

No. 1317-3Water Division No. 3 BIG SIOUX RIVER District 001
(Blanks to be filled by the Engineer for the W. R. C.)**APPLICATION FOR PERMIT****To Appropriate Water within the State of South Dakota**

(NOTE—Draw a line through items not applicable.)

1. Name of applicant City of Estelline
 Post office address Estelline, County Hemlin, State S. Dak.

I. If a corporation yes

(a) Name of same City of Estelline

(b) Date and place of incorporation South Dakota, no record in minutes

(c) Amount of capital stock _____

(d) Amount paid in _____

(e) Names and addresses of directors Harold Scott, Mayor. Alvarmen, Lawrence Cratz
Roy Norstam, G. G. Hogseth, E. L. Knott, Carl Colberg, A. A. Hausman.

(NOTE—A certified copy of articles of incorporation must accompany the application.)

II. Method of accomplishing the work and financial resources of the applicant:

(a) Method of accomplishing work (Whether by contract, employment of others, or by direct labor)

(b) Cash on hand, \$45,000.00 (c) Treasury stock, \$ _____

(d) Bonds to be issued, \$ _____ (e) Other resources, \$ _____

2. Name of diversion work Municipal Water Supply

3. Amount of water claimed 5,000,000 1.1 cubic feet per second

4. Source of water supply Well

5. Location of point of diversion Lot 4, Block 3, ORIGINAL TOWNSITE
OR ESTELLINE IN SEC. 23, T13N, R51W on Hemlin County.

6. Annual period or periods during which water is to be used all year

7. To be used for: Domestic & Fire

I. Irrigation or domestic use: Gravity, overhead sprinkling or combination system? _____

(a) Number of acres to be irrigated 0 acres.

(b) Legal subdivisions to be irrigated _____

(NOTE—A list of lands to be irrigated, giving each subdivision and fraction with acreage thereof, should be written here, or may be appended as a part of this application. Same must also be shown on accompanying map.)

(c) Statement as to domestic use (giving location, etc.) City of Estelline
Estelline S Dak

II. Stockwatering, mining, milling, power, fish culture, fire protection and public recreation:

(a) Nature of use _____
 Name any of the above uses claimed

(b) Amount of power to be generated _____ horse power.
 Amount claimed for engine cooling _____

(c) Location of plant _____

(d) Method of developing power _____

(e) Point where water will be returned to stream _____

VIR.

8. Estimated cost of work:

(a) Head Gates, \$..... (b) Pumping plant, \$.....
(c) Fluming, \$..... (d) Canal-earth, \$..... Rock, \$.....
(e) Other structures\$..... Total, \$.....

9. Description of diversion works:

I. Nature of works: (Reservoir, dam, ditch, flume, pumping plant, etc.)

II. Dimensions of works.

(a) Dam: Height.....feet; length at bottomfeet; length at topfeet; thickness at bottomfeet; thickness at topfeet; slope at front water face; slope at back face
material used in construction:
(b) Reservoir: Capacity when filledacre feet. Surface area at highwater mark.....acres.

DEPTH AT OUTLET-Feet	SURFACE AREA AT EACH DEPTH AT OUTLET—ACRES	ACRE-Feet CAPACITY

(c)* Head gate: Width.....feet; height.....feet;
Material
(d) Canal: Total lengthmiles.

LOCATION BELOW HEADGATE	DEPTH	BOTTOM WIDTH	WIDTH AT WATER-LINE	GRADE PER MILE
At Mile	 feet	 feet	 feet	 feet
At Mile	 feet	 feet	 feet	 feet
At Mile	 feet	 feet	 feet	 feet
At Mile	 feet	 feet	 feet	 feet
At Mile	 feet	 feet	 feet	 feet
At Mile	 feet	 feet	 feet	 feet

(Give dimensions where reductions in size are made.)

10. Time required for completion of workyears.
11. Time required for complete application of water to the proposed beneficial use years.
12. Choice of newspaper for publication of notice of intention to appropriate
Estelline Journal, Estelline S Dak

STATE OF SOUTH DAKOTA }
County of Hamlin } ss.

I, A. J. Lundberg Auditor, being first duly sworn on my oath depose and say: That my relation to the above described undertaking is that of owner, that I have read the above foregoing statement, examined the map accompanying the same, and that I know of my own personal knowledge that the matters therein stated and shown are true.

Signed _____

Subscribed and sworn to before me this 8 day of October 19 66

Notary Public (or other qualified officer.)

*Each diversion must have a headgate or measuring device

Remarks by State Water Resources Commission:

"VESTED RIGHT" CLAIMED

STATE OF SOUTH DAKOTA
County of HUGHES ss.

Pierre, South Dakota, MAY 20, 1970

This is to certify that the foregoing application was received by the Commission at 8:15 o'clock
a.m. upon the 10TH day of OCTOBER, 1966

State Water Resources Commission

By:

[Signature]
for Chief Engineer, Executive Officer

Number of permit 1317-3

Date of first receipt of application OCTOBER 10, 1966

Date of return to applicant for correction, amendments or changes required as follows: _____, 19____

Date of receipt of corrected application _____, 19____

Date from which applicant may claim right 1910, 19____

Approved JULY 17, 1968, Recorded in Book 11 Page 114

This is to certify that we have examined the foregoing application for a permit to appropriate water of the State of South Dakota, and we hereby grant the same as stated herein, subject, however, to the following limitations and conditions:

1st. The equivalent of at least one-fifth of the work above specified is ~~to be~~ completed ~~on or before~~ _____

2nd. The whole of said work is ~~to be~~ completed ~~on or before~~ _____

3rd. The limit of time for proof of beneficial use of water appropriated in accordance herewith is

COMPLETED

4th. The water appropriated shall be used for the purpose of MUNICIPAL USE

5th. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.

6th. The amount of the appropriation herein granted shall not exceed 1.1 cubic feet per second; neither shall it exceed the capacity of the above described system of diversion works, nor the least amount of water that experience may hereafter indicate as necessary for ~~the production or escape in the exercise of the best husbandry, and further, said appropriation shall be limited to not more than one centavert (1/100) of one cubic foot of water per second of time for each acre of land to which water is actually~~ USED FOR MUNICIPAL PURPOSES WAS

and beneficially ~~applied for irrigation~~ on or before JUNE 30, 1955; said water to be used during the following described annual period:

CONTINUOUSLY

Witness my hand this 20TH day of MAY, 1970.

State Water Resources Commission

By:

[Signature]
Chief Engineer, Executive Officer

Certificate of Construction Issued MAY 20, 1970

Water License Issued MAY 20, 1970

Form 2A — Wells (Supplement to Form 2)

We do not contemplate to dig any well, we have a good one now.

9. (Continued)

III. Well Specifications

(a) Hole and casing

Size of drill hole or excavation Depth

Type of casing (wood, concrete, steel, etc.)

Size of casing Thickness of casing

Length of casing If collection gallery, length, size and depth of gallery

(b) Screens

Type of perforated screen

Size of perforated screen (diameter) (length)

Thickness of gravel pack length of gravel pack

(c) Water Bearing Materials

Distance to water Character of water bearing materials

Thickness of water bearing material

(d) Pump and Motor

Type of pump (centrifugal, propeller, mixed flow, etc.)

Name of pump size

Kind of motor (gasoline, electric, diesel, etc.)

Horsepower Name of Motor

(e) Complete well

Capacity at drawdown of Estimated cost

(f) Owner of land upon which well is located Name

Address

(g) Distance to nearest existing wells

On same owner's property rods. On property owned by others rods

Form 15.

Permit No. 1317-3

Water Diversion No. 3 BIG SIOUX RIVER Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That the City of Estelline

the holder of
Vested Right Permit No. 1317-3, issued upon Application No. 1317-3, bearing date of priority of 1910
authorizing the diversion of 1.1 cu. ft. per second of the waters of ground water
County of Hamlin, State of South Dakota at a
point in Lot 4, Block 3, Original townsite of Estelline, in the SE 1/4,
Section 23, T113N, R51W
for municipal

purposes, has 8 complied with the provisions of the laws of the State of South Dakota relating to proof of
completion of the works of diversion set out and described in said Permit; that said works are **recognized as** satisfactory
conditions for diverting and conveying to the place of intended use 1.1 cu. ft. per second of water.

Date May 20, 1976

WATER RESOURCES COMMISSION

By:

J.W. GRIMES, Executive Officer

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1317-3

(1) WHEREAS, On the 10th day of October A. D. 19 65
the City of Estelline

Vested Right
 made Water Right Application No. 1317-3 for a permit to use 1.1 cubic feet per second of the waters
 of ground water

County of Hamlin, State of South Dakota, for municipal

purposes; and

(2) WHEREAS, On the 20th day of May A. D. 19 70

Permit No. 1317-3, with a date of priority of 1910

was issued to said applicant recognizing the
 for the diversion of said water. ~~and provided for~~ the completion of construction of the water
 supply system therein described ~~on or before the~~ xxxxxx day of xxxxxxxx A.D. 19xx and ~~for~~ the
 application to beneficial use of said water ~~on or before the~~ xxxxxx day of xxxxxxxx A.D. 19xx

and:

(3) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota
 relating to completion of the construction of the water supply system and is entitled to divert 1.1 cubic feet
 per second of water for beneficial use and.

(4) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota
 relating to the application of water to beneficial use of the following extent.

water is used for municipal purposes by the City of Estelline

(5) NOW, THEREFORE, By the virtue of the authority vested in us by the laws of the State of South Dakota, We hereby grant and confirm to the City of Estelline

est.
Vested Right
the holder _____ and owner _____ of said permit No. 1317-3 a water right, dating from 1910
_____ to use of 1.1 cubic feet per second of the waters
of ground water

in the County of Hamlin and State of South Dakota, or so much thereof as may be necessary for the
purposes hereinbelow mentioned, to be diverted at a point in Lot 4, Block 3, original townsite of
Estelline in the SE $\frac{1}{4}$, Section 23, T113N, R51W

conducted
and ~~conducted~~ through the City water distribution system

for the purpose of municipal use

Subject to any limitations listed in Water Right Permit No. 1317-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 20th day of May A. D.
Nineteen Hundred and Seventy

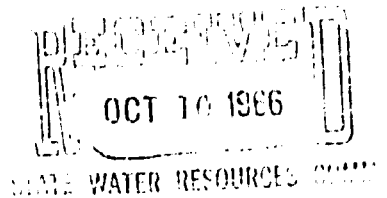
WATER RESOURCES COMMISSION

By:

Chief Engineer, Executive Officer, J.W. GRIMES

Location No.

Water Division No. Water District



Proof of Application of Water to Beneficial Use

PETITION OF HOLDER

Ques. 1. State your name, residence, occupation and postoffice address.

Ans. City of Estelline, Estelline S Dak

Ques. 2. If acting in behalf of a corporation, state its name, principal place of business (if a foreign corporation, give name and postoffice of statutory agent,) your position with reference to same, and your authority for appearing in its behalf.

Ans. City of Estelline, Estelline S Dak, Municipality

Ques. 3. State date of posting and date of recording notice of appropriation.

Ans. Well has been in use since about 1890

Ques. 4. State source of water supply and give exact location of point of diversion.

Ans. Well, City of Estelline

Ques. 5. Describe your works of diversion giving length and height of each dam, and state amount of water they are capable of conveying from point of diversion to place of use, and give name of canal or ditch or other works by which water is conducted to such place of use, and date of completion of same.

Ans. _____

Ques. 6. State for what purpose water is used and describe place of use. (If for irrigation, name each subdivision in which used, and number of acres in each subdivision that have ACTUALLY been irrigated with said water.)

Ans. Domestic use and Fire protection

Ques. 7. If for other than irrigation purpose, state how applied, amount of horse power generated, etc.

Ans. _____

Ques. 8. What is the minimum amount of water required for the use specified above?

Ans. 5,000,000 gal annually

Ques. 9. If you are not the person or representative of the corporation to whom above mentioned permit was originally issued, please state how ownership was acquired by present holder.

Ans. City Auditor



DEPARTMENT OF WATER & NATURAL RESOURCES

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

GREAT FACES. GREAT PLACES.

April 26, 1991

1317 3

Earl Colberg, Mayor
City of Estelline
PO Box 278
Estelline SD 57234

Dear Mayor Colberg:

The Water Management Board has validated the enclosed Vested Water Right No. 1317-3. This validation gives legal status to the claim and is the final document for your vested right.

As long as you use the water beneficially, as stated in the validation, State Water Laws provide that you have a continuing right to use the water.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division
605 773-3352

enclosure

SOUTH DAKOTA

VALIDATION OF VESTED WATER RIGHT CLAIM NO. 1317-3

Date Claim Accepted For Filing October 10, 1966.

Date of Validation September 27, 1989.

Pursuant to SDCL 46-2A-17 the Water Management Board validated Vested Water Right Claim No. 1317-3 for the City of Estelline, P O Box 278, Estelline, South Dakota 57234 with the following limitations, conditions and qualifications:

1. Vested Water Right No. 1317-3 appropriates 1.10 cubic feet of water per second from one well located in the SE 1/4, Section 23, T113N, R51W.
2. The appropriated water is used for supplying water for the City of Estelline and may not exceed the amount of water needed for beneficial use for municipal purposes.

The water is to be used during the following annual period:
January 1 - December 31

3. The priority date of the Vested Water Right is: January 1, 1910.
4. The water use system has been constructed and water has been applied to beneficial use.
5. Water Rights obtained in compliance with the laws of the State of South Dakota must not be unlawfully impaired by this appropriation.

WATER MANAGEMENT BOARD

By: 
Chief Engineer
Division of Water Rights
Dept. of Environment and Natural Resources

APR 29 1991

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

September 16, 2008

Dan DeWitt, Mayor
City of Estelline
PO Box 278
Estelline SD 57234

Dear Mayor DeWitt:

I am writing in regard to the request filed to authorize changing the location of the well authorized by Vested Water Right No. 1317-3. This water right appropriates 1.10 cubic feet of water per second (494 gpm) from one well completed into the Big Sioux:Brookings Aquifer located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 23, T113N, R51W for municipal use. The water right has a priority date of January 1, 1910.

There appears to have been a previous change in the location of this well that was not recorded with the Water Rights Program. While the vested water right states the location is the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 23, the recently submitted map shows the well to be abandoned is in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 24. A telephone conversation with Finance Officer Mary Saathoff confirmed that the well to be abandoned is the well associated with Water Right No. 1317-3.

The replacement well is to be located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ of this Section 24, T113N, R51W and is to be approximately 2,700 feet northeast of the present permitted well site. Upon review of the request and pursuant to SDCL 46-5-13.1, the change in the well location is authorized without application or publication of a notice of hearing pursuant to SDCL 46-2A-4. The existing well that is to be replaced shall be plugged in accordance with the Well Construction Standards.

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

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program

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	(office use only) No. _____ Hydrologic Unit _____
	Basin _____
	Newspaper _____

RECEIVED

SEP - 8 2008

WATER RIGHTS
PROGRAM

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. 5645-3-1317-3

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

changing well location pursuant to SDCL 46-5-13.1

1. Name of Applicant City of Estelline Phone 605-873-2388
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address P.O. Box 278 Estelline State SD 57234
(Street, RR, or Box and City) (Zip Code)

2. Amount of water claimed no additional CFS or **GPM ***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 Big Sioux : Brookings

4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
Original Plat, Block 34, Lot 5 Section 24-T113N-R51W
County Hamlin

5. County or counties where water will be used Estelline City

6. Annual period during which water is to be used January 1 - December 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)

Replacing existing well in Section 24-T113N-R51W Original Plat, Block 3, Lot 3
due to nitrate issues. Old well will be abandoned and plugged.

STATE OF SOUTH DAKOTA)

County of Hamlin

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, Dan DeWitt, Mayor, 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 Dan DeWitt

Subscribed and sworn to before me this 5th day of September 20 08



Mary Saathoff
Notary Public signature

Exp. 8-2-2011

Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction ****See Attached Test Hole Log**

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

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 _____

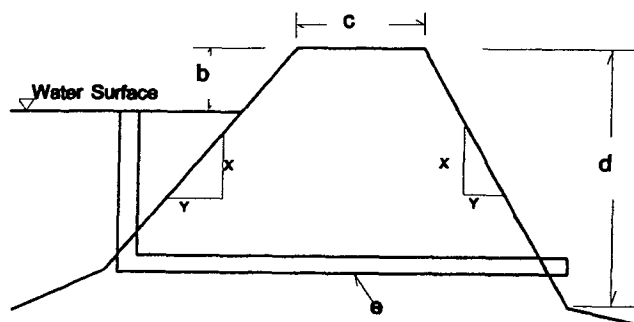
3. Dugout Information

- 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

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SEP - 8 2008

WATER RIGHTS
PROGRAM

Down-Hole Camera
Water Specialists
Irrigation Supplies

9-3-08

In Water Since 1946

LACEY WELL DRILLING, INC.

47582 - 240th St.

Dell Rapids, South Dakota 57022

Telephone (605) 428-5979

Wells — Pumps
Dewatering Work
Test Drilling

City of Estelline

YD or Mary

Fax 873-2394

Test Hole Log

Drilled by: Jim Lacey

Date : 8-27-08

0-4 TOPSOIL

4-22 Bright Gravel

7-SWL

Pumped 60 GPM w/2" pump center

Water Sample by : Big Sioux RW

Nitrate 1.3 mg/L

Report done by : Juan Redder-Lacey

Juan Redder-Lacey

Lacey Well Drilling, Inc.

LN3111

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SEP - 8 2008

WATER RIGHTS
PROGRAM

CITY OF ESTELLINE
COMPREHENSIVE LAND USE PLAN
WATER DISTRIBUTION MAP - 1997



Approval of a Change of Diversion Point

NAME: City of Estelline

ADDRESS: PO Box 278, Estelline SD 57234

DATE: September 15, 2008 **COUNTY:** Hamlin **TELEPHONE:**

BACKGROUND:

Water Right No. 1317-3 appropriates 1.10 cubic feet of water per second (494 gpm) from one well completed into the Big Sioux:Brookings Aquifer located in the SE ¼ SE ¼ Section 23, T113N, R51W for municipal use. The water right has a priority date of January 1, 1910.

Mayor Dan DeWitt has filed a request to change the well location due to a nitrate issue in the existing well. A test hole log was completed to assess production and the nitrate levels at the proposed new location located in the SE ¼ SW ¼ Section 24, T113N, R51W.

Initially, this request was for a change to the diversion point authorized by Water Right No. 5645-3. However, a telephone conversation with Mary Saathoff on September 15, 2008 confirmed that the well authorized by Water Right No. 5645-3 in the NW ¼ NW ¼ Section 25 still exists. Ms. Saathoff also stated that the city has only two wells. Therefore the well to be abandoned is the one associated with Water Right No. 1317-3. The reason for the discrepancy in the well location for Water Right No. 1317-3 is unknown but may be explained in two ways. Either that the well location was not accurately described when the vested water right claim was filed or the well completed in 1910 was replaced at some time after the vested water right was obtained but not recorded with the Water Rights Program.

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

- **Developed water source same as permitted source and no additional water appropriated**

The water source authorized by Vested Water Right No. 1317-3 is the Big Sioux:Brookings Aquifer. The test hole log submitted with the city's request is for a 22 feet deep with 18 feet of gravel. The request indicates the source will continue to be the Big Sioux:Brookings Aquifer.

No additional appropriation of water is requested. The water right appropriates 1.1 cfs. No additional water will be appropriated by the change in the well location.

- **Review of Existing Diversions**

A review of domestic wells and existing water rights in the surrounding sections was conducted.

Using the Water Rights Program's well log database and ArcMap a total of five domestic wells were found in the surrounding sections. The proposed change in diversion point location will move the diversion point away from a domestic well located in the SE ¼ SE ¼ Section 23. The new well location will move the

diversion approximately 2,700 feet closer to the nearest domestic well in the NE ¼ NE ¼ Section 25. The distance between this well will still be approximately one half mile.

A review of water rights was conducted. There are a number of water rights that divert water from the Big Sioux:Brookings Aquifer. In the location of Estelline's existing diversion the closest existing water right (other than the city's Water Right No. 5645-3) is in the SE ¼ Section 23. The proposed change will move this city's diversion to away from this irrigation well. The change will move the well approximately 2,700 feet closer to the wells by Water Right No. 4993A-3 (approximately one mile southeast) and Water Right No. 4342-3 (approximately one mile east). As noted in both cases the wells will be one mile away from the city's new diversion point.

This is not an area where complaints regarding interference between diversion have been received by the Water Rights Program.

CONCLUSION

- The change in the well location does not appropriate additional water.
- The well will still be completed into the Big Sioux:Brookings Aquifer.
- Interference is not expected to be a concern.
- Existing domestic wells should not be adversely impacted by authorizing this change in well location.

RECOMMENDED ACTION

Based on the above criteria, it is recommended that the change of diversion point be authorized under Water Permit No. 2951-3.



Eric Gronlund
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

This change of diversion point does not increase the potential for adverse effects to existing diversions.



Garland Erbele, Chief Engineer
Water Rights Program

SOUTH DAKOTA WATER WELL COMPLETION REPORT

1317-3

07-92

Location SW 1/4 DE 1/4 Sec 24 Twp 113-N Rg 51-W

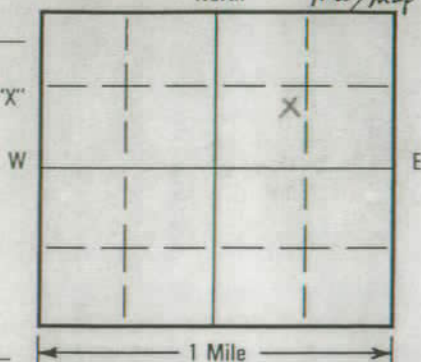
County

North

*RLW/Map

Hamlin

Please mark well location with an "X"



Well-Completion Date

9-26-08

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1500 ft. from Feed lot 061 (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
50 LB/FT	12 IN	+2 FT	158 FT	20 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 Water at 5' Pile at 4 3/4'

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 12 IN Length 5 FEET

Material Stainless steel

Slot Size .080 Set From 15'8" Feet to 20'8" 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?

in pack

Laboratory sent to for water quality analysis

Big Sioux RW

Well Owner:

Business Name:

City of Estelline

Address:

P.O. 278

Estelline, S.D. 57234

WELL LOG:

DEPTH

FORMATION	DEPTH	
	FROM	TO
Gravel	0	1
Silty Clay	1	4
Fine Sand	4	8
Coarse Clean Gravel	8	20'8"

STATIC WATER LEVEL

5

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?

RECEIVED

WELL TEST DATA:

☒ Pumped

Describe:

DEC - 8 2008

☐ Bailed

WATER RIGHTS PROGRAM

☐ Other

Pumping Level Below Land Surface

116 ft. After 1 Hrs. pumped 325 GPM

146 ft. After 1 Hrs. pumped 225 GPM

If pump installed, pump rate GPM

REMARKS

Good little well

This well was drilled under license # 111

And this report is true and accurate.

Drilling firm

Lacey Well Drilling

Signature of License Representative:

Joan Redden

Signature of Well Owner or Equitable Property Holder:

City of Estelline

Date:

12/2/2008