

WATER PERMIT NO. 6489-3

Name of Applicant: Mark Rust

Address: 46105 192nd St, Estelline SD 57234 Phone: 605 873-2620

Amount of Water Claimed: 1.78 cfs Total Acres: 160 acres

Source of Water Supply: groundwater

Water to be used for: irrigation County: Hamlin

Type of Waste Disposal System:

Location: 4 miles northwest of Estelline

PRIORITY Date Received: 3-24-2004

Application/License Fee: \$300

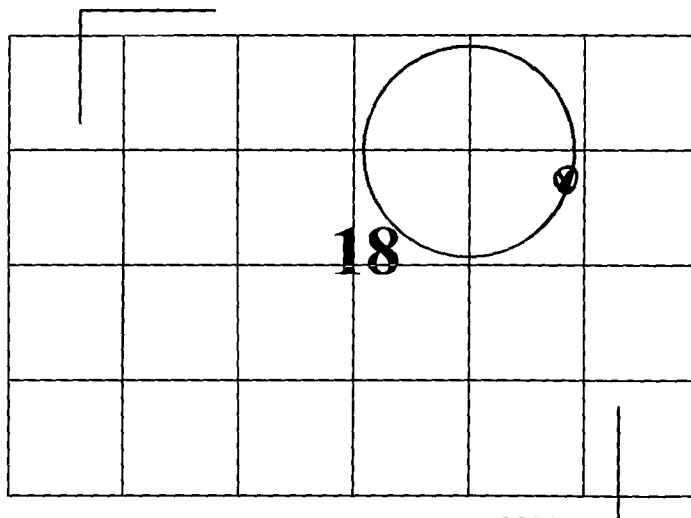
Corrected Application Received: 3-29-2004

Period of Annual Use: May 1 – October 31

Remarks:

Diversion Point: SE ¼ NE ¼ Sec 18-T113N-R51W

Land to be Irrigated: NE ¼ Sec 18- T113N-R51W



Depth of Well: 48 feet deep

Well Driller: : Lacey Well Drilling, Inc.

Remarks:

Type of Map: aerial

Prepared by: Gary Kyleson, NRCS

Reviewed and the Number Assigned on: 3-29-04

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. <u>6489-3</u>	(office use only) Hydrologic Unit <u>10170202</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Estelline Journal</u>	

RECEIVED
MAR 24 2004
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.)

- Name of Applicant Mark Rust Phone 605 873-2620
(check one) ☐ Owner ☒ Tenant/lessee
Mailing Address 46105 192nd st Estelline S State S.D. 57234
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.78 *CFS or 800 **GPM 160A ***AF Total Acreage 160A
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply well
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County SE 1/4 of the NE 1/4
Sec 18-T113N-R51W
- County or counties where water will be used Hamlin
- Annual period during which water is to be used May 1 - Oct 31
- 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
SE 1/4 of the NE 1/4 of Section	18	113 - 51	35 40
SW 1/4 of the NE 1/4 of Section	18	113 - 51	35 40
NE 1/4 of the NE 1/4 of Section	18	113 - 51	35 40
SE 1/4 of the NE 1/4 of Section	18	113 - 51	35 40

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

140 160

STATE OF SOUTH DAKOTA)
County of Brookings) SS

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, Mark Rust, 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 Mark Rust

Subscribed and sworn to before me this 22nd day of March 2004

Karen Langland
Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 6489-3**

Date of first receipt of application March 24, 2004.

Date of return to applicant for corrections, amendments or changes March 24, 2004.

Date of receipt of corrected application March 29, 2004.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6489-3 to Mark Rust, 46105 192nd St, Estelline SD 57234 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. 6489-3 appropriates 1.78 cubic feet of water per second from one well (Big Sioux: Brookings Aquifer) 48 feet deep located in the SE ¼ NE ¼ Section 18 to irrigate 160 acres located in the NE ¼ Section 18; all in T113N-R51W.
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 – October 31.
3. The date from which applicant may claim right is March 24, 2004.
4. The date of approval of Permit No. 6489-3 is May 17, 2004.
5. One-fifth of the construction is to be completed on or before November 17, 2006.
6. All construction is to be completed on or before May 17, 2009.
7. Water is to be put to beneficial use on or before May 17, 2013.
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. The well authorized by Permit No. 6489-3 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) from the producing formation to the surface 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: Garland Erbele

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

MAY 24 2004

date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 20" Depth 48 ft
- b) Casing Type steel Diameter 12" Thickness _____
- c) Screen Type stainless steel Diameter 12" Thickness _____
- d) Gravel Pack per rock Length of Gravel Pack 10-12 ft
- e) Depth to Top of Water Bearing Material 16 ft
- f) Depth to Water (ground surface to water level) 16 ft
- g) Distance to nearest existing domestic well:
On applicants property 1/4 mile On property owned by others 2 miles

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

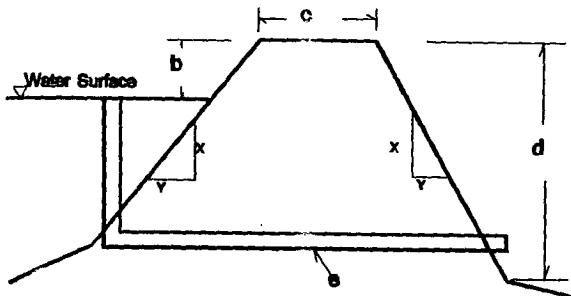
3. Dugout Information

- 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

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date MARCH 24, 20 04

RECEIVED OF MARK RUST, 46105 192ND ST. ESTELLINE SD 57234

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

Fee for Application for Permit No. <u>6489-3</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>6489-3</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.

001252

By

Darland Erbel
Chief Engineer
gm

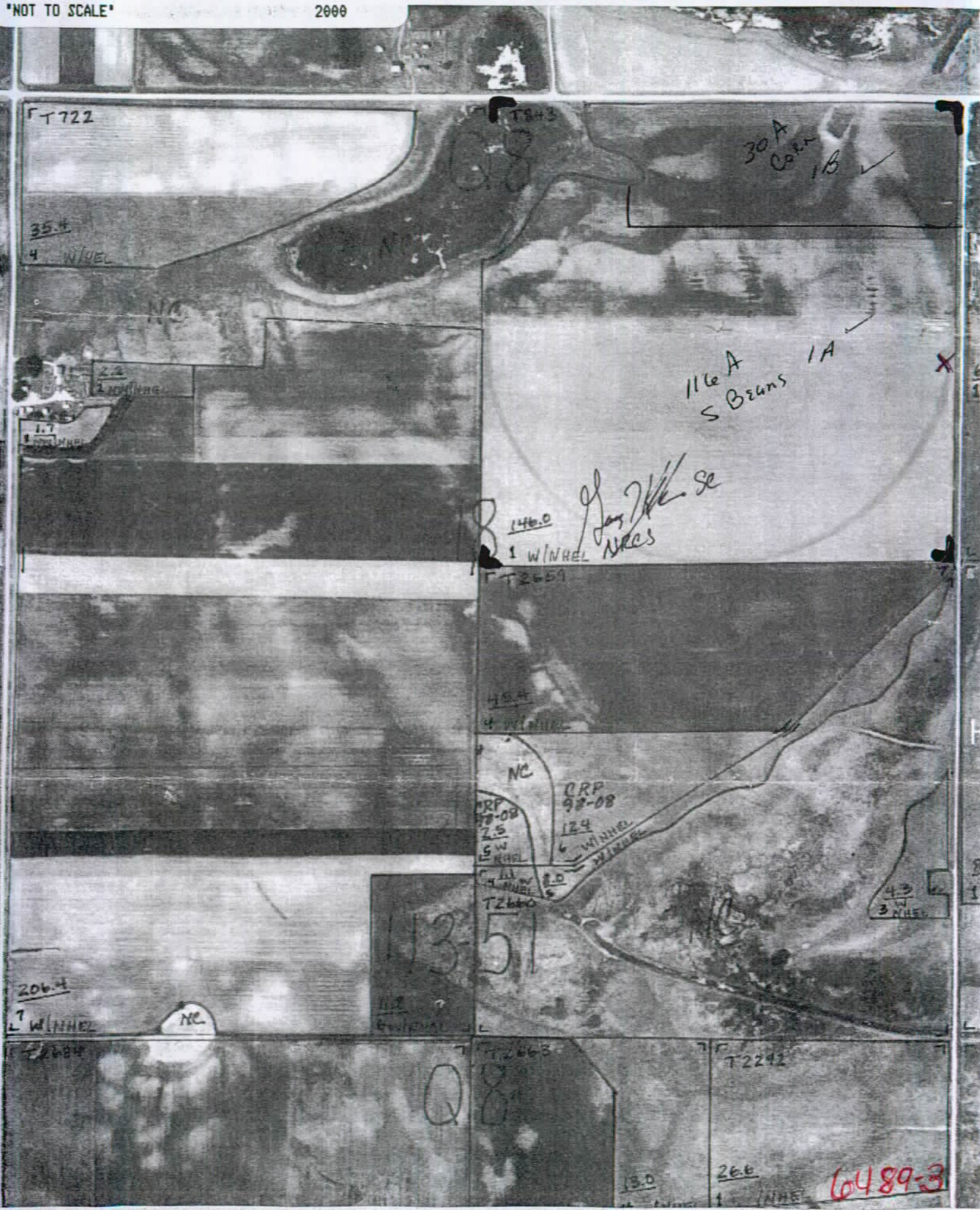
Farm # 2763 OP: LARRY RUST
Tract # 843 Cropland: 146.0
Q8 NE 18-113-51

NOT TO SCALE OFFICIAL WETLAND MAP

Mark Larry Rust

"NOT TO SCALE"

2000



In Water Since 1946

Wells — Pumps
Dewatering Work
Test Drilling

LACEY WELL DRILLING, INC.
47582 - 240th St.
Dell Rapids, South Dakota 57022
Telephone (605) 428-5979

Down-Hole Camera
Water Specialists
Irrigation Supplies

3-19-04

T.H. LARRY RUGT

0-16 Blacktop soil to yellow clay
16-48 Medium gray sand
SW/16'

Jim Lacey, Driller
SD License #111

Boothole size 20"
Finished casing 12" steel/
screen Johnson stainless steel



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

March 24, 2004

Mark Rust
46105 192nd St
Estelline SD 57234

Dear Mr. Rust:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation. In order to complete the application the following is required.

Enclosed is the aerial photo map submitted with the application. On the map, please mark the location of the proposed well with an "X". The application indicates the well will be located in the SE ¼ NE ¼ Section 18-T113N-R51W.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
605 773-3352

enclosure

REPORT ON WATER PERMIT APPLICATION NO. 6489-3

For Mark Rust

April 13, 2004

Application No. 6489-3 proposes to appropriate 1.78 cfs (800 gpm) from one well approximately 48 feet deep located in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of section 18 to irrigate 160 acres located in the NE $\frac{1}{4}$ of section 18; all in T113N R51W in Hamlin County.

AQUIFER – BIG SIOUX BROOKINGS (BS-B)

The Big Sioux Brookings is a surficial outwash (sand and gravel) that is under water table conditions in this area. The aquifer underlies 113,920 acres and contains an estimated 480,000 acre-feet of water in storage in Hamlin County (Kume, 1985). The aquifer extends into Brookings County to the south and blends into the Big Sioux North aquifer to the north in Hamlin and Codington Counties. The aquifer is also hydraulically connected to the Big Sioux River and some area lakes. Ground water movement is from northwest to southeast and locally toward the Big Sioux River in the area of this application (Kume, 1985). Recharge to the aquifer has been estimated at about 6.57 inches per year (Koch, 1980). This equates to an annual recharge volume of about 62,000 acre-feet. The water use from the Big Sioux Brookings aquifer in Hamlin County has never exceeded 6,000 acre-feet annually. This volume would include all municipal, rural water, irrigation and domestic uses in the county.

Test well information provided with the application, indicates black topsoil and yellow clay from 0 to 16 feet followed by medium gray sand from 16 to 48 feet below land surface. The test well had a static water level of 16 feet below land surface. No pumping test data is available for this site.

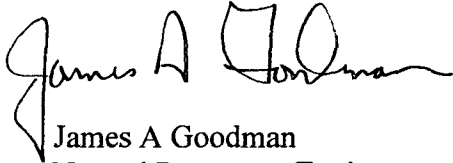
The Water Rights Program monitors three observation wells completed into the Big Sioux aquifer and located within a three mile radius of this application. Hydrographs for two of these wells HN-57B (located about two miles northwest) and HN-77G (located about two miles southwest) are included with this report. The water level record indicates that the aquifer does recharge and that pumping has very little effect upon the water table. In general the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2004). The water level record also indicates the 1990's were exceptionally wet conditions as shown by the high water levels during that time period. Also the present drought conditions of the last few years have caused the water levels to decline. This makes sense and would be what you would expect.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There is an existing water right No. 4853-3 (1.34 cfs, for irrigation of 122.5 acres) located about one-half mile east of this application. Interference is not expected to be a concern. Drawdown created by pumping should not be significant nor extend very far from the individual production wells. This existing right is held by the applicant.

CONCLUSIONS

1. Water is available from the Big Sioux Brookings aquifer.
2. The aquifer is under water table conditions in this area. Drawdown created by pumping is not expected to be significant. There is sufficient spacing between wells to minimize any potential impacts. Interference is not a concern.
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.

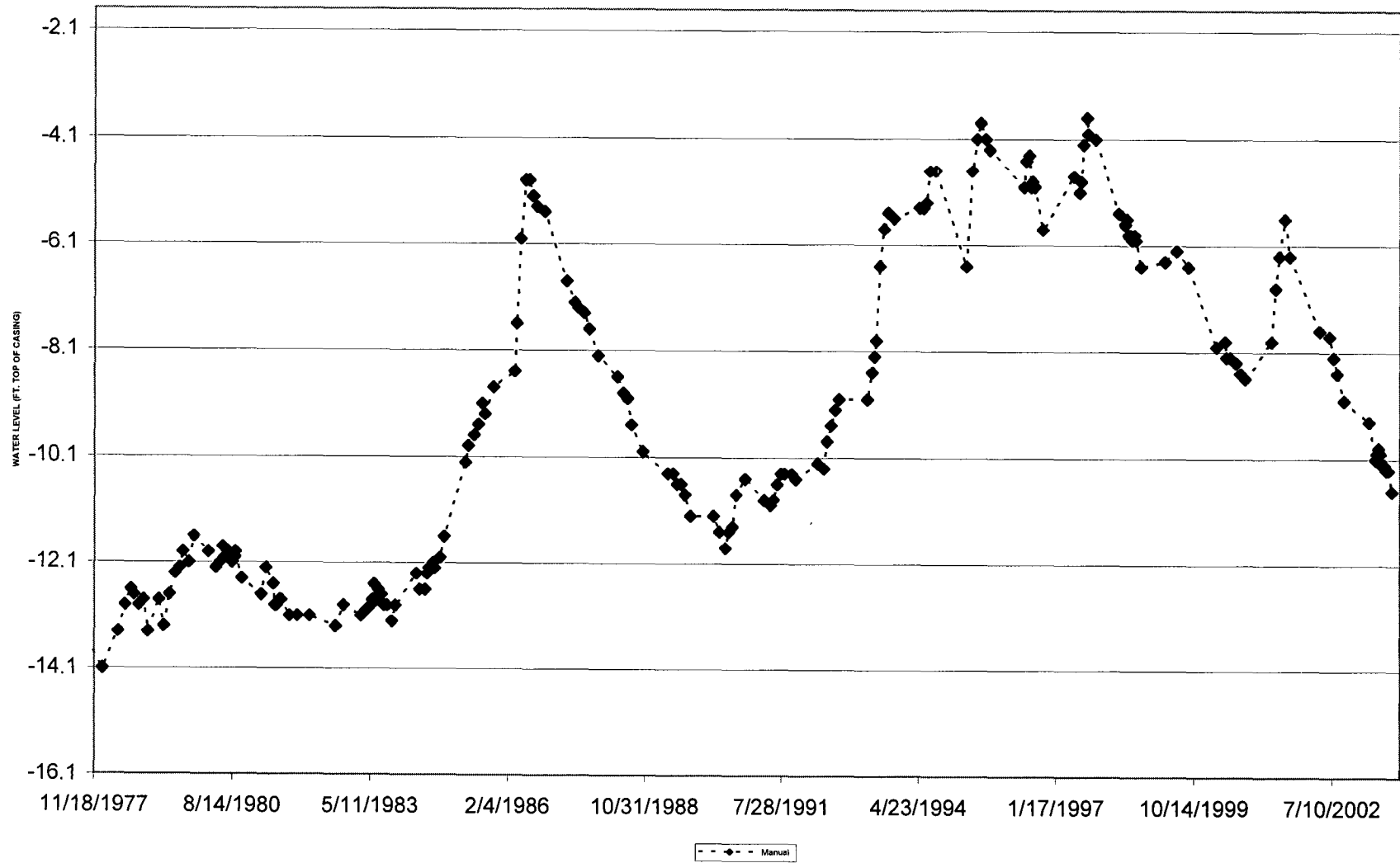


James A Goodman
Natural Resources Engineer

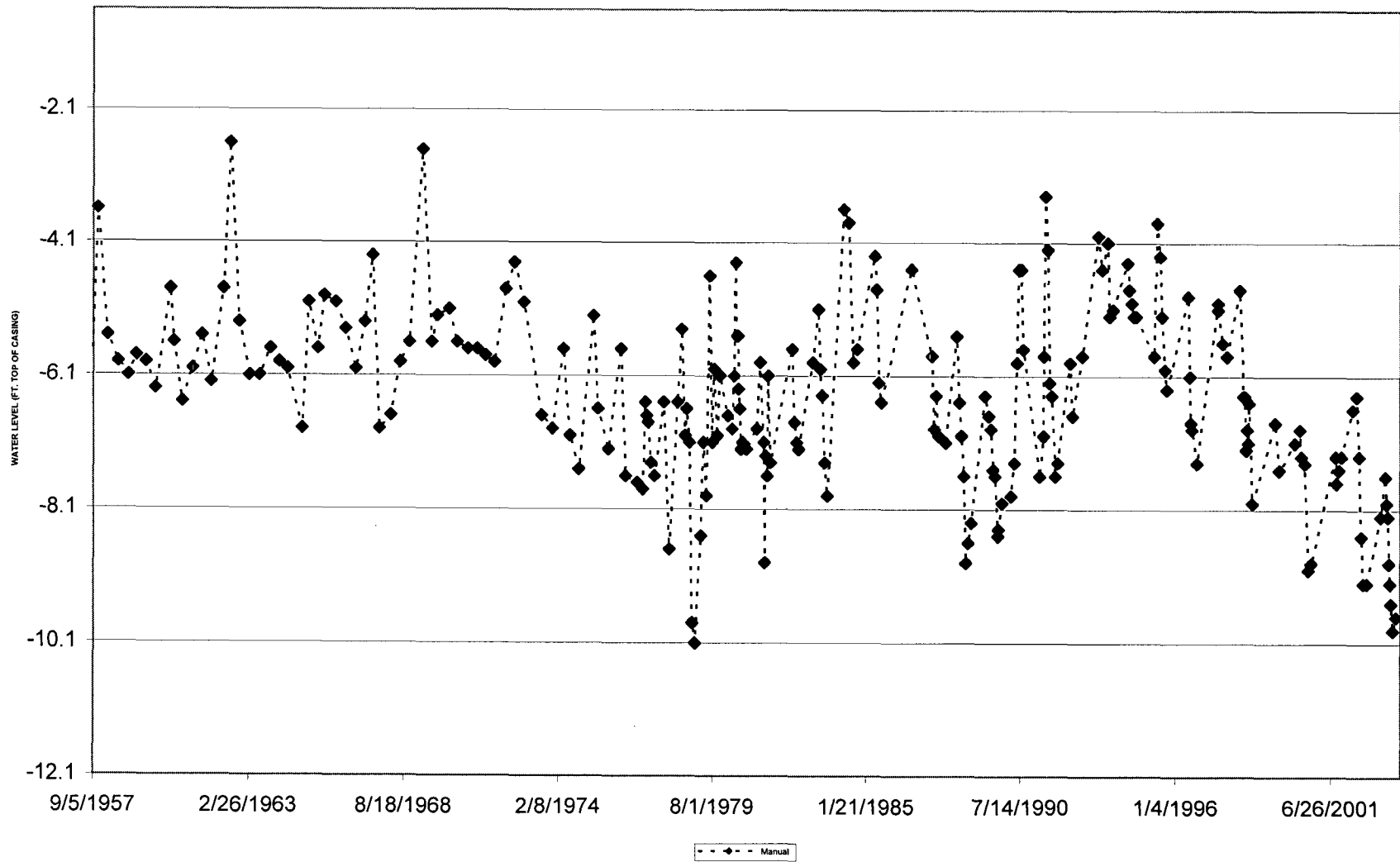
BIBLIOGRAPHY

- Koch, N.C., 1980, Appraisal of the Water Resources of the Big Sioux Aquifer, Brookings, Deuel, and Hamlin Counties, South Dakota, WRI 80-100, USGS, Huron, SD, 57350.
- Kume, J., 1985, Water Resources of Deuel and Hamlin Counties, South Dakota, WRI 84-4069, USGS, Huron, SD, 57350.
- Water Rights, 2004, Unpublished Observation Well Data for Hamlin County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

**WATER RIGHTS' OBSERVATION WELL
HN-77G**



**WATER RIGHTS' OBSERVATION WELL
HN-57B**





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6489-3, Mark Rust**

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. 6489-3, Mark Rust, 46105 192nd Street, Estelline SD 57234.

The Chief Engineer is recommending APPROVAL of Application No. 6489-3 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. The well authorized by Permit No. 6489-3 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) from the producing formation to the surface 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.

Garland Erbele, Chief Engineer
April 19, 2004

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Hamlin) SS

I, Lelanne Archer

certify that the attached printed Notice was taken

from the Estelline Journal

printed and published in Estelline

County of Hamlin and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

April 28, 2004

May 5, 2004

Cost of Printing 39.13

Lelanne Archer
(Signature)

Owner
(Title)

5/6/04
(Date Signed)

**NOTICE OF APPLICATION
NO. 6489-3 TO APPROPRIATE
WATER**

Notice is given that Mark Rust, 46105 192nd St., Estelline, SD 57234, has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well (Big Sioux: Brookings Aquifer) 48 feet deep located in the SE 1/4 NE 1/4 Section 18 to irrigate 160 acres located in the NE 1/4 Section 18; all in T113N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6489-3 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 the 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 the application. Notice of the hearing will be given to the applicant and any person filing a peti-

tion.

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 May 17, 2004.

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 council 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
(publish april 28 and may 5, 2004)

RECEIVED

MAY 10 2004

WATER RIGHTS
PROGRAM



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
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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.**

April 19, 2004

Mark Rust
46105 192nd St
Estelline SD 57234

Dear Mr. Rust:

Water Permit Application No. 6489-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Estelline Journal printed at Estelline, SD (Ph # 605-873-2475). 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 a 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 of Hearing 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 with the last publication to occur twenty days before the board meeting. 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.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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www.state.sd.us/denr

April 19, 2004

Estelline Journal
214 Main St
Estelline SD 57234-0159

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 6489-3 to Appropriate Water to be published twice. Please publish the first notice on April 28, 2004 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 Mark Rust, 46105 192nd St, Estelline SD (Ph # 605-873-2620).

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-----

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

No. 6489-3

Date _____

We are in receipt of your letter of April 19, 2004 enclosing Notice of Hearing to Appropriate Water by Application No. 6489-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper

Instruction to Newspaper - Publish first Notice on April 28, 2004 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6489-3 to Appropriate Water

Notice is given that Mark Rust, 46105 192nd St, Estelline SD 57234 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well (Big Sioux: Brookings Aquifer) 48 feet deep located in the SE ¼ NE ¼ Section 18 to irrigate 160 acres located in the NE ¼ Section 18; all in T113N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6489-3 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 the 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 the 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 May 17, 2004.

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.



MAY 24 2004

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

Mark Rust
46105 192nd St
Estelline SD 57234

Dear Mr. Rust:

Enclosed is Water Permit No. 6489-3 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,

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

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

enclosures

NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE

Date 10/25/4

TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM:

Mark Rust
(name)
46106 192nd St
(address)
Estelline SD 57234 605 873 2620
(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. 6489-3 states that the water use system is to be constructed by May 17 09, and water is to be put to beneficial use by May 17/13.
(date) (date)

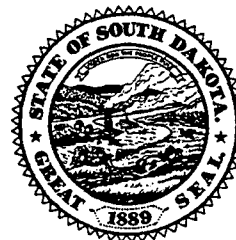
The water use system was completed on 7/21/4.
(date)

Applying the water to beneficial use was completed on 8/1/4.
(date)

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

Mark Rust
(signature)

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OCT 28 2004
WATER RIGHTS
PROGRAM

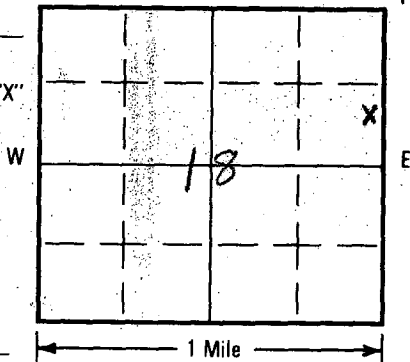


SOUTH DAKOTA WATER WELL COMPLETION REPORT

6489-3
07-92

Location SE 1/4 NE 1/4 Sec 18 Twp 113-N Rg 51-W
County Hamlin North

Please mark well location with an "X"



Well Completion Date

6-29-04

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 800 ft. from CATTLE YARD (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

20" FALSE CASING

CASING DATA:

- ☒ Steel ☐ Plastic ☐ Other

If other describe 12" sch 40

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>50</u> LB/FT	<u>12</u> IN	<u>41</u> FT	<u>36</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
		lb./gal	ft	ft
		lb./gal	ft	ft

Describe grouting procedure TREMIE IN CEMENT

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter 12 IN Length 11 FEET

Material S.S.

Slot Size 050 Set From 36 Feet to 47 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? PROB 1 ft. 11, washed

CASING

Well Owner: Larry Rust

Business Name:

Address: 46105 192nd St.

Estelline, S.Dak. 57234

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Black Topsoil</u>	<u>0</u>	<u>3</u>
<u>Yellow Clay</u>	<u>3</u>	<u>8</u>
<u>Dirty Gravel</u>	<u>8</u>	<u>18</u>
<u>Yellow Gravel</u>	<u>18</u>	<u>30</u>
<u>FINE SAND</u>	<u>30</u>	<u>39</u>
<u>COARSE GREY GRAVEL</u>	<u>39</u>	<u>47</u>

STATIC WATER LEVEL

14'8"

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: pumped w. T/I

☐ Bailed

ELECTRIC SUBMERSIBLE

☐ Other

Pumping Level Below Land Surface

33' ft. After 2 Hrs. pumped 600 GPM

ft. After Hrs. pumped GPM

If pump installed, pump rate 500 GPM

REMARKS

RECEIVED

DEC 23 2004

WATER RIGHTS PROGRAM

This well was drilled under license # 111

And this report is true and accurate.

Drilling firm Lacey Well Drilling Inc.

Signature of License Representative:

Jean Redden

Signature of Well Owner or Equitable Property Holder:

Larry Rust

Date:

12-18-04

Laboratory sent to for water quality analysis

NO

NO, Why Not?

CHLORINATED

PROB 1 ft. 11, washed

CASING

12-23-04

Permit No. 6489-3
Big Sioux - 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, July 11, 2006, made a thorough examination of the water use system constructed by Mark Rust of 46105¹/₂ 192nd St, Estelline, SD 57234 holder of Permit No. 6489-3, bearing the priority of March 24, 2004 authorizing the diversion of 1.78 cu. ft. per second of the waters of Big Sioux:Brookings Aquifer for irrigation purposes, in Hamlin County.

Inspection contact & relationship **Mark or Larry Rust 873-2620**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Lacey Well Drilling
- 2) No. of Wells 1
- 3) Depth(s) 47 feet
- 4) Well log is available Y
- 5) Comment:

Casing:

- 1) Diameter 12 inches
- 2) Length 36 feet
- 3) Type Steel Sch 40

Screen:

- 1) Type Stainless steel
- 2) Length 11 feet
- 3) Static water level 14 feet

Pump:

- 1) Make Western Land Roller (Water Lube)
- 2) Model 2 Stage 10C with 1 H and 1 M Impeller
- 3) Capacity 500 GPM

Motor:

- 1) Make GE
- 2) Model No. 5KE284DTT6001
- 3) Horsepower rating 25 hp

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Valley
- 2) Number of towers 7
- 3) End gun Y
- 4) High or low pressure Low

Chemigation Equipment:

- 1) Does chemigate N

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y
- 3) Exceptions to compliance are: None

The system is in good condition with the point(s) of diversion located as follows: Approximately 1625 feet south and 45 feet west of the NE corner of Section 18-T113N-R51W (N 44.59714, W -96.98710). The works are capable of diverting and conveying to the place of use 1.11 cu. ft. per second of water which is to be used for Irrigation. Water has been put to beneficial use to the maximum extent as follows:

NE ¼ Section-18-T113N-R51W-136 Acres

comprising a total of 136 acres of land and the license should be issued for 1.11 cfs.

All structures, wells and lands on map Y

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

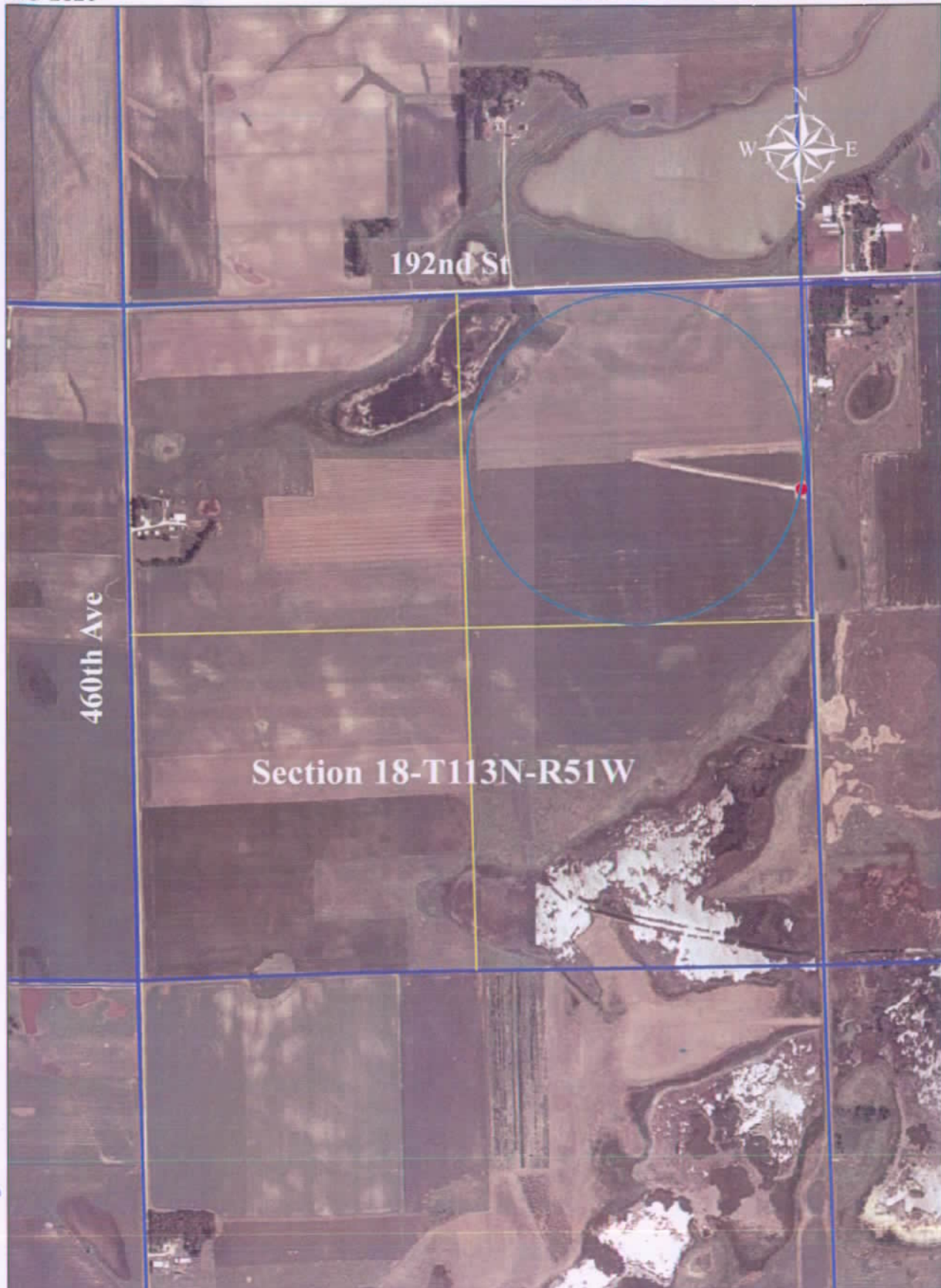


Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program

Date report completed: January 26, 2007

Mark Rust
46105 192nd St
Estelline, SD 57234
873-2620

Water Permit No. 6489-3



Mike DeFea

Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
January 26, 2007



0 650 1,300 2,600 Feet

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 6489-3

(1) Mark Rust, 46106 192nd St, Estelline SD 57234 made Application No. 6489-3, March 24, 2004 for a water permit to divert 1.78 cubic feet of water per second from ground water (one well – Big Sioux: Brookings Aquifer, Hamlin County, South Dakota for irrigation purposes. Permit No. 6489-3, with a priority date of March 24, 2004 was approved May 17, 2004 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before May 17, 2009 and for the application to beneficial use of said water on or before May 17, 2013.

The Permit holder submitted a "*Notice of Completion of Works and Application of Water to Beneficial Use*" on October 28, 2004. The "*Notice*" stated the water use system was completed on July 21, 2004 and the water placed to beneficial use on August 1, 2004.

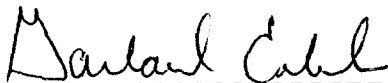
(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.11 cubic feet of water per second for beneficial use. The location of the diversion point is approximately 1,625 feet south and 45 feet west of the NE corner of Section 18, T113N, R51W (SE ¼ NE ¼)

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land: a 136 acre circle in the NE ¼ Section 18, T113N, R51W.

(4) Pursuant to South Dakota Water Law 46-5-30.1 Mark Rust, 46106 192nd St, Estelline SD 57234 the holder and owner of Water Right No. 6489-3 is issued a license to appropriate water, the right to use 1.11 cubic feet of water per second from ground water (one well – Big Sioux: Brookings Aquifer) with a priority date of March 24, 2004 from the location specified in (2) of this license. The water is to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 6489-3 and subject to the following qualification:

- 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.
- The well authorized by Permit No. 6489-3 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) from the producing formation to the surface pursuant to Section 74:02:04:28 (*construction meets standards*).
- 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

MAY 01 2007

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

MAY 01 2007

6489-3

Mark Rust
46106 192nd St
Estelline SD 57234

Dear Mr. Rust:

Enclosed is Water License No. 6489-3. This is the final water right document completing your process of obtaining a Water Right. Also enclosed is a copy of the map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 6489-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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