

FILE COPY

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JAN 13 2015
WATER RIGHTS
PROGRAM

Mail to: PMB 2020 DENR- Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>8143-3</u>	(office use only) Hydrologic Unit <u>10170203</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Brookings Register</u>	
	<u>PO Box 177</u> <u>57006 605 692-4271</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 Jo's Family Farms

(check one) Owner Tenant/lessee Owner's Legal Agent _____
(name and complete address if different than above name)

Mailing Address 1911 W 57th St. STE 102 Sioux Falls SD 57108
(Address) (City) (State) (Zip Code)

Home Phone 605.338.4642 Cell 507.822.9266 Email wiering@agrilandrealty.com (farm manager Jon Wiering)

2. Amount of water claimed 1.28 *CFS or **GPM ***AF Total Acreage 178
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Big Sioux: Aurora aquifer

4. Location of point of diversion NW 1/4 SE 1/4 SE 1/4 Sec. 33, T109N-R47W
(example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)

County Brookings

5. County or counties where water will be used Moody County, SD, Pipestone County MN, Lincoln County, MN

6. Annual period during which water is to be used May 1-September 30

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

Land Description	Acres	Land Description	Acres
see Attachment A			

8. Give a description of the project. (Attach sheet if more space is needed)
Inspection of Water Permit No. 7178-3 identified: 1) an additional well in use; 2) diversion capacity in excess of rate authorized and 3) irrigation occurring on unauthorized acreage.
This application is for additional diversion rate authority of 1.28 cfs, authority to irrigate an additional 178 acres, and to correct the legal description of the acres irrigated under this permit and No. 7178-3

Jo's Family Farms, agent

I, Jon Wiering, Farm Manager, the applicant, certify that I have read this application, have examined the attached map, and that the matters stated are true.

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)

ATTACHMENT A

In South Dakota

NW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 34, T109N-R47W: 16.8 acres

NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 34, T109N-R47W: 36.1 acres

Gov. Lot 3 Sec. 34, T109N-R47W: 14.4 acres

SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 34, T109N-R47W: 26.8 acres

SE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 34, T109N-R47W: 39.5 acres

Gov. Lot 4, Sec. 34, T109N-R47W: 17.3 acres

Gov. Lot 1, Sec. 3, T108N-R47W: 56.6 acres

Gov. Lot 2, Sec. 3, T108N-R47W: 55.6 acres

Gov. Lot 3, Sec. 3, T108N-R47W: 56.3 acres

Gov. Lot 4, Sec. 3, T108N-R47W: 36.7 acres

NE $\frac{1}{4}$ SW $\frac{1}{4}$ Sec. 3, T108N-R47W: 23.2 acres

In Minnesota

NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 36, T109N-R47W: 32.0 acres

N $\frac{1}{2}$ Gov. Lot 2, Sec. 36, T109N-R47W: 22.5 acres

S $\frac{1}{2}$ Gov. Lot 2, Sec. 36, T109N-R47W: 22.4 acres

SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 36, T109N-R47W: 32.6 acres

N $\frac{1}{2}$ Sec. 2, T108N-R47W: 56.8 acres

S $\frac{1}{2}$ Sec. 2, T108N-R47W: 32.1 acres

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 _____ Have test holes been drilled Yes No Drilled by _____
(if yes, please provide copies of logs)

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

c) Well Depth 58 Depth to Top of Water Bearing Material 4 feet Depth to Water from Surface 14 feet

d) Distance to nearest existing domestic well:

On applicant's property unknown On property owned by others _____

2. Wastewater Disposal System Information

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

b) System Capacity (gallons) _____ Year Constructed _____

c) Connected to the City of _____ Sanitary System

3. Dugout Information

a) Surface Dimensions _____ Depth _____

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

4. Water Storage Dams

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

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

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____

If pipe, diameter _____

f) Secondary Spillway Capacity _____

Spillway Width _____

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

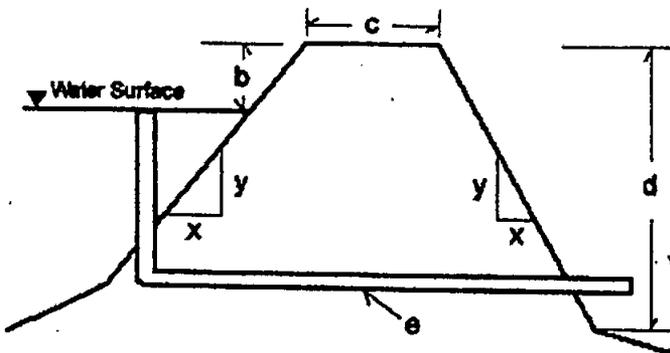
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

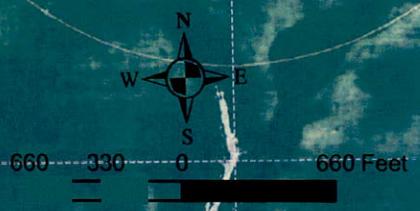
j) Drainage Area Above Dam _____ Acres





Legend

- 7178-3 wells
- Buried 8-inch PIP
- System 5
- System 4
- System 3
- System 2



kb
29 Dec. 2014

[Handwritten signature]

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SE 1/4 SE 1/4 Sec 33 Twp 109-N Rg 47-W

County Brookings North

North

W

E

Please mark well location with an "X"

Well completion Date 5-11-11

1740 11.985 W 096° 20.200 ← 1 Mile →

Distance from nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)
? 1/4 mile from Septic Tank (identify source)

Well Owner: Phillip Sonstegard

Business Name: Joe's Family Farm

Address1: 1911 W 57th St. Suite 102

Address2: _____

City, State, Zip: Sioux Falls, S.D. 57108

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Topsoil</u>	0	1
<u>Sandy Clay</u>	1	4
<u>Yellow Gravel</u>	4	54
<u>Grey Coarse Gravel</u>	54	58

PROPOSED USE:

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

METHOD OF DRILLING:
Bucket- False Casing

STATIC WATER LEVEL 14' 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? _____

CASING DATA: Steel Plastic Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>50</u> LB/FT	<u>12</u> IN	<u>1</u> FT	<u>44</u> FT	<u>20</u> IN

WELL TEST DATA:

Pumped Describe: 6" sub

Bailed

Other

Pumping Level Below Land Surface

49' Ft. After 3 Hrs. pumped 1000 GPM

41' Ft. After 1 Hrs. pumped 750 GPM

If pump installed, pump rate: _____ GPM

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Cement</u>		Lb/gal	<u>0</u> Ft	<u>20</u> Ft
		Lb/gal		

Describe grouting procedure Tremie

SCREEN: Perforated pipe Manufactured

Diameter 12 Inches Length 14' Feet

Material Stainless Steel

Slot Size 100 Set From 50 Feet to 58 Feet

Other information .060 44 50

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WAS A PACKER OR SEAL USED? Yes No

If so, what material? _____

Describe packer(s) and location _____

(This well was drilled under license # 111)

And this report is true and accurate.

Drilling firm: Lacey Well Drilling Inc.

DISINFECTION: Was well disinfected upon completion?

Yes, How? Chlorine Pellets

No, Why Not? _____

Lab sample sent to for water quality analysis No - Log

Signature of License Representative: Jean Redden

Signature of Well Owner or Equitable Property Holder: Phillip Sonstegard

Date: JUNE 22, 2011

Please return White Copy to DENR Water Rights

523 E. Capitol Ave., Pierre SD 57501

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SE 1/4 SE 1/4 Sec 34 Twp 109-0 Rg 47-W

County Brookings North

Please mark well location with an "X"

	X		

Well completion Date 5-19-11

N44° 11.945 W 096° 27.545 1 Mile

Distance from nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)
3.4 miles ft. from Septic Tank (Identify source)

Well Owner: Phillip Sonstestad

Business Name: Joe's Family Farm

Address 1: 1911 W 57th St. Suite 102

Address 2: _____

City, State, Zip: Sioux Falls, S.Dak. 57108

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Gray Tension</u>	<u>0</u>	<u>5</u>
<u>Clay Sand</u>	<u>5</u>	<u>15</u>
<u>Sand-wet</u>	<u>15</u>	<u>20</u>
<u>Clay less</u>	<u>20</u>	<u>22</u>
<u>Brown Gravel</u>	<u>22</u>	<u>64</u>

PROPOSED USE:

Domestic/Stock Municipal Business Test Holes

Irrigation Industrial Institutional Monitoring well

METHOD OF DRILLING:
Bucket-Frame Casing

STATIC WATER LEVEL 15'7" FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by Valve Reducers Other _____

Reduced flow rate _____ GPM

Can well be completely shut in? _____

CASING DATA: Steel Plastic Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>50 LB/FT</u>	<u>12 IN</u>	<u>+1 FT</u>	<u>52 FT</u>	<u>20 IN</u>
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

WELL TEST DATA:

Pumped Describe: 6" sub

Bailed _____

Other _____

Pumping Level Below Land Surface

57 FL After 1 Hrs. pumped 950 GPM

_____ FL After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Cement</u>		<u>Lb/gal</u>	<u>0 Ft</u>	<u>20 Ft</u>
		<u>Lb/gal</u>	<u>Ft</u>	<u>Ft</u>

Describe grouting procedure Tremie

SCREEN: Perforated pipe Manufactured

Diameter 12 Inches Length 12 Feet

Material Stainless Steel

Slot Size 100 Set From 52 Feet to 64 Feet

Other information _____

REMARKS

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WAS A PACKER OR SEAL USED? Yes No

If so, what material? _____

Describe packer(s) and location _____

This well was drilled under license # 111

And this report is true and accurate.

Drilling firm: Jean Redden-Lacey

Signature of License Representative: _____

DISINFECTION: Was well disinfected upon completion?

Yes, How? Chlorine Pellet

No, Why Not? _____

Lab sample sent to for water quality analysis No. Long

Signature of Well Owner or Equitable Property Holder: X Phillip Sonstestad

Date: X June 22, 2011

Please return White Copy to DENR Water Rights

523 E. Capitol Ave., Pierre SD 57501

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW 1/4 SW 1/4 Sec 34 Twp 109-N Rg 47-W

County Brookings

North

Please mark well location with an "X"

Well completion Date 5-6-11

N44° 11.991 W 096.27 228 ← 1 Mile →

Distance from nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)
2 1/2 miles ft. from Septic Tank (Identify source)

Well Owner: Phillip Sonstegard

Business Name: Joe's Family Farm

Address1: 1911 W 57th St - Suite 100

Address2:

City, State, Zip: Sidoux Falls, SD 57105

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Till</u>	<u>0</u>	<u>2</u>
<u>Sandy Clay</u>	<u>2</u>	<u>3</u>
<u>Gravel</u>	<u>3</u>	<u>104</u>

PROPOSED USE:

Domestic/Stock Municipal Business Test Holes

Irrigation Industrial Institutional Monitoring well

STATIC WATER LEVEL 20 FEET

If flowing: closed in pressure _____ PSI

METHOD OF DRILLING:
Bucket - False Casing

GPM flow _____ through _____ Inch pipe

Controlled by Valve Reducers Other _____

CASING DATA: Steel Plastic Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	FT	FT	IN
<u>50</u>	<u>12</u>	<u>+1</u>	<u>52</u>	<u>20</u>

Reduced flow rate _____ GPM

Can well be completely shut in? _____

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
		Lb/gal	FT	FT
<u>Cement</u>			<u>0</u>	<u>20</u>

Describe grouting procedure Tremie

WELL TEST DATA:

Pumped Describe: 6" sub

Bailed

Other

SCREEN: Perforated pipe Manufactured

Diameter 12 Inches Length 12 Feet

Material Stainless Steel

Slot Size 100 Set From 52 Feet to 104 Feet

Other information _____

Pumping Level Below Land Surface

46 Ft. After 2 Hrs. pumped 1000 GPM

42 Ft. After 1 Hrs. pumped 800 GPM

If pump installed, pump rate: _____ GPM

WAS A PACKER OR SEAL USED? Yes No

If so, what material? _____

Describe packer(s) and location _____

REMARKS

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WATER RIGHTS PROGRAM

DISINFECTION: Was well disinfected upon completion?

Yes, How? Chlorine Pellets

No, Why Not? _____

Lab sample sent to for water quality analysis No

This well was drilled under license # 111

And this report is true and accurate.

Drilling firm: Lacey Well Drilling, Inc.

Signature of License Representative: [Signature]

Signature of Well Owner or Equitable Property Holder: [Signature]

Date: JUNE 22, 2011

Please return White Copy to DENR Water Rights

523 E. Capitol Ave., Pierre SD 57501