

WATER PERMIT NO. 6152-3

Name of Applicant: Big Sioux Community Water System, Inc.

Address: Rt 1 Box 158, Egan SD 57024

Phone: 605 997-2098

Amount of Water Claimed: 0.5 cfs (360 acre-feet)

Total Acres: NA

Source of Water Supply: groundwater (one well)

Water to be used for: rural water system use

County: Lake

Type of Waste Disposal System: NA

Location: 7 miles southeast of Madison

PRIORITY

Date Received: 9-30-1999

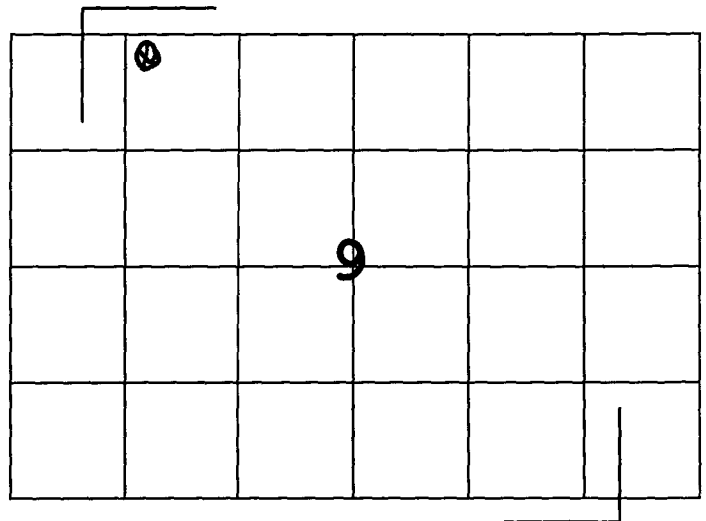
Fee: \$250

Corrected Application Received:

Period of Annual Use: January 1 – December 31

Remarks: additional water to supply Lake Area Corn Processors Cooperative near Wentworth

Diversion Point: NW ¼ NW ¼ Sec 9-T105N-
R51W



Land to be Irrigated: NA

Depth of Well: 50 feet deep

Well Driller: Lacey Well Drilling

Remarks:

Type of Map: topographic

Prepared by: Mark Benton, NRCS

Reviewed and the Number Assigned on: 10-7-1999

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

**SOUTH DAKOTA
WATER PERMIT NO. 6152-3**

Date of first receipt of application September 30, 1999.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6152-3 to Big Sioux Community Water System, Inc., Rt 1, Box 158, Egan SD 57024 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. 6152-3 appropriates 0.5 cubic feet of water per second (360 acre-feet annually) from one well (Big Sioux:Northern Skunk Creek Aquifer) 50 feet deep located in the NW ¼ NW ¼ Section 9-T105N-R51W. The rural water system will provide water for the Lake Area Corn Processors Cooperative.
2. The water appropriated shall be used for the purpose of supplying the rural water system and may not exceed the amount of water needed for beneficial use.
3. The water is to be used during the following described annual period: January 1 – December 31.
4. The date of approval of Permit No. 6152-3 is November 15, 1999.
5. The date from which applicant may claim right is September 30, 1999.
6. One-fifth of the construction is to be completed on or before May 15, 2001.
7. All construction is to be completed on or before November 15, 2004.
8. Water is to be put to beneficial use on or before November 15, 2008.
9. 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. 6152-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. Permit No. 6152-3 authorizes a total annual diversion of 360 acre feet annually.
4. The Big Sioux Community Water System shall report to the Chief Engineer annually the amount of water withdrawn each year from the Big Sioux Northern Skunk Creek Aquifer.

WATER MANAGEMENT BOARD

By: John Hatch
John Hatch, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

DEC 10 1999
date



FORM 2: Application for uses other than irrigation
(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6152-3</u>	(office use only) Hydrologic Unit <u>10170203</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Madison Daily Leader, Madison, SD</u>	
	<u>Moody Co. Enterprise, Flandreau</u>	



Application For Permit To Appropriate Water Within The State Of South Dakota

Check use(s) of water:

☐ Municipal	☐ Suburban Housing	☐ Recreational	☐ Institutional
☒ Rural Water System	☐ Commercial	☐ Fish & Wildlife	☐ Geothermal Heat
☐ Domestic (over 18 gpm)	☒ Industrial	☐ Other	

Type of Application: ☒ New ☐ Vested Right (Use predates Mar 2, 1955) ☐ Future Use Reservation
(check one) ☐ Place to Beneficial Use Water Reserved by Future Use Permit No. _____
☐ Amendment/Correction to Permit No. _____

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

1. Name of Applicant Big Sioux Community Water System Inc. Phone (605) 997-2098
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address Rt. 1, Box 158, Egan State S. Dakota 57024
(Street, RR. or Box) (Zip Code)

2. Amount of water claimed .5 *CFS or 360 **GPM 19 ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply Well - Northern Skunk Creek (Big Sioux)

4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 1 well in N 1/2 of NW 1/4
Section 9, T105N, R51W.

County Lake

5. County or counties where water will be used Lake, Moody

6. Annual period during which water is to be used Year Round Jan 1 - Dec 31

7. Give a description of the project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

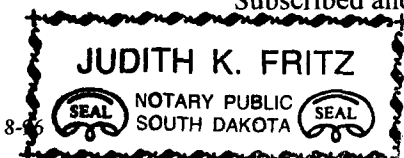
Additional water supply to provide water to the Lake Area Corn Processors Cooperative to be constructed near Wentworth, Lake County. This ethanol facility will require approximately 1 CFS. Water to this facility will be provided by our existing well at this location, a new well (this application) and our current distribution system from our Egan, Moody County, location.

STATE OF SOUTH DAKOTA)
County of Lake 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, Martin Jarrett for BSCWS, 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.

Signed [Signature]
Subscribed and sworn to before me this 29th day of September 19 99



[Signature]
Notary Public

Supplemental Information

(type or print in ink)

**1. Well Information - Proposed Construction**

- a) Drill Hole Diameter 18 inches Depth 50 feet
- b) Casing Type Steel Diameter 12 inches Thickness 0.375 "
- c) Screen Type Stainless Steel Diameter 12 inches Thickness NA
- d) Gravel Pack 6 inches Length of Gravel Pack 20-22 feet
- e) Depth to Top of Water Bearing Material 7 feet
- f) Depth to Water (ground surface to water level) 7 feet
- g) Distance to nearest existing domestic well:
- On applicants property 400-500 feet On property owned by others 1300 feet

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

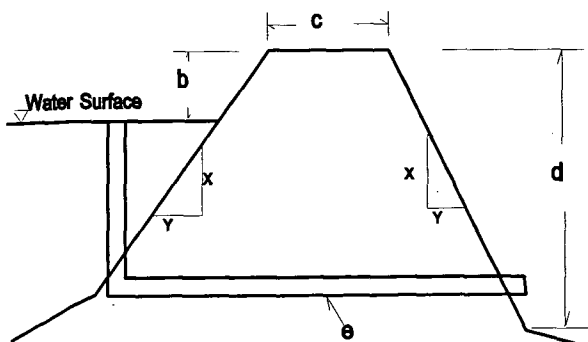
3. Dugout Information

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

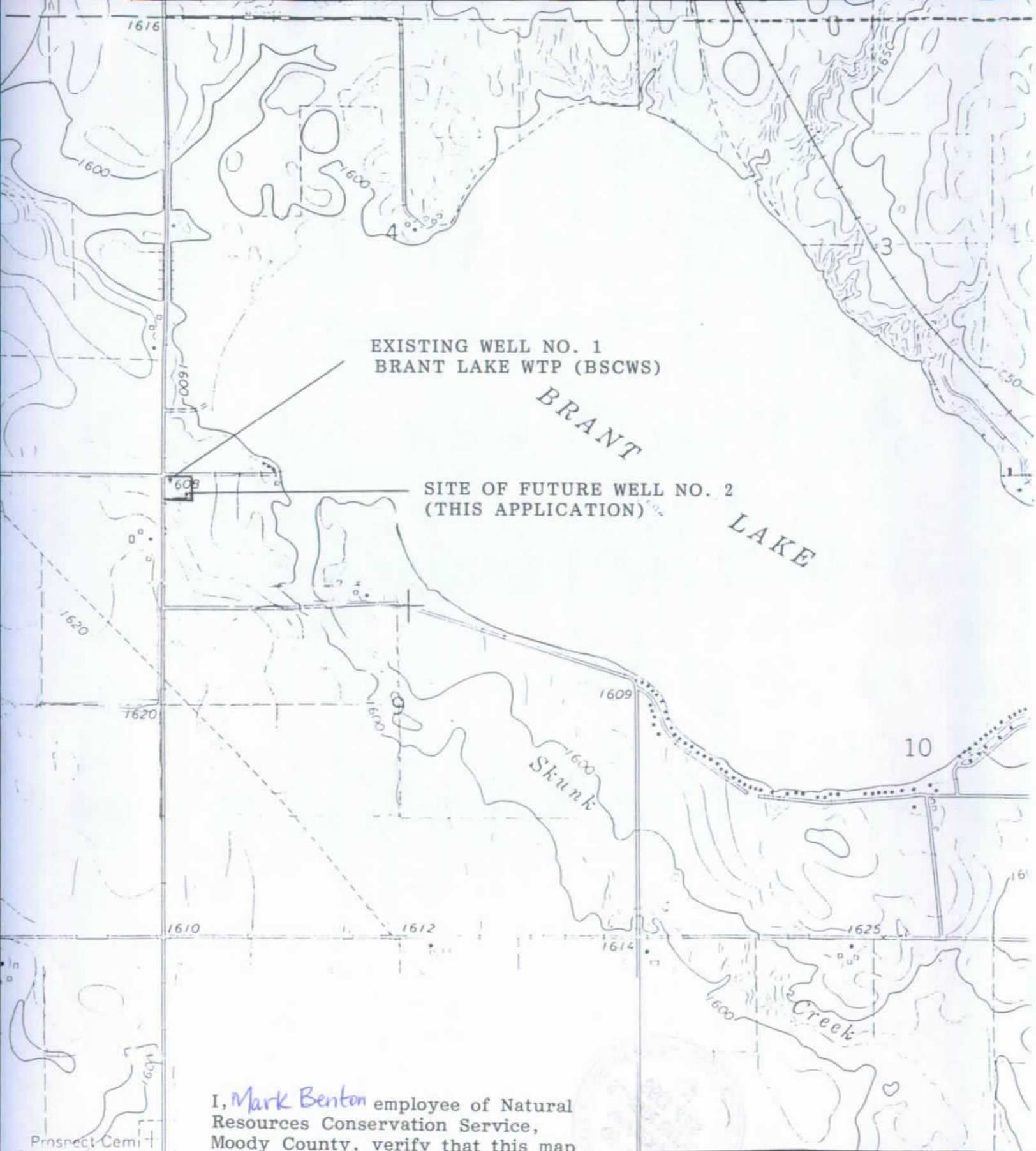
4. Water Storage Dams

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



I, Mark Benton employee of Natural Resources Conservation Service, Moody County, verify that this map is a true representation of the site location for proposed well no. 2.

Mark Benton 29th Sept. 1999.

6152-3

BIG SIOUX COMMUNITY WATER
- BOX 158
EGAN, SOUTH DAKOTA

EXHIBIT 1
SITE MAP FOR FUTURE
WELL NO. 2 - BRANT LAKE
MOODY COUNTY, SOUTH DAKOTA
N1/2 NW1/4 SEC. 9 T105N R51W

In Water Since 1946

LACEY WELL DRILLING

Wells
Test Drilling
Irrigation Supplies

Box 796
Trent, South Dakota 57065
Telephone 428-5686 or 428-5979

Pumps
Water Specialists
Water Source Heat Pumps

Water Rights Commission
JOE FOSS Bldg

Burt:

Here is a log of the test well south of
Brandt Lake drilled for Big Sioux
Rural Water System.

(Drilled around 12-1-82)

S.W.L. 7'

0-2' Black top soil
2-4' CLAY
4-5' SAND
5-7' CLAY
7-20' SAND
20-24' Yellow CLAY
24-46' Grey GRAVEL
46' Blue clay (hard)

Thanks

Jim
Lacey

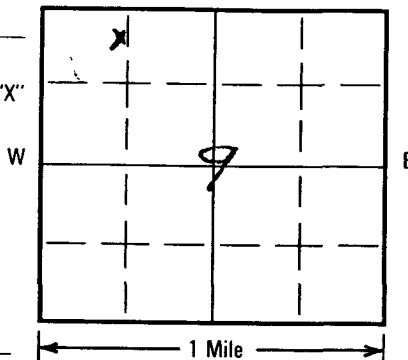


SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NW 1/4 NW 1/4 Sec 9 Twp 105-N Rg 51-W
County Lake

Please mark well location with an "X"



Well Completion Date

1-7-01

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1300 ft. from FARMSTEAD (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

FALSE CASING

CASING DATA:

☒ Steel ☐ Plastic ☐ OtherIf other describe 5" x 4"

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>50</u> LB/FT	<u>12</u> IN	<u>+18"</u> FT	<u>43</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>Bentonite</u>	<u>1300</u>	<u>chips</u> lb./gal	_____ ft	_____ ft
<u>Cement</u>	<u>8</u>	lb./gal	<u>8</u> ft	<u>15</u> ft

Describe grouting procedure tan chips in on way out & false casingSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 12" IN Length 8' FEETMaterial SS H.F. 10Slot Size 081 Set From 43 Feet to 51 Feet

Other information _____

WAS A PACKER OR SEAL USED? ☐ YES ☐ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How: _____☐ NO, Why Not? _____

Laboratory sent to for water quality analysis

Big Siouxchlorinated
pack + fillWell Owner: Big Sioux RWSBusiness Name: sameAddress: R3 B158EGAN, SD 57024

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>0-1 sandy topsoil</u>	<u>0</u>	<u>1</u>
<u>rusty gravel</u>	<u>1</u>	<u>22</u>
<u>CLAY</u>	<u>22</u>	<u>31'6"</u>
<u>VERY COARSE GRAVEL</u>	<u>31'6"</u>	<u>51'</u>

STATIC WATER LEVEL

15'6"

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:

☒ PumpedDescribe: 24 hr☐ Bailed☐ Other

Pumping Level Below Land Surface

32'6" ft. After 24 Hrs. pumped 450 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

This well was drilled under license # 111

And this report is true and accurate.

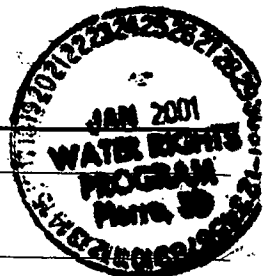
Drilling firm LACEY WELL

Signature of License Representative:

Jane J. Lacey

Signature of Well Owner or Equitable Property Holder:

Date: _____

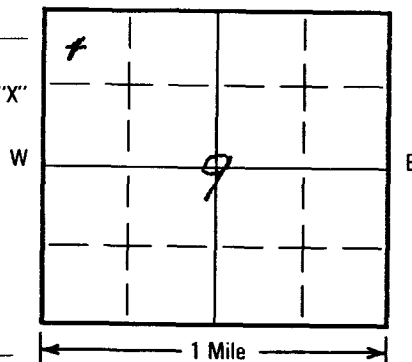


SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NW 1/4 NW 1/4 Sec 9 Twp 105-N Rg 51-W
County Lake

Please mark well location with an "X"



Well Completion Date

1-4-01

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1000 ft. from FARMSTEAD (identify source).

PROPOSED USE:

☐ Domestic/Stock ☒ Municipal ☐ Business ☐ Test Holes
☐ Irrigation ☒ Industrial ☐ Institutional ☐ Monitoring well
METHOD OF DRILLING: False casingCASING DATA: ☒ Steel ☐ Plastic ☐ OtherIf other describe sch 40

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>50</u> LB/FT	<u>12</u> IN	<u>+1</u> FT	<u>41</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>Benlate</u>	<u>12000</u>	<u>chips</u> lb./gal	_____ ft.	_____ ft.
<u>Cement</u>		lb./gal	<u>4</u> ft.	<u>8</u> ft.

Describe grouting procedure KB 3/12/01
put chips in on way out w/ false casingSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 12" IN Length 8' FEETMaterial SS. Hi FloSlot Size 080 Set From 41 Feet to 49 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?

Y YES, How: __________
NO, Why Not? _____

Laboratory sent to for water quality analysis

Big Siouxchlorinated
pack + fillWell Owner: Big Sioux RWSBusiness Name: S.D. 175Address: R3 B158
Egan, S.D. 57024

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>topsoil</u>	<u>0</u>	<u>2</u>
<u>sand</u>	<u>2</u>	<u>4</u>
<u>Road Gravel</u>	<u>4</u>	<u>14</u>
<u>Clay</u>	<u>14</u>	<u>26</u>
<u>Coarse Gravel</u>	<u>26</u>	<u>37</u>
<u>" "</u>	<u>37</u>	<u>43</u>
<u>Fine Gravel</u>	<u>43</u>	<u>46</u>
<u>Coarse Gravel</u>	<u>46</u>	<u>49</u>

STATIC WATER LEVEL 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: 24 hr test☐ Bailed _____☐ Other _____

Pumping Level Below Land Surface

22.65 ft. After 24 Hrs. pumped 450 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

This well was drilled under license # 111

And this report is true and accurate.

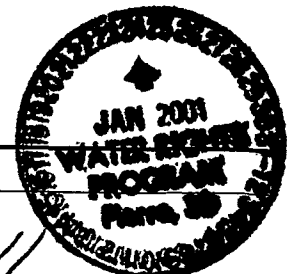
Drilling firm LACEY WELL

Signature of License Representative:

Jama J. Lacey

Signature of Well Owner or Equitable Property Holder:

Date: _____



RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

N^o 416207

Pierre, September 30, 19 99

RECEIVED OF Big Sioux Community Water, Inc., Box 158, Egan, SD 57024-0158
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use _____	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. _____	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	300 00

By _____
Chief Engineer



**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6152-3, Big Sioux Community Water System, Inc.**

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. 6152-3, Big Sioux Community Water System, Inc., c/o Martin Jarrett, Route 1, Box 158, Egan SD 57024.

The Chief Engineer is recommending APPROVAL of Application No. 6152-3 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. 6152-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. Permit No. 6152-3 authorizes a total annual diversion of 360 acre feet annually.
4. The Big Sioux Community Water System shall report to the Chief Engineer annually the amount of water withdrawn each year from the Big Sioux Northern Skunk Creek Aquifer.

See report on application for additional information.



JOHN HATCH, Chief Engineer
October 20, 1999

REPORT ON WATER PERMIT APPLICATION NO. 6152-3
for Big Sioux Community Water System, Inc.
October 12, 1999

Application No. 6152-3 proposes to appropriate 0.5 cfs (225 gpm) or 360 feet annually from one well approximately 50 feet deep located in the NW 1/4 NW 1/4 of Section 9, T105N-R51W. The water is for rural water system use, and will provide water for the Lake Area Corn Processors Cooperative.

AQUIFER - BIG SIOUX NORTHERN SKUNK CREEK (BS-NSC)

The Big Sioux Northern Skunk Creek aquifer is a surficial outwash (sand and gravel) which is under unconfined or water table conditions in this area. The aquifer underlies 48 square miles and contains an estimated 196,000 acre feet of water in storage (Hansen, 1986). Ground water movement is from northwest to southeast and is influenced by and hydraulically connected to area lakes Madison, Brant and Round and Skunk Creek.

The Water Rights Program does monitor five observation wells within a four mile radius of this application and completed into the Big Sioux Northern Skunk Creek aquifer. One of these wells, LK-79A, is located within a few hundred feet of this application. Water levels for this well show good response to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 1999). A hydrograph of the record for this observation well is included with this report.

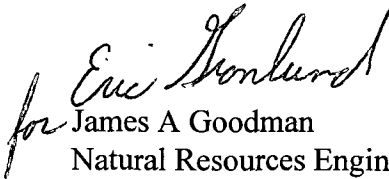
REVIEW OF EXISTING WATER PERMITS/RIGHTS

The nearest existing well is the applicant's which is Water Right No. 4943-3. The well proposed by this application will be 400 to 500 feet southeast of the existing well. The existing Water Right authorizes a diversion rate of 0.44 cfs. Interference is not a concern. Drawdown will occur as a result of pumping but is not expected to be significant nor adversely affect other area users. The rural water system can manage pumping of the existing and proposed well to minimize any potential problems associated with drawdown at the site.

CONCLUSIONS

1. Water is available from the Big Sioux Northern Skunk Creek aquifer.
2. Interference is not a concern. Drawdown will be created by pumping but should not be significant nor extend very far from the individual production wells. If a problem should arise, the rural water system will be able to manage pumping at the site to minimize the effect on the existing well.
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.

4. Water will be supplied to Lake Area Corn Processors Cooperative at a rate of about one cfs. Approval of this application would allow pumping from the well field at a rate of 0.94 cfs continuously or about 680 acre feet per year.
5. In reviewing and updating the hydrologic budget prepared for Water Permit No. 5689-3, it appears that about 1,600 acre feet of water remain for appropriation in Lake County from the aquifer. These estimates are dependent upon the highly variable irrigation uses.
6. Approval of this application does not affect the status of Future Use Permit No. 5689-3 which will remain at a reservation of 360 acre feet annually. The rural water system decided to keep the future use in effect rather than use it all for this application.

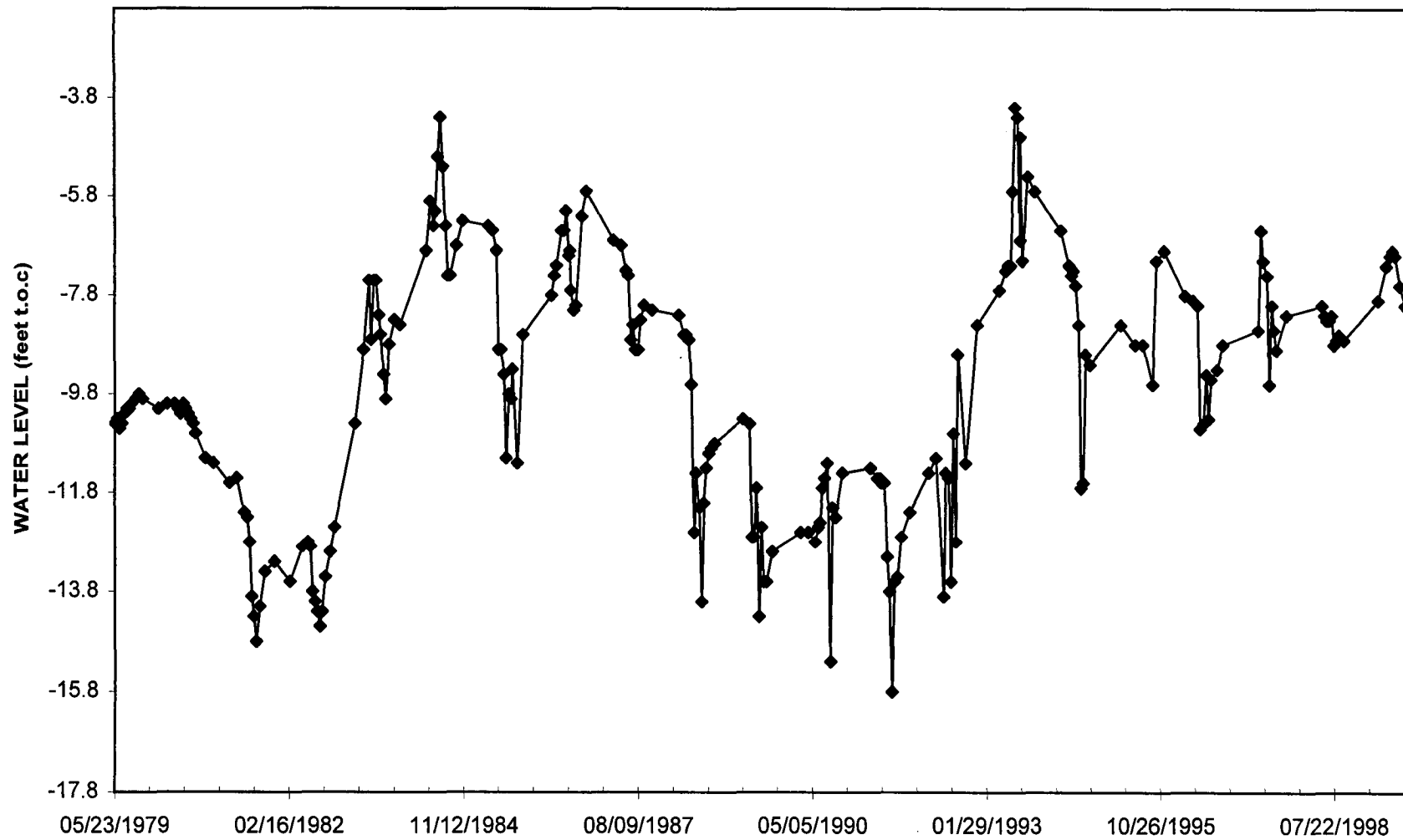

for James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

Hansen, D. S., 1986, Water Resources of Lake and Moody Counties, South Dakota, Water-Resources Investigations Report 84-4209, USGS, Huron, SD, 57350.

Water Rights, 1999, Unpublished Observation Well Data for Lake County, SD DENR, Division of Environmental Services, Water Rights Program, Pierre, SD, 57501.

**WATER RIGHTS' OBSERVATION WELL
LK-79A**





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

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

October 21, 1999

Big Sioux Community Water System, Inc.
%Martin Jarrett
Rt 1, Box 158
Egan, SD 57024

Dear Mr. Jarrett:

Water Permit Application No. 6152-3 for rural water system 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 Publishers of the Madison Daily Leader printed at Madison, SD (Ph # (605) 256-4555), and the Moody Co. Enterprise printed at Flandreau, SD (Ph # (605) 997-3725). 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 newspapers to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the papers can eliminate delays. The publishers have 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 newspapers have 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

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

October 21, 1999

Moody Co. Enterprise
Box 71
Flandreau, SD 57028-0071

ATTENTION: Legal Public Notice

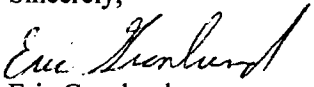
Enclosed is a Notice of Hearing on Application No. 6152-3 to Appropriate Water to be published twice. Please publish the first notice on October 27, 1999, with the second publication 7 days later.

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 Big Sioux Community Water System, Inc., %Martin Jarrett, Rt 1, Box 158, Egan, SD 57024 (Ph # (605) 997-2098).

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

-----CU T HERE-----

No. 6152-3

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

Date _____

We are in receipt of your letter of October 21, 1999 enclosing Notice of Hearing to Appropriate Water by Application No. 6152-3 which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

October 21, 1999

Madison Daily Leader
P.O. Box 348
Madison, SD 57042-0348

ATTENTION: Legal Public Notice

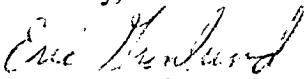
Enclosed is a Notice of Hearing on Application No. 6152-3 to Appropriate Water to be published twice. Please publish the first notice on October 27, 1999, with the second publication 7 days later.

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 Big Sioux Community Water System, Inc., %Martin Jarrett, Rt 1, Box 158, Egan, SD 57024 (Ph # (605) 997-2098).

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

-----CU T HERE-----

No. 6152-3

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

Date _____

We are in receipt of your letter of October 21, 1999, enclosing Notice of Hearing to Appropriate Water by Application No. 6152-3 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 October 27, 1999, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6152-3 to Appropriate Water

Notice is given that Big Sioux Community Water System, Inc., %Martin Jarrett, Rt 1 Box 158, Egan SD 57024 has filed an application for a water permit to appropriate 0.5 cubic feet of water per second (360 acre-feet annually) from one well (Big Sioux:Northern Skunk Creek Aquifer) 50 feet deep located in the NW ¼ NW ¼ Section 9-T105N-R51W. The water is for rural water system use. This rural water system will provide water for the Lake Area Corn Processors Cooperative.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6152-3 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 November 15, 1999.

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. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.

Form 8

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Lake) SS

I, Deanna Bergheim

certify that the attached printed Notice was
taken

from the Madison Daily Leader

printed and published in City of Madison

County of Lake and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

Wednesday, October 27, 1999

Wednesday, November 3, 1999

Cost of Printing 39.26

Deanna Bergheim
(Signature)

Secretary

(Title)

November 10, 99
(Date Signed)



Wednesday, Oct. 27 & Nov. 3, 1999

NOTICE OF APPLICATION NO. 6152-3 TO APPROPRIATE WATER

Notice is given that Big Sioux Community Water System, Inc., % Martin Jarrett, Rt 1 Box 158, Egan, SD 57024 has filed an application for a water permit to appropriate 0.5 cubic feet of water per second (360 acre-feet annually) from one well (Big Sioux Northern Skunk Creek Aquifer) 50 feet deep located in the NW 1/4 NW 1/4 Section 9-T105N-R51W. The water is for rural water system use. This rural water system will provide water for the Lake Area Corn Processors Cooperative.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6152-3 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 November 15, 1999.

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.

NETTIE H. MYERS
Secretary, Department
of Environment
and Natural Resources.



PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
 County of Moody)

I, Angela Nibbelink

certify that the attached printed Notice was taken

from the Moody County
Enterprise

printed and published in Flandreau

County of Moody and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

October 27, 1999

November 3, 1999

Cost of Printing \$ 36.85

Angela Nibbelink
 (Signature)

Bookkeeper
 (Title)

Nov. 3, 1999
 (Date Signed)

NOTICE OF APPLICATION NO. 6152-3
TO APPROPRIATE WATER

Notice is given that Big Sioux Community Water System, Inc., % Martin Jarrett, Rt 1, Box 158, Egan, SD 57024 has filed an application for a water permit to appropriate 0.5 cubic feet of water per second (360 acre-feet annually) from one well (Big Sioux: Northern Skunk Creek Aquifer) 50 feet deep located in the NW 1/4 NW 1/4 Section 9-T105N-R51W. The water is for rural water system use. This rural water system will provide water for the Lake Area Corn Processors Cooperative.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6152-3 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 November 15, 1999.

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.

Nettie H. Myers, Secretary,
 Department of Environment
 and Natural Resources
 (Oct. 27 & Nov. 3, 1999)



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

DEC 10 1999

Big Sioux Community Water System, Inc.
%Martin Jarrett
Rt 1, Box 158
Egan, SD 57024

Dear Mr. Jarrett:

Enclosed is Water Permit No. 6152-3 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.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

In Water Since 1946

LACEY WELL DRILLING

Wells — Pumps
Dewatering Work
Test Drilling

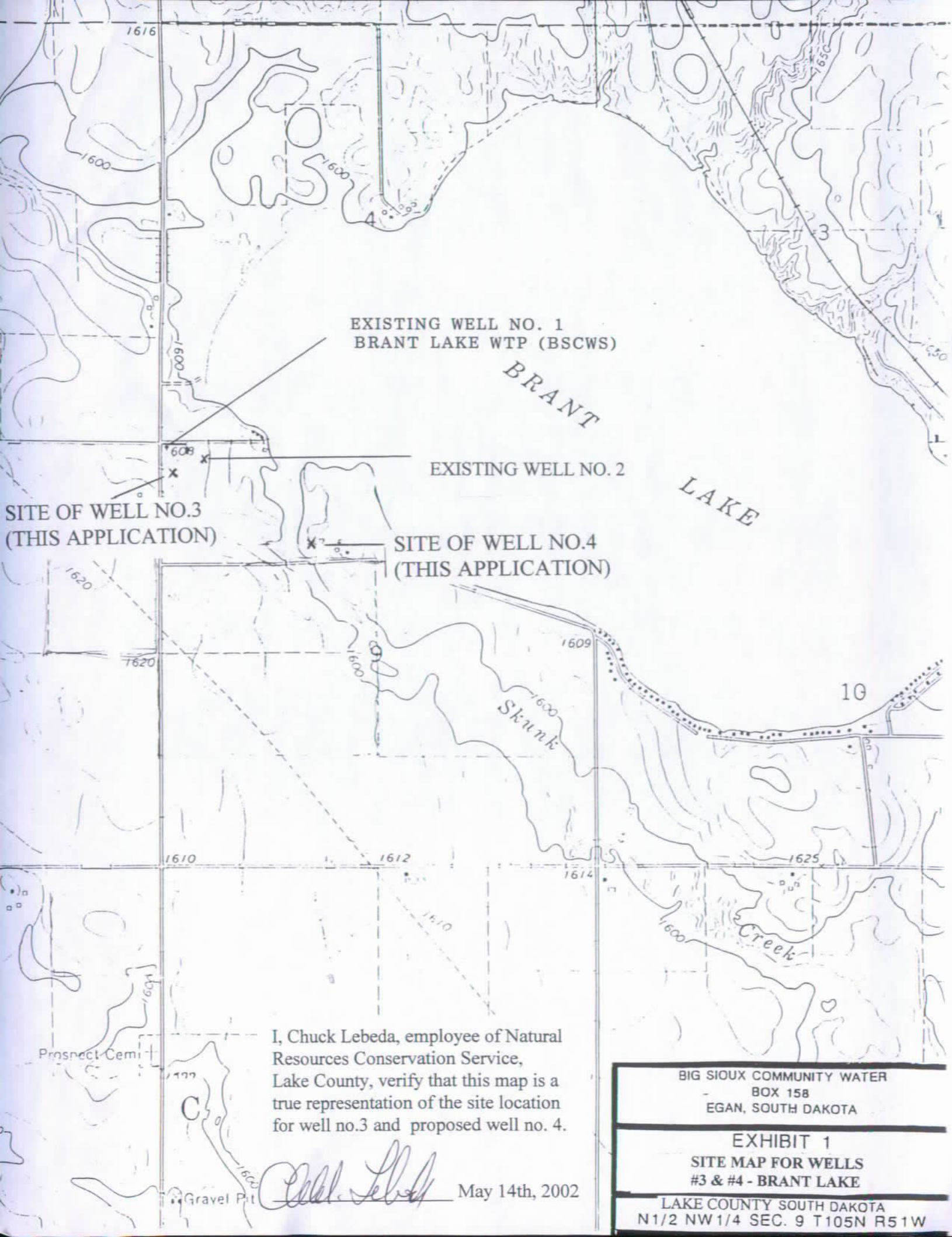
RR 1 - Box 24
Dell Rapids, South Dakota 57022
Telephone (605) 428-5979

Down-Hole Camera
Water Specialists
Irrigation Supplies

5-20-02

Log of Test hole, Chester S.D.
AREA NE4 NW4 9 105 N-51 W
LAKE CO. 0-2 topsoil 2-25'
rusty sand & gravel s&w 13' 25-50
gray clay, till, 50-75 medium
gray sand.

Tim LACEY
S.D. #111



EXISTING WELL NO. 1
BRANT LAKE WTP (BSCWS)

BRANT
LAKE

EXISTING WELL NO. 2

SITE OF WELL NO. 3
(THIS APPLICATION)

SITE OF WELL NO. 4
(THIS APPLICATION)

Skunk
Creek

Prospect Cemi

I, Chuck Lebeda, employee of Natural
Resources Conservation Service,
Lake County, verify that this map is a
true representation of the site location
for well no. 3 and proposed well no. 4.

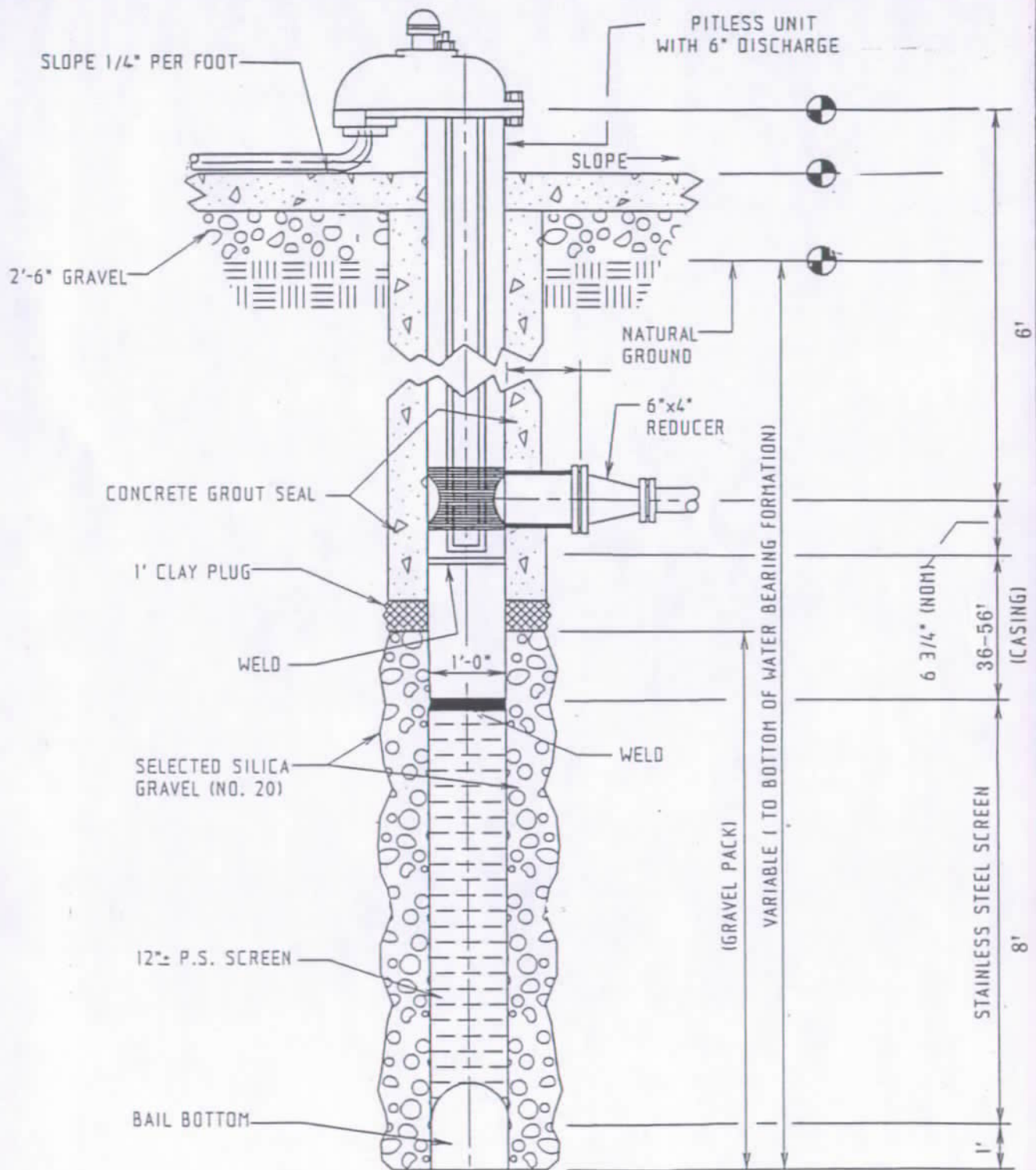
Chuck Lebeda

May 14th, 2002

BIG SIOUX COMMUNITY WATER
BOX 158
EGAN, SOUTH DAKOTA

EXHIBIT 1
SITE MAP FOR WELLS
#3 & #4 - BRANT LAKE

LAKE COUNTY SOUTH DAKOTA
N1/2 NW1/4 SEC. 9 T105N R51W



NOTES

1. SET PUMP INLET AT 2' FROM TOP OF SCREEN.

Big Sioux Community Water Inc.

Proposed Well Design

#4

NE1/4NW1/4 Sec.9, T105N R51W

DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
WATER RIGHTS PROGRAM

June 6, 2002

RE: Request for additional diversion points for Water Permit No. 6152-3, Big Sioux Community Water System, Inc.

Big Sioux Community Water System, Inc. has submitted a request for additional diversion points for Water Permit No. 6152-3. SDCL 46-5-13.1 provides that a point of diversion may be changed or additional points of diversion may be approved without application or publication of a notice of hearing if the additional point of diversion is from the same source of water, no additional water is appropriated and the chief engineer makes a finding that the change does not increase the potential for interference with existing diversions.

Water Permit No. 6152-3 appropriates 0.50 cubic feet of water per second (360 acre feet of water annually) from one well (designated Well No. 2) constructed into North Skunk Creek management unit of the Big Sioux Aquifer. This well is located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 9, T105N, R51W. This water permit has a priority date of September 30, 1999 and is to provide water for the Lake Area Corn Processors Cooperative. The rural water system is requesting authorization to construct 1 or 2 additional wells located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 9 approximately 1,600 feet southeast of the existing well. No additional appropriation of water is authorized and the wells will be constructed into the same aquifer. A test hole log accompanied the System's request which indicates medium gray sand between 50 – 70 feet.

Martin Jarrett, Manager of the Big Sioux Community Water System, indicates the System has procured additional land and want to add an additional well and a mechanical backup to Well No. 2 .

As part of the review of this request for additional diversion points, a review of the well log database maintained by the Water Rights Program and existing water rights located in the sections surrounding Section 9. There are thirteen water rights, excluding those held by the rural water system, that appropriate 17.41 cfs in this vicinity that obtain water from the same aquifer.. There is also a future use permit held by Kingbrook RWS for 425 acre feet of water annually from the aquifer.

The review of domestic well logs on file with the Water Rights Program was also conducted on the sections surrounding Section 9. This search of the database found 5 domestic well completion reports found in a mile proximity. These wells divert relatively small quantities of water. There have been no recent complaints on water availability from the Northern Skunk Creek management unit of the Big Sioux Aquifer.

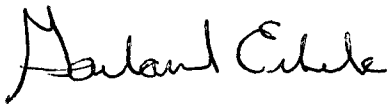
There is an observation well (LK-79A) located in the NW corner of Section 9. Readings from this observation well have been in place since 1979. Generally, water levels range in the 8 to 11 feet below ground level, however, over the period of time water levels have varied from 4 feet to 16.7 feet below ground level.

Big Sioux Community Water System's request proposes no additional appropriation of water. This request is for authorization to construct either one or two additional wells located approximately 1,600 feet southeast of the existing well. The additional well(s) will be to: 1) obtain the 0.5 cfs authorized by Permit No. 6152-3 and 2) act as a mechanical backup to original well. It is not anticipated that domestic uses or existing prior rights will be adversely impacted by authorizing this additional diversion point.



Eric Gronlund
Natural Resources Engineer
Water Rights Program

The Chief Engineer makes a finding that the additional diversion points do not increase the potential for interference with existing diversions. In making the finding, "does not increase the potential for interference" is interpreted to mean potential for adverse interference. The additional diversion points for Water Permit No. 6152-3 are authorized without requiring application or publication of a notice of hearing pursuant to SDCL 46-2A-4. A new water right permit is necessary for any diversions greater than 225 gpm (360 acre feet annually) by the Big Sioux Community Water System from the wells.



Garland Erbele, Chief Engineer
Water Rights Program
June 11, 2002



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

June 12, 2002

Martin Jarrett, Manager
Big Sioux Community Water System, Inc.
Box 158
Egan SD 57024

Dear Mr. Jarrett:

I am writing in regard to the Big Sioux Community Water System's request for additional diversion points under Water Right No. 4943-3 and Water Permit Nos. 6152-3 and 6223-3.

Specifically, Big Sioux Community Water System has requested the following:

Water Right No. 4943-3 appropriates 0.44 cfs from one well (designated Well No. 1) constructed into the North Skunk Creek management Unit of the Big Sioux Aquifer. The request is to authorize an additional well (Well No. 3) which is located approximately 600 feet south of the existing well. The new well will be the primary well while Well No. 1 will be maintained for backup purposes.

Water Permit No. 6152-3 appropriates 0.5 cfs from one well (designated Well No. 2) constructed into the North Skunk Creek management Unit of the Big Sioux Aquifer. The System requests authorization to construct up to two additional wells in order to obtain the 0.50 cfs authorized by Permit No. 6152-3 and to act as a backup to the existing well.

Water Permit No. 6223-3 appropriates 0.74 cfs from one well constructed into the Moody management unit of the Big Sioux Aquifer. This permit does not increase the 1,491 acre feet of water annual volume authorized by the System's existing water rights from this aquifer. The additional well that is requested is to be a backup well. No increase in the diversion rate or annual volume of water is being requested.

Upon review of the request and pursuant to SDCL 46-5-13.1, Big Sioux Community Water System is authorized to construct the additional diversion points without application or publication of a notice of hearing pursuant to SDCL 46-2A-4.

It is our understanding that these additional wells are necessary to bring the production capabilities to the permitted amount or will act as mechanical back-ups to the existing wells. A new water right permit will be necessary if there is an increase in the permitted diversion rates or annual volume of water as authorized by the System's existing water rights.

This request has been authorized under SDCL 46-5-13.1 for which there is no application filing fee.

If you have any questions, please feel free to contact Eric Gronlund at (605) 773-3352.

Sincerely,

A handwritten signature in cursive script, appearing to read "Garland Erbele".

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

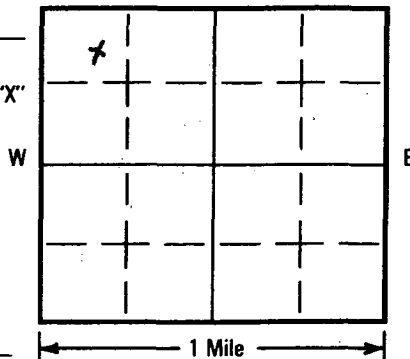
SOUTH DAKOTA WATER WELL COMPLETION REPORT

6152-3
07-92

Location NW 1/4 NW 1/4 Sec 9 Twp 105N Rg 51W

County Lake

Please mark well location with an "X"



Well Completion Date

7-20-02

Well Owner: Big Sioux RWS
Business Name: 23343 479th Ave
Address: Egan SD 57024

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
22 SAND + GRAVEL	0	25

LOCATION:

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

PROPOSED USE:

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

METHOD OF DRILLING:

FAKE CASING
BUCKET

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

8" CI 160

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

GROUTING DATA

Grout Type CEMENT No. of Sacks 69 GALLONS Grout Weight _____ lb./gal _____ ft. _____ ft.
to bag 3/4 yd lb./gal _____ ft. _____ ft.
 Describe grouting procedure TRIMMED IN

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 8" IN Length 5' FEET
 Material PVC
 Slot Size 080 Set From 20 Feet to 25 Feet
 Other information _____

WAS A PACKER OR SEAL USED?

☐ YES ☐ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How: _____

☐ NO, Why Not? _____

Laboratory sent to for water quality analysis

Big Sioux RWS

chlorinated
PACK

STATIC WATER LEVEL

Test hole 8' 5-11-02 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: 1 AN @ 60 gpm
☐ Bailed for 4 hrs
☐ Other _____

Pumping Level Below Land Surface

15.4' ft. After 4 Hrs. pumped 60 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

2 wells in same hole
Well will be used in
conjunction with 77' well

This well was drilled under license # 111

And this report is true and accurate.

Drilling firm LACEY WELL DRILLING

Signature of License Representative: [Signature]

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

Date: 8/6/2002

RECEIVED

AUG 21 2002

WATER RIGHTS PROGRAM

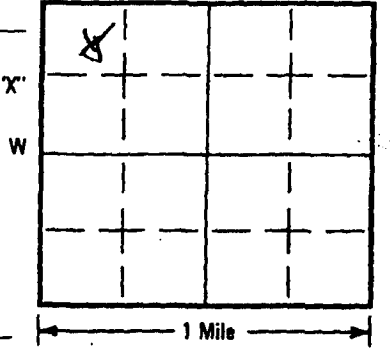
SOUTH DAKOTA WATER WELL COMPLETION REPORT

6152-3
07-92

Location NW 1/4 NW 1/4 Sec 9 Twp 105-N Rg 51-W
County Madison

Madison

Please mark well location with an "X"



Well Completion Date

7-18-02

LOCATION:

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

PROPOSED USE:

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

METHOD OF DRILLING:

False Casing Bucket

CASING DATA:

- ☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
<u>50</u> LB/FT	<u>12"</u> IN	<u>+3</u> FT	<u>65"</u> FT	<u>20"</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type Cement No. of Sacks 24 Grout Weight _____ lb./gal From 25 ft To 49 ft
6 gallons/bag lb./gal _____ ft _____ ft
Describe grouting procedure PREMIER IN

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 12" IN Length 8' FEET

Material Stainless Steel

Slot Size 1050 Set From 65 Feet to 77 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

☐ NO, Why Not? _____

Laboratory sent to for water quality analysis

Big Sioux

Well Owner: _____

Business Name: Big Sioux RW

Address: 23343 479th Ave

Egan, SD. 57024

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Medium Sand + Gravel	0	25
Clay	25	49'6"
Fine Sand	49'6"	64
Medium Sand	64	77

STATIC WATER LEVEL 11'8" 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: _____

☐ Bailed _____

☐ Other _____

Pumping Level Below Land Surface

70 ft. After 12 Hrs. pumped 300 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

2 wells in same hole

2 PUMPS IN THIS WELL

103

RECEIVED

AUG 21 2002

This well was drilled under license # 111

WATER RIGHTS PROGRAM

And this report is true and accurate.

Drilling firm: Lacey Well Drilling

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

Signature of Well Owner or Equitable Property Holder: _____

Signature of Well Owner or Equitable Property Holder: _____

Signature of Well Owner or Equitable Property Holder: _____

Date: 8/6/2002



SOUTH DAKOTA WATER WELL COMPLETION REPORT

6152-3

07-92

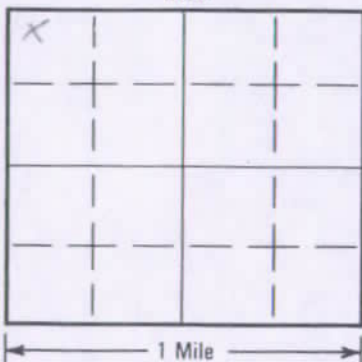
Location AW 1/4 NW 1/4 Sec 9 Twp 105-N Rg 51-W
County Lake

Please mark well location with an "X"

Replacement well W

Well Completion Date

12-7-09



LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 12 ft. from Lake (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Bucket-False Casing

CASING DATA: ☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>50</u> LB/FT	<u>12"</u> IN	<u>-16</u> FT	<u>41</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>	<u>1-3</u>	_____ lb./gal	<u>9'</u> ft	<u>14'</u> ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure pitless from well 7'
Terrie Pipe 2' Above GroundSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 12" IN Length 7' FEETMaterial SS TubasonSlot Size #10 Set From 40' Feet to 44' Feet 4'Other information 41' 44' 3'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

NO, Why Not? _____

Laboratory sent to for water quality analysis

Big Sioux LabWell Owner: Martha TallettBusiness Name: Big Sioux RWSAddress: Box 158
Egan, SD 57024

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Sandy Topsoil	0	3
Mixed Sand layers	3	15
Coarse Gravel	15	20
CLAY	20	24
Grey Sand	24	33
Coarse Grey Sand	33	37
Very Coarse Gravel	37	44

STATIC WATER LEVEL 15' 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

30' ft. After 3 Hrs. pumped 300 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

RECEIVED

JAN -4 2009

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:

Thomas J. Lacey

Signature of Well Owner or Equitable Property Holder:

Martha Tallett for Big Sioux RWS Inc.Date: 12/22/09

Date: 12/20/2012

Permit No. 6152-3
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, July 27, 2012, made a thorough examination of the water use system constructed by Big Sioux Community Water System, Inc of 23343 479th Ave., Egan, SD 57024 holder of Permit No. 6152-3, bearing the priority of September 30, 1999 authorizing the diversion of 0.5 cu. ft. per second (360 acre-feet annually) of the waters of the Big Sioux:Northern Skunk Creek Aquifer for Rural Water System use purposes, in Lake County.

Inspection contact & relationship to permit holder, if applicable: Martin Jarrett, Mgr

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Lacey Well Drilling
- 2) No. of Wells 3

Pump:

- 1) Make (3) Franklin
- 2) Size (2)15 hp, (1) 30 hp
- 3) Capacity (2)150, (1) 300 gpm

B. 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 NA
- 3) Exceptions to compliance are: None

The system is in Good condition with the point(s) of diversion located as follows:

Well 2: Approximately 150 feet south and 575 feet east of the NW ¼ corner of Section 9-T105N-R51W (N 43.92020, W -96.96694) (NW ¼ NW 1/4)

Well 4A: Approximately 1,550 feet south and 1,275 feet east of the NW ¼ corner of Section 9-T105N-R51W (N 43.91650, W -96.96439) (SW ¼ NW 1/4)

Well 4B: Approximately 1,320 feet south and 1,710 feet east of the NW ¼ corner of Section 9-T105N-R51W (N 43.91713, W -96.96260) (SW ¼ NW 1/4)

The works are capable of diverting and conveying to the place of use 0.5 cu. ft. per second of water which is to be used for Rural Water System use.

Report of Examination of Works

Permit No. 6152-3

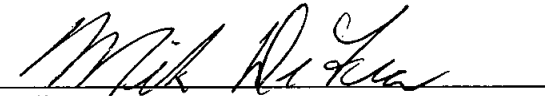
The license should be issued for 0.5 cfs and 360 acre-feet annually.

All structures, wells and lands on map Y

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

This permit was originally authorized to appropriate 0.5 cfs of water from one well (designated as Well #2) constructed into the Big Sioux:Northern Skunk Creek aquifer for supplying water to an ethanol plant from the Big Sioux Community Water System. In June, 2002, the rural water system requested authorization to construct one or two additional wells from the same aquifer with no additional appropriated. These wells would be used to obtain the 0.5 cfs authorized by this permit and to act as a back-up to the original well (Well #2). This request was approved by the Chief Engineer.

At the time of the inspection, there were three wells which were capable of producing water for this permit. They are identified by the RWS as Well's #2, 4A and 4B. Well logs are available; however, it is unclear as to which well log belongs to which well. All three well are completed into the Big Sioux:Northern Skunk Creek aquifer and are in the NW ¼ Section 9-T105N-R51W.



Mike DeFea

Natural Resources Engineer II
DENR, Water Rights Program

Date report completed: May 16, 2014

Big Sioux Community Water System, Inc.
Permit No. 6152-3



0 625 1,250 2,500
Feet

Mike DeFea

Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
April 29, 2014



South Dakota
Department of Environment
& Natural Resources
Protecting SD's Tomorrow... Today



**DEPARTMENT OF ENVIRONMENT
and NATURAL RESOURCES**

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



MAY 27 2014

6152-3

Martin Jarrett, Mgr
Big Sioux Community Water System Inc.
23343 479th Ave
Egan SD 57024

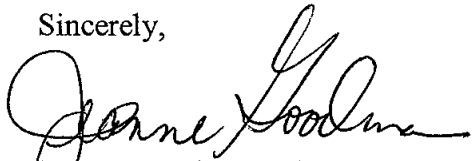
Dear Mr. Jarrett:

Enclosed is Water License No. 6152-3. This is the final water right document completing the process of obtaining a Water Right. Included with the license is a 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 wells authorized by Water Right No. 6152-3, 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,


Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA WATER LICENSE NO. 6152-3

(1) Big Sioux Community Water System Inc., 23343 479th Ave., Egan SD 57024 made Application No. 6152-3, September 30, 1999 for a water permit to divert 0.50 cubic feet of water per second (360 acre feet annually) from ground water (one well – Big Sioux Northern Skunk Creek Aquifer), Lake County, South Dakota for rural water system purposes. Permit No. 6152-3, with a priority date of September 30, 1999 was approved November 15, 1999 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before November 15, 2004 and for the application to beneficial use of said water on or before November 15, 2008.

In June, 2002, the permit holder was granted authorization for one or two new wells drilled approximately 1600 feet SE of the existing well and constructed into the same water source. Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided no additional water is appropriated. The Chief Engineer made a finding pursuant to SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that the additional diversion points did not increase the potential for adverse effects to existing diversions.

(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 0.50 cubic feet of water per second for beneficial use. The location of the diversion points are:

- Well #2 – 150 feet S & 575 feet E of the NW corner of Section 9, T105N, R51W (NW $\frac{1}{4}$ NW $\frac{1}{4}$);
- Well #4A – 1,550 feet S & 1,275 feet E of the NW corner of Section 9, T105N, R51W (SW $\frac{1}{4}$ NW $\frac{1}{4}$);
- Well #4B – 1,320 feet S & 1,710 feet E of the NW corner of Section 9, T105N, R51W (SW $\frac{1}{4}$ NW $\frac{1}{4}$).

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use.

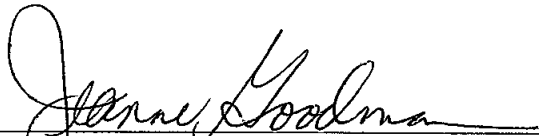
(4) Pursuant to South Dakota Water Law 46-5-30.1 the Big Sioux Community Water System Inc., 23343 479th Ave., Egan SD 57024 the holder and/or owner of Water Right No. 6152-3 is issued a license to appropriate water, the right to use 0.50 cubic feet of water per second from ground water (three wells – Big Sioux Northern Skunk Creek Aquifer) with a priority date of September 30, 1999 from the location specified in (2) of this license for rural water system purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 6152-3 and subject to the following qualifications:

- The wells 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 wells authorized by Permit No. 6152-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. *All three wells were constructed by Lacey Well Drilling. Copies of the logs are on file with the Water Rights Program.*

continued

- Water Right No. 6152-3 authorizes a total annual diversion of 360 acre feet annually.
- The Big Sioux Community Water System shall report to the Chief Engineer annually the amount of water withdrawn each year from the Big Sioux Northern Skunk Creek Aquifer.



Jeanne Goodman, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAY 27 2014

date

