

FILE COPY

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Water Rights Program

Mail to: SD DANR, Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>9028-3</u> Hydrologic Unit <u>10170203</u>
	Basin <u>Lower Big Sioux</u>
	Newspaper <u>Beresford Republic</u>
	<u>Argus Leader</u> (office use only)

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 Dakota Deere Farms, LLC

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

Mailing Address 30295 471st Ave Beresford SD 57004
(Address) (City) (State) (Zip Code)

Phone 605-351-0814 Mobile 605-261-9208 Email dakota_deere@hotmail.com

2. Amount of water claimed 1.768 *CFS or 800 **GPM _____ ***AF Total Acreage 187
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Ground Water Aquifer

4. Location of point of diversion 1 Well in NE 1/4 NE 1/4 Section 22 - T095N - R50W
(example - 3 wells in SW 1/4 NE 1/4 section 12 - T104N-R53W)
County Union

5. County or counties where water will be used Union

6. Annual period during which water is to be used April 1 - October 31

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

Land Description	Acres	Land Description	Acres
NW 1/4 Sec 22 - T 095N - R 50W			
<u>W 1/2</u> NE 1/4 Sec 22 - T 095N - R 50W			

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

Utilizing a water well to irrigate crop via venter pivot.

I, Allen Andrews CEO, 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.

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

43.03835/-96.73057

Supplemental Information

(type or print)

1. Well Information (check one or both as applicable)

Drilling new well(s) Using existing well(s)

a) If new wells, how many 1 Have test holes been drilled? Yes No Drilled by Thein Well Co.
(if yes, please provide copies of logs)

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

For either existing or proposed wells:

c) Well Depth (required) 86 Depth to Top of Water Bearing Material 6' Depth to Water from Surface _____

d) Distance to nearest domestic well on applicant's property 2,000 Property owned by others 4,800'

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)

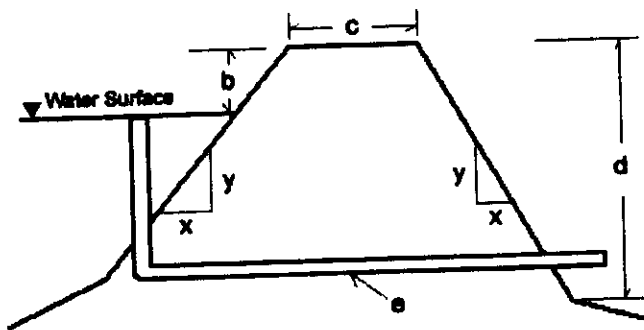
Upstream _____

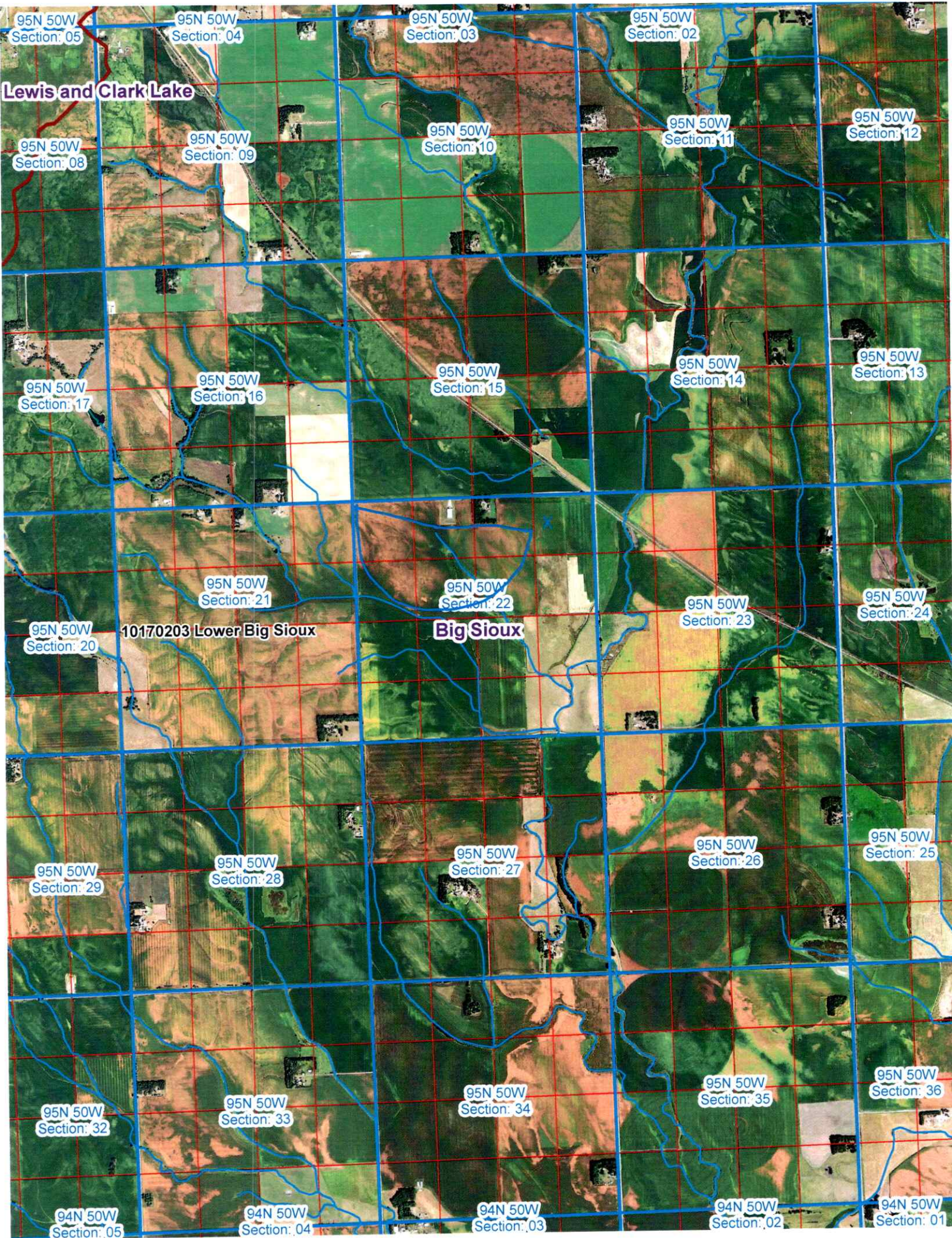
Downstream _____

h) Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres





95N 50W
Section: 05

95N 50W
Section: 04

95N 50W
Section: 03

95N 50W
Section: 02

Lewis and Clark Lake

95N 50W
Section: 08

95N 50W
Section: 09

95N 50W
Section: 10

95N 50W
Section: 11

95N 50W
Section: 12

95N 50W
Section: 17

95N 50W
Section: 16

95N 50W
Section: 15

95N 50W
Section: 14

95N 50W
Section: 13

95N 50W
Section: 21

95N 50W
Section: 22

95N 50W
Section: 23

95N 50W
Section: 24

95N 50W
Section: 20

10170203 Lower Big Sioux

Big Sioux

95N 50W
Section: 29

95N 50W
Section: 28

95N 50W
Section: 27

95N 50W
Section: 26

95N 50W
Section: 25

95N 50W
Section: 32

95N 50W
Section: 33

95N 50W
Section: 34

95N 50W
Section: 35

95N 50W
Section: 36

94N 50W
Section: 05

94N 50W
Section: 04

94N 50W
Section: 03

94N 50W
Section: 02

94N 50W
Section: 01

Alan Andrews - Beresford

Legend

300th St

300th St

474th Ave

474th Ave

Alan Andrews TH # 1 80' 3/13/2024

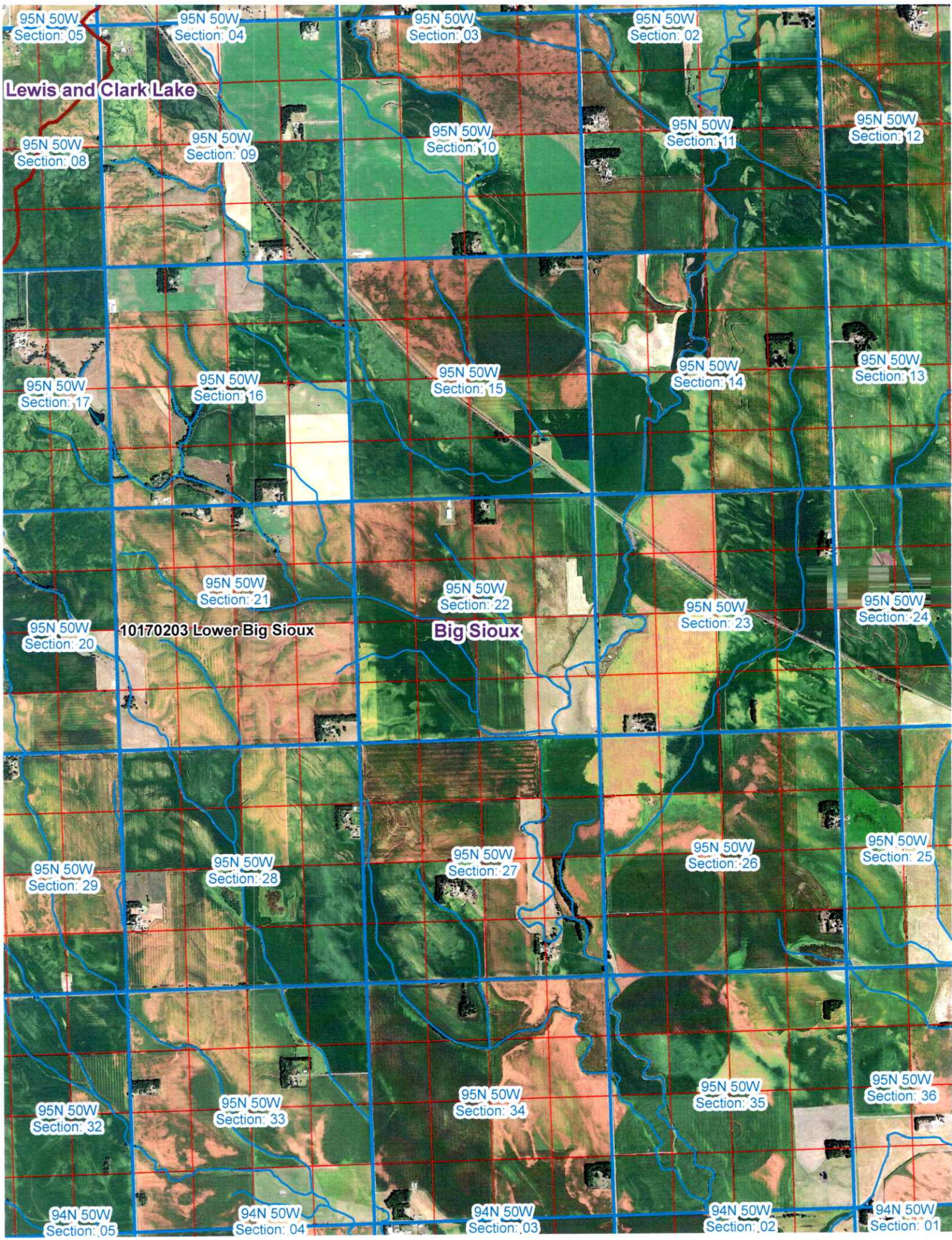
Alan Andrews 90' TH # 3

Alan Andrews Th # 2 100' 3/13/2024

Google Earth



1000 ft



95N 50W
Section: 05

95N 50W
Section: 04

95N 50W
Section: 03

95N 50W
Section: 02

Lewis and Clark Lake

95N 50W
Section: 08

95N 50W
Section: 09

95N 50W
Section: 10

95N 50W
Section: 11

95N 50W
Section: 12

95N 50W
Section: 17

95N 50W
Section: 16

95N 50W
Section: 15

95N 50W
Section: 14

95N 50W
Section: 13

95N 50W
Section: 20

10170203 Lower Big Sioux

95N 50W
Section: 21

95N 50W
Section: 22

Big Sioux

95N 50W
Section: 23

95N 50W
Section: 24

95N 50W
Section: 29

95N 50W
Section: 28

95N 50W
Section: 27

95N 50W
Section: 26

95N 50W
Section: 25

95N 50W
Section: 32

95N 50W
Section: 33

95N 50W
Section: 34

95N 50W
Section: 35

95N 50W
Section: 36

94N 50W
Section: 05

94N 50W
Section: 04

94N 50W
Section: 03

94N 50W
Section: 02

94N 50W
Section: 01

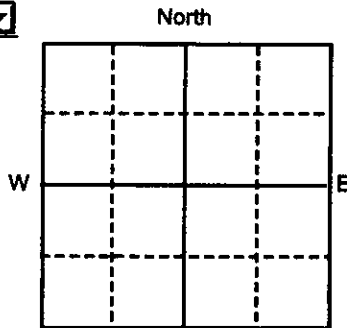
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 NW 1/4 Sec 22 Twp 95 Rg 50

County UNION

Please mark well location with an "X"



Well Completion Date

3/12/2024



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

PROPOSED USE:

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

METHOD OF DRILLING:

MUD ROTARY

CASING DATA:

If other describe Steel Plastic Other

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	6.50 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
BENTONITE	10	Lb/gal	0 Ft	80 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

TREMIE PIPED

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

TEST HOLE ONLY

Well Owner: ALAN ANDREWS

Business Name:

Address: 30295 471ST AVE

City, State, Zip: BERESFORD SD 57004

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOP SOIL	0	3
CLAY BROWN	3	9
CLAY TAN / GRAY SILTY	9	31
CLAY TAN- BROWN	31	37
CLAY GRAY SILTY	37	42
SAND MED	42	63
CHALK	63	65
CLAY BROWN	65	67
SHALE BLACK	67	80

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

GPS N 43 2.3270 W 96 44.3650

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

Drilling firm: THEIN WELL COMPANY, INCORPORATED

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 4-2-2024

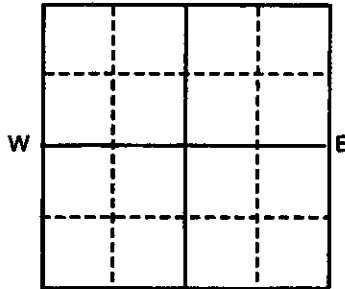
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SE 1/4 NW 1/4 Sec 22 Twp 95 Rg 50

County UNION North

Please mark well location with an "X"



Well Completion Date

3/12/2024



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

PROPOSED USE:

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

METHOD OF DRILLING:

MUD ROTARY

CASING DATA:

Steel Plastic Other

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
				<u>6.50</u>

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
		Lb/gal	0 Ft	100 Ft
<u>BENTONITE</u>	<u>12</u>			

Describe grouting procedure

TREMIE PIPED

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? TEST HOLE ONLY

Lab to which water quality sample sent for analysis

Well Owner: ALAN ANDREWS

Business Name: _____

Address: 30295 471ST AVE

City, State, Zip: BERESFORD SD 57004

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>SEE ATTACHED LOG</u>	<u>0</u>	<u>100</u>

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

GPS N 43 2.0770 W 96 44.22610 TH # 2

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

Drilling firm: THEIN WELL COMPANY, INCORPORATED

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 4-2-2024

Alan Andrews TH # 2 Sec 22 Beresford

GPS N 43 2.0770 W 96 44.2260

<i>Formation</i>	<i>From</i>	<i>To</i>
Top soil	0	4
Clay brown	4	13
Clay gray	13	15
Sand	15	18
Clay gray soft	18	41
Sand fine	41	45
Fine gravel	45	53
Sandy white clay w/ sand layers	53	62
Clay tan sandy w/ sand layers	62	72
Sand fine	72	97
Shale black	97	100

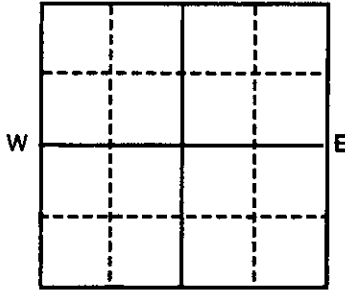
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 NE 1/4 Sec 22 Twp 95 Rg 50

County UNION North

Please mark well location with an "X"



Well Completion Date

3/12/2024



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

PROPOSED USE:

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

METHOD OF DRILLING:

MUD ROTARY

CASING DATA:

Steel Plastic Other

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	6.25 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>BENTONITE</u>	<u>10</u>	Lb/gal	<u>0</u> Ft	<u>90</u> Ft
		Lb/gal	Ft	<u>92</u> Ft

Describe grouting procedure

TREMIE PIPED

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

TEST HOLE ONLY

Well Owner: ALAN ANDREWS

Business Name:

Address: 30295 471ST AVE

City, State, Zip: BERESFORD SD 57004

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>SEE ATTACHED LOG</u>	<u>0</u>	<u>90</u>
		<u>92</u>

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: _____
- Baled
- Other

Pumping Level Below Land Surface

_____ Ft. After _____ Hrs. pumped _____ GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

GPS N 43 2.3120 W 96 43.8080 TH # 3

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

Drilling firm: THEIN WELL COMPANY, INCORPORATED

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 4.2.2024

Alan Andrews TH # 3 Sec 22 Beresford SD

GPS N 43 2.3120 W 96 43.8080

Formation	From	To
Top soil	0	3
Clay brown	3	6
Gravel	6	42
Sand coarse	42	55
Clay white sandy	55	56
Coarse sand and gravel	56	63
Clay white sandy	63	65
Sand medium	65	71
Clay white sand	71	76
Sand medium	76	86
Clay gray	86	92