY CLAY	55	65
GREEN & BROWN FINE SAND & CLAY	65	110
GREEN & BROWN SANDY CLAY	110	140

STATIC WATER LEVEL NA 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 #243.043755° N-96.702912° WThis well was drilled under license # 810 and this report is true and accurate.Drilling firm HEINE ELECTRIC IRRIGATION

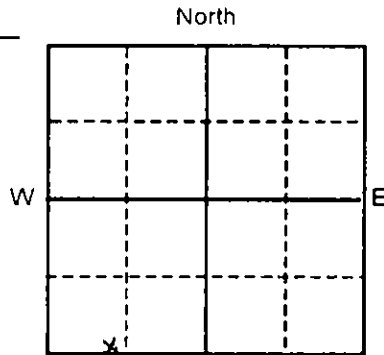
Signature of License Representative

Signature of Well Owner or Equitable Property Holder

Date: _____

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW 1/4 SW 1/4 Sec 13 Twp 95N Rg 80WCounty UNIONPlease mark well
location with an "X"

Well Completion Date

1/31/2022

K 1 Mile K

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

+1700 ft. from SEPTIC system (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
<u>GRAUTWELLDE</u>	<u>4</u>	<u>9.4</u> Lb/gal	<u>0</u> Ft	<u>120</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

TREMMIE

SCREEN:

☐ Perforated pipe ☐ Manufactured
 Diameter _____ Inches Length _____ Feet
 Material _____
 Slot Size _____ Set From _____ Feet to _____ Feet
 Other information _____
WAS A PACKER OR SEAL USED? ☒ Yes ☐ NoIf so, what material? GRAUT DEDescribe packer(s) and location 0-120'

DISINFECTION: Was well disinfected upon completion?

☐ Yes, How?
☒ No, Why Not?
 Lab to which water
 quality sample sent for analysis
Well Owner: ANDEN VAN BECK

Business Name: _____

Address: PO BOX 319City, State, Zip: HUDSON SD 57034

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOPSOIL	0	2
DL. BROWN CLAY	2	15
GREY SILTY CLAY	15	20
FINE SAND	20	50
SM GRANUL	50	60
SM GRANUL w/ clay layers	60	90
BLUE CLAY & shale	90	120

STATIC WATER LEVEL 10 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☐ Pumped Describe:☐ Bailed☐ Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

TEST HOLE #4 - GOOD!43.040436°N-96.703198°WThis well was drilled under license # 810 and this report is true and accurate.Drilling firm: HEINE ELECTRIC IRRIGATION

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

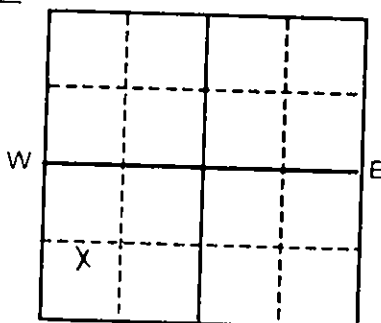
Date: _____

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW 1/4 SW 1/4 Sec 13 Twp 95N Rg 50WCounty UNION

North

Please mark well
location with an "X"

Well Completion Date

1/31/22

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
12040 ft. from SEPTIC SYSTEM (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

ROTARY

CASING DATA:

If other describe ☐ Steel ☐ Plastic ☐ Other

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
				<u>4.75</u>
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>GROUTWELL DF</u>	<u>3</u>	<u>9.4</u> Lb/gal	<u>0</u> Ft	<u>80</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

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 ☐ NoIf so, what material? GROUT DF

Describe packer(s) and location

0-80'

DISINFECTION:

Was well disinfected upon completion?

☐ Yes, How?☒ No, Why Not?Lab to which water
quality sample sent for analysisWell Owner: ANDER VAN BEEK

Business Name: _____

Address PO BOX 319City, State, Zip HUDSON SD 57034

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOPSOIL	0	4
BROWN SILTY CLAY	4	21
SANDY GRAVEL W/CLAY LAYERS	21	56
SMALL GRAVEL	56	77
COARSE SAND	77	80

STATIC WATER LEVEL

NA

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

43.042766°N

-96.704639°W

This well was drilled under license # 810 and this report is true and accurateDrilling firm: HEINE ELECTRIC IRRIGATION

Signature of License Representative _____

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

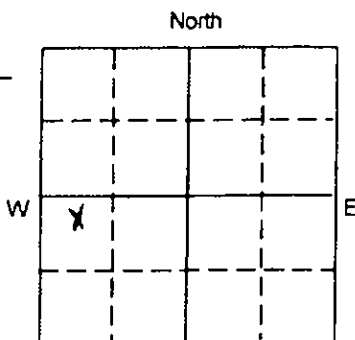
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location S1W 1/4 NW 1/4 Sec 13 Twp 95N Rg 50W

County Union

Please mark well location with an "X"



Well completion Date

9/27/10

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

? 80 ft from septic tank (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Auger

CASING DATA: ☐ Steel ☐ Plastic ☐ Other

If other describe 3/4 geothermal pipe

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
<u>AA-20</u>	<u>8</u>	<u>9.5</u> Lb/gal	<u>0</u> Ft	<u>120</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure stremie line

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 sample sent to for water quality analysis

Well Owner: John Negh

Business Name:

Address1

Address2: 29938 475th

City, State, Zip: Alcester, SD

WELL LOG:

DEPTH

FORMATION

FROM

TO

topsoil

0

3

sandy yellow clay

3

22

sand and gravel

22

54

sandy blue clay

54

78

blue clay

78

120

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

4 wells @ 120'

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FEB 16 2011

WATER RIGHTS PROGRAM

This well was drilled under license #

296

And this report is true and accurate.

Drilling firm

Chase Drilling Inc

Signature of License Representative

John Negh

Signature of Well Owner or Equitable Property Holder

[Signature]

Date

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

bing

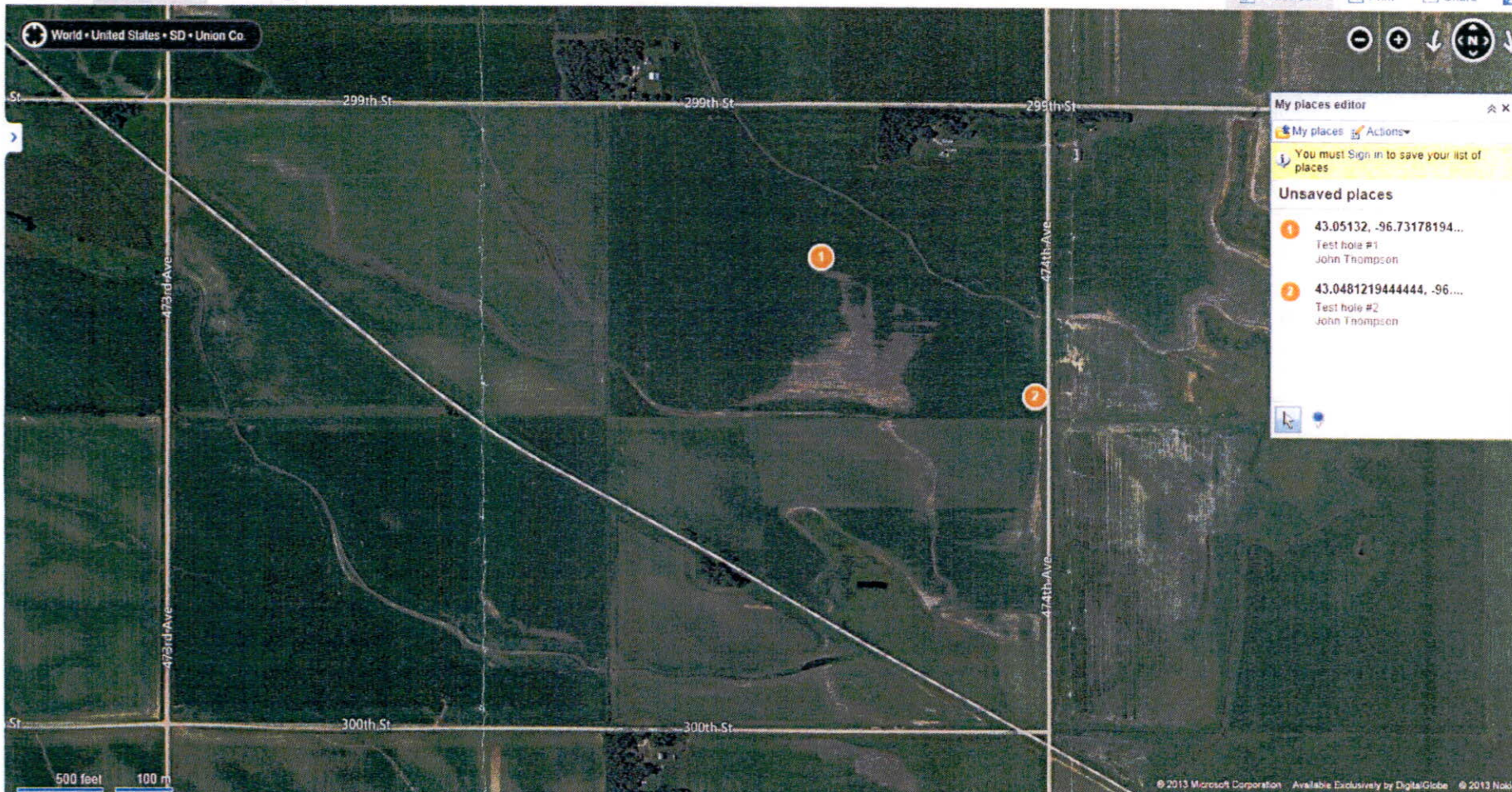
n 43 02 53 239, w 96 43 37 020



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Unsaved places

- 1 43.05132, -96.73178194...
Test hole #1
John Thompson
- 2 43.0481219444444, -96...
Test hole #2
John Thompson

RECEIVED

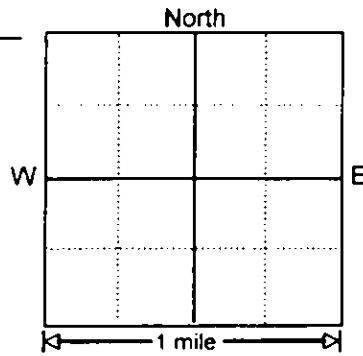
MAY - 7 2013

WATER RIGHTS
PROGRAM

SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT 11-02

Location SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec 15 Twp 95N Rg 50W

Well Owner:

County UnionPlease mark well
location with an "X"Name: John ThompsonAddress: 47333 295th StCity, State, Zip: Beresford SD 57004

Comments:

Test hole #1
GPS: N 43 03 04.752, W 96 43 54.415

Plugging Completion Date April 17, 2013

CHECK APPROPRIATE BOX

EXISTING WELL ☐TEST HOLE ☒

Well depth _____

Hole depth 111'

Casing material _____

Hole size 5.25

Casing size(s) _____

Casing condition _____

Describe plugging procedure:

tremie piped

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MAY - 7 2013

WATER RIGHTS
PROGRAM

Describe grout or plugging material:

volclay grout

Type of non-slip plug: _____

This well or test hole was plugged under license # 475 and this report is true and accurate.Drilling firm: Thein Well Co., Inc.

Signature of Licensed Representative: _____

Signature of Well Owner: _____

Date: _____

SOUTH DAKOTA WATER WELL COMPLETION REPORT

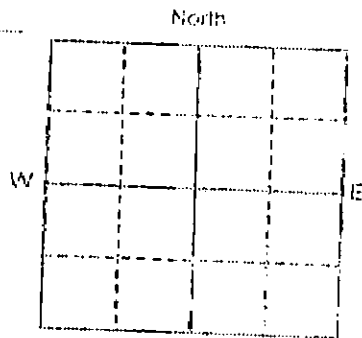
SD EForm - 1621LD v4

11-02

Location SE ¼ NE ¼ Sec 15 Twp 95N Rg 50W

County Union

Please mark well location with an "X"



Well Completion Date

August 1, 2013

0 1 Mile

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

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

CASING DATA:

Other description ☐ Steel ☒ Plastic ☐ Other

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	12.00 IN	0.0 FT	45.0 FT	17.50 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Benlonite	12	lb/gal	0.0 FT	45.0 FT
		lb/gal	FT	FT

Describe grouting procedure:
tremie piped

SCREEN:

☒ Perforated pipe ☐ Manufactured
Diameter 12 inches Length 26.75 Feet
Material PVC/SS
Slot Size 100/150 Set From 45.0 Feet to 73.0 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? chlorinated
☐ No, Why Not?

Lab to which water quality sample sent for analysis
n/a

Well Owner: John Thompson

Business Name:

Address 47333 295th St

City, State, Zip Beresford SD 57004

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Black top soil	0	3
Reddish brown clay	3	5
Brown sand	5	27
Hard blue clay	27	32
Brown sand	32	72
Blue clay	72	80

STATIC WATER LEVEL

9.0 FEET

If flowing, record in pressure

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

32.0 Ft. After 2.0 hrs. pumped 800.0 GPM

Ft. After hrs. pumped GPM

If pump in service, pump rate:

GPM

REMARKS

GPS: N 43 2.586
W 96 43.609

RECEIVED

OCT - 7 2013

WATER RIGHTS PROGRAM

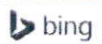
This well was drilled under license # 475 and this report is true and accurate.

Drilling firm: Thom Well Co., Inc.

Signature of License Representative

Signature of Well Owner or Equitable Property Holder

Date:



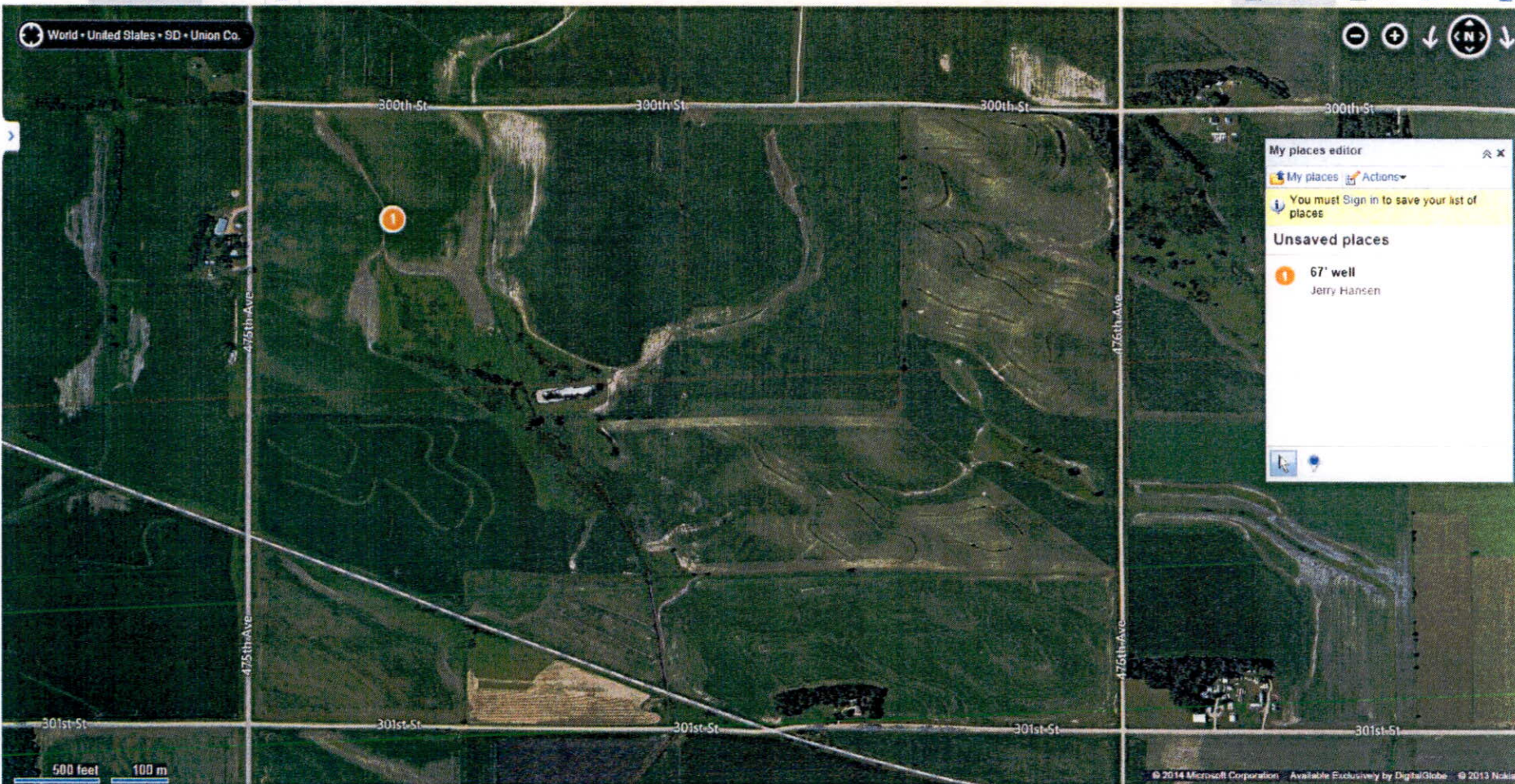
N 43 2 263, W 096 42 216



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Unsaved places

- 1 **67' well**
Jerry Hansen

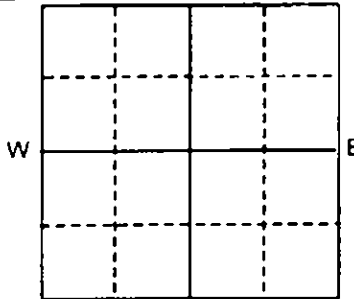
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW ¼ NW ¼ Sec 24 Twp 95N Rg 50W

County Union

North

Please mark well
location with an "X"

Well Completion Date

April 10, 2014

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.):
75.0 ft. from septic (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	12.00 IN	0.0 FT	46.0 FT	17.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Bentonite	17	Lb/gal	0.0 Ft	45.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
tremie piped

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter 12.00 Inches Length 20.0 Feet

Material stainless steel

Slot Size .080 Set From 46.0 Feet to 66.0 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? chlorinated☐ No, Why Not?

Lab to which water

quality sample sent for analysis

n/a

Well Owner Jerry & Joyce Hansen

Business Name:

Address 303 E Maple St

City, State, Zip Beresford SD 57004

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top soil	0	3
Hard Brown Clay	3	6
Yellow Clay	6	15
Blue Clay	15	25
Medium Sand	25	67
Hard Brown Clay	67	-

STATIC WATER LEVEL 10.0 FEET

If flowing: closed in pressure PSI

GPM flow through Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced flow rate GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: well to be test pumped at a later time.
☐ Bailed
☐ Other

Pumping Level Below Land Surface

Ft. After Hrs. pumped GPM

Ft. After Hrs. pumped GPM

If pump installed, pump rate:

REMARKS

GPS: N 43 2.263
W 096 42.216

RECEIVED

JUN 16 2014

WATER RIGHTS
PROGRAMThis well was drilled under license # 475 and this
report is true and accurate.

Drilling firm: Thein Well Co., Inc.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 5-9-14

6/60

We.11 Owner:

Name Ms. JIM GALLAGHER

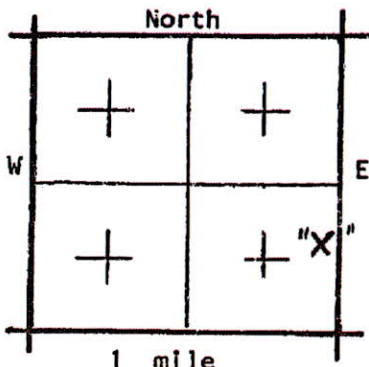
Address 302 N. PARK ALCESTER, S.D.

Well Location:

North

Mark location
with an "X"

TENNENT
LARRY HUENINK



1 mile

County UNION

SE ¼ NE ¼ SE ¼ Sec. 13 Twp. 95-N Rg. 50-W

Proposed Use:

☒ Domestic ☐ Municipal ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

☒ Forward Rotary ☐ Bored ☐ Jetted
☐ Reverse Rotary ☐ Cable ☐ Other

Well Construction:

Diameter of Hole 7 7/8"
Depth 97'
Casing ☒ Steel ☒ Concrete

2001b. ☒ Plastic ☐ Other
If other, specify

Was casing end left open NO
Was a well screen installed YES
Describe Well Screen
Diameter 5" Material ST. STEEL
Slot size 18
Was well gravel packed YES
Was well grouted YES
Was water sample taken NO

Water Level Information:

Static water level 52' below land surface

If flowing: closed in pressure PSI

rate of flow GPM

Controlled by:

☐ Valve ☐ Reducers ☐ Other:

If other; specify

Well Test Data:

☒ Pumped

TO DEVELOPE

☒ Bailed

Describe: WELL SCREEN

☐ Other

Draw down 15'

Pumping Level Below Land Surface

ft. After		Hrs. pumped		GPM
_____	" "	_____	" "	_____
_____	" "	_____	" "	_____

Well Log:

Depth

[illegible]

(Use Back if Necessary)

Date Completed: 10-7-82

Driller:

MERRIMAN DRILLING
Driller's or Firm's Name
107 W. OAK
BERESFORD, S.D.
Address

239
License NO.

Signed By

Date _____

Remarks :



RECEIPT

WATER RIGHTS PROGRAM South Dakota Department of Agriculture and Natural Resources

Date April 4, 2022

RECEIVED OF West Edge Farming LLC/Anden Van Beek 588 3Mile Rd. NW Ste. 203 Grand Rapids MI 49544

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

Fee for Application for Permit No. <u>8623-3</u> to Appropriate Water, to construct and to put water to beneficial use	\$ <u>1050.00</u>
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>8623-3</u>	\$ <u>200.00</u>
Fee for Filing Transfer Form _____	\$ _____
Fee for _____	\$ _____
Fee for Issuing New Well Driller's License No. _____	\$ _____
Fee for Renewal of Well Driller's License No. _____	\$ _____
Fee for Issuing Well Pump Installer's License No. _____	\$ _____
Fee for Renewal of Well Pump Installer's License No. _____	\$ _____
(Any Other Work Provided by Law)	
TOTAL	\$ <u>1250.00</u>

By Eric Gronlund
Chief Engineer
me



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 8623-3, Anden Van Beek**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Agriculture and Natural Resources concerning Water Permit Application No. 8623-3, Anden Van Beek, PO Box 319, Hudson SD 57034.

The Chief Engineer is recommending APPROVAL of Application No. 8623-3 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 domestic water uses and water rights, 3) the proposed use is a beneficial use and 4) it is in the public interest as it pertains to matters of public interest within the regulatory authority of the Water Management Board with the following qualifications:

1. The wells approved under Water Permit No. 8623-3 are located near domestic wells and other wells which may obtain water from the same aquifer. Water withdrawals shall be controlled 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. 8623-3 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.

Eric Gronlund, Chief Engineer
May 23, 2022

REPORT TO THE CHIEF ENGINEER
ON
WATER PERMIT APPLICATION NO. 8623-3
ANDEN VAN BEEK
MAY 24, 2022

Water Permit Application No. 8623-3 proposes to irrigate 246.45 acres at a maximum instantaneous diversion rate of 1.56 cubic feet of water per second (cfs) from up to two wells (approximately 120 feet deep) to be completed into the Brule Creek aquifer. The wells are to be located in the S $\frac{1}{2}$ SW $\frac{1}{4}$ Section 13 and the land to be irrigated is to be located in the W $\frac{1}{2}$ Section 13; all in T95N-R50W. This site is located approximately 4 miles southeast of Beresford, SD in Union County.

AQUIFER: Brule Creek (BRC)

Aquifer Characteristics:

The Brule Creek aquifer is comprised of glacial and nonglacial origin medium sands to coarse gravels (Niehus, 1994). The Brule Creek aquifer underlies portions of Clay (1,800 acres), Lincoln (33,200 acres), and Union (43,400 acres) Counties (Hedges et al, 1982; Niehus, 1994). Niehus (1994) estimated the Brule Creek aquifer underlies 180 square miles (115,200 acres) of Union and Lincoln Counties. Hedges and others (1982) estimated there was 298,950 acre-feet (ac-ft) of recoverable water in storage. Niehus (1994) estimated 570,000 ac-ft of water in storage in the aquifer in Lincoln and Union Counties.

The Brule Creek aquifer is hydrologically connected with the Newton Hills aquifer in its northern extent and possibly the Lower Vermillion Missouri aquifer at its southern extent (Niehus, 1994). Where the Brule Creek aquifer is near land surface, it may be hydrologically connected to the local surface waters, especially Brule Creek (Niehus, 1994). The aquifer is generally under confined conditions except in the few areas where the aquifer is near land surface (Niehus, 1994). The Brule Creek aquifer is generally overlain by till with an average till thickness of 46 feet but can be overlain by virtually none and up to 176 feet of till (Niehus, 1994). Water movement in the aquifer is generally to the south except in the northern most portion where water moves to the northeast toward the hydrologically connected Newton Hills aquifer (Niehus, 1994). The average thickness of aquifer materials in the Brule Creek is 33 feet with an approximate maximum of 88 feet (Niehus, 1994).

Four test hole completion reports were included with this application. In general, the test hole logs show fine sand to fine gravel was encountered starting from approximately 20 feet below grade and generally extending to a depth of approximately 90 feet below grade. Frequent intermixed layers of clay, often sandy, is encountered throughout. One test hole log included a static water level of 10 feet below grade at the time of drilling, January 2022. The aquifer is expected to be under confined conditions at the applicant's proposed well locations.

SOUTH DAKOTA CODIFIED LAW (SDCL) 46-2A-9

Pursuant to SDCL 46-2A-9, a permit to appropriate water may be issued only if there is a reasonable probability that there is unappropriated water available for this 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 as it pertains to matters of public interest within the regulatory authority of the Water Management Board defined by SDCL 46-2-9 and 46-2-11. This report will address the availability of unappropriated water and the potential for unlawful impairment on existing rights from the aquifer that are pertinent to this application.

WATER AVAILABILITY:

This application proposes to appropriate water from the Brule Creek aquifer. The probability of unappropriated water available from the aquifer can be evaluated by considering SDCL 46-6-3.1, which requires:

“No application to appropriate groundwater may be approved if, according to the best information reasonably available, it is probable that the quantity of water withdrawn annually from a groundwater source will exceed the quantity of the average estimated annual recharge of water to the groundwater source. 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 Brule Creek aquifer is not stratigraphically lower/older than the Greenhorn Formation, and the applicant is not a water distribution system as defined in SDCL 46-1-6(17). Therefore, a comparison of average annual recharge and average annual withdrawals from the Brule Creek aquifer is required for this application.

Observation Well Data:

Administrative Rule of South Dakota Section 74:02:05:07 requires that the Water Management Board shall rely upon the record of observation well measurements 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 of the aquifer.

The Water Rights Program maintains 10 observation wells completed into the Brule Creek aquifer (Water Rights, 2022c). Observation wells UN-77A and UN-80B are approximately 1.1 miles west, and 1.25 miles northwest of the applicant's well locations (Water Rights, 2022c). The hydrographs for UN-77A and UN-80B are shown in Figures 1 and 2, respectively. The two hydrographs are representative of the other hydrographs for observation wells completed into the Brule Creek aquifer. In general, the observation well hydrographs show water levels are stable to slightly rising over the period of record.

The hydrographs show the water level in the aquifer rises during wetter periods and slowly declines during drier periods. Furthermore, the effects of local pumping on the water level in the observations wells is temporary. Once the irrigation season ends, the water levels in the observation wells recover to pre-pumping season levels. This means natural conditions, recharge to and natural discharge from an aquifer, govern the long term changes of water level in the aquifer. Recognizing that recharge to and natural discharge from an aquifer can be captured for pumping,

the observation well data demonstrates there is unappropriated water available for this proposed appropriation.

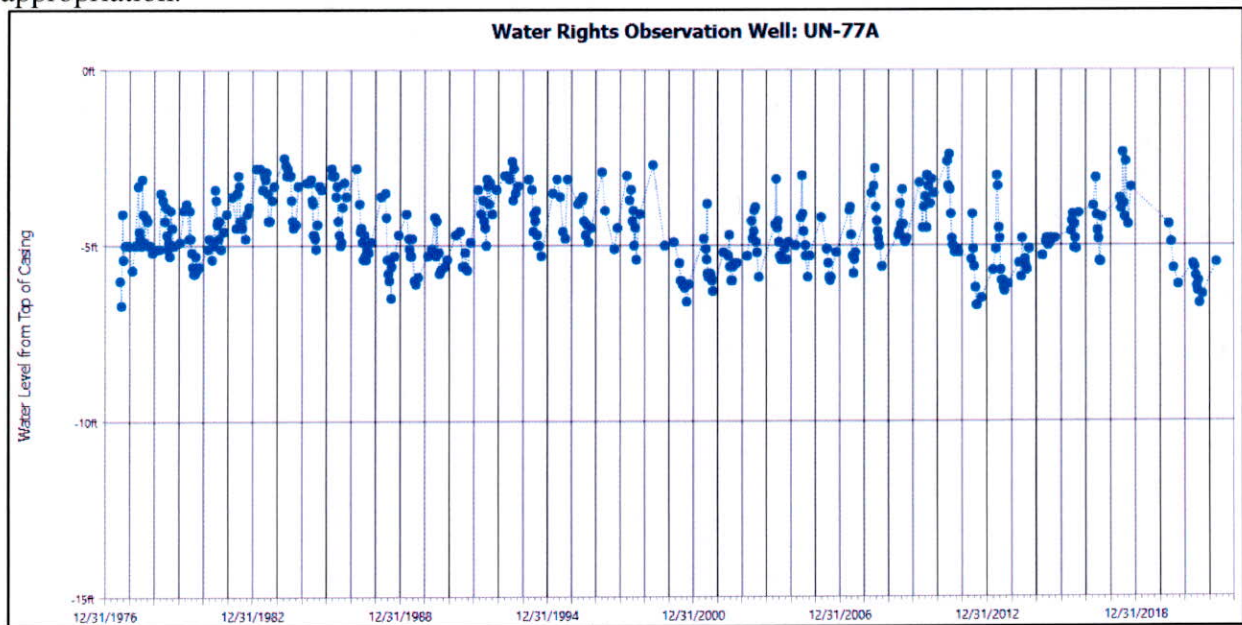


Figure 1- Hydrograph for observation well UN-77A (Water Rights, 2022c)

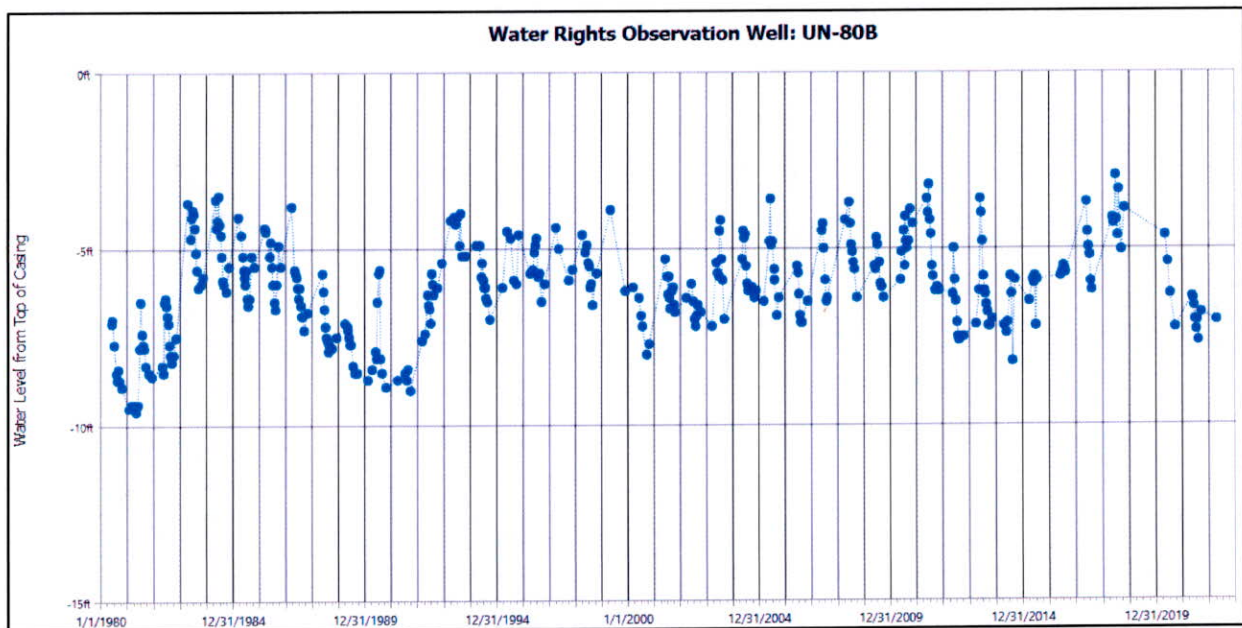


Figure 2- Hydrograph for observation well UN-80B (Water Rights, 2022c)

Hydrologic Budget

Recharge

The Brule Creek aquifer is primarily recharged through the infiltration and subsequent percolation of precipitation in areas where the aquifer is near land surface (Niehus, 1994). Buhler (2009) estimated an average recharge rate of 4.5 inches per year (in/yr) to the unconfined portions of the Brule Creek aquifer using observation well analysis. Buhler (2009) estimated at least $\frac{1}{4}$ of the area

of the aquifer was unconfined. That is an average annual recharge rate range of 7,350 to 10,800 ac-ft/yr using Hedges and others (1982) and Niehus's (1994) estimated areal extents.

Discharge:

Discharge from the Brule Creek aquifer occurs through evapotranspiration where the aquifer is near land surface, groundwater outflow to the Newton Hills aquifer, and well withdrawals (Niehus, 1994). Currently, there are 23 water rights/permits authorized to withdraw water from the Brule Creek aquifer (Water Rights, 2022d). Table 1 shows the historically reported irrigation pumpage and the number of permits reporting. Table 1 shows the period of record, 1979-2021, average annual irrigation pumpage along with average annual pumpage for more recent periods of time. As there has been more development of irrigation permits in the aquifer, there has been an increase in average annual irrigation pumpage. The average annual irrigation pumpage across the period of record is 616.5 ac-ft/yr. After a jump in irrigation permits in 2007, the 2008 through 2021 average annual irrigation pumpage is 778.8 ac-ft/yr. Furthermore, there was a second increase in permits with the 2014 through 2021 average irrigation pumpage being 795.8 ac-ft/yr. The time periods were chosen based on when there were notable increases in the number of irrigation permits issued. In general, the average annual irrigation pumpage from the Brule Creek aquifer is expected to be less than 800 ac-ft/yr.

Table 1- Historic and recent time period average annual irrigation pumpage (Water Rights, 2022b)

Year	No. of Permits Reporting	Pumpage (ac-ft)	Year	No. of Permits Reporting	Pumpage (ac-ft)
2021	19	1198.67	1997	10	651
2020	18	1544.32	1996	9	446.51
2019	18	121.19	1995	10	1041.22
2018	18	160.09	1994	10	1192.57
2017	18	816.66	1993	10	11
2016	18	1122.7	1992	9	6
2015	18	786.38	1991	9	993
2014	18	616.24	1990	8	859
2013	13	1158.76	1989	7	1029
2012	12	1526.63	1988	7	939
2011	12	670.82	1987	7	279
2010	12	91.7	1986	7	253
2009	11	332.99	1985	7	300
2008	11	755.39	1984	7	412
2007	7	702.51	1983	7	15.35
2006	7	733.58	1982	7	221.4
2005	7	637.91	1981	13	32.19
2004	8	667.95	1980	11	68.29
2003	8	469.76	1979	11	139.31
2002	9	504.96	Min	7	6
2001	10	521.45	Max	19	1544.32
2000	10	702.65	Avg. 1979-2021	10.9	616.5
1999	10	790.66	Avg. 2008-2021	15.4	778.8
1998	10	987.91	Avg. 2014-2021	18.1	795.8

There are four non-irrigation water rights that are authorized to withdraw water from the Brule Creek aquifer (Water Rights, 2022d). The estimated annual pumping was estimated by assuming

pumping at the maximum permitted diversion rate for 60 percent of the time. Using this method, the total estimated average annual non-irrigation pumpage is 1,118.9 ac-ft/yr. Both the City of Beresford and the City of Alcester are connected to rural water systems (Friedeman, 2021). SD DANR-Drinking Water Program files indicate the City of Beresford maintains their wells by “exercising” the wells every two weeks. There is no indication of how much water is actually being pumped. The City of Alcester only maintains one well that is used for irrigating the football field and the golf course during the summer. There is no indication of how much water is pumped for this. The annual water pumped under Water Right Nos. 4909-3, 672-3, and 758-3 is likely much less than the 60 percent pumping estimate and could possibly be near 0 ac-ft/yr pumped. However, there is no way to estimate the actual use. Therefore, to be conservative, it is assumed both the City of Beresford and the City of Alcester are pumping water at the 60 percent estimation rate discussed previously.

Table 2- Estimated average annual use by non-irrigation water rights (Water Rights, 2022d)

PERMIT NO.	NAME	COUNTY	STATUS	USE	CFS	ESTIMATED PUMPING (ac-ft/yr)
4909-3	CITY OF BERESFORD	UN	LC	MUN	1.92	Less than 834.6
6558-3	MARLOW CHRISTENSEN	UN	LC	COM/LCO	0.044	19.1
672-3	CITY OF ALCESTER	UN	LC	MUN	0.44	Less than 191.3
758-3	CITY OF ALCESTER	UN	LC	MUN	0.17	Less than 73.9
UN= Union County, LC= Water Right, MUN= Municipal, REC= Recreation, COM= Commercial, LCO= Livestock Confinement					Total	Less than 1,118.9

There are a number of domestic wells on file with the Water Rights Program that appear to be completed into the Brule Creek aquifer (Water Rights, 2022de). It is likely there are other domestic wells completed into the Brule Creek aquifer that are not on file with the Water Rights Program. In general, the annual pumpage by domestic users is considered insignificant to the hydrologic budget. This is due to the relatively limited diversion rate for domestic wells and the availability of rural water systems where the Brule Creek aquifer is the first available aquifer.

Balance of Hydrologic Budget

The estimated average annual recharge to the Brule Creek aquifer is 7,350 to 18,000 ac-ft/yr. The estimated average annual appropriative pumping is expected to be much less than 1,918.9 ac-ft/yr (non-irrigation: much less than 1,118.9 ac-ft/yr; irrigation: less than 800 ac-ft/yr). Therefore, the hydrologic budget data demonstrates there is a reasonable probability unappropriated water is available for this proposed appropriation. The hydrologic budget is supported by the observation well data.

POTENTIAL FOR UNLAWFUL IMPAIRMENT OF EXISTING WATER RIGHTS:

The nearest Brule Creek aquifer appropriative well, authorized by Water Permit No. 7561-3, is located approximately 0.25 miles south of the applicant’s proposed well sites (Water rights, 2022d). All other Brule Creek aquifer appropriative wells are at least one mile or further away. The nearest domestic well on file with the Water Rights Program that appears to be completed into

the Brule Creek aquifer is located approximately 0.3 miles south of the applicant's proposed well sites. (Water Rights, 2022e). There are two other domestic wells located within approximately one mile of the applicant's proposed well sites that appear to be completed into the Brule Creek aquifer that are on file with the Water Rights Program (Water Rights, 2022e).

There are no complaints on file with the Water Rights Program regarding well interference issues between wells completed into the Brule Creek aquifer. Observation wells UN-77A (see Figure 1) and UN-77C (see Figure 3) are within 1.5 miles of at least three high capacity appropriative wells. Observation well UN-77A is under unconfined conditions and UN-77C is under confined conditions.

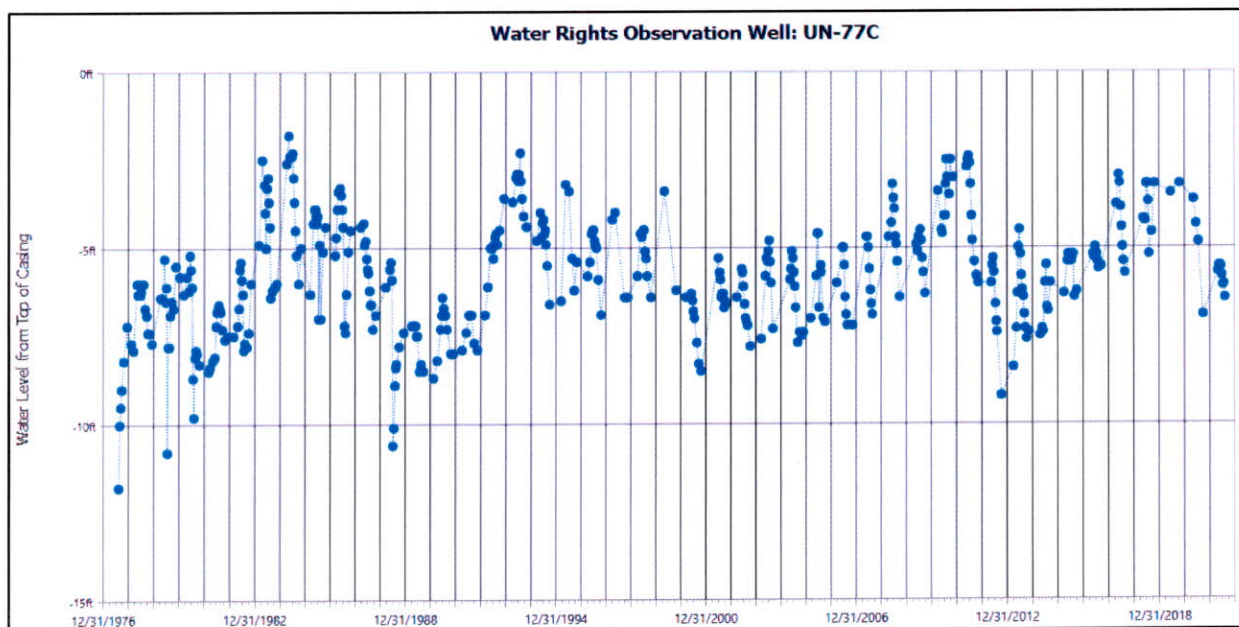


Figure 3- Hydrograph for observation well UN-77C, approximately 3.7 miles southwest of the wells proposed by Application No. 8623-3 (Water Rights, 2022c)

Observation well UN-77C shows some seasonal drawdown from pumping nearby irrigation wells, but UN-77A, the unconfined observation well shows almost no seasonal drawdown from pumping nearby irrigation wells. The minimal decline in water level over the course of the year in UN-77A is caused by the fact recharge to the aquifer is seasonal and occurs in late Autumn, and Spring to early Summer. At the lowest recorded water level in UN-77C, there is still more than 90 feet of artesian head pressure above the top of the easily identifiable aquifer and more than 70 feet of artesian head pressure above a section of material that is intermixed layers of clay and sand that may be the top of the aquifer (Water Rights, 2022c).

South Dakota Codified Law (SDCL) 46-6-6.1 does not necessarily protect artesian head pressure as a means of delivery, and the Water Management Board has recognized in the past to place water to maximum beneficial use, a certain amount of drawdown may occur. In order to balance interests between appropriative use and delivery of water by artesian head pressure, the Water Management Board defined an "adversely impacted domestic well" in Administrative Rule of South Dakota (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”.

The Water Management Board considered the delivery of water by artesian head pressure versus maximum beneficial use of water issue for Water Right No. 2313-2 for Coca-Cola Bottling Company of the Black Hills (Water Rights, 1995). The Water Management Board adopted Findings of Facts and Conclusions of Law that noted reservation of artesian head pressure for delivery of water would be inconsistent with SDCL 46-1-4 which states, “general welfare requires that the water resources of the state be put to beneficial use to the fullest extent of which they are capable...” (Water Rights, 1995). Furthermore, the Water Management Board found if increased cost or decreased production as a result of impacts on artesian head pressure by legitimate users is to be considered an adverse impact it would also be in conflict with SDCL 46-1-4 (Water Rights, 1995). With that in mind, some existing well owners may need to lower their pumps to accommodate for deeper water levels. There are no complaints on file with the DANR-Water Rights Program regarding well interference issues from the Brule Creek aquifer (Water Rights, 2022a). However, when considering the statute (SDCL 46-6-6.1), rule (ARSD 74:02:04:20(7)), the artesian head pressure, and the potential connection to nearby surface water sources, there is a reasonable probability that any drawdown created by pumping this proposed diversion will not unlawfully impair existing users with adequate wells. Therefore, there is a reasonable probability this application will not unlawfully impair existing surface water appropriators.

CONCLUSIONS:

1. Application No. 8623-3 proposes to irrigate 246.45 acres at a maximum instantaneous diversion rate of 1.56 cfs from up to two wells to be completed into the Brule Creek aquifer in Union County.
2. Based on the observation well data and a hydrologic budget, there is a reasonable probability unappropriated water is available for this proposed appropriation.
3. There is a reasonable probability that pumping this proposed diversion will not unlawfully impair existing users with adequate wells.



Adam Mathiowetz, PE
SD DANR-Water Rights Program

REFERENCES:

- Buhler, K.A. Water Permit Application No. 7166-3 Steve Andrews. DANR-Water Rights Program Water Right No. 7166-3 file. Pierre, South Dakota.
- Friedeman, B.A. *Personal Communication*. DANR-Drinking Water Program Environmental Scientist II. April 16, 2021. Pierre, South Dakota.
- Hedges, L.S., S.L. Burch, D.L. Iles, R.A. Barari, and R.A. Schoon. 1982. Evaluation of Ground-water Resources in Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa. Task 1: Bedrock Topography and Distribution, Task 2: Extent of Aquifers, Task 3: Ground-Water Storage, Task 4: Computerized Data Base, Final Report; U.S. Army Corps of Engineers Contract DACW 45-80-C-0185.
- Niehus, C.A. 1994. Water Resources of Lincoln and Union Counties. South Dakota. Water-Resources Investigations Report 93-4195. U.S. Geological Survey. Rapid City, SD
- Water Rights. 2022a. County Files. SD DANR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2022b. Irrigation Questionnaire Files. SD DANR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2022c. Observation Well Files. SD DANR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2022d. Water Right/Permit Files. SD DANR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 2022de. Well Completion Reports. SD DANR-Water Rights Program, Joe Foss Bldg., Pierre, South Dakota.
- Water Rights. 1995. Findings of Fact, Conclusions of Law, and Final Decision in the Matter of Water Permit Application No. 2313-2, Coca-Cola Bottling Company of the Black Hills. DANR-Water Rights Program file for Water Right No. 2313-2. Pierre, South Dakota.

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, May 24, 2022 9:48 AM
To: andenvanbeek@gmail.com
Subject: Water Permit Application No. 8623-3
Attachments: 3490.pdf

Attached is a copy of the report, chief engineer recommendation and information regarding the public notice for your water permit application. As stated in the letter, please contact the paper(s) as soon as possible to authorize publication and arrange for payment. This information is being mailed to you today.

Karen Schlaak
DANR - Water Rights Program
(605) 773-3352
Website: <https://danr.sd.gov>



AFFIDAVIT OF PUBLICATION

RECEIVED

STATE OF SOUTH DAKOTA

JUN 16 2022

SS

OFFICE OF
WATER

COUNTY: UNION

CITY: BERESFORD

NEWSPAPER: BERESFORD REPUBLIC

Allyson Hill, being first duly sworn, on oath, says that the BERESFORD REPUBLIC IS a weekly newspaper published in said city and county, State of South Dakota; that she has full and personal knowledge of the facts herein stated; that said newspaper is a legal newspaper as defined in SDCL 17-2-2.1 through 17-2-2.4 inclusive, and has met all the requirements for at least one year next prior to the first publication of the attached public notice, and that said notice, a printed copy of which, taken from the paper in which the same was published, and which is hereto attached and made a part of this affidavit, was published in said newspaper

01 time(s) as follows: that the first publication of said notice in said newspaper aforesaid was on Thursday the

9 day of June, 2022, and that the succeeding publications were severally on

Thursday, the ____ day of _____, 2022;

Thursday, the ____ day of _____, 2022;

Thursday, the ____ day of _____, 2022

Affiant further says that the full amount of the fees charged for the publication of said notice inures to the benefit of the publishers of said newspaper; that no agreement of understanding for the division thereof has been made with any other person, that no part therefore has been agreed to be paid to any person whomsoever; and that the fees charges for the publication thereof are:

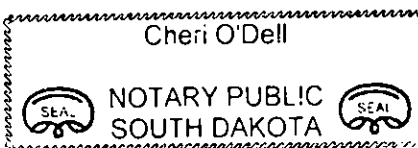
DOLLARS \$ 33.17

Allyson Hill, Allyson Hill
Subscribed and sworn to before me this 9th day of
June, 2022.

Cheri O'Dell

Notary Public

My commission expires 03/12/2025.



7/13/2022

41

2022

7-13

**NOTICE OF
APPLICATION
NO. 8623-3 to
Appropriate Water**

Notice is given that Anden Van Beek, PO Box 319, Hudson SD 57034 has filed an application for a water permit to appropriate 1.56 cubic feet of water per second from up to two wells to be completed into the Brule Creek Aquifer (approximately 120 feet deep) located in the S 1/2 SW 1/4 Section 13 for irrigation of 246.45 acres located in the W 1/2 Section 13; all in T95N-R50W. This site is located approximately 4 miles southeast of Beresford SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8623-3 with qualifications because 1) unappropriated water is available, 2) existing domestic water uses and water rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest as it pertains to matters within the regulatory authority of the Water Management Board. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <https://danr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

Any person interested in opposing this application or recommendation shall allege that the application, upon approval, will cause injury to the person that is unique from any injury suffered by the public in general. The injury must concern a matter either within the regulatory

authority found in SDCL 46-2A-9 for approval or denial of the application, or other matter concerning the application within the regulatory authority of the board to act upon as defined by SDCL 46-2-9 and 46-2-11, or both. Any person meeting the petitioner requirements and wishing to be a party of record in a contested case hearing shall file a written petition to oppose the application with BOTH the applicant and Chief Engineer. A petition opposing the application shall be filed on a form provided by the Chief Engineer. The petition form is available online at <https://danr.sd.gov/public> or by contacting the Chief Engineer. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501" or call (605) 773-3352. The applicant's mailing address is given above. If contesting the Chief Engineer's recommendation, the applicant shall also file a petition. A petition filed by either an interested person or the applicant must be filed by June 20, 2022.

The petition shall include a statement describing the unique injury upon approval of the application on the petitioner, the petitioner's reasons for opposing the application, and the name and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

Any interested person may file a comment on the application with the Chief Engineer. The comment shall be filed on a form provided by the Chief Engineer and is available online at <https://danr.sd.gov/public> or by calling (605) 773-3352 or writing the Chief Engineer at the address pro-

vided above. Filing a comment shall not make the commenter a party of record or a participant in any hearing that may be held. Any comment must be filed by June 20, 2022.

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.

Published once at the total approximate cost of \$33.17

BA 0806-S
330620

AFFIDAVIT OF PUBLICATION

YANKTON DAILY PRESS AND DAKOTAN

RECEIVED

JUN 06 2022

OFFICE OF
WATER

ANDEN VAN BEEK
PO BOX 319
HUDSON SD 57034

STATE OF SOUTH DAKOTA
COUNTY OF YANKTON

KELLY HERTZ, BEING FIRST DULY SWORN ON OATH DEPOSES
AND SAYS THAT (S)HE IS THE MANAGING EDITOR OF YANKTON
MEDIA INC, A CORPORATION, THE PRINTER AND THE PUBLISHER OF THE
YANKTON DAILY PRESS AND DAKOTAN, A LEGAL DAILY NEWSPAPER
PUBLISHED AND CIRCULATED IN THE CITY OF YANKTON, SAID COUNTY
AND STATE, AND ONE OF THE OFFICIAL NEWSPAPERS OF THE SAID
COUNTY OF FACTS STATED IN THIS AFFIDAVIT; THAT THE ANNEXED
6+2 NOTICE OF APPLICATION

TAKEN FROM THE PAPER, IN WHICH IT WAS LAST PUBLISHED IN THE
NEWSPAPER ON THE 2nd DAY OF June, 2022
THAT THE FULL AMOUNT OF THE FEE CHARGED FOR THE PUBLICATION
OF SAID NOTICE TO WIT \$39.52 ENSURES TO THE
BENEFITS OF THE PUBLISHER OF SAID NEWSPAPER AND THAT NO
AGREEMENT AND UNDERSTANDING FOR THE DIVISION THEREOF HAS
BEEN MADE WITH ANY OTHER PERSON, AND THAT NO PART THEREOF
HAS BEEN AGREED TO BE PAID TO ANY PERSON WHOMSOEVER.

PUBLISHED ON: 06/02/2022

FILED ON: 06/02/2022


SUBSCRIBED AND SWORN TO BEFORE ME THIS 2nd DAY OF June, 2022


NOTARY PUBLIC, SOUTH DAKOTA
MY COMMISSION EXPIRES 07/04/2026

NOTICE OF APPLICATION NO. 8623-3 to Appropriate Water

Notice is given that Anden Van Boek, PO Box 319, Hudson SD 57034 has filed an application for a water permit to appropriate 1.56 cubic feet of water per second from up to two wells to be completed into the Brule Creek Aquifer (approximately 120 feet deep) located in the S 1/2 SW 1/4 Section 13 for irrigation of 246.45 acres located in the W 1/2 Section 13; all in T95N-R50W. This site is located approximately 4 miles southeast of Beresford SD.

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Published once at the total approximate cost of \$39.52 and can be viewed free of charge at www.sdpublicnotices.com

Water Rights Program - File Documentation

NAME: Anden Van Beek

ADDRESS: Hudson SD

DATE: 6-2-22

RE: Publication Notice

COMMENTS:

Allyson with the Beresford Republic called and said the Notice Application No. 8623-3 did not get published today.

I resent the notice to be published June 9th.



Karen Schlaak
Water Rights Program

NOTICE OF APPLICATION NO. 8623-3 to Appropriate Water

Notice is given that Anden Van Beek, PO Box 319, Hudson SD 57034 has filed an application for a water permit to appropriate 1.56 cubic feet of water per second from up to two wells to be completed into the Brule Creek Aquifer (approximately 120 feet deep) located in the S 1/2 SW 1/4 Section 13 for irrigation of 246.45 acres located in the W 1/2 Section 13; all in T95N-R50W. This site is located approximately 4 miles southeast of Beresford SD.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 8623-3 with qualifications because 1) unappropriated water is available, 2) existing domestic water uses and water rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest as it pertains to matters within the regulatory authority of the Water Management Board. The Chief Engineer's recommendation with qualifications, the application, and staff report are available at <https://danr.sd.gov/public> or contact Ron Duvall for this information, or other information, at the Water Rights Program address provided below.

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Published once at the total approximate cost of _

Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, May 24, 2022 9:44 AM
To: Beresfor Republic (republic@bmtc.net)
Subject: 8623-3, Anden Van Beek
Attachments: 8623-3public.short_final.docx; FORM8.FRM.doc

Attached is a notice to be published on June 2, 2022.

Anden Van Beek, PO Box 319, Hudson SD 57034 (605 321-4933) 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

DANR - Water Rights Program

(605) 773-3352

Website: <https://danr.sd.gov>



Schlaak, Karen

From: Schlaak, Karen
Sent: Tuesday, May 24, 2022 9:45 AM
To: 'Kelly Kronaizl'
Subject: 8623-3, Anden Van Beek
Attachments: 8623-3public.short_final.docx; FORM8.FRM.doc

Attached is a notice to be published on June 2, 2022 in the Press & Dakotan.

Anden Van Beek, PO Box 319, Hudson SD 57034 (605 321-4933) 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

DANR - Water Rights Program
(605) 773-3352
Website: <https://danr.sd.gov>





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

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

May 24, 2022

Anden Van Beek
PO Box 319
Hudson SD 57034

Dear Mr. Van Beek:

Water Permit Application No. 8623-3 for irrigation use have been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Beresford Republic printed at Beresford (Ph # 605 763-2006) and the Press & Dakotan printed at Yankton (Ph # 605 665-7811). 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 publishers have been instructed to publish your notice. The newspapers have 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,

Karen Schlaak

Karen Schlaak
Water Rights Program
(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. 8623-3 to Appropriate Water

Notice is given that Anden Van Beek, PO Box 319, Hudson SD 57034 has filed an application for a water permit to appropriate 1.56 cubic feet of water per second from up to two wells to be completed into the Brule Creek Aquifer (approximately 120 feet deep) located in the S 1/2 SW 1/4 Section 13 for irrigation of 246.45 acres located in the W 1/2 Section 13; all in T95N-R50W. This site is located approximately 4 miles southeast of Beresford SD.

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Published once at the total approximate cost of _



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

JUL 25 2022

Anden VanBeek
PO Box 319
Hudson SD 57034

Dear Mr. VanBeek:

Enclosed is Water Permit No. 8623-3 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,

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

enclosures

c: Donald J Nelson (email)

8623-3

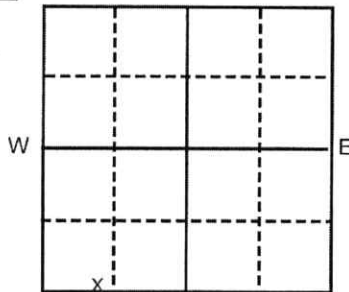
SD EForm - 1621LD V1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW ¼ SW ¼ Sec 13 Twp 95N Rg 50WCounty UNION

North

Please mark well
location with an "X"

Well Completion Date

8/17/2023

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

1400 ft. from SEPTIC SYSTEM (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

TREMMIE

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	<u>16</u> IN	<u>0</u> FT	<u>60</u> FT	<u>22</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
Groutwell DF	<u>20</u>	Lb/gal	<u>0</u> Ft	<u>58</u> Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

ROTARY

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16 InchesLength 40 FeetMaterial PVCSlot Size .050 Set From 60 Feet to 100 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? HTH TABLETS
☐ No, Why Not?
Lab to which water
quality sample sent for analysisWell Owner: ANDEN VAN BEEK

Business Name:

Address: PO BOX 319City, State, Zip: HUDSON ☒ SD ☒ 57034

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOP SOIL	0	3
BROWN CLAY	3	15
SANDY SOFT BROWN CLAY	15	29
GRAY CLAY - LITTLE SAND	29	58
FINE SAND - COARSE GRAVEL	58	77
BROWN CLAY	77	80
FINE GRAVEL - CLAY LAYERS	80	94
SHALE	94	100

STATIC WATER LEVEL 33 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

 LATITUDE: 43.04046
 LONGITUDE: -96.70537
 ELEVATION: 1370

RECEIVED

AUG 31 2023

OFFICE OF
WATERThis well was drilled under license # 810 and this report is true and accurate.Drilling firm: Heine Electric & Irrigation, Inc.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date:

8-31-23

RECEIVED

OCT 30 2024

OFFICE OF
WATERNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 10/25/2024TO: Water Rights Program, DANR
523 E. Capitol
Pierre, SD 57501-3181FROM: Mavis Van Beek (Anden passed away (12/2/2022))
(name)
PO Box 319
(address)
Hudson SD 57034 (605) 351-1149
(city, state, zip) (phone)

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

Water Permit No. 8623-3 states that the water use system is to be constructed by
June 20, 2027 and water is to be put to beneficial use by June 20, 2031
(date) (date)

The water use system was completed on May 15, 2024
(date)

Applying the water to beneficial use was completed on July 10, 2024
(date)

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

[Signature]
(signature)
CFO / Farm Manager





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

November 1, 2024

8623-3

Mavis Van Beck
PO Box 319
Hudson SD 57034

Dear Ms. Van Beck:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you submitted letting us know that the water use system authorized by Water Permit No. 8623-3 has been completed.

The system is now ready for inspection. Inspections are done on a county-by-county basis as staff time permits 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.

It is the understanding of the Water Rights Program that Anden Van Beck, the permit holder of record, has passed away and that ownership of Water Permit No. 8623-3 should be transferred accordingly. For your convenience I have enclosed a partially completed "Transfer of Ownership" form for you to complete and return in the pre-paid envelope, as well as a copy of the original permit.

Please return the form with a check for \$50.00 made payable to "SD Water Rights Program" to cover the transfer fee. If you would prefer to pay by card, you may call our Fiscal Office at 605.773.5559. This form will still need to be returned even if you are submitting payment over the phone.

If you have any questions or concerns, please give me a call. My direct number is 605.910.5187

Sincerely,

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

enclosures

8623-3

PAID

NOV 14 2024

Ck# 1021

Rec't# _____

NOTICE OF TRANSFER OF OWNERSHIP

For assistance call (605) 773-3352

Mail to: SD DANR, Water Rights Program
523 E Capitol Ave
Pierre, SD 57501-3182

Water Right/Permit No. 8623-3Date: 11/8/2024

I/We request that Water Right/Permit No. 8623-3 formerly owned by:
Anden Van Beck - Hudson SD be transferred to:

New Owner Name: Mavis Van BeckAddress: PO Box 319 mobile: (605) 321-3514City, State, Zip Hudson, SD 57034 email: Mavis.VanBeck@gmail.com

Title to the following described land(s)/property has been transferred as described above:

246.45 acres - W 1/2 Section 13, T95N, R50W

☒ I understand that the validity of Water Right/Permit No. 8623-3 has not been determined by this transfer action. If I have any questions on validity, I understand that only the Water Management Board has the authority to determine if a water right/permit is valid (see note below).

You are requested to file this "Notice of Transfer" in the appropriate file with the Water Rights Program, as evidence of the change of ownership.

A fee of Fifty Dollars (\$50.00) is included to cover the filing fee as required by SDCL 46-2-13.

I, Mavis Van Beck, the new owner, certify that the above information is true and correct.

Mavis Van Beck
(signed by new owner)

NOTE: Water permits may be cancelled for nonconstruction after the five-year construction period has expired. Once a water permit is developed, an inspection is conducted to issue a water right license for the project as developed. A water permit/right may be cancelled for one or more of the following reasons:

1. Abandonment - no intent to use water and use is abandoned.
2. Forfeiture - no use of water for three-year period without legal excuse.
3. For a third violation of a condition of a water permit/right.

2021-08

RECEIVED

NOV 14 2024

OFFICE OF
WATER

RECEIPT

WATER RIGHTS PROGRAM South Dakota Department of Agriculture and Natural Resources

Date November 20TH, 2024

RECEIVED OF Interstate Farms C/O Mavis Van Beck PO Box 319 Hudson SD 57034

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	\$ _____
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. _____	\$ _____
Fee for Filing Transfer Form #8623-3	<u>\$50.00</u>
Fee for _____	\$ _____
Fee for Issuing New Well Driller's License No. _____	\$ _____
Fee for Renewal of Well Driller's License No. _____	\$ _____
Fee for Issuing Well Pump Installer's License No. _____	\$ _____
Fee for Renewal of Well Pump Installer's License No. _____	\$ _____
(Any Other Work Provided by Law)	
TOTAL	<u>\$50.00</u>

By Eric Stenlund
Chief Engineer

SK



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

November 20, 2024

8623-3

Mavis Van Beek
PO Box 319
Hudson SD 57034

Dear Ms. Van Beek:

I have received your "Notice of Transfer of Ownership" form and the required fees for the transfer of Water Permit No. 8623-3. Enclosed is a receipt of payment for your records.

Water Permit No. 8623-3 previously owned by Anden Van Beek is now listed under yourself. I have also updated your contact information in our system.

As a reminder, so long as you use the water beneficially, as stated in the permit, State Water Laws provide that you have a continuing right to use the water. Should the water not be put to beneficial use for a period longer than 3 consecutive years, without legal excuse, the water right will be subject to cancellation.

If you have any questions, please contact me.

Sincerely,

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

NOTE: The validity of Water Permit No. 8623-3 has not been determined by this transfer action. Only the Water Management Board has the authority to determine if a water permit/right is valid.

enclosure