

Map No. V/R Water Division No. 3 BIG SIOUX RIVER District 1
(Blanks to be filled by the Engineer for the S. D. C.)

VESTED RIGHT APPLICATION FOR PERMIT



To Appropriate Water within the State of South Dakota

(NOTE--Draw a line through items not applicable)

- Name of Applicant Town of Jefferson
Postoffice address Box 276, State South Dakota
If a corporation show date and place of incorporation _____
- Method of accomplishing work (contract, employment of others, or by direct labor) _____
- Name of diversion work City Wells
- Amount of water claimed (cubic feet per second) .00
- Source of water supply Ground Water
- Location of point of diversion Both Wells in Lot 10, LaBueches Addition
To Town of Jefferson, Section 20, 00M, 210W
County Union

- Annual period or periods during which water is to be used Municipal
- Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) _____
- For irrigation use, _____ Total number of acres to be irrigated, _____
List below each forty acre subdivision, or lot, or fraction thereof, and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.	Land Description	No. Acres Irr.

Attach sheet if more space is needed

- Time required to complete construction of water supply system completed years. Additional time required to complete application of water to the proposed beneficial use Completed years.
- Choice of newspaper for Notice of Intent to Appropriate Water publication Not Applicable
- Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.

2 Wells Main Line

B. Works proposed to transport water to place of use.

Main Line

C. Works proposed to apply water to beneficial use.

Approx. 250 Forkups

Estimated Total Cost \$ _____

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map.
(See instructions concerning preparation.)

STATE OF SOUTH DAKOTA

City of Jefferson

I, Union of Jefferson, the Applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed BluckSubscribed and sworn to before me this 14 day of November 1977

Notary Public (or other qualified officer)

CITY MAP

1967

JEFFERSON

UNION COUNTY • SOUTH DAKOTA

T 90 N — R 48 W

SCALE
0 300 ft.

POP. 474 (1970)

DRAWN BY

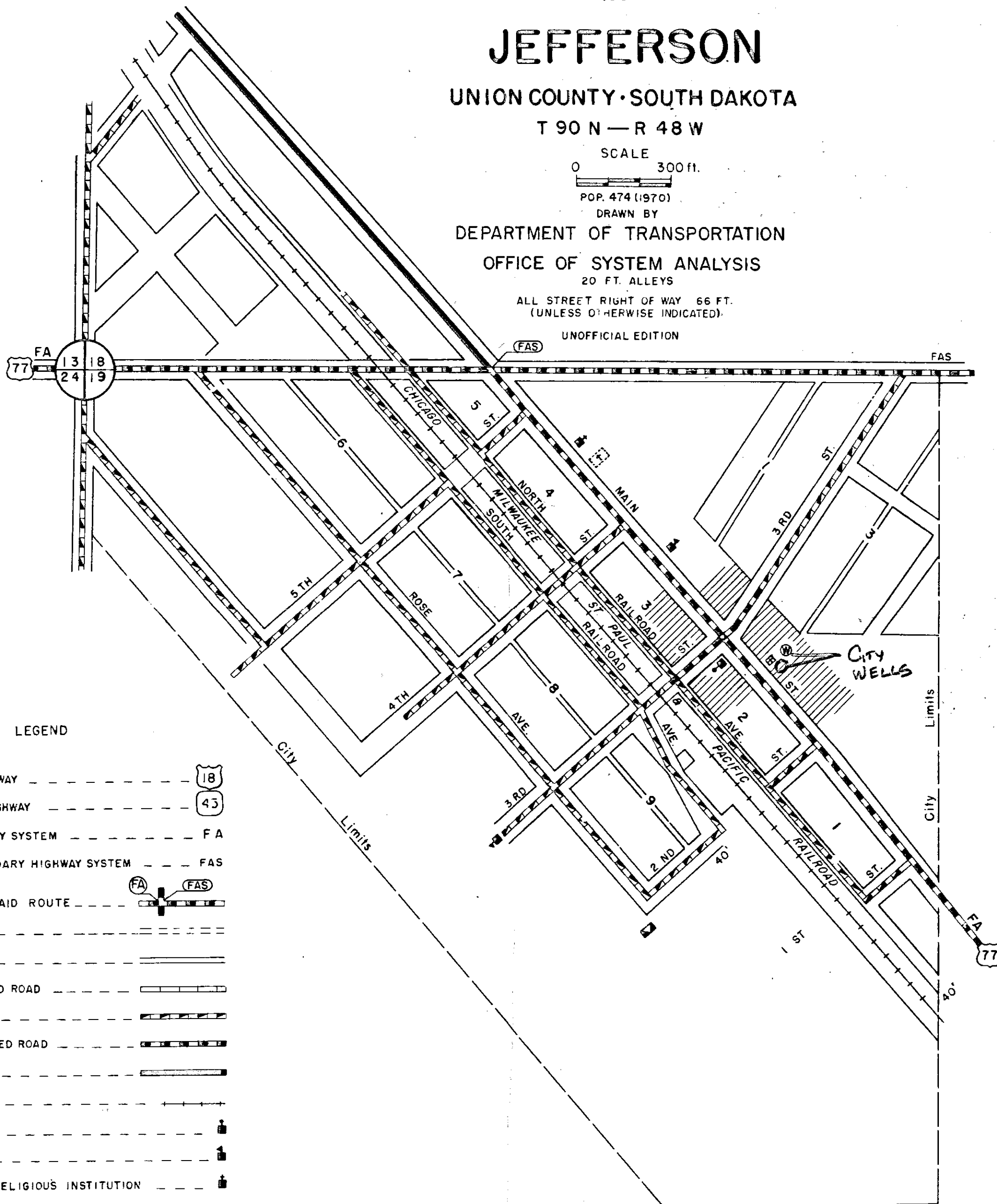
DEPARTMENT OF TRANSPORTATION

OFFICE OF SYSTEM ANALYSIS

20 FT. ALLEYS

ALL STREET RIGHT OF WAY 66 FT.
(UNLESS OTHERWISE INDICATED)

UNOFFICIAL EDITION



LEGEND

- U.S. NUMBERED HIGHWAY ———— 18
- STATE NUMBERED HIGHWAY ———— 43
- FEDERAL AID HIGHWAY SYSTEM ———— F A
- FEDERAL AID SECONDARY HIGHWAY SYSTEM ———— F A S
- END OF FEDERAL AID ROUTE ———— (FA) (FAS)
- PRIMITIVE ROAD ————
- UNIMPROVED ROAD ————
- GRADED AND DRAINED ROAD ————
- GRADED ROAD ————
- BITUMINOUS SURFACED ROAD ————
- PAVED ROAD ————
- RAILROAD ————
- POST OFFICE ————
- SCHOOL HOUSE ————
- CHURCH OR OTHER RELIGIOUS INSTITUTION ————
- FIRE ENGINE HOUSE ————
- CEMETERY ————
- WATER SUPPLY STAND PIPE OR TANK ————
- TOWN CENTER ————
- CENTRAL BUSINESS DISTRICT ————
- WAREHOUSE (GENERAL) GOVT. ————

MAP NO V/R

APPL NO 4207-3

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 4207-3

TOWN OF JEFFERSON
(Applicant)

(Post Office Address)

SOUTH DAKOTA 57038
(State)

With the following modifications:

"VESTED RIGHT" CLAIMED

Date of first receipt of application DECEMBER 30, 1977

Date of return to applicant for correction, amendments or changes required

Date of receipt of corrected application

Approved JANUARY 25, 1978 Recorded in Book 19 Page 268

WATER RIGHT PERMIT NO. 4207-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 4207-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is .45 FROM 1916
.45 FROM 1955
2. The equivalent of at least one-fifth of the work above specified is not completed
3. The whole of said work is not completed
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is COMPLETED
5. The water appropriated shall be used for the purpose of MUNICIPAL USE

6. 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.

7. The amount of the appropriation herein granted shall not exceed .90 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial use, and if for the irrigation purpose, said appropriation may be limited to not more than 3 acre feet per year and be limited to not more than one out of 10 (1/10) of one cubic foot of water per second of the surface area of land to which water USED FOR MUNICIPAL PURPOSES actually and beneficially applied for irrigation on or before JULY 1, 1955; said water to be used during the following described annual period: CONTINUOUSLY

Witness my hand this 1ST day of FEBRUARY, 1978

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer

Certificate of Construction Issued FEBRUARY 1, 1978

Water License Issued FEBRUARY 1, 1978

Form 2A - Wells, Dugouts or Water Storage Dams (Supplement to form 2)

12. Principal Features of the Proposed Water Supply System (continued.)

D. Well Information or Estimates

- (1) Drill Hole, Diameter 10", Depth 00'
- (2) Casing, Type steel (wood, concrete, steel, etc) Diameter 0" Thickness standard
- (3) Perforated Screen.
Type Slotted, Diameter _____, Length 10"
- (4) Gravel Pack, Thickness 1", Length of gravel pack _____

E. Dugout Information or Estimates.

- (1) Surface Dimensions _____, Depth _____

F. Fill out for Either a Well or a Dugout.

- (1) Water Bearing Materials. (Please attach a copy to test well log if available.)

Character of Water bearing materials Sand and Gravel

Depth to top of water bearing material 25'

Depth to bottom of water bearing material 05'

Thickness of water bearing material 75'

Depth to water (ground surface to water level) 20'

- (2) Distance to nearest existing household or livestock watering wells.

On same owner's property 2 rds. On property owned by others 60 ft.

G. Water Storage Dams.

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

Bleeker
Signature of Applicant

STATE OF SOUTH DAKOTA

WATER LICENSE NO. . 4207-3

(1) WHEREAS, On the 30th day of December A. D. 19 77
the Town of Jefferson

made Water Right Application No. 4207-3 vested right
 for ~~permit~~ to use .50 cubic feet per second of the waters
 of ground water
 County of Union, State of South Dakota, for municipal
purposes; and

(2) WHEREAS, On the 1st day of February A. D. 19 78
~~vested right~~ 4207-3, with a date of priority of 1916 & 1955
 was issued to said applicant recognizing for the diversion of said water ~~the~~ completion of construction of the water
 supply system therein described ~~xxxxxx~~ ~~xxxx~~ ~~xxxx~~ and ~~for~~ the
 application to beneficial use of said water ~~xxxxxx~~ ~~xxxxxx~~ ~~xxxxxx~~

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 .50 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 applicatio~~n~~ of water to beneficial use of the following extent,

water is diverted through the town water distribution system

for municipal use

(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 Town of Jefferson

the holder and owner ^{vested right} of said permit No. 4207-3 in water right, dating from 1916 & 1955 to use of .90 cubic feet per second of the waters of ground water

In the County of Union and State of South Dakota, or so much thereof as may be necessary for the purposes hereinafter mentioned, to be diverted at at two points within the city limits in section 24, T90N, R49W

and conduct ~~to and from~~ through the town water distribution system

for the purpose of municipal use

Subject to any limitations listed in Water Right Permit No. 4207-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 1st day of February A. D.
Nineteen Hundred and seventy-eight

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer JOHN HATCH

Form 15.

Permit No. 4207-3

Water Diversion No. 3 Big Sioux River Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That the Town of Jefferson

vested right the holder of
Permit No. 4207-3, issued upon Application No. 4207-3, bearing date of priority of 1916 and
1955 authorizing the diversion of .90 cu. ft. per second of the waters of
ground water County of Union State of South Dakota at
two points within the city limits in Section 24, T90N, R49W
for municipal

purposes, has 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 ~~known~~ **recognized as** satisfactory
condition for diverting and conveying to the place of intended use .90 cu. ft. per second of water.

Date February 1, 1978

By: **WATER RIGHTS COMMISSION**
John Hatch
JOHN HATCH, Chief Engineer

NOTE: This Form is supplemental to Form 2, and is to be used when an affidavit pertaining to construction and water use, already completed, is needed.

AFFIDAVIT OF CONSTRUCTION OF WATER USE SYSTEM AND APPLICATION OF WATER TO BENEFICIAL USE

Name of Applicant (Same as Form 2) Town of JeffersonPost Office Address Box 276, State S.D.

If a Corporation show date and place of incorporation _____

13. Notice of Appropriation (If available)

Date of Posting No Prior Posting Date of Recording _____

Recording Date _____

14. Date of start of construction of water supply system 191615. Date that water was first applied to beneficial use 191616. Name of owner of original water supply system Town of Jefferson17. Amount of water originally applied to beneficial use 1.5 c. f. s.

18. Present Use of Water

Amount of water now being used 20 c. f. s.Date that this amount of water was first used 1955

19. Chronological History of Water Use

City Water Plant and Water Tower Constructed in 1916.
Well No. 1 Drilled in 1916 and replaced in 1950. Well No. 2
Drilled in 1955

Attach to this Form 2B any copies of notices, postings, filings, publications, affidavits, or other records that apply. You may also attach any written statement by you, or by others, that you deem pertinent.

STATE OF SOUTH DAKOTA

County of Blaine)
s

I, Town of Jefferson, the applicant, certify that I have read the foregoing and that the matters therein stated are true.

Signed BleekerSubscribed and sworn to before me this 14 day of November, 19 77

(Notary Public - or other qualified Officer)

I, the undersigned, do hereby certify that I know about the water use system described above that I have read the foregoing and that the matters therein stated are true.

Wells located in
NW 1/4 Sec. 19, T. 90N., R. 18W

4207-3

SOUTH DAKOTA

VESTED WATER RIGHT NO. 4207-3

Date of Receipt of Claim December 30, 1977.

Date of Validation September 30, 1992.

The Water Management Board validated Vested Water Right No. 4207-3 for the Town of Jefferson, P.O. Box 276, Jefferson, South Dakota 57038 with the following limitations, conditions and qualifications:

1. Vested Water Right No. 4207-3 appropriates 0.90 cubic feet per second of water from two wells located in the NW1/4 Section 19, T90N, R48W.
2. The appropriated water is used for supplying water for the Town of Jefferson 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 dates of the Vested Water Right are:
January 1, 1916 - 0.45 cfs
January 1, 1955 - 0.45 cfs
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 may not be unlawfully impaired by this appropriation.

WATER MANAGEMENT BOARD

By: _____

Chief Engineer

MAR 26 1993

date

Division of Water Rights
Dept. of Environment and Natural Resources

4207-3

STATE OF SOUTH DAKOTA

VESTED RIGHT WATER LICENSE NO. 4207-3

(1) The Town of Jefferson of PO Box 276, Jefferson, SD 57038-0276, made Application No. 4207-3, December 30, 1977 for validation of a vested right claim to appropriate 0.90 cubic feet of water per second (cfs) from groundwater (two wells), Union, County, South Dakota, for municipal purposes. Vested Water Right No. 4207-3 was validated September 30, 1992 with priority dates of January 1, 1916 for 0.45 cfs and January 1, 1955 for 0.45 cfs. Construction of the described water supply system and application of water to beneficial use has been completed and complies with applicable provisions of South Dakota State Law.

The original claim and license issued February 1, 1978 did not accurately describe the location of the wells. The claim described both wells as being in Section 24, T90N, R49W. The wells are actually located within the city limits of Jefferson in Section 19, T90N, R48W. The license is being reissued to correct the error.

(2) The vested right owner is entitled to divert 0.90 cubic feet of water per second for beneficial use. The location of the diversion points are: NW 1/4 Section 19, T90N, R48W.

(3) Pursuant to Section 46-5-30.1 the Town of Jefferson of PO Box 276, Jefferson, SD 57038-0276 the holder(s) and/or owner(s) of Vested Water Right No. 4207-3 is issued a license to appropriate 0.90 cubic feet of water per second from groundwater (two wells) with priority dates of January 1, 1916 for 0.45 cfs and January 1, 1955 for 0.45 cfs from the location specified in (2) of this license. The water is to be used for the purpose of municipal use. This license is subject to any limitations, conditions or qualifications listed in Vested Water Right No. 4207-3 and subject to South Dakota State Law.

MAR 25 1993

John Hatch
JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and Natural Resources

4207-3



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING

523 EAST CAPITOL

PIERRE SOUTH DAKOTA 57501-3181

MAR 26 1993

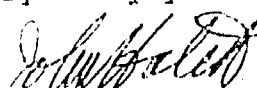
Michaelleen Roark, Finance Officer
Town of Jefferson
PO Box 276
Jefferson SD 57038-0276

Dear Ms. Roark:

The Water Management Board has validated the enclosed Vested Water Right No. 4207-3. This validation gives legal status to the claim and is the final document for your vested right. Enclosed is the reissued water license which reflects the correct legal description of the point of diversion.

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

Request from The City of Jefferson South Dakota to the South Dakota Department of Environment and Natural Resources for the Authorization of a New Well

Due to the collapse of one (1) of the two (2) wells from which the city of Jefferson draws its source water for treatment and distribution, we are formally requesting authorization to drill a new well on our property to supplement the current functional well.

The proposed well is planned to be approximately the same depth as the well it is replacing and will use the same pump as the old well, therefore drawing the same amount of source water to the facility for treatment. This pump has already been purchased to replace the previous pump which was damaged irreparably when the original well collapsed.

The proposed site for the new well has been determined to be to the south of the treatment plant approximately 40 to 50 feet and will be approximately 90 ft deep, utilizing the aforementioned new pump in a pit-less unit. The chain link fence currently surrounding the water treatment area will be extended to secure this well. The location of this well will allow for the future drilling of a second well to replace the remaining original site in the event of its collapse. A main will be run from the new site to the clearwell under the water treatment plant.



4207-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

denr.sd.gov

March 13, 2017

City of Jefferson
c/o Logan Rubida
PO Box 276
Jefferson SD 57038

To Mr. Rubida:

Water Right No. 4207-3 appropriates 0.9 cubic feet of water per second (cfs) from two wells completed in the Elk Point management unit of the Missouri aquifer in the NW ¼ Sec 19, T90N, R48W.

The city filed a request to change the location of one of the diversion points for Water Right No. 4207-3. The diversion point change is necessary to replace a well that has collapsed. The new well location is just to the south of the water treatment plant for the city of Jefferson, approximately 100 feet from the collapsed well, and remains located in the NW ¼ Sec 19, T90N, R48W.

Upon review of the request and pursuant to SDCL 46-5-13.1, the diversion point change for Water Right No. 4207-3 is authorized without application or publication of a notice of hearing pursuant to SDCL 46-2A-4. No increase in the authorized diversion rate has been requested or approved. The collapsed well must be plugged in accordance with South Dakota well construction standards.

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

Sincerely,


Jeanne Goodman, Chief Engineer
Water Rights Program

Request for Change of Diversion Point

NAME: City of Jefferson c/o Logan Rubida

ADDRESS: PO Box 276, Jefferson, SD 57038

DATE: March 8, 2017

COUNTY: Union

TELEPHONE:

BACKGROUND:

Water Right No. 4207-3 appropriates 0.9 cubic feet of water per second (cfs) from two wells (95 feet deep) completed into the Elk Point management unit of the Missouri aquifer located in NW ¼ Sec 19, T90N, R48W for the municipal water supply for the city of Jefferson SD, located in NW ¼ Sec 19, and SW ¼ Sec 18 T90N, R48W and SE ¼ Sec 13, and NE ¼ Sec 24 T90N, R49W. Well completion reports are not on file for the two existing wells.

A letter was submitted to the South Dakota DENR Water Rights Program requesting the change of a diversion point on Water Right No. 4207-3. This new well would replace city well #2, which had collapsed. The new well has not been drilled yet, however it is indicated that the depth will be approximately 90 feet and will use a pump identical to the one it is replacing. The new well will be located 40 to 50 feet south of the water treatment plant, and approximately 100 feet from the collapsed well. Authorization to construct a test well was granted on December 7th, 2016.

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**

The water source authorized by Water Right No. 4207-3 is the Missouri: Elk Point aquifer. The vested right identifies the existing municipal wells are completed to a depth of 95 feet. The proposed well is going to be completed to a depth of approximately 90 feet. Nearby wells indicate that the proposed well will also be in the Missouri: Elk Point aquifer at the approximated depth.

- **No additional water appropriated**

No additional appropriation of water is requested. This request is to add an additional diversion point. Water Right No. 4207-3 appropriates 0.90 cfs (404 gpm) for the municipal water supply from two wells.

Review of Existing Diversions

The well completion report and water rights databases were reviewed for the nearest domestic wells and water rights/permits on file. The nearest domestic well on file and completed into this aquifer is approximately 0.7 miles northeast of the diversion. The nearest water right/permit completed into this aquifer is located approximately 0.2 miles to the south of the diversion. Based upon the small change in distance from other users in the Missouri: Elk Point aquifer, interference is not expected to be a concern.

Observation Well Data

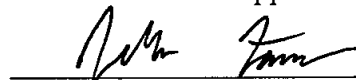
The Water Rights Program has thirty seven observation wells completed into the Missouri: Elk Point aquifer. The nearest observation well completed into this aquifer (UN-87B) is located approximately 0.6 miles east of the well sites. This well was installed in 1987 as a replacement for observation well UN-66G, and their combined water level record goes back to 1966. The record shows that the static water level has fluctuated from 5.7 to 27.2 feet below the top of the casing. Historic water levels in UN-87B show that the aquifer is predominately controlled by climatic conditions with seasonal drawdown presumably due to irrigation.

CONCLUSION

- The change of diversion point does not propose to appropriate additional water.
- The water source continues to be the Missouri: Elk Point aquifer.
- Unlawful impairment of existing water rights/permits and domestic wells is not expected to occur.

RECOMMENDED ACTION

Based on the above criteria, it is recommended that the change of diversion point under Water Right No. 4207-3 should be approved.



John Farmer
Water Rights Program

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

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



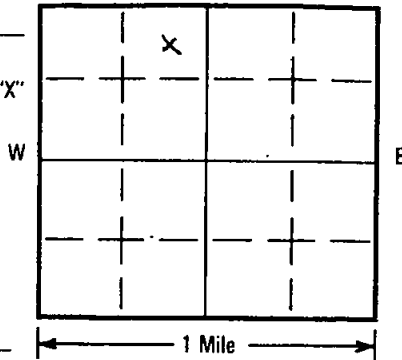
Jeanne Goodman, Chief Engineer
Water Rights Program

SOUTH DAKOTA WATER WELL COMPLETION REPORT

4207-3 07-92

Location NE 1/4 NW 1/4 Sec 19 Twp 90N Rg 48W
County Union North

Please mark well location with an "X"



Well-Completion Date _____

Well Owner: City of Jefferson

Business Name: _____

Address: Jefferson, S.D.

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Clay Gumbo</u>	<u>0</u>	<u>23</u>
<u>Sand</u>	<u>23</u>	<u>40</u>
<u>Sand + Clay Bk</u>	<u>40</u>	<u>50</u>
<u>Sand</u>	<u>50</u>	<u>70</u>
<u>Sand + pebbles</u>	<u>70</u>	<u>80</u>
<u>pebbles + Gravel</u>	<u>80</u>	<u>85</u>
<u>Gravel</u>	<u>85</u>	<u>95</u>

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: Mud RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>200</u> LB/FT	<u>6 1/4</u> IN	_____ FT	_____ FT	<u>13</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>Port Cement</u>	_____	_____ lb./gal	<u>73</u> ft	<u>10</u> ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure Trimming line and
Grout pump (Geo loop)SCREEN: ☒ Perforated pipe ☐ ManufacturedDiameter 6 1/4 IN Length 20 FEETMaterial PVCSlot Size 35 Set From 75 Feet to 95 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? No pump
in well at time.

Laboratory sent to for water quality analysis _____

STATIC WATER LEVEL 23 Feet

If flowing: closed in pressure _____ PSI

GPM flow 50 through 2 inch pipeControlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? Yes

WELL TEST DATA:

☒ Pumped Describe: 50 GPM @ H15.☐ Bailed _____☐ Other _____

Pumping Level Below Land Surface

27 ft. After 4 Hrs. pumped 50 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

RECEIVED

NOV 27 2017

WATER RIGHTS PROGRAM

Missouri: Elk Point

This well was drilled under license # 586

And this report is true and accurate.

Drilling firm Siouxland well CO. INC

Signature of License Representative:

Dennis Walsh

Signature of Well Owner or Equitable Property Holder:

Michael L. RoarkDate: 11-16-2017