

WATER PERMIT NO. 7026-3

Name of Applicant: **Corey Friedrich**

Address: **47774 213th St, Aurora SD 57002** Phone: **605 693-4271**

Amount of Water Claimed: **0.87 cfs** Total Acres: **132**

Source of Water Supply: **groundwater (one well)**

Water to be used for: **irrigation** County: **Brookings**

Type of Waste Disposal System:

Location: **2 miles east of Aurora**

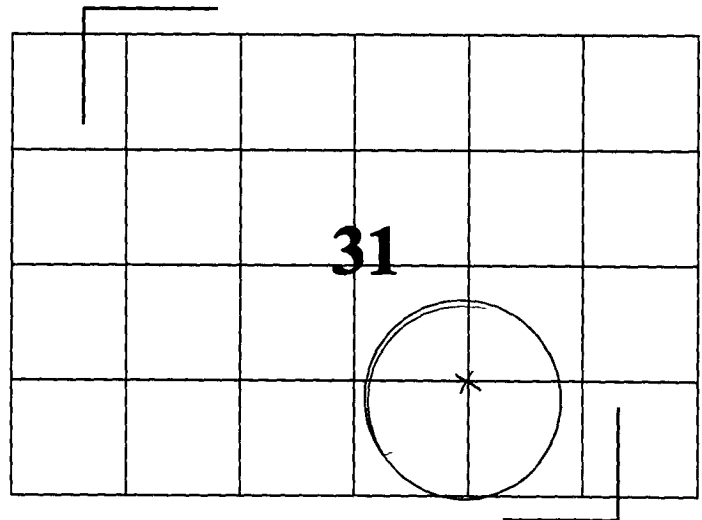
PRIORITY Date Received: **4-30-08** Application/License Fee: **\$300**

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

Remarks: **Cancelled Water Permit No. 2903-3 authorized to the applicant's Grandfather was for this same area.**

Diversion Point: **center of SE ¼ Sec 31-T110N-R48W**

Land to be Irrigated: **SE ¼ Sec 31-T110N-R48W**



Depth of Well: **41 feet deep**

Well Driller: : **Lacey Well Drilling, Inc.**

Remarks:

Type of Map: **aerial**

Prepared by: **Gary Krause, Brookings Co NRCS**

Reviewed and the Number Assigned on: **4-30-08**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No.	7026-3	(office use only) Hydrologic Unit	10170202
	Basin	Sioux River		
	Newspaper	Brookings Register POBox 177		
	605-692-6271	57006		

RECEIVED
APR 30 2008
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

1. Name of Applicant Corey Friedrich Phone (605) 693-4271
(check one) ☒ Owner ☐ Tenant/lessee
- Mailing Address 47774 213th St Aurora State SD 57002
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 1.45 *CFS or 650 **GPM 132 ***AF Total Acreage 132
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply 1 well in center of the SE 1/4 of 110-48 Section 31
4. Location of point of diversion (example - 3 wells in SW 1/4 NE 1/4 section 12-T104N-R53W) County Brookings
1 well in center of the SE 1/4 of 110-48 Section 31
5. County or counties where water will be used Brookings
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
SW 1/4 of the SE 1/4 110-48 Sec. 31	36		
SE 1/4 of the SE 1/4 110-48 Sec. 31	36		
NE 1/4 of the SE 1/4 110-48 Sec. 31	30		
NW 1/4 of the SE 1/4 110-48 Sec. 31	30		

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

STATE OF SOUTH DAKOTA) SS
County of Brookings)

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

I, Corey Friedrich, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature [Signature]
Subscribed and sworn to before me this 28th day of April 20 08

[Signature]
Notary Public signature

SOUTH DAKOTA
WATER PERMIT NO. 7026-3

Date of first receipt of application April 30, 2008.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7026-3 to Corey Friedrich, 47774 213th St, Aurora SD 57002 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. 7026-3 appropriates 1.45 cubic feet of water per second from one well completed into the Big Sioux:Aurora Aquifer (41 feet deep) located in the center of the SE 1/4 Section 31 to irrigate 132 acres located in the SE 1/4 Section 31; all in T110N-R48W.
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 30, 2008.
4. The date of approval of Permit No. 7026-3 is July 7, 2008.
5. One-fifth of the construction is to be completed on or before January 7, 2011.
6. All construction is to be completed on or before July 7, 2013.
7. Water is to be put to beneficial use on or before July 7, 2017.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

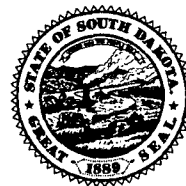
QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: Garland Erbele
Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

JUL 28 2008
date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others _____

Lacey Well Drilling
Send this information in

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 _____

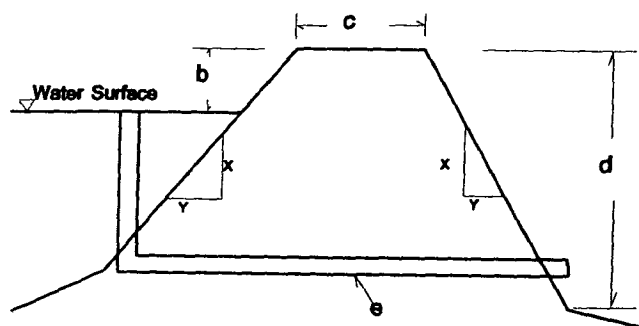
3. Dugout Information

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

4. Water Storage Dams

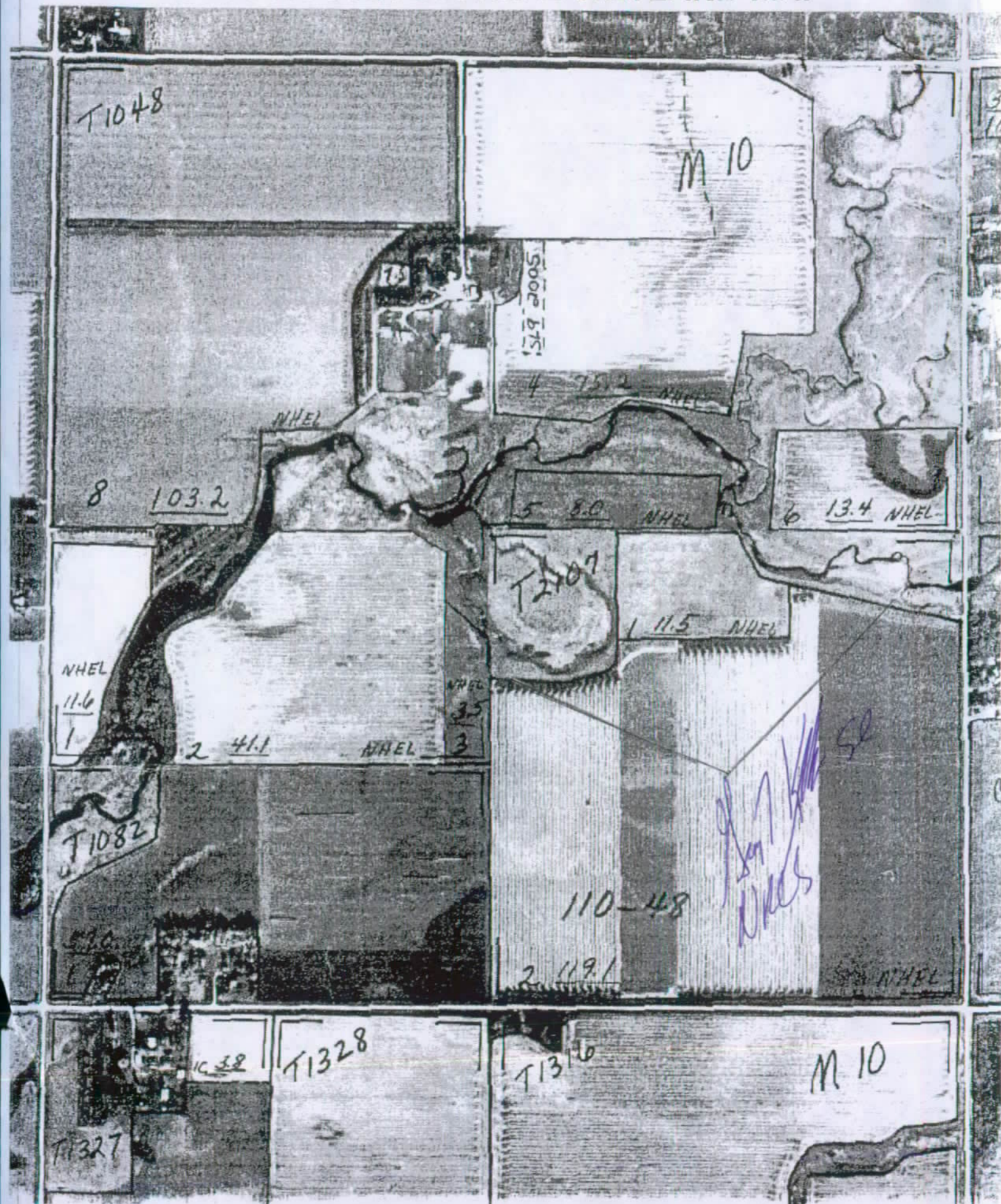
If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- 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 _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres

MAP NOT TO SCALE
THIS IS NOT AN OFFICIAL WETLAND MAP

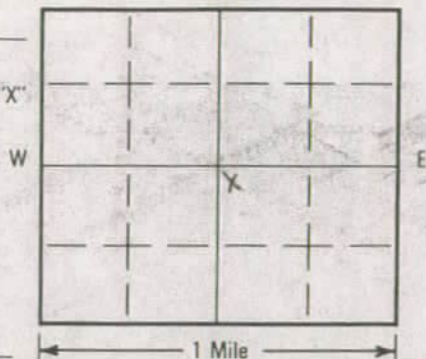


SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NW 1/4 SE 31 Twp 110-N Rg 48-W
County Brookings

Please mark well location with an "X"



Well-Completion Date

1-4-08

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1/4 mile ft. from old house septic (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Bucket False CASINGCASING 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>30'</u> FT	<u>20</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Cement</u>	_____	_____ lb./gal	<u>0</u> ft	<u>10</u> ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure _____

SCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 12 IN Length 11' FEETMaterial Stainless SteelSlot Size 1/10 Set From 30 Feet to 41 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: chlorine

Laboratory sent to for water quality analysis _____

BrookingsWell Owner: Cory Friedrich

Business Name: _____

Address: 47774 213rd St.Aurora, S.Dak. 57022

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Topsoil</u>	<u>0</u>	<u>2</u>
<u>yellow clay</u>	<u>2</u>	<u>5</u>
<u>yellow Gravel</u>	<u>5</u>	<u>20</u>
<u>Finer Gravel</u>	<u>20</u>	<u>40</u>
<u>Coarse Gravel</u>	<u>40</u>	<u>41</u>

STATIC WATER LEVEL 9' 6" Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Describe: _____☐ Bailed _____☐ Other _____

Pumping Level Below Land Surface

33' ft. After 3 Hrs. pumped 600 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

RECEIVED

FEB 11 2008

WATER RIGHTS
PROGRAMThis well was drilled under license # 111

And this report is true and accurate.

Drilling firm Lacey Well Drilling, Inc.

Signature of License Representative:

Joan Raddick

Signature of Well Owner or Equitable Property Holder:

Cory FriedrichDate: 1/29/08

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 4/30, 2008

RECEIVED OF Friedrich Trucking 47807 US HWY 14 Aurora SD 57002

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

Fee for Application for Permit No. <u>7026-3</u> to Appropriate Water, to construct and to put water to beneficial use	250	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>7026-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)		
TOTAL	300	00

No.

03651

By

Michael E. Erbe
Chief Engineer



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

April 9, 2008

Cory Friedrich
47774 213th St
Aurora SD 57022

Dear Mr. Friedrich:

A well driller's report filed by Lacey Well Drilling, Inc. shows that they completed a new well for you. The report indicates the well water will be used for irrigation. I have reviewed our files and can not find a water permit for a well located in the SE ¼ Section 31-T110N-R48W, Brookings County. Based on the information in the report, it appears you need a water permit.

Enclosed are application forms and an instruction sheet to apply for a water permit for irrigation. The completed forms with the application fee and map can be returned to: Water Rights Program, 523 E Capitol, Pierre SD 57501.

If you believe your water use does not require a water permit or that you have an existing permit, or if help is needed completing the application forms, please contact Eric Gronlund or me at (605) 773-3352. We will be happy to assist you in any way possible.

Sincerely,

Karen Schlaak
Water Rights Program
karen.schlaak@state.sd.us

enclosures



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7026-3, Corey Friedrich**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 7026-3, 7026-3, Corey Friedrich, 47774 213th Street, Aurora SD 57002.

The Chief Engineer is recommending APPROVAL of Application No. 7026-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer
June 12, 2008

REPORT ON WATER PERMIT APPLICATION NO. 7026-3
For Corey Friedrich
June 11, 2008

Application No. 7026-3 proposes to appropriate 1.45 cfs (650 gpm) from one well approximately 41 feet deep located in the center of the SE $\frac{1}{4}$ of section 31 to irrigate 132 acres located in the SE $\frac{1}{4}$ of section 31; all in T110N R48W in Brookings County.

AQUIFER – BIG SIOUX AURORA (BS-A)

The Big Sioux Aurora is a surficial outwash (sand and gravel) that is under water table conditions in this area. The aquifer underlies 39,300 acres and contains an estimated 165,060 acre feet of recoverable water in storage in Brookings County (Hedges, 1982). The aquifer blends into the Big Sioux Brookings aquifer to the west and is hydraulically connected to Medary Creek and its tributaries in this area. The direction of groundwater movement is from northeast to southwest in the area of this application (Hamilton, 1989). Recharge has been estimated to be about 6.57 inches per year for the water table portions of the Big Sioux aquifer in Brookings County (Koch, 1980). Both the Hedges and Hamilton reports indicate that section 32 is located well within the aquifer and should attain a thickness of about 40 feet.

The well completion report for this application indicates gravel from about 5 to 41 feet below land surface. The completed well had a static water level of about 9.5 feet below land surface and was capable of producing 600 gpm with 23.5 feet of drawdown. This equates to a specific capacity of 25.5 gpm/ft of drawdown. This is a relatively small specific capacity for this aquifer and this area. The well appears to be completed in accordance with SD Well Construction Standards.

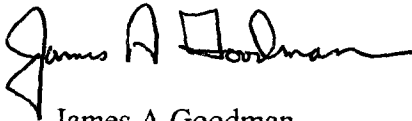
The Water Rights Program monitors two observation wells completed into the Big Sioux Aurora aquifer and within one mile of this application. These are observation wells BG-77I (located about one mile north) and BG-77J (located about one mile west) both from the site of this application. Water levels for these wells show good response to climatic conditions. Water levels rise during wet periods (recharge) and gradually decline during dry years. In general the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2008). Hydrographs for these two observation wells are included with this report.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There nearest existing water permit No. 6999-3 is located about one mile northeast of this application. At this distance drawdown would not be significant. Interference is not a concern. There maybe domestic wells in the area but there should be little effect on area water levels by this proposed well.

CONCLUSIONS

1. Water is available from the Big Sioux Aurora aquifer.
2. The aquifer is under water table conditions in this area. Drawdown created by pumping should not be significant. Interference is not a concern.
3. This is an existing well that has been constructed in accordance with SD Well Construction Standards.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

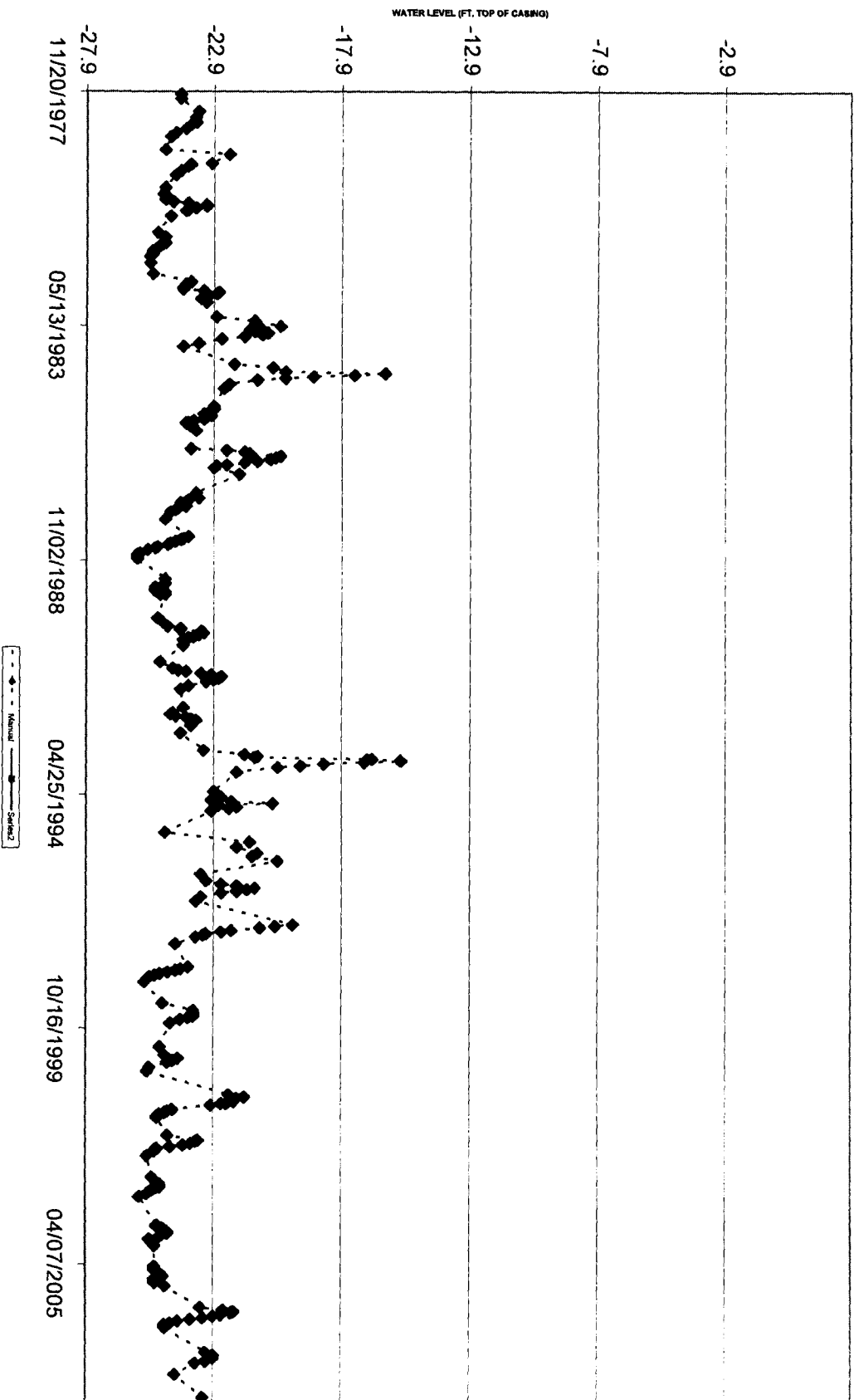
Hamilton, L.J., 1989, Water Resources of Brookings and Kingsbury Counties, South Dakota, Water-Resources Investigations Report 88-4185, USGS, Huron, SD, 57350.

Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources of Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

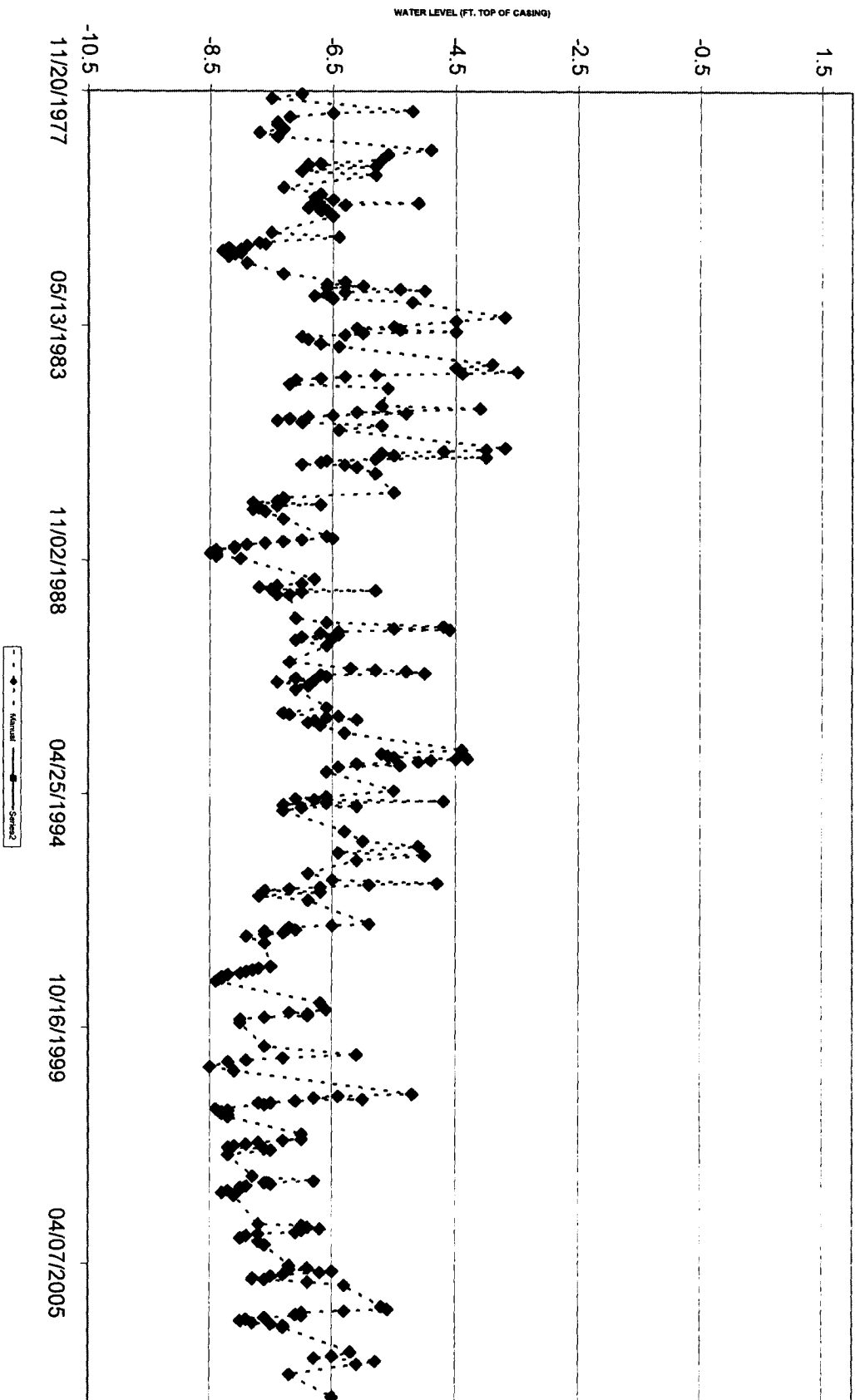
Koch, N.C., 1980, Appraisal of the Water Resources of the Big Sioux Aquifer, Brookings, Deuel, and Hamlin Counties, South Dakota, Water-Resources Investigation Report 80-100, USGS, Huron, SD, 57350.

Water Rights, 2008, Unpublished Observation Well Data for Brookings County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

**WATER RIGHTS' OBSERVATION WELL
BG-771**



WATER RIGHTS' OBSERVATION WELL BG-77J



Affidavit of Publication

State of South Dakota

Exhibit "A"

ss

County of Brookings

Amy B. Larsen of said county, first duly sworn, on oath, says: That she is the office clerk of THE BROOKINGS REGISTER, a daily newspaper, printed and published in the City of Brookings, in said County of Brookings, and State of South Dakota; that she has full and personal knowledge of the facts herein stated; that said newspaper is a legal newspaper and has a bona fide circulation of at least two hundred copies of each issue daily; that said newspaper has been published within the said County of Brookings and State of South Dakota, for more than one year prior to the first publication of Exhibit "A," hereto attached and herein mentioned, and was and is printed that the

Legal 360 "Corey Friedrich"

a printed copy of which, taken from the paper in which the same was published, is hereto attached marked Exhibit said newspaper for _____ 2 times, to-wit:

June 20, 2008

June 27, 2008

said Exhibit "A" inures to the sole benefit for the publishers of said newspaper; that no agreement or 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; that the fees charged for the publication thereof are:

Forty-one dollars and eighty-one cent(s). \$41.81

Subscribed and sworn to before me this

28th day of

June

2008

Notary Public in and for the County of Brookings, South Dakota.
My Commission expires April 27, 2012

RECEIVED

JUL - 7 2008

WATER RIGHTS
PROGRAM

Legal 360, 2x, 6/20,27
NOTICE OF APPLICA-
TION NO. 7026-3 to
Appropriate Water

Notice is given that Corey Friedrich, 47774 213th St, Aurora SD 57002 has filed an application for a water permit to appropriate 1.45 cubic feet of water per second from one well completed into the Big Sioux-Aurora Aquifer (41 feet deep) located in the center of the SE 1/4 Section 31 to irrigate 132 acres located in the SE 1/4 Section 31; all in T110N-R48W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7026-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on this application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider this application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by July 7, 2008.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

June 13, 2008

Brookings Register
PO Box 177
Brookings SD 57006

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 7026-3 to Appropriate Water to be published twice. Please publish the first notice on June 20, 2008 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Corey Friedrich, 47774 213th St, Aurora SD 57002 (Ph # 605-693-4271).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

No. 7026-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of June 20, 2008 enclosing Notice to Appropriate Water by Application No. 7026-3 which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

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

June 13, 2008

Corey Friedrich
4774 213th St
Aurora SD 57002

Dear Mr. Friedrich:

Water Permit Application No. 7026-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Brookings Register printed at Brookings SD (Ph # 605-692-6271). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,


Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

Instruction to Newspaper - Publish first Notice on June 20, 2008 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 7026-3 to Appropriate Water

Notice is given that Corey Friedrich, 47774 213th St, Aurora SD 57002 has filed an application for a water permit to appropriate 1.45 cubic feet of water per second from one well completed into the Big Sioux:Aurora Aquifer (41 feet deep) located in the center of the SE ¼ Section 31 to irrigate 132 acres located in the SE ¼ Section 31; all in T110N-R48W.

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**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

JUL 28 2003

Corey Friedrich
4774 213th St
Aurora SD 57002

Dear Mr. Friedrich:

Enclosed is Water Permit No. 7026-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

RECEIVED

AUG - 1 2008

WATER RIGHTS
PROGRAMNOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate July 30-08TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM:

Corey Friedrich
(name)47774 213th St.
(address)Aurora, S. Dak. 57002
(city, state, zip)605-690-4271
(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.

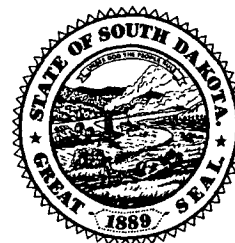
Water Permit No. 7026-3 states that the water use system is to be constructed by June 15-08 , and water is to be put to beneficial use by July 1-08 .
(date) (date)

The water use system was completed on May 25-08 .
(date)

Applying the water to beneficial use was completed on June 29-08 .
(date)

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

Corey Friedrich
(signature)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

August 1, 2008

7026-3

Corey Friedrich
47774 213th St
Aurora SD 57002

Dear Mr. Friedrich:

I am writing to acknowledge receipt of the "Notice of Completion of Works" form that you sent in to let us know that you are completed with your irrigation system.

The system is now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between the completion of your project and the staff inspection has no bearing on your water permit.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath". The signature is written in a cursive, flowing style.

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

7026-3



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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www.state.sd.us/denr

October 30, 2008

2809-3
7026-3

Corey Friedrich
PO Box 135
Aurora SD 57002-0135

Dear Mr. Friedrich:

Enclosed is a "Notice" dated October 24, 2008 concerning the 2008 irrigation questionnaires. The notice was originally mailed to 47774 213th St, Aurora SD. The post office notified us that your address has changed and I will update our records accordingly.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads "Genny McMath".

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

enclosures



7026-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
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523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

January 22, 2010

NOTICE

TO: COREY FRIEDRICH, RENTER, PO BOX 135, AURORA, SD 57002 0135
FROM: Ron Duvall, Natural Resources Engineer
for Garland Erbele, Chief Engineer
Water Rights Program
SUBJECT: Reporting Requirement for 2009 Irrigation Questionnaires

Our records indicate that the 2009 Irrigation Questionnaires have not been submitted. The request for the Questionnaires was dated October 16, 2009. The Water Management Board has directed that owners of water permits who have not submitted the 2009 Irrigation Questionnaires be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine if Permit No(s) 2809-3 should be amended to require the Questionnaire to be submitted each year and to determine action to be taken for violation of Water Permit No(s) 7026-3 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at **10:00 am, March 10, 2010** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD, and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 7026-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Amend Permit No(s) 2809-3 to require the Irrigation Water Use Questionnaire to be submitted each year;
3. Postpone any action or take no action.

The hearing is an adversary proceeding. The permit owner has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

If the questionnaire(s) is (are) received in this office on/or before **March 5, 2010**, you will no longer be in violation of your permit and your name will be deleted from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Genny McMath at (605) 773-3352 or email at genny.mcmath@state.sd.us. If you prefer, you can complete the questionnaire online at the following link: <https://denr.sd.gov/iq/aspx>

cc: JAMES WEBER, 21348 476TH AVE, AURORA SD 57002

Note: Please contact the Water Rights Program, Joe Foss Building, 523 E Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

January 29, 2010

2809-3
7026-3

Corey Friedrich
PO Box 135
Aurora SD 57002-0135

Dear Mr. Friedrich:

I am writing to acknowledge receipt of your 2009 irrigation questionnaires. You may disregard the January 22, 2010, "Notice" concerning reporting requirements for Water Right No. 2809-3 and Water Permit No. 7026-3.

The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath".

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

c: James Weber

Permit No. 7026-3
Sioux River - Water District

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, September 14, 2011, made a thorough examination of the water use system constructed by Corey Friedrich, 4774 213th Street, Aurora SD 57002 holder of Permit No. 7026-3, bearing the priority of April 30, 2008 authorizing the diversion of 1.45 cu. ft. per second from the Big Sioux:Aurora Aquifer for irrigation purposes, in Brookings County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:

One well is in place each with a turbine pump that produce 1.45 cfs (650 gpm)

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

Well head is located approximately 20 feet from the pivot center. Water from the well is conveyed to the pivot point over land.

C. Works used to apply water to beneficial use:

An 7 tower Valley 8000 center pivot

The system is in the following condition excellent. The points of diversion (well) are located specifically Lat 44.28572 Lon -96.6330 (approx. 1,340' north and 1,320' west of SE corner Section 31, T110N, R48W). The works are capable of diverting a total of 1.45 cfs from a well which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

All in Section 31, T110N, R48W

NW ¼ SE ¼	10 acres
NE ¼ SE ¼	22 acres
SW ¼ SE ¼	36 acres
SE ¼ SE ¼	36 acres

This breakdown of acres is a best estimate based on 1) information provided by the applicant and 2) viewing the 2010 FSA aerial using ArcMap,

comprising a total of 104 acres of land and the license should be issued for 1.45 cfs.

Applicable permit qualifications have been complied with: **Yes**

Exceptions to compliance are: none Date Report Completed: November 22, 2011



Eric Gronlund

Natural Resources Engineer

DENR, Water Rights Program

FIELD INVESTIGATION REPORT FOR PERMIT NO. 7026-3

DATE OF INVESTIGATION:	September 14, 2011
NAME & ADDRESS OF PERMIT HOLDER	Corey Friedrich 4774 213th Street Aurora SD 57002
NAME & ADDRESS OF INVESTIGATION CONTACT/ RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE	Corey Friedrich (cell 690-4271)
DIVERSION POINT LEGAL LOCATIONS	Approximate center of SE ¼ Section 31, T110N, R48W

Mr. Friedrich's father accompanied me on the licensing investigation

WELL INFORMATION:

- 1) Well Drilling Firm: **Lacey Well Drilling**
- 2) No. of Wells 1
- 3) Depth(s) 41
- 4) Well log is available Yes
- 5) Comment:

Casing:

- 1) Diameter 12 inches
- 2) Length 30 feet
- 3) Type steel

Screen:

- 1) Type stainless steel
- 2) Length 10 feet
- 3) Static water level 9' 6"

Pump:

- 1) Make Turbine
- 2) Model 5K6237XN501B
- 3) Size
- 4) Capacity 650 GPM

Motor:

- 1) Make
- 2) Model No.
- 3) Horsepower rating 40 hp

SYSTEM TYPE:

Center pivot:

- 1) Make Valley 8,000
- 2) Overall length approx. 1270 feet
- 3) Number of towers 7 tower
- 4) Distance between towers _____ feet
- 5) End gun Yes (approx. 100)
- 6) High or low pressure 30 psi
- 7) Capacity 650 GPM

CHEMIGATION EQUIPMENT: No

PERMIT QUALIFICATIONS:

- 1) Special qualifications to permit being abided by Yes
- 2) All structures, wells and lands on map Yes
- 3) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Yes

COMMENTS:

- Notice of Completion of Works filed August 1, 2008
- Irrigation questionnaire reflect that irrigation began in July 2008.
- Called Mr. Friedrich regarding the number of acres being irrigated. He reports the entire 132 acres authorized on the permit as being irrigated. Due to building site and drainage to the north the pivot does not make full rotation. Using the 2010 FSA aerial and the ArcMap's area calculating function, I calculate the acreage in which water is applied being 104 acres. Mr. Friedrich agreed this was correct.



Well - Lat 44.28572 Lon -96.6330 --- approx. 1,340' north and 1,320' west of SE corner Section 31, T110N, R48W



Eric Gronlund
Eric Gronlund
Water Rights Program, DENR
License Inspection - September 14, 2011



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
denr.sd.gov

APR 25 2012

7026-3

Corey Friedrich
PO Box 175
Aurora SD 57002

Dear Mr. Friedrich:

Enclosed is Water License No. 7026-3. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the investigation.

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

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 7026-3

(1) Corey Friedrich, PO Box 135, Aurora SD 57002 made Application No. 7026-3, April 30, 2008 for a water permit to divert 1.45 cubic feet of water per second from groundwater (one well), Union County, South Dakota for irrigation purposes. Permit No. 7026-3, with a priority date of April 30, 2008 was approved July 7, 2008 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 7, 2013 and for the application to beneficial use of water on or before July 7, 2017.

The permit holder submitted a *Notice of Completion of Works and Application of Water to Beneficial Use* on August 1, 2008. The *Notice* stated the diversion system was completed on June 15, 2008 and the water placed to beneficial use on July 1, 2008.

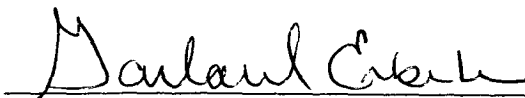
(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 7026-3 is issued a license, bearing a priority date of April 30, 2008 to appropriate 1.45 cubic feet of water per second from groundwater (one well) to irrigate 104 acres.

The diversion point is located: 1,340 feet north and 1,320 feet west of the southeast corner of Section 31-T110N-R48W (approximate center of SE ¼). The acres authorized for irrigation are as follows:

Section 31-T110N-R48W	NW ¼ SE ¼	10 acres
	NE ¼ SE ¼	22 acres
	SW ¼ SE ¼	36 acres
	SE ¼ SE ¼	36 acres
	Total	104 acres

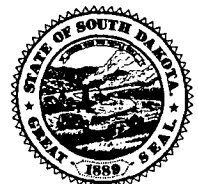
(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 7026-3 including the following now applicable qualifications:

- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.


Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

APR 25 2012

date





**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

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

March 10, 2025

7026-3

Corey Friedrich
PO Box 135
Aurora SD 57002

Dear Mr. Friedrich:

I write to you today in response to the 2024 Irrigation Questionnaire information submitted for Water Right No. 7026-3.

Water Right No. 7026-3 (copy enclosed) authorized diversion of 1.45 cubic feet of water per second (650 gpm) from one well completed into the Big Sioux: Aurora Aquifer for irrigation of 104 acres located within the SE ¼ Section 31-T110N-R48W.

On this year's questionnaire you reported the irrigation of 132 acres under 7026-3. If additional acres have been developed for irrigation, additional permitting would be required.

Please contact me to either revise your 2024 Irrigation Questionnaire or discuss additional permitting.

Sincerely,

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

enclosure