

Water Right Number 1031-2

1. Considered 1-19 A MEMBER TO, 19 72
2. Name of Applicant CITY OF GREGORY
3. Post Office Address GREGORY, S.D.
4. Amount of water claimed .63
5. Source of water supply GROUND WATER
6. Water to be used for MUNICIPAL USE

Acres to be irrigated 7

7. Water to be diverted and used in GREGORY County
about 15 2 1/2 W Miles of Gregory

8. Proof of Publication

Received [initials] 1-18-72

Not received _____

9. Application

Approved _____

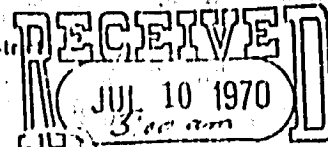
Subject to _____

Not approved _____

Action deferred _____

10. Remarks:

ONLY PUBLISHED ONCE
HAS BEEN READVERTISED FOR THIS MEETING

No. 1031-2Map No. 894-2 Water Division No. 2 WHITE RIVER District
(Blanks to be filled by the Engineer for the W. R. C.)

APPLICATION FOR PERMIT

STATE WATER RESOURCES COMM.
PIERRE, SOUTH DAKOTA

To Appropriate Water within the State of South Dakota

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

1. Name of Applicant City of Gregory
 Postoffice address Gregory State South Dakota
 If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract
3. Name of diversion work _____
4. Amount of water claimed (cubic feet per second) 0.33 cu. ft. sec.
5. Source of water supply Ground Water
6. Location of point of diversion N1/2SW1/4 & NW1/4SE1/4 of Section 16, Township 97
North, Range 72 West of the 5th principal meridian
 County Gregory
7. Annual period or periods during which water is to be used 12 months
8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) Municipal
9. ~~For irrigation use~~ For municipal use Total number of acres to be irrigated _____

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

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 1 year. Additional time required to complete application of water to the proposed beneficial use _____ years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Gregory Times Advocate
12. Principal Features of the Proposed Water Supply System.
- A. Works proposed to divert water from its natural source.
- Wells
- B. Works proposed to transport water to place of use.
- Subsurface Water Mains
- C. Works proposed to apply water to beneficial use.

Estimated Total Cost \$96,000.00

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

County of GregoryI, Lloyd Harrison 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.

CITY OF GREGORY, S.D.

Subscribed and sworn to before me this

Signed

day of

Mayor

19 70
Caroline Johnson
 Notary Public (or other qualified officer)

TOWNSHIP 97 NORTH

RANGE 73W RANGE 72W

SCALE: 5" = ONE MILE

8

TOTAL LENGTH PERMANENT PIPELINE

14,275.5 FEET

WELL FIELD

SURVEYORS CERTIFICATE:

I, E. Lyle Kinport, a duly registered Professional Engineer and Land Surveyor in the State of South Dakota, do hereby certify that the accompanying map shows the location of the proposed Water Transmission Main Development Plan for the City of Gregory, South Dakota, which traverses the lands herein described.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 19th day of August 1971.

E. Lyle Kinport
Registered Professional Engineer and Land Surveyor

STATE OF SOUTH DAKOTA } ss
COUNTY OF DAVISON }

On this 19th day of August, 1971, before me the undersigned of ficer, personally appeared E. Lyle Kinport, known to me to be the person whose name is subscribed to the within Surveyors Certificate and he acknowledged to me that he executed the same for the purpose therein contained.

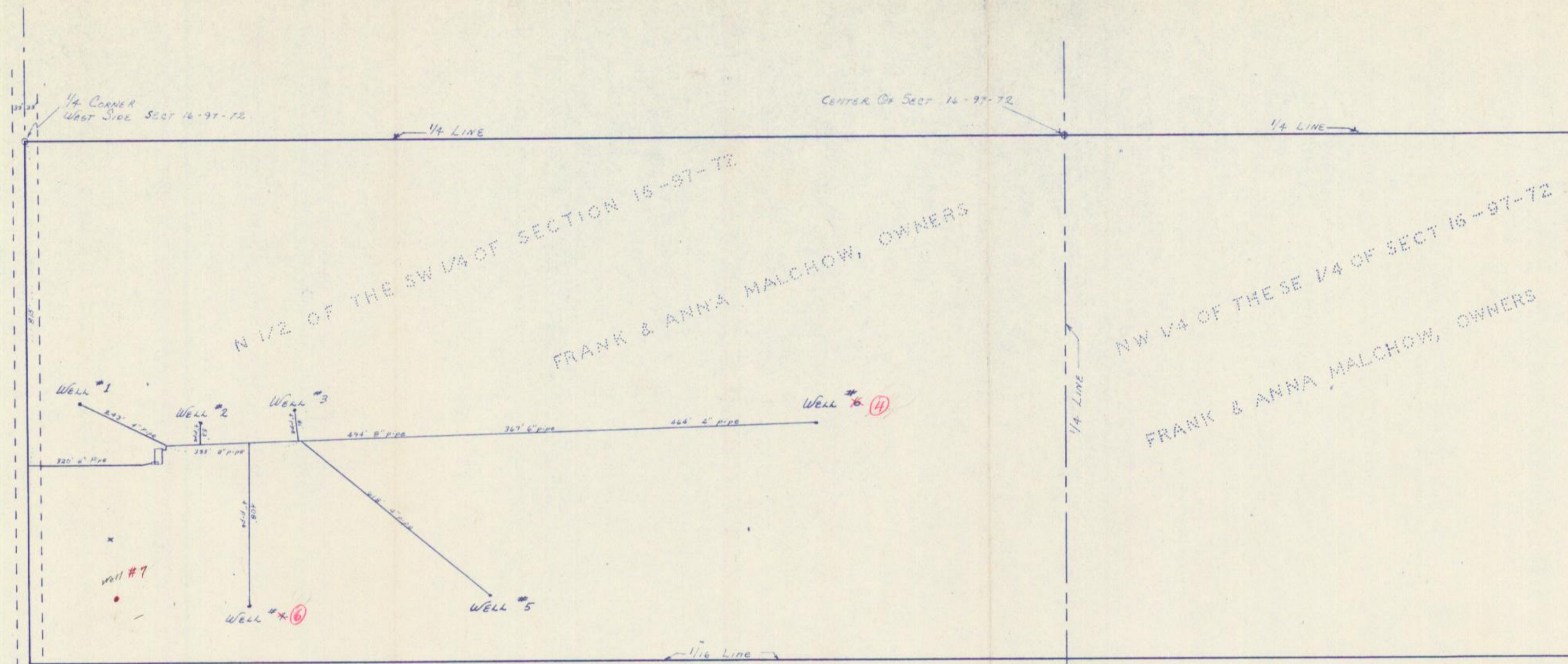
IN WITNESS WHEREOF, I have set my hand and seal.
My Commission Expires: February 28, 1975.

Ruth J. Huffman
Ruth J. Huffman, Notary Public

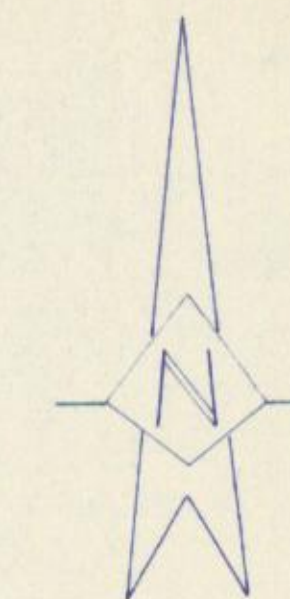
MAP SHOWING LOCATION OF ROUTE
MUNICIPAL WATER TRANSMISSION MAIN DEVELOPMENT PLAN
CITY OF GREGORY, S. D.

1971

MAP NO 894-2 (APPL NO 1031-2)
2-Maps



Note: Red Numbers are City of Gregory's well designations.



SCALE: 1" = 200'

POINT OF DIVERSION:

Any Point Within The N 1/2 Of SW 1/4 And The NW 1/4 Of SE 1/4 In Section 16-97-72 Which Is Feasible For Well Construction.

PROPOSED:

LOCATIONS OF WELL SITES FROM W. 1/4 COR.

WELL NO.	EAST ALONG 1/4 LINE	SOUTH FROM 1/4 LINE
1	132 FEET	665 FEET
2	441 FEET	712 FEET
3	680 FEET	680 FEET
* 6	560 FEET	1179 FEET
5	1174 FEET	1152 FEET
* 4	2008 FEET	722 FEET
7	220 FEET	1165 FEET

PROPOSED:

PERMANENT PIPELINE INSTALLATION LOCATED AS SHOWN

1149 FEET - 8 INCH PIPE
367 FEET - 6 INCH PIPE
1867 FEET - 4 INCH PIPE

SURVEYORS CERTIFICATE:

I, E. Lyle Kimport, a duly registered Professional Engineer and Land Surveyor in the State of South Dakota, do hereby certify that the accompanying map shows the location of the proposed Municipal Well Field Development Plan for the City of Gregory, South Dakota, which is located in the N 1/2 of the SW 1/4 and the NW 1/4 of the SE 1/4 of Section 16, Township 97 North, Range 72 West of the 5th P.M., Gregory County, South Dakota.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 19th day of August, 1971

E. Lyle Kimport
Registered Professional Engineer and Land Surveyor

STATE OF SOUTH DAKOTA)
COUNTY OF DAVISON) ss

On this 19th day of August, 1971, before me the undersigned officer, personally appeared E. Lyle Kimport, known to me to be the person whose name is subscribed to the within Surveyors Certificate and he acknowledged to me that he executed the same for the purpose therein contained.

IN WITNESS WHEREOF, I have set my hand and seal.
My Commission Expires: February 26, 1975.

Ruth J. Hoffman
Ruth J. Hoffman, Notary Public

MUNICIPAL WELL FIELD DEVELOPMENT PLAN CITY OF GREGORY, S. D.

IN THE N 1/2 OF SW 1/4 AND NW 1/4 OF SE 1/4
SECTION 16, T97N, R72W OF THE 5TH P.M.
GREGORY COUNTY, S. D.

WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 1031-2

CITY OF GREGORY
(Applicant)
SOUTH DAKOTA
(State)

(Post Office Address)

With the following modifications:

Date of first receipt of application JULY 10, 19 70

Date of return to applicant for correction, amendments or changes required JULY 14, 19 70

Date of receipt of corrected application AUGUST 20, 19 71

Approved JANUARY 19, 19 72, Recorded in Book 12, Page 51

WATER RIGHT PERMIT NO. 1031-2

The Water Resources Commission hereby grants and issues this Water Right Permit No. 1031-2 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 AUGUST 30, 19 71
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 19, 19 72
3. The whole of said work is to be completed on or before JANUARY 19, 19 73
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 19, 19 73
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 .63 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 must be limited to not more than 2 1/2 feet per acre per year and be limited to not more than one inch in the 150) of annual fact of water per amount of time for each acre of land to which water is~~
USED FOR MUNICIPAL PURPOSES
actually and beneficially applied for irrigation on or before JANUARY 19, 19 73; said water to be used during the following described annual period: CONTINUOUSLY

Witness my hand this 20TH day of JANUARY, 19 72

WATER RESOURCES COMMISSION

By:

[Signature]
Chief Engineer, Executive Officer

Certificate of Construction Issued APRIL 20, 19 76

Water License Issued APRIL 20, 19 76

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1031-2

(1) WHEREAS, On the 10th day of July A. D. 19 70
the City of Gregory

made Water Right Application No. 1031-2 for a permit to use .63 cubic feet per second of the waters
of ground water

County of Gregory, State of South Dakota, for municipal

purpose and
 (2) WHEREAS, On the 20th day of January A. D. 19 73

Permit No. _____, with a date of priority of August 30, 1971

was issued to said applicant _____, for the diversion of said water, and provided for the completion of construction of the water
 supply system therein described on or before the 19th day of January A. D. 19 73 and for the

application to beneficial use of said water on or before the 19th day of January A. D. 19 73

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 .60 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 us used for municipal purposes by the City of Gregory

(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 Gregory

~~XXXX~~

the holder _____ and owner _____ of said permit No. 1031-2 a water right, dating from August 30, 1971 to use of .60 cubic feet per second of the waters of ground water

in the County of Gregory and State of South Dakota, or so much thereof as may be necessary for the purposes hereinafter mentioned, to be diverted at _____

Wells #1 thru #7 are located in the N $\frac{1}{2}$ SW $\frac{1}{4}$ and NW $\frac{1}{4}$ SE $\frac{1}{4}$,

Section 16, T97N, R72W

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

for the purpose of municipal use

Subject to any limitations listed in Water Right Permit No. 1031-2 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 April A. D.

Nineteen Hundred and Seventy-six

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer **JOHN HATCH**

Form 15.

Permit No. — 1031-2

Water Diversion No. 2 WHITE RIVER Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That the City of Gregory

_____ the holder _____ of
Permit No. 1031-2, issued upon Application No. 1031-2, bearing date of priority of August 30,
1971 authorizing the diversion of .63 cu. ft. per second of the waters of _____
ground water County of Gregory, State of South Dakota at **
Wells #1 thru #7 are located in the N $\frac{1}{2}$ SW $\frac{1}{4}$ and NW $\frac{1}{4}$ SE $\frac{1}{4}$,
Section 16, T97N, R72W

_____, for municipal use

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; the said works are found in satisfactory
condition for diverting and conveying to the place of intended use .60 cu. ft. per second of water.

Date April 20, 1976

WATER RIGHTS COMMISSION

By:

John Hatch

JOHN HATCH, Chief Engineer

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 Municipal Well #1

(1) Drill Hole, Diameter 3 1/2", Depth 75'

(2) Casing, Type steel Diameter 18" Thickness 12 Gauge Galv. steel
(wood, concrete, steel, etc)

(3) Perforated Screen.

Type steel, Diameter 18", Length 30'

(4) Gravel Pack. Thickness _____, 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 (SEE ATTACHED TEST WELL LOG)

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

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

On same owner's property _____ rds. On property owned by others _____ rds.

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.

CITY OF GREGORY, South Dakota

Lloyd Harrison
Signature of Applicant Mayor

DRILLER'S LOG OF WELL #1

Location of Well: _____ 1/4, _____ 1/4, Section _____, Township _____, Range _____

Well to be drilled for: City of Gregory Gregory, South Dakota
(Name) (Address)

Owner of land (if other than above) _____
(Name) (Address)

Date well drilling started 6-8-70 finished 6-10-70

Purpose of well Municipal
(domestic, irrigation, municipal, industrial, other)

Diameter		Inches	
0-4	Feet	Top Soil	Ground Surface Elevation: _____ (If Available)
4-8	Feet	Sand & Magnesia	
8-65	Feet	Fine sand	Kind and thickness of casing to be installed: <u>12 Gauge Galvanized Steel</u>
65-66	Feet	Magnesia	
66-70	Feet	Fine sand	Size of casing to be installed: _____ <u>75</u> ____ feet of <u>18</u> ____ inches diameter _____ <u> </u> ____ feet of <u> </u> ____ inches diameter _____ <u> </u> ____ feet of <u> </u> ____ inches diameter
70-75	Feet	Magnesia	
			Type of Seal between casing sizes: _____ _____
			Kind of perforated screen to be installed: Material <u>Steel</u> (steel, wood, concrete, etc.)
			Size of Screen: Diameter <u>18</u> inches Length <u>30</u> feet Size openings <u>1/8</u> inches
			Depth below ground surface to which water rises In well <u>35</u> feet.

73-75

Clay

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

C. Well Information or Estimates Municipal Well #2

(1) Drill Hole, Diameter 36", Depth 69'

(2) Casing, Type steel Diameter 18" Thickness 12 Ga. Galv. Steel
(wood, concrete, steel, etc)

(3) Perforated Screen.

Type steel, Diameter 18", Length 30'

(4) Gravel Pack, Thickness _____, Length of gravel pack _____

D. Dugout Information or Estimates.

(1) Surface dimensions _____, Depth _____

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

(SEE ATTACHED COPY OF TEST WELL LOG)

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

Character of Water bearing materials _____

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

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

On same owner's property _____ rds. On property owned by others _____ rds.

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.

CITY OF GREGORY, South Dakota

Joseph Harrison
Signature of Applicant Mayor

DRILLER'S LOG OF WELL #2

Location of Well: _____ 1/4, _____ 1/4, Section _____, Township _____, Range _____

Well to be drilled for: City Of Gregory Gregory, South Dakota
(Name) (Address)

Owner of land (if other than above) _____
(Name) (Address)

Date well drilling started 6-11-70 finished 6-13-70

Purpose of well Municipal
(domestic, irrigation, municipal, industrial, other)

Diameter <u>36</u> Inches			
<u>0-4</u> Feet		Top Soil	Ground Surface Elevation: _____ (If Available)
<u>4-16</u> Feet		Magnesia	Kind and thickness of casing to be installed: <u>12 Gauge Galvanized Steel</u>
<u>16-62</u> Feet		Sand	Size of casing to be installed: <u>69</u> feet of <u>18</u> inches diameter
<u>62-66</u> Feet		Magnesia	_____ feet of _____ inches diameter
<u>66-69</u> Feet		Clay	_____ feet of _____ inches diameter
			Type of Seal between casing sizes: _____ _____ _____
			Kind of perforated screen to be installed: Material <u>Steel</u> (steel, wood, concrete, etc.)
			Size of Screen: Diameter <u>18</u> inches Length <u>30</u> feet Size openings <u>1/8</u> inches
		Water bearing material	Depth below ground surface to which water rises In well <u>36</u> feet.

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

D. Well Information or Estimates Municipal Well #3

(1) Drill Hole, Diameter 36", Depth 55'

(2) Casing, Type steel, Diameter 18", Thickness 12Ga. Galv. Steel
(wood, concrete, steel, etc)

(3) Perforated Screen.

Type steel, Diameter 18", Length 30'

(4) Gravel Pack. Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates.

(1) Surface dimensions _____, Depth _____

F. Fill out for Either a Well or a Dugout. (SEE ATTACHED COPY OF TEST WELL LOG)

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

Character of Water bearing materials _____

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

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

On same owner's property _____ rds. On property owned by others _____ rds.

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.

CITY OF GREGORY, South Dakota

Lloyd Harrison
Signature of Applicant Payor

DRILLER'S LOG OF WELL #3

Location of Well: _____ 1/4, _____ 1/4, Section _____, Township _____, Range _____

Well to be drilled for: City Of Gregory Gregory, South Dakota
(Name) (Address)

Owner of land (If other than above): _____
(Name) (Address)

Date well drilling started 6-16-70 finished 6-18-70

Purpose of well: Municipal
(domestic, irrigation, municipal, industrial, other)

Diameter
36
Inches

0-3 Feet	Top Soil	Describe kind of materials drilled through (add layers on back of form if necessary)
3-15 Feet	Sand & Magnesia	
15-25 Feet	Sand Fine	
25-55 Feet	Magnesia	
55-57 Feet		
57-60 Feet	Sand & Magnesia	
60-65 Feet	Clay	

Ground Surface Elevation: _____
(If Available)

Kind and thickness of casing to be installed:
12 Gauge Galvanized Steel

Size of casing to be installed:
60 feet of 18 inches diameter
_____ feet of _____ inches diameter
_____ feet of _____ inches diameter

Type of Seal between casing sizes:

Kind of perforated screen to be installed:
Material Steel
(steel, wood, concrete, etc.)

Size of Screen:
Diameter 18 inches
Length 30 feet
Size openings 1/8 inches

Depth below ground surface to which water rises
In well 25 feet.

Water bearing material

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

D. Well Information or Estimates

Municipal Well #4

(1) Drill Hole, Diameter 36", Depth 65'

(2) Casing, Type steel Diameter 18" Thickness 12 Ga. Galv. steel
(wood, concrete, steel, etc)

(3) Perforated Screen.

Type steel, Diameter 18", Length 30'

(4) Gravel Pack. Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates.

(1) Surface dimensions _____, Depth _____

F. Fill out for Either a Well or a Dugout. SEE ATTACHED COPY OF TEST WELL LOG)

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

Character of Water bearing materials _____

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

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

On same owner's property _____ rds. On property owned by others _____ rds.

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.

CITY OF GREGORY, South Dakota

Lloyd Harrison
Signature of Applicant Mayor

DRILLER'S LOG OF WELL #4

Location of Well: _____ 1/4, _____ 1/4, Section _____, Township _____, Range _____

Well to be drilled for: City Of Gregory Gregory, South Dakota
(Name) (Address)

Owner of land (If other than above) _____ (Name) _____ (Address)

Date well drilling started 6-18-70 finished 6-20-70

Purpose of well Municipal
(domestic, irrigation, municipal, industrial, other)

		Diameter <u>36</u> Inches		
0-3	Feet		Top Soil	Ground Surface Elevation: _____ (If Available)
3-34	Feet		Sand & Coarse Magnesia	Kind and thickness of casing to be installed: <u>12 Gauge Galvanized Steel</u>
			Describe kind of materials drilled through (add layers on back of form if necessary)	
34-40	Feet		Fine Sand	Size of casing to be installed: <u>63</u> feet of <u>18</u> inches diameter
				_____ feet of _____ inches diameter
				_____ feet of _____ inches diameter
40-43	Feet		Magnesia	Type of Seal between casing sizes: _____ _____ _____
43-60	Feet		Fine Sand	Kind of perforated screen to be installed: Material <u>Steel</u> (steel, wood, concrete, etc.)
				Size of Screen: Diameter <u>18</u> inches
				Length <u>30</u> feet
60-65	Feet		Magnesia & Clay	Size openings <u>1/8</u> inches
			Water bearing material	Depth Below ground surface to which water rises In well <u>34</u> feet.

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

D. Well Information or Estimates Minnehaha Waters, Inc; Well #1

(1) Drill Hole, Diameter 6", Depth 75'

(2) Casing, Type steel Diameter 6" Thickness 5/16"
(wood, concrete, steel, etc)

(3) Perforated Screen.

Type steel Diameter 6" Length 20'

(4) Gravel Pack. Thickness 8" Length of gravel pack 22'

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 (SEE ATTACHED COPY OF TEST WELL LOG)

Depth to top of water bearing material (SEE ATTACHED COPY OF TEST WELL LOG)

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

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

unknown
On same owner's property _____ rds. On property owned by others _____ rds.

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.

CITY OF GREGORY, South Dakota

Lloyd Harrison
Signature of Applicant Mayor

MINNEHAHA WATERS, INC.

FIELD REPORT OF TEST HOLE

Name of Job Gregory Municipal Well Test Hole No. one
Address S. D. Depth _____
Gregory, S. D. Date March 3, 1970

[illegible]

Size of Pit: Length 9' ft. Width 7 ft. Depth 18" ft.
Static Water Level 3' ft. below ground level. Diameter of well 6" in.
Was well pumped _____ Yield _____ g.p.m. Water sample _____
Depth of screen setting _____ ft. Size of gravel used _____

Date 3/3/70

Driller

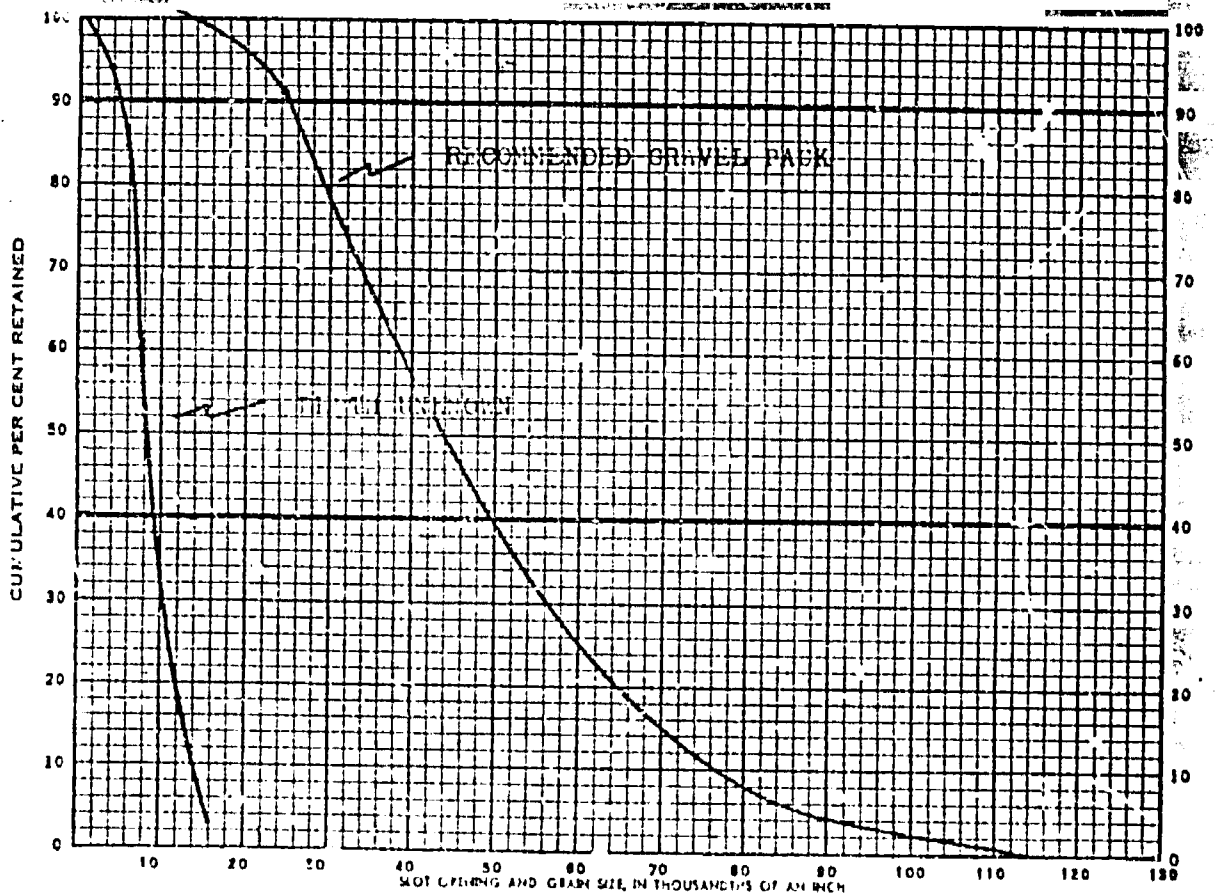
Dennis Plucker

SAND ANALYSIS

UOP JOHNSON DIVISION

315 North Pierce Street
Saint Paul, Minn. 55104

Sample sent in by E. LYLE KIMPORT
 Town MITCHELL State SO. DAK. Date 27 OCT. 1969
 From well of _____
 Remarks _____



SIEVE OPENINGS	CUMULATIVE PER CENT RETAINED		
.132			
.094			
.068			
.047			
.031			
.023			
.016			
.012			
.008			
.006			
SCREEN			
SLOT, INCH			

Notes: GRAVEL PACK: U.C. = .025
U.C. = 2.00
 Recommended Slot Opening: #25 (0.025-inch)
 Recommended Screen: Dia. 6.0 in. Length 20 Ft.
 By D.L.K.

SO MANY CONSIDERATIONS ENTER INTO THE MAKING OF A GOOD WELL THAT WHILE WE BELIEVE SLOT SIZES SHOWN OR RECOMMENDED TO BE THE BEST, THEY ARE NOT GUARANTEED.

Form 6 - Notice of Intent to Appropriate Water

1031-2

Publish first publication, on or before December 23, 19 71

**NOTICE
INTENT TO APPROPRIATE WATER**

Pierre, South Dakota 57501

December 13, 19 71

Notice is hereby given that the City of Gregory

~~whose post office address is~~, South Dakota, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use

.63 cubic feet of water per second of time from ~~the~~ ground water through the City Wells, the point^s of diversion of which ~~is~~ ^{are} to be located in the _____

N $\frac{1}{2}$ SW $\frac{1}{4}$

of Section 16, Twp. 97N, Range 72W. Said water to be used for the purpose

of providing ~~irrigation on the following described lands~~

municipal supplies for the City of Gregory

This application No 1031-2 will be considered by the Water Resources Commission at their office at Pierre upon the 19th day of January, 19 72, at 2:00 P. M. All interested persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

MURTON F. JONES

Water Rights Specialist

BFJ/bw

AFFIDAVIT OF PUBLICATION

State of South Dakota, }
County of Gregory } ss.:

Allen M. Hermann, being duly sworn, deposes and says: That he is a resident of the County of Gregory and State of South Dakota; that the GREGORY TIMES-ADVOCATE is a weekly newspaper of general circulation printed and published in GREGORY, in said county and state, by Allen M. Hermann, and is now and has been such paper continuously during all the times hereinafter mentioned; that the affiant is and was during all the time hereinafter mentioned Public of said newspaper in charge of the advertising department thereof, and has personal knowledge of all the facts stated in this affidavit and that the notice and advertisement headed Notice

a printed copy of which is hereunto attached and made a part hereof, was printed and published in said newspaper Laurel

That the first publication of said notice in said newspaper was on Thursday the 22 day of December A. D., 1971 and that the succeeding publication were severally:

on Thursday the 30 day of December A. D., 1971

on Thursday the 6 day of January A. D., 1972

on Thursday the 13 day of January A. D., 1972

on Thursday the _____ day of _____ A. D., 19____

on Thursday the _____ day of _____ A. D., 19____

on Thursday the _____ day of _____ A. D., 19____

on Thursday the _____ day of _____ A. D., 19____

on Thursday the _____ day of _____ A. D., 19____

on Thursday the _____ day of _____ A. D., 19____

that the fees charged for the printing and publication of said notice and advertisement in said newspaper as aforesaid were 11 Dollars and 60 Cents, and for this affidavit, Twenty-five Cents and that said fees for the printing and publishing of said notice and advertisement, and for this affidavit, as aforesaid, have been fully paid; that the full amount of the fee charged for the publishing of the said attached and annexed notice and advertisement inures to the benefit of the publishers of the said paper; that no agreement or understanding for a division thereof has been made with any person, and that no part thereof has been agreed to be paid to any person whomsoever. That the said newspaper is a legal newspaper as provided in Session Laws of 1893.

Allen M. Hermann

Subscribed and sworn to this 13 day of January, 1972

Allen M. Hermann
Notary Public.

NOTICE INTENT TO APPROPRIATE WATER

December 13, 1971

Notice is hereby given that the City of Gregory, South Dakota, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for a beneficial use .63 cubic feet of water per second of time from ground water through the City Wells, the points of diversion of which are to be located in the N1/2SW1/4 of Section 16, Twp. 97N, Range 72W. Said water to be used for the purpose of providing municipal supplies for the City of Gregory.

This application No. 1031-2 will be considered by the Water Resources Commission at their Office at Pierre upon the 19th day of January, 1972, at 2:00

p. m. All interested persons may appear and be heard. Water Resources Commission
BY: Burton F. Jones
Water Rights Specialist

51-41c

1031-2

City of Gregory -

St. Mary's

2-25-76

Robert Smutney - in charge of water system

Mayor - Mrs. Wm D (Cathy) Warner.

Well #1. = Pump = Jacuzzi - 4 inch shaft - Model 4A/T-451
- 4x3x3/4. Serial # SWC 22747. ; 40 GPM.

Motor = U.S. Electrical Motor - Model F-2964-00-171.

3 HP 1730 RPM -

Well depth 78 ft est.

Well #2 = Submersible Pump. 2 HP, 25 GPM. Unknown Brand.

Well #3 = Pump. Jacuzzi - 3 inch shaft, 40 GPM.
Model 3A/T450 3x3x3/4, Serial # SWC 22750

Well #4 = Submersible Pump. ; est one HP. 30 GPM.

Well #5 = Paltus unit. Submersible pump. 2 HP. 50 GPM

Well #6 = Paltus Unit - Submersible pump. 2 HP. 40 GPM

Well #7 = Paltus Unit. - Submersible pump. 2 HP. 45 GPM

Total Well Capacities. 270 GPM.

Pump to pump into City of Gregory - 300-350 GPM. Jacuzzi
#1 Pump - Model & Serial Number - Unable to read. Believed to be
Model 206 T/B, Serial # SWD 22041, Motor ^{Century} 20 HP - 3500 RPM
Serial # 11 J. Spec 54168

Alternate Pump = Jacuzzi - Model 30 GM 3-T/V.

Serial # SWD-22040, Motor - Century 30 HP - 3520 RPM

Serial # 2 L

Line to Gregory - 8" tranche.

Note City Plans 2 more wells in same area and then eliminate the 2 low producing wells.

ATTENTION: Mr. J.W. Grimes

FROM: Raymond F. Lund

DATE: July 31, 1969

Attorney G.F. Johnson, Box 149, Gregory, South Dakota called at the office this afternoon for information pertaining to application for a source of water for the City of Gregory.

The following points were involved in our discussion:

- (1) Does it require a separate application for each well?

(The city contemplates drilling four shallow wells to be interspersed or located approximately 200 yards apart. They are thinking in terms of drilling four wells, having a combined capacity of 300 gallons per minute to be furnished by the four wells.)

The City contemplates acquiring about 120 acres of land about four miles east of the City, an area in which the drilling will be made for water.

- (2) Does the City have to acquire title to this land or will it be sufficient for the City to take steps to condemn the land in looking forward to its requisition for the purposes of providing a source of water for the City?

If the City were to acquire the 120 acres and assuming that water can be obtained from three or four shallow wells, it is presumed that the water can be taken to the City on the section lines without having to obtain an easement. However, the City Engineer advises that they should plan to run the pipe on the contour.

- (3) What would be the advantage of bringing the water from the field to the City on a pipe laid on the contour, where it would be necessary to add considerable distance for carrying the water on that basis.

The distance is yet unknown but estimated to be considerable.

The City would plan to issue revenue bonds to cover the costs involved which are yet undetermined.

Mr. Johnson will be awaiting a reply.

Raymond F. Lund
RAYMOND F. LUND

Permit No. 1031-2Water Division 2 White River Water District

**REPORT OF EXAMINATION OF WORKS
AND/OR APPLICATION OF WATER TO BENEFICIAL USE**

TO: Water Resources Commission, State Office Building No. 2, Pierre, South Dakota 57501

I have this day made a thorough examination of the water use system constructed by City of
Gregory of Gregory, S. Dak. holder 71
of Permit No. 1031-2, bearing date of priority of July 16 AUGUST 30 1976
authorizing the diversion of .63 cu. ft. per second of the waters of Ground water
for Municipal purposes, in Gregory County.

I have to report on the condition of the same as follows:

The Water Use System consists of,

- A. Works used to divert the water: Well #1: Pump - Jacuzzi, 4 inch shaft, Model 4A/T-451-4 x 3 x 3/4, Serial # SIVC 22747. 40 GPM Motor - U.S. Electrical Motor, Model F-2964-00-171, 3HP-1730 RPM. Well #2 = submersible pump. 2HP. Brand unknown. 25 GPM Well #3 = Pump - Jacuzzi, 3 inch shaft, 40 GPM, Model 3A/T450 3 x 3 x 3/4 Serial # SIVC 22750. (See Reverse side for wells, 4, 5, 6, 7.)
- B. Works used to transport water to place of use,

Pipeline to Gregory - 8 inch dia - Transite.
(See Reverse side for more information)

- C. Works used to apply water to beneficial use.

Municipal Water System.

The system is in the following condition: GoodThe point of diversion is located All in section 16, T97N, R72W. (See reverse side for specific well locations.)The works are capable of diverting and conveying to the place of use .60cu. ft. per second of water which is to be used for Municipal Purposes.

Water has been put to beneficial use to the maximum extent as follows: _____

comprising a total of _____ acres of land.

Date

March 8, 1976

LeRoy J. Mernagh
(Signature)

A. Works used to divert water: (Cont).

Well #4 - Submersible Pump est. one HP, 30 GPM.

Well #5 - Pitless unit, submersible pump - 2 HP, 50 GPM

Well #6 - Pitless unit, submersible pump - 2 HP, 40 GPM

Well #7 - Pitless unit, submersible pump - 2 HP 45 GPM

Total well capacities 270 GPM

B Works used to Transport water to place of use. (Cont)

Pump to pump to City of Gregory. 300-350 GPM Jacuzzi.

Pump #1 = unable to read clearly - believed to be Model 206 J/B.

Serial # SVP 22041, Motor - Century, 20 HP, 3500 RPM

Serial # 117 Spec 54168

Alternate pump #2. Jacuzzi Model 30 GM 3-T/D.

Serial # SVP - 22040, Motor - Century 30 HP 3520 RPM

Serial # 2L.

The point of diversion is located -

LOCATIONS OF WELL SITES FROM W. 1/4 CORNER

WELL NO.	EAST ALONG 1/4 LINE	SOUTH FROM 1/4 LINE
1	132 Feet	665 Feet
2	441 Feet	712 Feet
3	680 Feet	680 Feet
4	2008 Feet	722 Feet
5	1174 Feet	1152 Feet
6	560 Feet	1179 Feet
7	220 Feet	1165 Feet

12
Receiving
Water Bureau
(City of Gregory)

August 1, 1969

Mr. G. F. Johnson
Box 149
Gregory, South Dakota 57533

Dear Mr. Johnson:

On July 31, 1969, you discussed aspects of water rights and related requirements with Mr. Lund of this office concerning development of water supplies for the City of Gregory, South Dakota.

A single water right application may cover the four wells contemplated. Spacing of the wells is important so that interference among them and reduced total capacity when more than one or all wells are operating may be avoided. How closely spaced the wells may be depends upon the physical characteristics of the aquifer. The State Geologist (Mr. Duncan McGregor), University of South Dakota, Vermillion, South Dakota, has a program of assistance to cities in finding ground water supplies. I suggest that the City of Gregory avail itself of this service.

The City will have to acquire interests in the land at the location of the wells, pipelines and access thereto. The City does not necessarily have to acquire interests in lands other than those needed to install its facilities. Acquisition of the interests in these lands may be in fee, easement, or perhaps other lawful arrangement. I cannot give you a definite answer on the use of land along section lines without obtaining easements. I understand that if a public road has been built along the section line that certain privileges for public utilities may share the road right of way without charge but subject to various conditions with respect to road changes. I understand, also, that such privileges may not exist if the reserved right of way along section lines for roads have not in actual fact been used for roads.

G. F. Johnson

2.

August 1, 1969

The principal advantages of installing the pipeline from the wells to the City on contour (or reasonably uniform gradients) are that pipeline pressures are minimized and pressure relief valves are not required at the high points in the pipeline. The main disadvantages are increased length of line, and perhaps pipeline fabrication and installing complications. Of engineering alternatives available, the least over-all cost usually rules. The pipeline should be installed below frozen ground levels.

I hope that this information is helpful.

Sincerely,

JWG:ls

J. W. Grimes

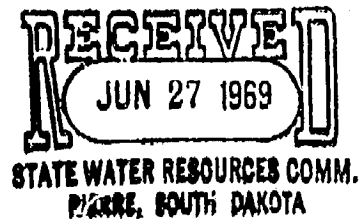
CHARLES RICK JOHNSON
ASSOCIATE

G. F. JOHNSON
ATTORNEY-AT-LAW
GREGORY, SOUTH DAKOTA 57533

TELEPHONE NUMBER 7181
AREA CODE 605

June 26, 1969

J. W. Grimes
State Water Commissioner
State House
Pierre, South Dakota



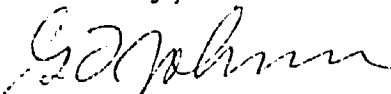
Dear Mr. Grimes:

The City of Gregory is considering purchasing water rights under 120 acres of land several miles from the City. I have never been involved in procedure of this kind before, and as City Attorney, I would appreciate any information you have as to the requirements that the City will have to meet in order to do this.

I would also appreciate being informed as to the language that is ordinarily used in the making of a deed for water rights.

The mineral rights on this land are already owned by the State. We are wondering if that might in any way complicate the City's right to purchase the water rights.

Sincerely,


G.F. Johnson

GFJ:cj

1031-2 (Gregory)
June 30, 1969

Mr. G. F. Johnson
Gregory, South Dakota 57533

Dear Mr. Johnson:

In your letter of June 26, 1969, you request information as to the procedure that the City of Gregory may follow in purchasing water rights under 120 acres of land several miles north of Gregory.

Pursuant to SDC 1960 Supp. 61.0101(2) all water in South Dakota is publicly owned. Consequently, no individual owns water which can be purchased.

Water rights to use the public waters may be acquired through procedures prescribed in SDC 1960 Supp. 61.0110 through 61.0119, also 61.0404. Once acquired water rights may be assigned under 61.0127.

SDC 1960 Supp. 61.0122 provides special privileges in municipalities to acquire water rights for future use. In essence, the city may secure its long-range water supplies without being bound to a 5-year maximum construction period (61.0113, 61.0115).

Under these constraints, and considering the local situation as to water rights, it seems that the City of Gregory may proceed:

1. If water rights have been acquired by the current owners of the subject 120 acres, the City may purchase such water rights (61.0127) and transfer them to its own use (61.0129). If such rights are for irrigation the land itself would have to be purchased. Also, if

Mr. G. F. Johnson

2.

June 30, 1969

current water rights are acquired, the acquisition covers only the extent of the current water right. Irrigation water rights, for example cover use of water during the irrigation season. The City will require, probably, year-round use of water. The City may acquire supplemental water rights to cover the extended period of use.

2. The City may make application for future use water rights pursuant to 61.0122. Such water rights would not include any property rights in the land upon which the City would build wells or water transporting facilities.
3. In the future use application, or separately, the City may request water rights in the amount of water supplies it proposes to develop during a five-year period (61.0110 through 61.0119). These same procedures are followed in processing applications for future use rights.

Depending upon the City's decisions, I shall be pleased to help with application forms, etc. For your information or use, application forms with instructions are enclosed.

Sincerely,

J. W. Grimes

JWG:ls
Enc's.