

No. 288-1Water Division No. 1 Belle Fourche River
(Blanks to be filled by the Engineer for the W. H. C.)JAN 11 1957
STATE WATER RESOURCES COMM.
PIERRE, SOUTH DAKOTAVESTED RIGHT
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 Belle Fourche
Postoffice address Belle Fourche, County Butte, State South Dakota

I. If a corporation

(a) Name of same

(b) Date and place of incorporation

(c) Amount of capital stock

(d) Amount paid in

(e) Names and addresses of directors

(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)

Contract

(b) Cash on hand, \$

(c) Treasury stock, \$

(d) Bonds to be issued, \$

(e) Other resources, \$

2. Name of diversion work Belle Fourche Water Supply Collection System
3. Amount of water claimed 7.95 acre feet per day max.
2,500,000 G.D. cubic feet per second 4.01
4. Source of water supply Underground flow
5. Location of point of diversion S 64° 36' W 1372.7' from 1/4 Corner common to Sections 27 and 28, T.7. N., R. 2. E., E. 1/4 on Lawrence bank Lawrence County.
6. Annual period or periods during which water is to be used Continuously in varying amounts
7. To be used for: Municipal use

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

(a) Number of acres to be irrigated _____ 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 part of this application. Same must also be shown on accompanying map.)

(c) Statement as to domestic use (giving location, etc.) _____

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 place _____

(d) Method of developing power _____

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

Map No. 262-1

8. Estimated cost of work: 1955 contract.

(a) Head Gates, \$.....

(b) Pumping plant, \$11,000.00

(c) Fluming, \$..... (d) Canal-earth. \$.....

Rock, \$.....

(e) Other structures 10" line \$62,000.00

Total, \$81,010.00

9. Description of diversion works: (collection screen ext. 7,010.00

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

Screens.....

II. Dimensions of works:

(a) Dam: Height.....feet; length at bottom.....feet, length at top.....

feet; thickness at bottom.....feet; thickness at top.....

feet; slope at front water face.....; slope at back face.....

material used in construction.....

(b) Reservoir: Capacity when filled.....acre feet. Surface area at highwater mark.....acres.

DEPTH AT OUTLET-FEET	SURFACE AREA AT EACH.....FEET DEPTH AT OUTLET-ACRES	ACRE-FEET CAPACITY

(c)* Head gate: Width.....feet; height.....feet;

Material.....

(d) Canal: Total length.....miles.

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 work.....Completed.....years: November 8, 1955.

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.....Queen City Mail,
Spearfish, S. Dak.....

STATE OF SOUTH DAKOTA

County of Butte.....} ss.

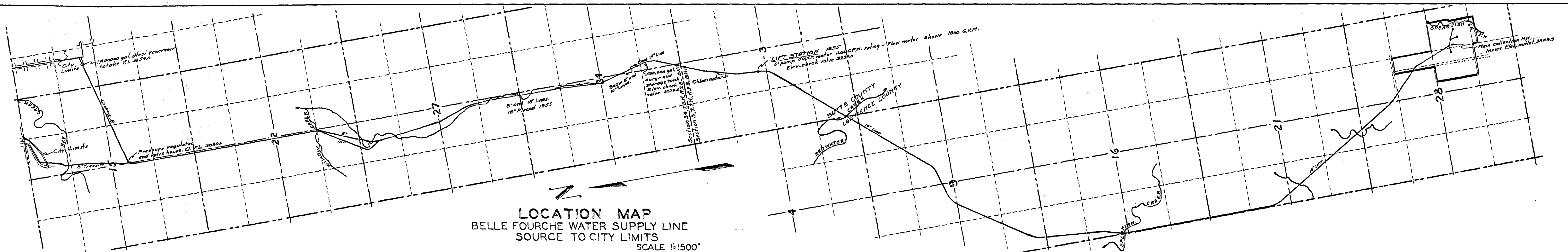
I, HARRY R. STEPHENS, being first duly sworn on my oath depose and say: That my relation to the above described undertaking is that of owner, that I have read the above foregoing statement, examined the map accompanying the same, and that I know of my own personal knowledge that the matters therein stated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

Signed Harry R. Stephens

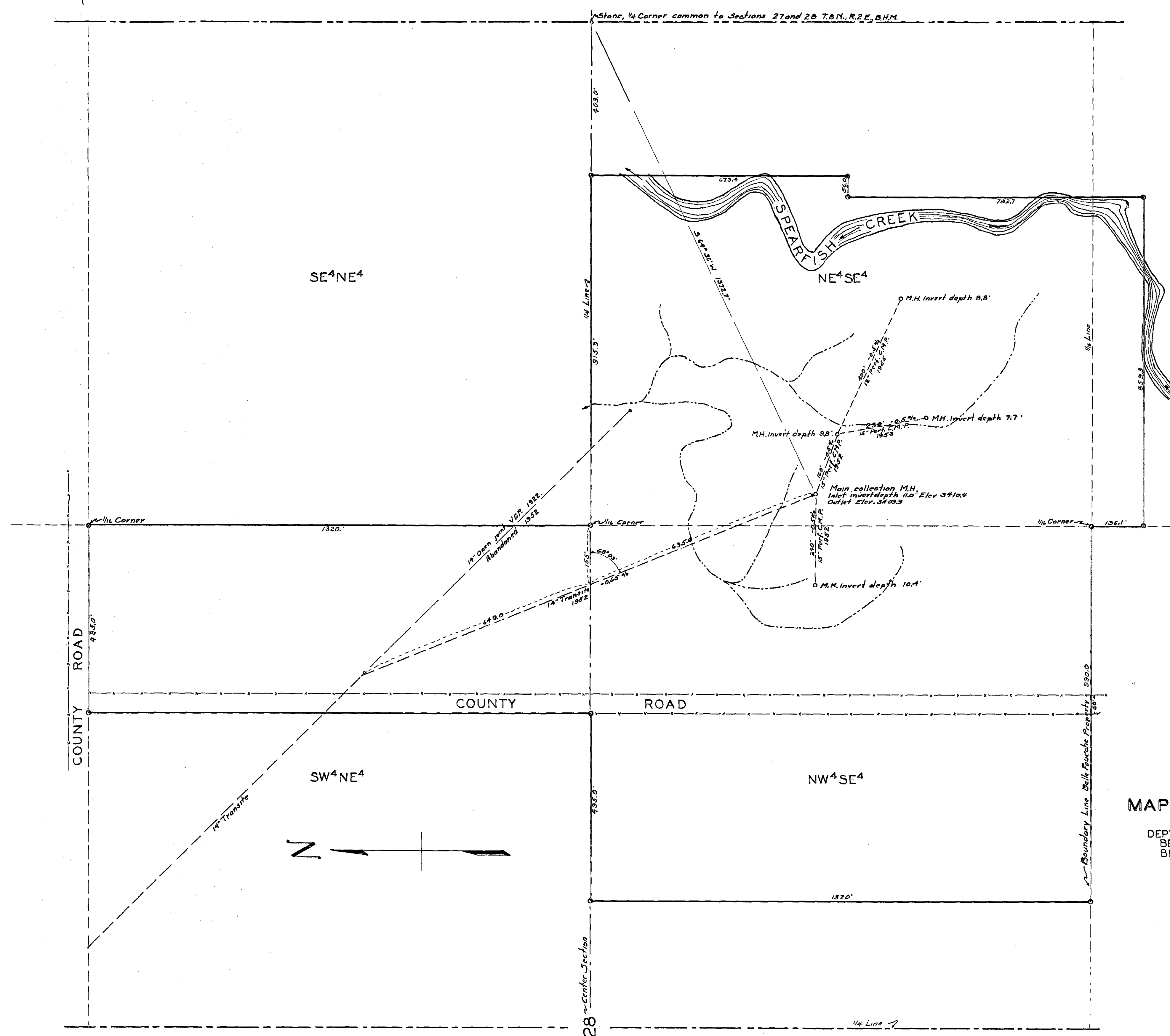
Subscribed and sworn to before me this 7 day of January, 1957

J. Miller, City Auditor
Notary Public (or other qualified officer.)

*Each diversion must have a headgate or measuring device.



LOCATION MAP
BELLE FOURCHE WATER SUPPLY LINE
SOURCE TO CITY LIMITS
SCALE 1"=1500'



MAP OF INTAKE SYSTEM

SCALE 1"=150'
DEPTHS OF COLLECTION GALLERIES
BELOW GROUND SURFACE AVERAGE 8.3'
BELOW WATER TABLE AVERAGE 4.0'

SURVEYOR'S CERTIFICATE

I, Ben Wood, a Registered Land Surveyor in the State of South Dakota, hereby certify, that I have tied, by course and distance, the quarter corner common to Sections 27 and 28, T.7 N., R.2 E., B.H.M., to the outlet manhole of the underground collection system of the City Water Supply System, City of Belle Fourche, South Dakota, as platted on the Map of the Intake System.

Ben Wood
Registered Land Surveyor.

STATE OF SOUTH DAKOTA } ss
COUNTY OF BUTTE

On this 22 day of January, 1957, before me the undersigned notary public, personally appeared Ben Wood, known to me to be the person who executed the foregoing instrument and he acknowledged to me that he executed the same.

Leola P. Miller
Notary Public

My commission expires Feb. 15, 1959

Map No. 262-1
Appl. No. 288-1

PLAT TO ACCOMPANY APPLICATION FOR PERMIT TO APPROPRIATE WATER WITHIN THE STATE OF SOUTH DAKOTA

LOCATION OF SOURCE: NE 1/4 SEC. 28, T.7 N., R.2 E., B.H.M.
APPLICANT: CITY OF BELLE FOURCHE, SOUTH DAKOTA.
PRESENT USE: MUNICIPAL WATER SUPPLY.
TYPE OF APPROPRIATION: VESTED RIGHTS.
ORIGINAL SYSTEM CONSTRUCTED 1922 CAPACITY 1.39 CFS
COLLECTION SYSTEM IMPROVED 1952 CAP. INCREASE 0.31 CFS
1955 IMPROVEMENTS - CONTRACT LET APRIL 26 -
CONSTRUCTION STARTED JUNE 11 - 10" LINE INTO
OPERATION OCTOBER 20 - LIFT STATION PUMP
HOOKUP NOVEMBER 8 CAPACITY INCREASE 2.31 CFS
TOTAL 4.01 CFS

Remarks by State Water Resources Commission:

"Vested Rights" recognized

STATE OF SOUTH DAKOTA

County of Dugess

ss.

Pierre, South Dakota,

January 14, 1927

This is to certify that the foregoing application was received by the Commission at 8:30 o'clock

a.m. upon the 10 day of January, 1927

State Water Resources Commission

By:

Geo. Brinner

Chief Engineer, Executive Officer

Vested Right
Number of Permit 288-1

Date of first receipt of application

January 10, 1927

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

January 14, 1927

Date of receipt of corrected application

February 26, 1927

Date from which applicant may claim right

1921, 1927

Approved

March 26, 1927

Recorded in Book

4

Page

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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

Completed, 1927

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

Completed

, 1927

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

Completed, 1927

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 4.01 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 of crops in the exercise of the best husbandry, and further, said appropriation must be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before January 14, 1927; said water to be used during the following described annual period:

Continuously

Witness my hand this

27

day of

April

, 1927

State Water Resources Commission

By:

Geo. Brinner

Chief Engineer, Executive Officer

Certificate of Construction issued

April 27

, 1927

Water License issued

April 27

, 1927

STATE OF SOUTH DAKOTA

WATER LICENSE No. 288-1

WHEREAS, On the 10th day of January A. D. 1957

the City of Belle Fourche

of Belle Fourche County of Butte and State of

South Dakota duly made application (No. 288-1) to us for a Vested Right permit to use 4.01

cubic feet per second of the waters of ground water

County of Butte, State of South Dakota for municipal purposes; and

WHEREAS, On the 27th day of April A. D. 1957

Vested Right Permit No. 288-1 was issued to said applicant for the diversion of said water, and recognizing

completion of the works of diversion therein described ~~XXXXXXXXXXXX~~

in 1921 ~~XXXXXX~~ and ~~XXXXXX~~ application to beneficial use of said

water ~~XXXXXXXXXXXX~~ ~~XXXX~~ in 1921 ~~XXXXXXXXXXXX~~ and,

WHEREAS, On the 26th day of February A. D. 1957

vested right the holder of said permit duly made proof of the completion of adequate works for the diversion of 4.01

cubic feet per second of said waters, as evidenced by our Certificate No. 288-1

dated April 27, 1957 confirming the completion of works of sufficient capacity for

diverting and conveying to the place of intended use 4.01 cubic feet per second of water, with date of

priority of 1921 ~~XXXX~~ and,

WHEREAS, On the 26th day of February A. D. 1957

proof was duly made of the application to beneficial use of 4.01 cubic feet per second of said water;

in the distribution system of the City of Belle Fourche

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 Belle Fourche vested right
 of Belle Fourche, South Dakota the holder and owner of said permit No. 283-1
 a water right, dating from 1921 to the use of 4.01
 cubic feet per second of the waters of ground water
 in the County of Butte and State of South Dakota, or so much thereof as may be
 necessary for the purposes hereinbelow mentioned, to be diverted at 1372.7 feet, S. 64° 36' W
of the 1/2 Cor., Common to Sections 27 and 28, T 7 N, R 2 E
 and conducted to ~~xxxxxx~~ the residents of the City of Belle Fourche
 for the purpose of municipal use

subject, however, to the laws of the State of South Dakota applicable to a license for the use of the waters of the State, and subject, also to the local or community customs, rules and regulations which have been or may be adopted from time to time by a majority of the users from a common source of supply, canal or lateral from which such water may be taken, when such rules and regulations have for their object the economical use of such water.

WITNESS, My hand and seal of our office at Pierre, South Dakota,
 this 27th day of April A. D. Nineteen
 Hundred and fifty-seven

State Water Resources Commission

By:

J. W. GRIMES, Chief Engineer, Executive Officer

STATE OF SOUTH DAKOTA

Water License No. _____

To _____

Source of Supply _____

County _____

Amt _____ c. f. s.

Point of Diversion _____

Place of Use _____

Purpose _____

Date of Priority _____

Recorded _____

In Book _____ of _____ Page _____

Permit No. 288-1Water Division No. 1 Belle Fourche River Water District**Certificate of Completion of Works**

TO ALL WHOM IT MAY CONCERN:

This is to Certify, That the City of Belle Fourcheof Belle Fourche, County of Butte, and State of South Dakota, the holder Vested Right of Permit No. 288-1 issued upon ApplicationNo. 288-1 bearing date of priority of 1921, authorizing the diversion of4.01 cu. ft. per second of the waters of ground waterCounty of Butte, State of South Dakota, at 1372.7 feetS 64° 36' W of the 1/4 Cor., Common to Sections 27 and 28, T 7 N,R 2 E, for municipalpurposes, has fully complied with the provisions of the laws of the State of South Dakota relating to proof of Vested Right

completion of the works of diversion set out and described in said Permit; that said works are found in satisfactory

condition for diverting and conveying to the place of intended use 4.01 cu. ft.

per second of water; and that the lands proposed to be irrigated by the use of said water are described as follows,

to-wit: to furnish municipal water to the distribution system ofthe City of Belle Fourche.Witness my hand this 27th day of April A. D. 1957.

State Water Resources Commission

By:

J. W. GRIMES, Chief Engineer, Executive Officer

Form 2A -- Wells (Supplement to Form 2)

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 _____ Corrugated Metal Pipe.

Size of perforated screen _____, _____
12" 400'
15" 600'
(diameter) (length)

Thickness of gravel pack _____ 4.0', length of gravel pack _____ 1000'

(c) Water Bearing Materials

Distance to water _____ Average 4.3' Character of water bearing materials _____ River gravel
and sand _____

Thickness of water bearing material _____ Undetermined

(d) Pump and Motor

Type of pump _____ Centrifugal, split housing, double suction.
(centrifugal, propeller, mixed flow, etc.)

Name of pump _____ Chicago _____, size _____ 6"

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

Horsepower _____ 50 _____, Name of Motor _____ Reliance

(e) Complete well

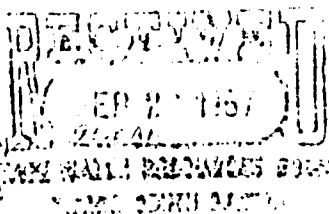
Capacity _____ 4.17 CFS at drawdown of _____ 72 hrs. _____ Estimated cost _____ \$25,000.00

(f) Owner of land upon which well is located _____ City of Belle Fourche
Name

_____ Belle Fourche, South Dakota.
Address

(g) Distance to nearest existing wells

On same owner's property _____ 33 rods. On property owned by others _____ 66 rods
Both domestic use.

Location No. 288-1Water Division No. 1Water District Belle Fourche River

Proof of Application of Water to Beneficial Use

PETITION OF HOLDER

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

Ans. Ben Wood, 204 Linnards Street, P. O. Box 1, Belle Fourche, South Dakota.

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 Belle Fourche, South Dakota, City Engineer.

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

Ans. _____

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

Ans. Underground flow in the NE 1/4 Section 28, T. 2 N., R. 2 E., S. 10 N.
S 64°36" W 1372.7' from quarter corner common to Sections 27 and 28.

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. 1030' underground collection screens, 5.71 miles 14" pipe, 3.92 miles 3"
and 10" pipe (double line), 4.01 CFS capacity (flowmeter measurement)
lift pump. City Water Supply System. Improvements completed November 8, 1955

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. Municipal use, City of Belle Fourche.

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. _____

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. _____

Ques. 10. State when, how, in what amount and to what extent, the water diverted under above mentioned permit has been used.

Ans. Original construction 1921 and 1922. Capacity 1.39 CFS. 1955 improvements, contract let April 26, construction started June 11, construction completed November 8, 1955. Capacity with pump operating 4.01 CFS.

(Sign) Bur Wood

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me, at my office in Belle Fourche, County of Butte

State of South Dakota, on this 21st day of February, A. D. 1957

W. E. Mueller } Witnesses. City Auditor

I, the undersigned, do hereby certify that I am a duly qualified elector residing in the immediate vicinity of the diversion works designated in the foregoing testimony, that I have no interest in the works, water or land above described, that I have read the foregoing testimony and that I know of my own personal knowledge that the matters therein stated are true.

Frank E. Barber
Shepherd Lake

Location No. _____

**PROOF OF APPLICATION OF
WATER TO BENEFICIAL USE**

PETITION OF HOLDER

Amount of Water _____ c. f. s.

Source _____

County _____

Purpose _____

Place of Use _____

Date of recording _____

Received and filed _____

Additional information relative to the Belle Fourche Co., Dak.
Water Supply System.

The source consists of a series of springs. The water is all picked up underground by clay sewer pipe laid with open joints. The water filters through gravel placed around the pipe and is discharged into a collecting chamber. The main supply line leading out of the collecting chamber is 15" . This line is 1320' long and is then reduced to 14", the 14" is 5 3/4 miles long and at this point there is a 500,000 gallon tank set. From the tank to town the line is 8" and is 4 miles long.

At the edge of the city limits there is a regulating valve where the pressure is cut from 140 pounds to 70 pounds. Inside the city limits is another concrete tank, capacity 200,000 gallons. This 200,000 gallon tank is a reserve tank and is only used for emergencies. Then the rest of of the system consists of the usual distribution system found in any city.

The original cost of this supply line up to the city limits was \$150,000.00 and was completed in 1923. The original line was wood stave pipe. Nearly all of this wood stave pipe has now been replaced by a permanent pipe.

RECEIVED

DEC 8 1923

OFFICE OF STATE ENGINEER
PIERRE, S. DAK