

Considered: _____

WATER PERMIT NO. 5023-3

MAP No. 5023-3

Name of Applicant Town of Grenville

Post Office Address Grenville 57239

Amount of Water Claimed 0.12 Total Acres _____

Source of Water Supply Well #4 383' deep and Well #5 418' deep (2 wells)

Water to be used for MUN County Day

About _____ miles _____ of City Limits

PROOF OF PUBLICATION: Received lx 8-23-84 Not Received _____

APPLICATION: Approved 9-26-84 Subject to _____

F.F. & C.L. Adopted _____ Not Approved _____ Deferred _____

PRIORITY _____ Date Received June 7, 1984 Fee 150.00 Remarks _____

6/7/84

Corrected Application Received July 5, 1984 Period of Annual Use 1/1 to 12/31

WATER QUALITY APPROVAL RECEIVED _____ APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as Application YES _____ NO _____ REMARKS not applicable

Diversion Point _____

Two wells in S $\frac{1}{2}$ NE $\frac{1}{4}$, Section 14-T123N-R55W

Land to be Irrigated _____

	*	x			

Well Log: Driller #4-Falk Bros, Hankinson ND
#5LTP Enterprises, Fargo ND licensed YES XX NO _____

Depth of Well #4/383' & #5/418' REMARKS _____

Type of Map drawn on DOT map PREPARED BY Adele Herrick Pres of Board Town of Grenville and the Number _____

assigned on July 5, 1984 By Betty Westlund

cc: Nelson

No. 5023-3
 3- JR 10160010
 Map No. 5023-3 Water Division No. _____ District _____
 Above for Office Use



APPLICATION FOR PERMIT To Appropriate Water within the State of South Dakota

Check one of the following:

New X Vested Right X Future Use _____

Change in Diversion _____ Additional Diversion _____

Change in Acreage _____ Additional Acreage _____

1. Name of Applicant Town of Greenville Phone No. _____
 Post Office Address Greenville State S. DAK. 57239
 (Street, RR, or Box) (Town) (Zip Code)
 If a corporation show date and place of incorporation 1888

2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract by bids

3. Name of diversion work _____

4. Amount of water claimed (cubic feet per second) .125. Source of water supply Ground Water

6. Location of point of diversion NE CORNER Sec 14, T-123N, R55W - Well #5;
Lot 14, Block 1, Replat of Part of Lot 25 Original Town - Well #4.
 County Day

7. Annual period or periods during which water is to be used year around8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) Municipal9. For irrigation use, Total number of acres to be irrigated None

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 Five

10. Time required to complete construction of water supply system (Completed) years. Additional time required to complete application of water to the proposed beneficial use Four years.

11. Choice of county newspaper for publication of Notice of Intent to Appropriate Water Reporter & Farmer

12. Principal Features of the Proposed Water Supply System.

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

Well #4 - 5HP SubmersibleWell #5 - 5HP Submersible

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

6" - 4" & 2" Mains w/ Stop valves at each residentHouse,

C. Works proposed to apply water to beneficial use.

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)

County of Day) ss.

I, Adele Herriek, Pres. of Board 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 Adele J. Herriek
Inez Brendmoen
 Notary Public (or other qualified officer)

Subscribed and sworn to before me this 31st day of May, 1984
Inez Brendmoen
 Notary Public, Day County, SD
 My commission expires July 2, 1989

WATER RIGHT APPLICATION APPROVAL

The Water Management Board hereby approves Water Right Application No. 5023-3

Town of Grenville

(Applicant)

Grenville

(Post Office Address)

South Dakota

(State)

With the following qualifications.

The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

Date of first receipt of application June 7, 1984

Date of return to applicant for correction, amendments or changes required —, 19—

Date of receipt of corrected application —, 19—

Approved September 26, 1984, Recorded in Book — Page —

WATER RIGHT PERMIT NO. 5023-3

The Water Management Board hereby grants and issues this Water Right Permit No. 5023-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as qualified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is June 7, 1984

2. The equivalent of at least one-fifth of the work above specified is to be completed on or before March 26, 1987

3. The whole of said work is to be completed on or before September 26, 1989

4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is September 26, 1993

5. The water appropriated shall be used for the purpose of Municipal water supply

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 0.12 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 uses served, and ~~if for irrigation purposes said appropriation must be limited to not more than 2 acre feet per acre per year and 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 September 26, 1993; said water to be used during the following described

annual period: CONTINUOUS

Witness my hand this 23rd day of October, 1984

THE WATER MANAGEMENT BOARD

By: John Hatch

Chief Engineer, Water Rights

Certificate of Construction Issued —, 19—

Water License Issued —, 19—

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

- (1) Drill Hole, Diameter 6 $\frac{1}{4}$ ", Depth 383
- (2) Casing, Type Steel, Diameter 4", Thickness 11# per foot
(wood, concrete, steel, etc.)
- (3) Screen, Type Stainless Steel, Diameter 4", Length _____
- (4) Gravel Pack, Thickness —, Length of gravel pack 42 FT

E. Dugout Information or Estimates

- (1) Surface dimensions, —, Depth —

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

(1) Water Bearing Materials. (Attach a copy of test well log)

- Depth to top of water bearing material —
- Depth to bottom of water bearing material 383
- Depth to water (ground surface to water level) —

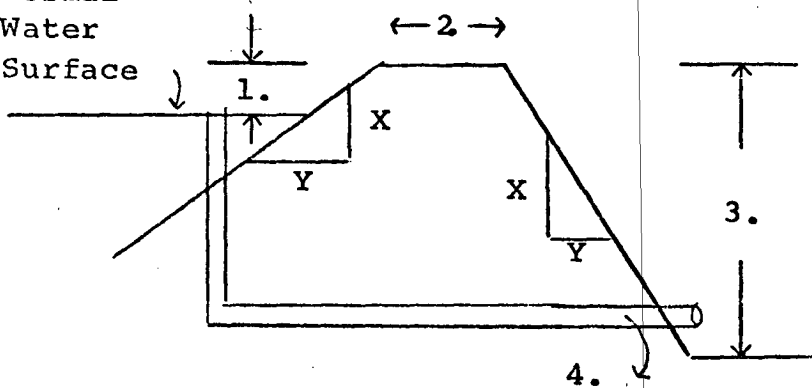
(2) Distance to nearest existing household or livestock watering well.

- 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, length, maximum water depth, surface area, drainage area, storage capacity, dam slope, dimensions, location and size of outlet works, of each storage dam. The location of each water storage dam should be shown on the water right map.

Normal
Water
Surface



1. Freeboard —
2. Crest width —
3. Height of Dam —
4. Outlet dimensions:
Pipe diameter —
Spillway width —
- X & Y slope:
Upstream —
Downstream —
Surface area of impoundment —
Drainage area above dam —

Town of Greenville S.D.

Adele J. Herrick pres. of board

Signature of Applicant

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

- (1) Drill Hole, Diameter 9 7/8", Depth 418 FT
- (2) Casing, Type Schedule #40, Diameter 6", Thickness Sch-40
(wood, concrete, steel, etc.)
- (3) Screen, Type Johnson SS Screen, Diameter 6", Length 25 FT
- (4) Gravel Pack, Thickness —, Length of gravel pack 387

E. Dugout Information or Estimates

- (1) Surface dimensions, —, Depth —

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

- (1) Water Bearing Materials. (Attach a copy of test well log)

Depth to top of water bearing material —

Depth to bottom of water bearing material 418 FT

Depth to water (ground surface to water level) —

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

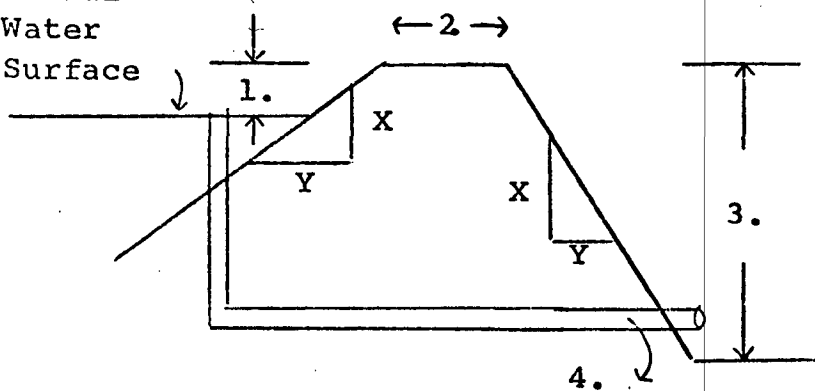
On same owner's property — rds.

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, length, maximum water depth, surface area, drainage area, storage capacity, dam slope, dimensions, location and size of outlet works, of each storage dam. The location of each water storage dam should be shown on the water right map.

Normal
Water
Surface



1. Freeboard —
2. Crest width —
3. Height of Dam —
4. Outlet dimensions:
 - Pipe diameter —
 - Spillway width —
- X & Y slope:
 - Upstream —
 - Downstream —
- Surface area of impoundment —
- Drainage area above dam —

Town of Greenville S.D.
Adelle J. Herrick pres. of board
 Signature of Applicant

RECEIPT

Division of Water Rights

No 4 9700

South Dakota Department of Water and Natural Resources

Pierre, July 5, 1984

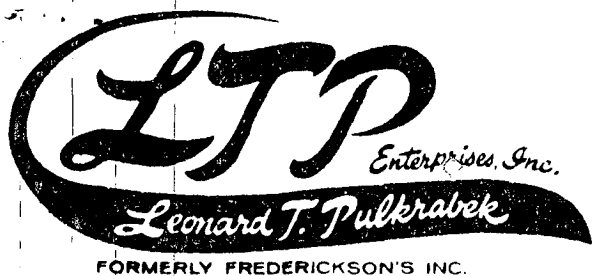
RECEIVED OF Town of Grenville, c/o Letha Lewandowski, F.O., RR#1, Box 11, Grenville,
the following amount in fees for services rendered as provided for by law: SD 57239

Fee for Application for Permit No. 5023-3 to Appropriate Water, to construct works and to put water to beneficial use	150	00
Fee for Application for Permit No. to Appropriate Water for Future Use		
Fee to retain Future Use Permit No. after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No.		
Fee for Filing Transfer Form		
Fee for Filing Extension Request		
Fee for Certified Copy of		
Fee for Print Copy of Map		
Fee for Certifying		
Fee for		
(Any Other Work Provided by Law)	Total	150 00

By

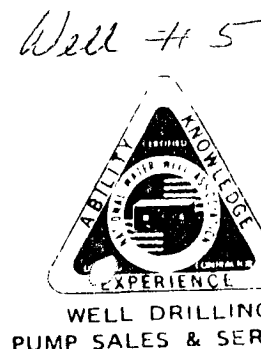
Chief Engineer

JOHN HATCH



Box 2131
FARGO, N. DAK. 58102

Phone (701) 232-8928
DRILLERS LOG



Drilled for City of Grenville by Fargo Office

Location of property _____

Test hole No 1 Location of test hole 50' NE of Amer. Leg. Bldg. Well No. _____

Size of test hole 6 1/2" Date started 6-12-79 Date completed 6-13-79 Total Hours 12

FORMATIONS DRILLED

TYPE OF FORMATION	COLOR OF FORMATION	STARTED AT WHAT DEPT	ENDED AT WHAT DEPT	THICKNESS OF FORMATION
Top Soil	Black	GL	1'	1'
Sandy Clay w/lenses of sand	Brown	1'	9'	8'
Sandy Clay	Brown	9'	17'	8'
Sand w/layers clay	Brown	17'	23'	6'
Sandy Clay	Blue	23'	55'	32'
Sand Dirty	Brown	55'	82'	27'
Clean Sand	Gray/Brown	82'	102'	20'
Sandy Clay	Blue	102'	191'	89'
Sandy Clay Rocky	Blue	191'	253'	67'
Sand	Gray	258'	260'	2'
Hard Sandy Clay	Blue	260'	270'	10'
Boulder	Red	270'	272'	2'
Hard Sandy Clay	Blue	272'	293'	21'
Boulder	Red	293'	294'	1'
Hard Sandy Clay	Blue	294'	357'	63'
Fine Sand	Gray	357'	360'	3'
Sandy Silty Clay w/lenses Sand	Gray	360'	366'	6'
Fine Sand Sandy Clay	Gray	366'	382'	16'
Fine Sand	Gray	382'	392'	10'
Fine Sand	Gray	392'	417'	25'
Fine Sand layers Clay	Blue	417'	422'	5'

Signed

Frank Schroeder

Driller

Well # 4

FALK BROS. WELL DRILLING
HANKINSON, NORTH DAKOTA

LOG OF WELL:

Yellow Clay.....	0 - 22 ft.
Gravel.....	22 - 54 ft.
Casing and screen installed to... 54 ft.	
Overnight 3" of water in bottom	
Gravel and Shale (Blue Clay).....	54 - 102 ft.
Smooth Shale (Soft to Medium Hard).....	102 - 310 ft.
Hard Shale.....	310 - 333 ft.
Sand Lens (10 Slot Grade).....	333 - 335 ft.
Shale.....	335 - 337 ft.
Sand Lens (12 Slot Grade).....	337 - 341 ft.
Hard Shale.....	341 - 363 ft.
Sand Lens (12 Slot - 10 with fine spots)	363 - 378 ft.
Shale.....	378 - 383 ft.

4-78

Drillers: I. P. Extrusion Inc. #381
Driller's or Firm's Name License No.
P. O. Box 2131
Address
Joe Rodgers 12-10-7
Signed By Date

SOUTH DAKOTA DEPARTMENT OF WATER AND NATURAL RESOURCES

OFFICE OF DRINKING WATER

ROUTE SHEET

IDENTIFICATION Grenville Municipal Water Supply

ROUTING DATE August 31, 1983

FILE NUMBER 5.2

ROUTE TO:

DATE OF SURVEY August 15, 1983

~~STEICHEN~~ *mes*

DATE MAILED OUT August 31, 1983

~~ERBELE~~

DATE POSTED TO SURVEY BOOK August 31, 1983

BUSCH

~~KITTAY~~ *SM*

~~HOLAN~~

AISENBREY

~~VANSCO~~

RIES

FILE

EPA

SIGNATURE LOIS

DATE: 12-9-82

Department of Water and Natural Resources
Office of Drinking Water

Investigation and Operation Survey of the _____ Public Water Supply System

Conducted by _____ Ted Jasulka, Trustee

Date 8 / 15 / 83

Facilities Consist of Two wells; 1200 gal. pressurized storage; distribution system
August 31, 1983

Re: 5.2 Grenville

Adole Herrick, President

REVIEW ITEMS

RR 1

P. O. Box 11

Grenville, South Dakota 57329

Yes	No	N/A
	X	

If yes, make model and type of chlorinator: _____

Dear President Herrick:

Attached is a report entitled, "Routine Sanitary Survey of Grenville Municipal Water Supply System". This report has been prepared on the basis of a routine sanitary survey by the Department of Water and Natural Resources and is submitted for correction of the unsanitary features noted. Hopefully, these recommendations will be complied with at your earliest convenience.

You or your representative are invited to attend meetings and training short courses sponsored in part by the South Dakota Municipal League and the South Dakota Water and Wastewater Association.

If you have any questions concerning dates and locations of training courses, contact Mr. George Vansco at 773-4219 or write Suite 222, Joe Foss Building, Pierre, South Dakota 57501 at your convenience.

Please acknowledge receipt of this report together with action contemplated on the recommendations included in the report within 30 days. If we can be of any assistance, please let us know.

Very truly yours,

Is the proper 10 inch min. bed of fluoride maintained?

Does a softener and meter accompany the installation?

Do the records show consistent acceptable fluoride levels?

Mark E. Stelchen

Office Administrator

Office of Drinking Water

Phone: (605) 773-3754

cc: Letha Lewandowski, Finance Officer

Ted Jasulka, Trustee

Jay Cofor, NELRO

S433.dw

Field Tests

Tests performed during the survey?

If yes, give values: pH 7.4; Temp. 62°F.

Are tests performed by the operator?

If yes, type and frequency: _____

Department of Water and Natural Resources
Office of Drinking Water

Sanitation and Operation Survey of the Grenville Public Water Supply System

Contacted Ted Jasulka, Trustee Date 8 / 15 / 83

Facilities Consist of Two wells; 1200 gal. pressurized storage; distribution system

REVIEW ITEMS

Disinfection

- a. Is disinfection provided?
b. If yes, make, model and type of chlorinator: _____
c. Rated capacity: _____ indicated setting: _____
d. Anti-siphon valve installed on feed pump?
e. Safety features for gas chlorination:
1. Separate room?
2. Positive mechanical ventilation?
3. Restraints to secure chlorine cylinders?
4. Gas mask?
f. Type of chemical used: _____

Yes	No	N/A
	X	
		X
		X
		X
		X

Fluoridation

- a. Is fluoridation required?
1. Why: population under 500
b. Is fluoridation provided?
c. If yes, make and model: _____
d. Rated capacity: _____ indicated setting: _____
e. Anti-siphon valve on feed pump?
f. Type of saturator: _____
g. Type of cross connection control for makeup water: _____
h. Type of chemical used: _____
i. Is the proper 10 inch min. bed of fluoride maintained?
j. Does a softener and meter accompany the installation?
k. Do the records show consistent acceptable fluoride levels?
1. If not, describe problems and any steps taken to correct problems: _____

	X	
	X	
		X
		X
		X

Test Equipment

- a. If treatment is provided, are the appropriate test kits available?
1. If yes, state brand name and type of test kit(s): _____

		X
--	--	---

Field Tests

- a. Were tests performed during the survey?
1. If yes, give values: pH 7.4; Temp. 62°F.
b. Are tests performed by the operator?
1. If yes, type and frequency: _____

X		
	X	

5. Storage

- a. Size and type: 4 - 200 gal. tanks at well #2; 4 - 100 gal. tanks at well #1; total 1200 gal.
- b. Service frequency: once every 2 months
 1. Type of lining rubber diaphragm
- c. Are the following present:
 1. Overlapping cover on manhole?
 2. Overflow & vents screened?
- d. Comments on general condition: satisfactory

Yes

		X
		X

5. Distribution System

- a. Main sizes & types: 6", 4", 2" PVC
1. When installed: Sept. 1981
 2. Are there fire hydrants on less than 6" diameter mains?
- b. Is there a main flushing program? once a month
- c. Condition of distribution system: () corrosion: () incrustation:
 () breaks: satisfactory

X		
X		

7. Sanitation

- a. Does the general appearance of the facilities indicate routine maintenance and good housekeeping practices?
- b. Is any equipment located in a pit?
 1. If yes, detail: _____

X		
	X	

8. Records

- a. Are adequate records of operation maintained?
- b. State what records are kept: monthly bacti results

	X	
--	---	--

9. Cross Connection(s)

- a. Were any cross connections observed?
 1. If yes, describe: _____

	X	
--	---	--

10. Filtration

- a. Is filtration provided?
 1. If yes, what type: _____
 2. Filter area: _____ Maximum rate: _____
 3. Backwash frequency: _____
 a. How determined: _____
 4. Do the records show adequate filtration is being accomplished?

	X	
--	---	--

		X
--	--	---

11. Aeration

- a. Is aeration provided?
 1. Type: _____

	X	
--	---	--

12. Chemical Treatment

- a. Are chemicals other than chlorine or fluoride used to treat the water?
 1. If yes, detail what is being used and at what feed rate: _____

	X	
--	---	--

RECOMMENDATIONS (GRANDVILLE DRINKING WATER):

- 1.) To be assured of bacteriologically safe water for the consumer, it is recommended that the necessary equipment be installed to provide for continuous chlorination of the water supply. It is possible for contamination to enter the water supply through faulty plumbing. Disinfection of the water through chlorination is essential for destruction of disease producing organisms which may initially be in the ground water as well as those that may enter the distribution system.
- 2.) It is recommended that a master meter and hour meters be installed and that records be compiled of daily pumpage, power usage and hour meter readings. By comparing these records to one another, pump and well failure, along with distribution system leaks can be detected before they become a major problem.
- 3.) The United States Fire Insurance Services do not recommend the use of water mains smaller than 6 inches in diameter. A pumper fire truck should never be connected to a fire hydrant serving mains less than 6 inches in diameter because contamination of water supply could result in back siphonage conditions or damage to the distribution system because of possible negative pressures. To be assured of adequate fire and back siphonage protection, all future water main installations must be 6 inches in diameter or larger. The Department of Water and Natural Resources recommends that when using less than 6 inch diameter mains, only flushing hydrants be installed.
- 4.) Although the town is not required to have a certified waterworks operator, we would like to encourage you to give your operator the opportunity to attend some of the various training courses that are available and become certified. For more information as to class dates, location, etc., please contact George Vansco, Dept. of Water & Natural Resources, 523 E. Capitol, Pierre, ph. 773-4219.
- 5.) To be in compliance with State Law, and to protect your town's source of water, water rights should be obtained as soon as possible. If you have application forms, fill them out and send in as soon as possible. If application forms are needed, they can be obtained from the SD Dept. of Water & Natural Resources, 523 E. Capitol, Pierre, 57501.

Bacteriological Sampling and Analysis

The State Department of Water & Natural Resources requires that all public water supplies submit water samples on a routine basis to the State Health Laboratory in Pierre or other EPA certified laboratory. Bacteriological samples should be collected from different points in the distribution system so that the water sampling record will provide an indication of the water quality within the entire distribution system.

Your water analysis record for 1983 is as follows:

Samples Submitted	<u>8</u>	Safe Samples	<u>7</u>
Samples Required	<u>1/Month</u>	Unsafe Samples	<u>1</u>
Survey Samples	<u>1 (Safe)</u>	Recheck Samples	<u>2 (Safe)</u>

Sincerely,

Bill Baer

Bill Baer
Natural Resource Analyst
NORTHEAST LAKES REGIONAL OFFICE

DISTRIBUTION SYSTEM MATERIALS
SURVEY REPORT FORM

Community public water systems are required to report to EPA the presence of certain construction materials in their distribution systems (National Interim Primary Drinking Water Regulations, 40 CFR 141.42(d)). This form is intended to be used for reporting of this information.

Grenville 8/15/83 Baer, NELRO

Please check the appropriate blanks if the following materials are used:

<u>Material</u>	<u>Water Distribution System</u>	<u>Service Lines</u>	<u>In-Home Plumbing</u>	<u>Storage Reservoirs*</u>
Lead from piping, solder, caulking, interior lining of distribution mains, alloys and home plumbing.	_____	_____	_____	_____
Copper from piping and alloys, service lines, and home plumbing.	_____	_____	X	_____
Galvanized piping, service lines, home plumbing or reservoirs.	_____	_____	X	_____
Ferrous piping materials such as cast iron & steel.	_____	_____	_____	_____
Asbestos cement pipe.	_____	_____	_____	_____
Vinyl lined asbestos cement pipe.	_____	_____	_____	_____
PVC (plastic) pipe.	X	X	X	_____
Coal tar lined pipes or reservoirs.	_____	_____	_____	_____
Epoxy lined pipe or reservoirs.	_____	_____	_____	_____

REMARKS:

* Storage pressure tanks are lined with rubber bladders.

SOUTH DAKOTA DEPARTMENT OF WATER AND NATURAL RESOURCES

Office of Drinking Water

CHEMICAL ANALYTICAL DATA

Water Supply: Grenville MunicipalCity, County: Grenville, Day Co.Source Sampled: Well# 2 Depth 365'Date drilled 1975 Other _____Type of Sample: Raw X Treated _____ Composite _____Treatment Process(s): No treatmentDate Collected: 8/15/83Collected By: Baer NELRO

Report Mailed To: _____

Town of Grenville

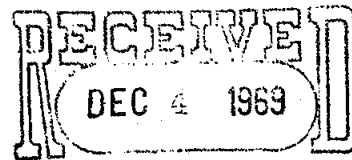
Lat: _____ Long: _____

Comments: _____

Received By Lab: 8/16/83

Report Sent By Lab: _____

Parameter	Maximum Limit	Results	Parameter	Suggested Limit	Results
Arsenic (As)	50 ug/l		Chloride (Cl)	250 mg/l	31.8
Barium (Ba)	1000 ug/l		Iron (Fe)	0.3 mg/l	1.79
Cadmium (Cd)	10 ug/l		Manganese (Mn)	0.05 mg/l	0.44
Chromium (Cr)	50 ug/l		Sulfate (SO ₄)	250 mg/l	610
Lead (Pb)	50 ug/l		Tot. Diss. Solids (TDS)	500 mg/l	1298
Mercury (Hg)	2 ug/l	2.01	pH	6.5-8.5	7.61
Nitrate (NO ₃) (as N)	10 mg/l		Alkalinity-M (CaCO ₃)	mg/l	331
Selenium (Se)	10 ug/l		Alkalinity-P (CaCO ₃)	mg/l	
Silver (Ag)	50 ug/l		Bicarbonate (HCO ₃)	mg/l	404
Fluoride (F)	2.4 mg/l	0.40	Carbonate (CO ₃)	mg/l	
Gross alpha	15 pCi/l		Spec. Cond. @ 25°C	umhos/cm	1800
Gross radium	pCi/l		Calcium (Ca)	mg/l	122
Radium 226	5 pCi/l		Magnesium (Mg)	mg/l	49.0
OTHER PARAMETERS			Hardness (CaCO ₃) gpg	29.6 mg/l	506
Field pH		7.4	Langelier Index	@ 50°F	+0.35
LI @ 16.67°C		+0.18	Sodium (Na)	mg/l	218
			Potassium (K)	mg/l	10.5
			Field temperature	62 OF	16.67 °C
			Nitrite (NO ₂) (as N)	mg/l	20.01
LAB COMMENTS: Fe mm 11/3 PRL			mg/l = milligrams/liter = parts/million (ppm)		
			ug/l = micrograms/liter = parts/billion (ppb)		
			gpg = grains per gallon		
			pCi/l = picocuries per liter		
Percentage of Error: 0.9/2.7			LAB NUMBER: 834907		
WNR - 606R - 6/82					



STATE WATER RESOURCES COM.
 PIERRE, SOUTH DAKOTA

Grenville 5.2

Grenville S. Dak
Dec. 2. 1969

State Department of Health
Commission Office
State Capital
Pierre, South Dakota 57501

Dear Sirs,

In reference to letter of November 24, 1969
a report of survey of information on the
Town of Grenville Municipal Water Supply
from J. O. Anderson District Public Health
Engineer.

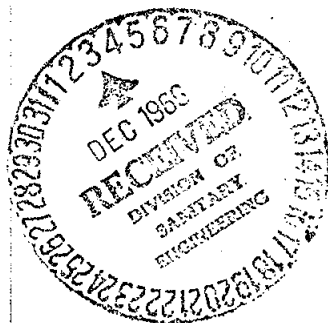
As that the Town of Grenville has not
obtained their municipal water rights from
the State Water Resources Commission as
per State law.

We are all new members of the Town
Board and so ^{is} the Clerk and Treasurer, none
of us know of this matter. At The Clerk and
Board of Trustil looking thro files found these
applications blanks to be filled out in these
files.

(Please sent us information on the
needed requirments for us to fill out as per
State law.

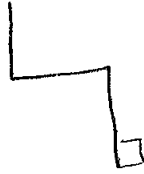
Sincerely

Stella J. Trumpea
Clerk
Grenville S. Dak.



486-4252

Box office 4 July



Joe A. boik.

3m w
Nymph well 7 409'

2m s

4 1/2

submersible

1000 gal. 7m
1700 gal. filled in 40 min

Middle well 112

AKA stone photo.

+400 turns 1 HP

Boyer pump 1200

7 gal' chum

+ 1000 gal' and 2000

50 cat of f.

Soft chalk 1000

1 HP Electric pump

500 gal. 7

1 1/2 x 1" pump

40' deep

2' break down

4 1/2 m s 50' w

December 5, 1969

I talked to Stella on 10-7-70. She
will take this matter up with the town
board at its November meeting and
will then let us know whether or not
they want to file a water right
of their wells. WJW

Stella Rumpsa, Clerk
Town of Grenville
Grenville, South Dakota

486-4252

Dear Madam:

Reference is made to your recent letter regarding water
rights for the Town of Grenville.

A member of the Water Resources Commission Staff will
stop on our next trip into your area and assist you in
getting your water rights completed.

Sincerely,

BURTON F. JONES
Water Rights Specialist

BFJ/bw

June 24, 1970

Mrs. Stella I. Rumpca, Clerk
Town of Grenville
Grenville, South Dakota 57239

Dear Mrs. Rumpca:

On June 16, 1970, Mr. Donald Driscoll of this office checked with you regarding the request of the Town of Grenville to obtain water rights.

South Dakota Water Laws specify that use of water originating before July 1, 1955 can qualify as a "vested right" and where the water is from an underground source, such "vested right" can be validated by filing a declaration of such use in a form and manner as prescribed by the Water Resources Commission.

The Commission Staff has prepared the required "Vested Right" declaration for the Town of Grenville. It consists of the two enclosed forms. These forms have been prepared in duplicate.

All four copies of the enclosed forms should be signed by an official of the Town of Grenville, before a Notary Public, where indicated. The signed copies should then be returned to this office with the required fee of ten dollars.

These forms will then be considered by the Water Resources Commission at their next meeting on July 22, 1970. Unless there is some unforeseen development, a "Vested Right" Water License will be sent to the Town of Grenville, soon after that date. This "Vested Right" will also be recorded and filed in the office of the Water Resources Commission.

Sincerely;

BURTON F. JONES
Water Rights Specialist

BFJ/bw

Water & Sewer

Joe Foss Building
23 East Capitol
Pierre, South Dakota 57501
June 28, 1982

Send Water Rights
application to

Re: 5.2 Grenville

Ted Jaskulka, President
and Members of Town Council
Town of Grenville
Grenville, South Dakota 57239

Dear President Jaskulka:

Attached is a report entitled, "Routine Sanitary Survey of the Grenville Municipal Water Supply System". This report has been prepared on the basis of a routine sanitary survey by the Department of Water and Natural Resources and is submitted for correction of the unsanitary features noted. Hopefully, these recommendations will be complied with at your earliest convenience.

The next annual Water and Wastewater Conference will be held September 15, 16 and 17 at the Howard Johnson in Rapid City.

You or your representative are invited to attend meetings and training short courses sponsored in part by the South Dakota Municipal League and the South Dakota Water and Wastewater Association.

If you have any questions concerning dates and locations of training courses, contact Mr. George Vansco at 773-4219 or write Suite 222, Joe Foss Building, Pierre, South Dakota 57501 at your convenience.

Please acknowledge receipt of this report together with action contemplated on the recommendations included in the report within 30 days. If we can be of any assistance, please let us know.

Very truly yours,

Mark E. Steichen

Mark E. Steichen
Office Administrator
Office of Drinking Water
Phone: (605) 773-3754

cc: Jay Cofer, NELRO

S433.dw

C62511LR.dw

forms sent
6-28-82
bo



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

Water Rights Division
605 773-3352

March 14, 1983

Ted Jaskulka, President
and Members of Town Council
Town of Grenville
Grenville SD 57239

Dear Sir:

On June 28, 1982, water permit application forms were sent to you for applying for municipal water rights for the Town of Grenville. To date we have not heard from you on this matter.

In checking our files, it was found that application forms had been sent to the town of Grenville to file for a vested right in 1970. The forms had been filled out, but never signed or notarized. They were then filed and no follow up was done.

Enclosed are the old application forms filled out in 1970 and a set of blank application forms for filing a vested right claim. Please verify the information and type applicable portions onto the blank application forms. Enclosed is a map of the Town of Grenville. Please have the location of the wells plotted on the map. An \$8.00 filing fee for the initial application and a \$2.50 fee for issuance of the Water License is required (total of \$10.50).

Please remit the completed application forms, filing fees and map to this office. If you have any questions or need assistance in filling out the forms, please advise.

Sincerely,

GENNY YOUNG
Water Rights Specialist

GY:ks

enclosure

*I have spoke with City of Watertown,
they are going to try and get the
town of Grenville to submit
an app.*

8/83

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5023-3

Pursuant to SDCL 56-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 5023-3, Town of Grenville, Grenville, South Dakota.

The Chief Engineer is recommending APPROVAL of Application No. 5023-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

See the attached report for additional information.



JOHN HATCH, Chief Engineer
Water Rights Division
August 10, 1984

REPORT ON WATER PERMIT APPLICATION NO. 5023-2

TOWN OF GRENVILLE

August 10, 1984

Water Permit Application No. 5023-3 requests 0.12 cfs from two existing wells 383 and 418 feet deep for municipal use by the Town of Grenville in Day County. The proposed water source is an unnamed glacial aquifer. The office of Water Quality recommended that Grenville apply for a water right following a sanitary survey of the water system.

Discussion

The Town of Grenville currently uses two wells (No. 4 and 5) for its municipal supply. Well No. 4 was drilled in 1975 and No. 5 was drilled in 1979. A complete construction report was not submitted for well No. 4. Form 2A indicated that it is cased with 4 inch steel casing and a stainless steel screen. The drillers report for well No. 5 indicated that the well was cased with 6 inch schedule 40 PVC and a 6 inch stainless steel screen. Neither of the wells are grouted.

No other permits in the Grenville area are into the same aquifer as this application. The wells have been in used for several years without causing any interference problems. The small amount of water used by Grenville should not cause interference with existing domestic wells.

Conclusions

1. The Town of Grenville is currently using two wells 383 and 418 feet deep without a water permit.
2. Neither of the Grenville wells are grouted.
3. Unappropriated water is available for Application No. 5023-3.
4. Application No. 5023-3 was submitted on the recommendation of the Office of Water Quality following a sanitary survey of the Grenville water system.



FRANK SMITH
Water Resources Engineer

References

1. Hedges, Burch, Iles, Barari, Schoon, Evaluation of Ground Water Resources, Eastern South Dakota and Upper Big Sioux River South Dakota and Iowa, SDGS, 1982.
2. Water Rights file, SD Division of Water Rights, Pierre, SD, 1984.
3. Domestic well file, SD Division of Water Rights, Pierre, SD, 1984.

WP or WR No. 5023-3

Instruction to Newspaper - Publish first publication of the following Notice on or before August 15, 1984 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5023-3 to Appropriate Water and/or to Amend Water Permit or Water Rights No. _____

Notice is hereby given that the Town of Granville whose mailing address is Granville, South Dakota has made an application for a permit

to appropriate 0.12 cubic feet per second of water from groundwater, 2 wells. Well No. 4 is 383 feet deep and well No. 5 is 418 feet deep. The points of diversion are located in the S½NE¼, Section 14, T123N, R55W. The water will be used for municipal purposes.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5023-3 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at the Civil Defense Room, Capitol Building, Pierre, South Dakota, September 26 19 84 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by September 14, 1984. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; (ground) 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; (future use) 46-5-38 thru 46-5-40; (transfer lands) 46-5-30.4, 46-5-33 thru 46-5-35; (10,000 AFA) 46-5-20.1, 46-5-8.1; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; (future use) 74:02:01:24 thru 74:02:01:25; (10,000 AFA) 74:02:01:15:02 thru 74:02:01:15:05.

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWN R, Joe Foss Bldg, Pierre SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by September 14, 1984.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Day) ss.

I, Larry Ingalls hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Reporter and Farmer

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the
City of Webster

County of Day and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:
August 15, 1984
August 22, 1984

Larry Ingalls
(Signature)
Editor
(Title)
8/22/84
(Date Signed)

Cost of Printing: \$39.71

WNR-808-7/79
Proof of Publication



Hearing set

(First Aug. 15)
NOTICE OF HEARING ON
APPLICATION NO. 5023-3
TO APPROPRIATE WATER

Notice is hereby given that the Town of Grenville whose mailing address is Grenville, South Dakota has made an application for a permit to appropriate 0.12 cubic feet per second of water from groundwater, 2 wells. Well No. 4 is 383 feet deep and well No. 5 is 418 feet deep. The points of diversion are located in the S½NE¼, Section 14, T123N, R55W. The water will be used for municipal purposes.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends Approval of Application No. 5023-3 because 1. unappropriated water is available. 2. Will be no unlawful impairment of existing rights. 3. Is beneficial use of water and 4. Is in the public interest.

This application will be considered by the Water Management Board at the Civil Defense Room, Capitol Building, Pierre, South Dakota, September 26, 1984 at 10:00 a.m.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by September 14, 1984. The petition may be informal, but it must include a statement describing the petitioners interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is ob-

tained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; (ground) 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNr, Joe Foss Bldg., Pierre, SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by September 14, 1984.



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

Water Rights Division
605 773-3352

October 23, 1984

Town of Grenville
Adele Herrick, Pres. of Board
Grenville SD 57239

Dear Ms. Herrick:

Enclosed herewith is your Water Permit No. 5023-3 as approved by the Water Management Board authorizing you to construct your water diversion system and the water to beneficial use, not exceeding the limits as specified in said Water Permit No. 5023-3.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that your Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division

JH:ks

enclosure

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period-i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.

WNR-809-5/83



August 7, 2002

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

Ron Grajczyk
Mayor
Box 154
Grenville SD 57239

Dear Ron Grajczyk:

I am writing in regards to our July 24 telephone conversation. I am enclosing copies of the following:

- Well Construction Standard 74:02:04:67 Requirements for plugging wells or test holes completed into confined aquifers or encountering more than one aquifer
- Rule 74:02:01:37.02 Exceptions to nonuse of water
- South Dakota Codified Law (SDCL) 46-6-18 Plugging abandoned or forfeited well by owner.

Please let me know if the Town of Grenville intends to use their wells or not.

If you need further assistance, do not hesitate to contact me at (605) 773-3352 or via email at stacy.johnson@state.sd.us.

Sincerely,

Stacy J. Johnson
Natural Resources Project Engineer

Enclosures (3)

Water Rights Division - DENR

Conversation or File Documentation

Name of Person: Ron Grajczyk

File No. 5023-3

Address: PO Box 12, Grenville SD 57239-0012 **County:** Day

Date: December 9, 2002 **Telephone:** (605) 486-4696

RE: About Water Permit No. 5023-3

Comments: I told Ron that I talked to him about the town's wells in July. I asked him if the town has made any decisions about if they are going to use the wells for back up purposes or not. He told me that the town is going to have a special meeting on December 17 to discuss this matter.



Stacy J. Johnson
Natural Resources Project Engineer

Water Rights Division - DENR

Conversation or File Documentation

Name of Person: Ron Grajczyk

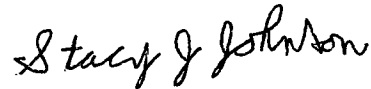
File No. 5023-3

Address: PO Box 12, Grenville SD 57239-0012 **County:** Day

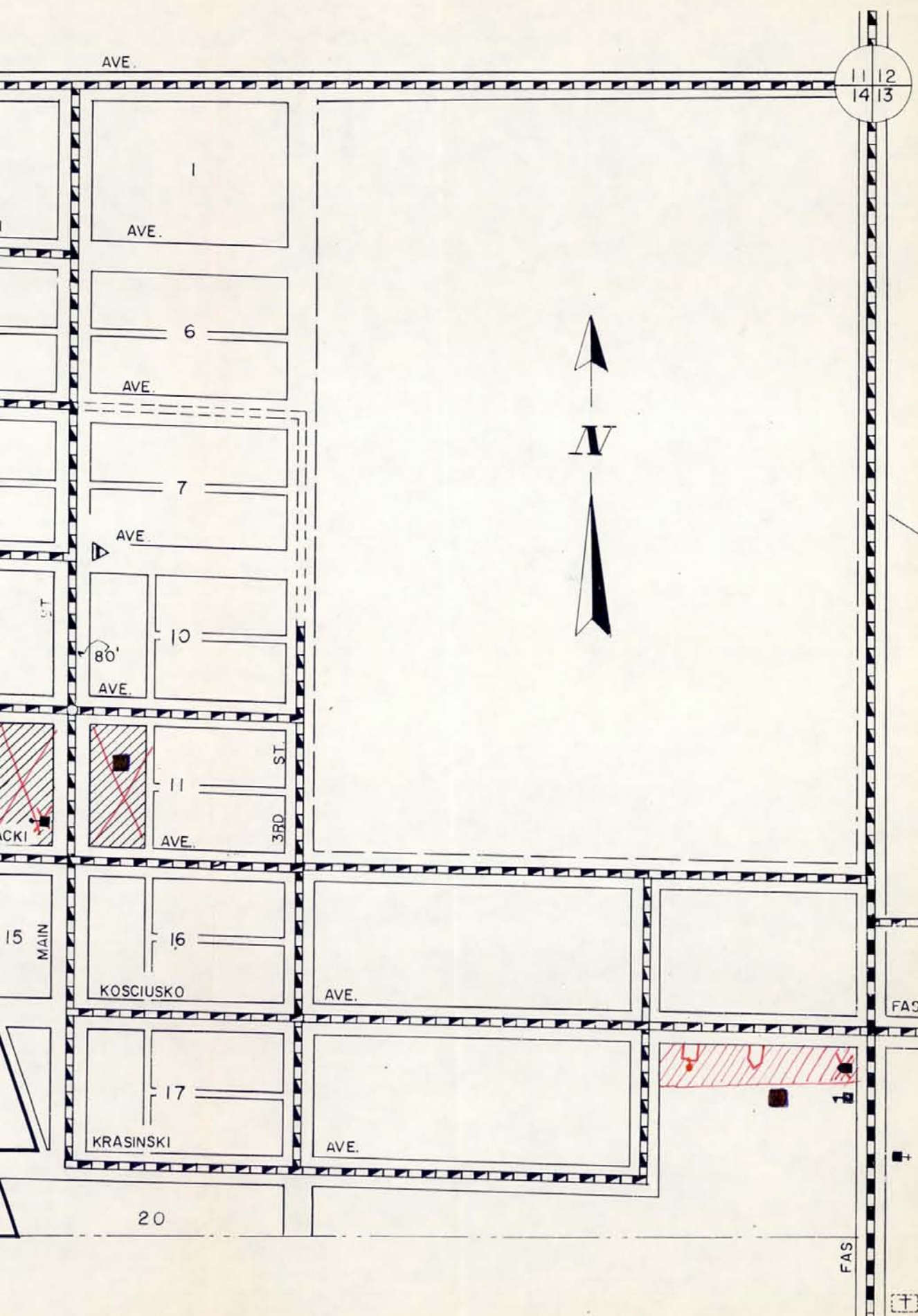
Date: January 13, 2003 **Telephone:** (605) 486-4125

RE: About Water Permit No. 5023-3

Comments: I asked Ron what the town of Grenville has decided to do with their wells. He told me that they are going keep them to use for fire and emergency use purposes. He told me that the wells still have pumps in them. Also there is still a distribution system in place. I told him that I would call him sometime this spring or summer when I am doing inspections in the area. I told him that I need to look at the wells and get some information from him about the wells for licensing purposes.



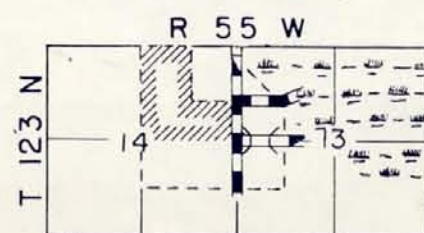
Stacy J. Johnson
Natural Resources Project Engineer



CITY MAP
GRENVILLE
 DAY COUNTY · SOUTH DAKOTA
 T 123 — R 55 W

SCALE
 0 300 ft.
 POP 154 (1970)

1971
 DRAWN BY
 DEPARTMENT OF TRANSPORTATION
 OFFICE OF SYSTEM ANALYSIS
 ALL STREET RIGHT OF WAY 66 FT.
 ALLEYS 16 FT.
 (UNLESS OTHERWISE INDICATED)
 UNOFFICIAL EDITION

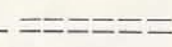
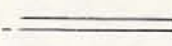
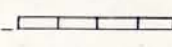
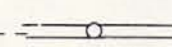
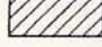


CORPORATE LIMITS OF GRENVILLE
 (HATCHING INDICATES PORTION SHOWN)

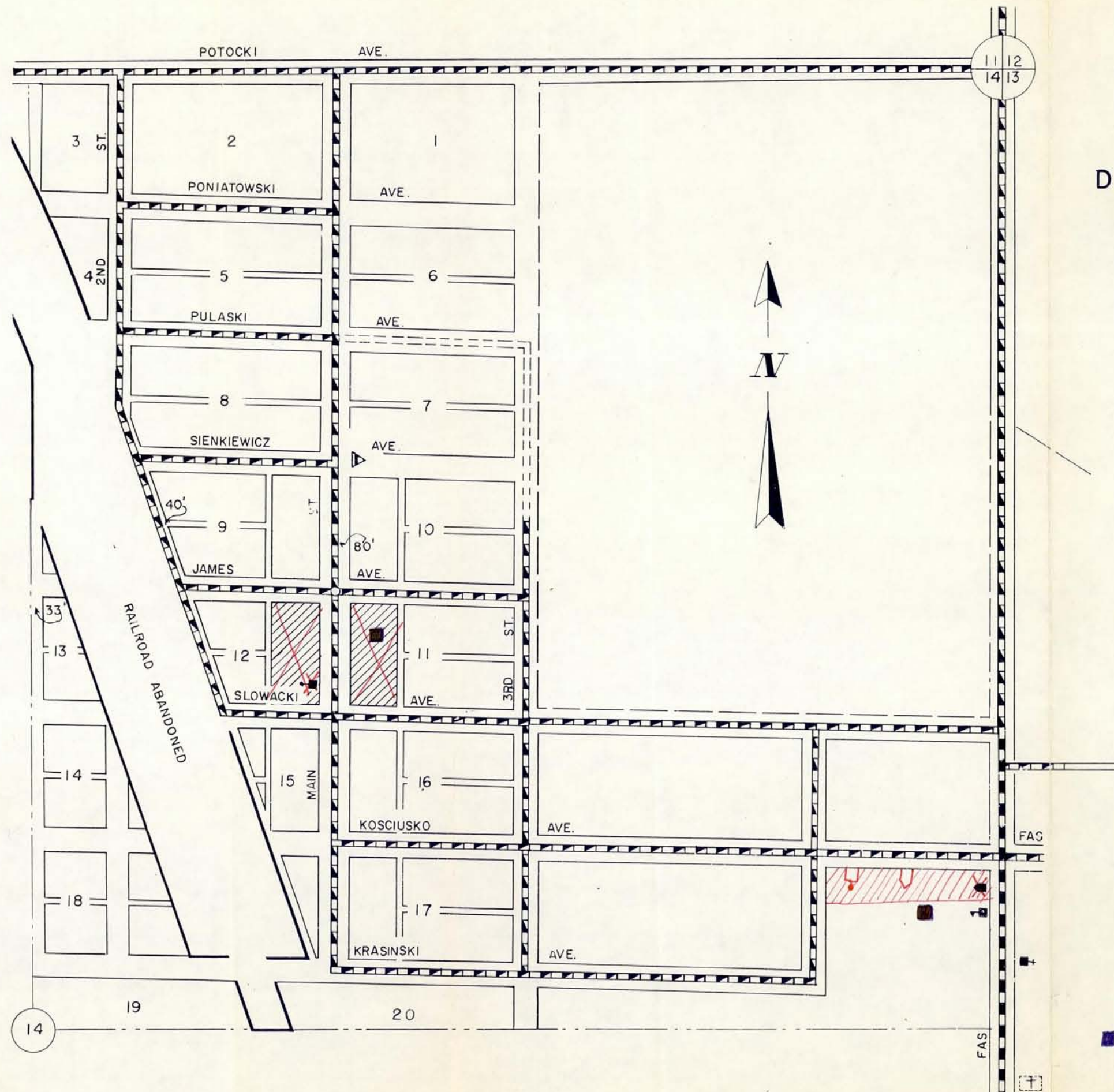
*Pres. of the board
 Adele F. Herrick*

■ *Location of Well*

LEGEND

- U.S. NUMBERED HIGHWAY  18
- STATE NUMBERED HIGHWAY  45
- FEDERAL AID HIGHWAY SYSTEM FA
- FEDERAL AID SECONDARY HIGHWAY SYSTEM FAS
- PRIMITIVE ROAD 
- UNIMPROVED ROAD 
- GRADED AND DRAINED ROAD 
- GRAVEL ROAD 
- BITUMINOUS SURFACED ROAD 
- PAVED ROAD 
- RAILROAD 
- TOWN CENTER 
- CENTRAL BUSINESS DISTRICT 
- POST OFFICE 
- SCHOOLHOUSE 
- CHURCH OR OTHER RELIGIOUS INSTITUTION 
- BALL FIELD 
- CEMETERY 
- TOWN HALL 

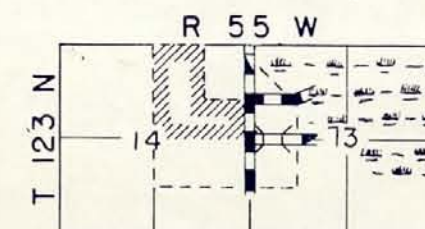
App & Map # 5023-3



CITY MAP
GRENVILLE
 DAY COUNTY · SOUTH DAKOTA
 T 123 — R 55 W

SCALE
 0 300 ft.
 POP 154 (1970)

1971
 DRAWN BY
 DEPARTMENT OF TRANSPORTATION
 OFFICE OF SYSTEM ANALYSIS
 ALL STREET RIGHT OF WAY 66 FT.
 ALLEYS 16 FT.
 (UNLESS OTHERWISE INDICATED)
 UNOFFICIAL EDITION



CORPORATE LIMITS OF GRENVILLE
 (HATCHING INDICATES PORTION SHOWN)

*Pres. of the board
 Adele F. Herrick*

■ *Location of Well*

- U.S. NUMBERED HIGHWAY
- STATE NUMBERED HIGHWAY
- FEDERAL AID HIGHWAY
- FEDERAL AID SECONDARY ROAD
- PRIMITIVE ROAD
- UNIMPROVED ROAD
- GRADED AND DRAINED
- GRAVEL ROAD
- BITUMINOUS SURFACED
- PAVED ROAD
- RAILROAD
- TOWN CENTER
- CENTRAL BUSINESS DISTRICT
- POST OFFICE
- SCHOOLHOUSE
- CHURCH OR OTHER RELIGIOUS BUILDING
- BALL FIELD
- CEMETERY
- TOWN HALL

App & Map # 5023-3

Permit No. 5023-3
Big Sioux River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, **June 20, 2006**, made a thorough examination of the water use system constructed by the **Town of Grenville** of **P. O. Box 12, Grenville, SD 57239** holder of Permit No. **5023-3**, bearing the priority of **June 7, 1984** authorizing the diversion of **0.12** cu. ft. per second of the waters of the **Pleistocene Aquifer** for **Municipal** purposes, in **Day** County.

Inspection contact & relationship to permit holder, if applicable: **Pam Fromelt, Finance Officer, 486-4696**

A. Works used to divert the water:

Well Information: Well 4

- 1) Well Drilling Firm: **Falk Bros. Well Drilling**
- 2) No. of Wells **1**
- 3) Depth(s) **383** feet
- 4) Well log is available **Y**

Casing:

- 1) Diameter **4** inches
- 2) Length **365** feet
- 3) Type **Steel**

Screen:

- 1) Type **Stainless steel**
- 2) Length **15** feet
- 3) Static water level **42** feet

Pump:

- 1) Make **Goulds submersible**
- 2) Model **UTS 3 phase**
- 3) Size **5 hp**
- 4) Capacity **50** GPM

Well Information: Well 5

- 1) Well Drilling Firm: LTP Enterprise
- 2) No. of Wells 1
- 3) Depth(s) 418 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 6 inches
- 2) Length 387 feet
- 3) Type Schedule #40

Screen:

- 1) Type Stainless steel
- 2) Length 25 feet
- 3) Static water level Unkown feet

Pump:

- 1) Make Goulds submersible
- 2) Model UTS 3 phase
- 3) Size 5 hp
- 4) Capacity 50 GPM

B. Works used to transport water to place of use:

- 1) Type PVC
- 2) Size 6, 4 and 2 inches

C. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period NA
- 3) Exceptions to compliance are: None

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

Well 5: Approximately 1500 feet south and 1700 feet west of the NE corner of Section 14-T123N-R55W (N 45.46770, W -97.39286).

Well 4: Approximately 2330 feet south and 320 west of the NE corner of Section 14-T123N-R55W (N 45.46540, W -97.38758).

Report of Examination of Works

Permit No. 5023-3

The works are capable of diverting and conveying to the place of use 0.22 cu. ft. per second of water which is to be used for **Municipal use**. Water has been put to beneficial use.

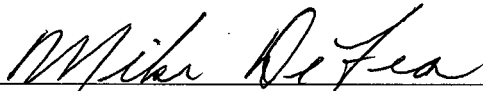
The license should be issued for 0.12 cfs.

All structures, wells and lands on map Y

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

Water Permit No. 5023-3 authorizes the diversion of 0.12 cfs of water from two wells (well 4 and well 5) from the Pleistocene aquifer. Currently, the Town of Grenville is on a rural water system and does not use the wells for its municipal water supply. Both wells are functional with each well having 50 gpm pumps installed. The Town of Grenville keeps these wells operational in case of fire and emergency use purposes. Administrative Rule 74:02:01:37.02 states that if a water supply is maintained for either fire protection or standby purposes, or both, it is not nonuse of a water permit, right, or vested right if the water diversion works are maintained in working condition for immediate use upon demand. Works to divert appropriated water must include wells equipped with functional motors, pumps, and appurtenances to convey water.

As the use of these two wells simultaneously would exceed the amount of water authorized by the permit, the license should be issued with the qualification that only one well be used at any given time.



Mike DeFea

Natural Resources Project Engineer
DENR, Water Rights Program

Date report completed: February 28, 2007

well 4

Marilyn Mott
Box 4
Grenville, S. D.
57235

FALK BROS. WELL DRILLING
HANKINSON, NORTH DAKOTA

SUBJECT:

City Well of Grenville
Grenville, South Dakota

Three Copies:

- a. S. D. State Water Resources Commission
- b. City of Grenville
- c. Falk Bros. Well Drilling
S. D. Drillers License # 336

Location of well

Location of Test Hole # 1 Block 9 - Lot 16

Location of Test Hole # 2 C - St Joseph Block.

This report contains Log and Physical Characteristics
of Well and Pump

Log and Test Pumping of Test Holes

Recommendations for Cleaning and Maintenance and
Field Analysis of Water Sample

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FALK BROS. WELL DRILLING
HANKINSON, NORTH DAKOTA

City Well of Grenville, South Dakota

LOCATION

RIG USED IN DRILLING..... 1000 Mayhew Forward Rotary

DIAMETER OF HOLE DRILLED..... $6\frac{1}{4}$ Inches

DEPTH OF HOLE..... 383 Feet

CASING..... Steel Threaded

PIPE WEIGHT..... 11 pounds per foot

PIPE DIAMETER..... 4 Inches (From 0 to 365 ft.)

SCREEN..... Stainless Steel
(Slot size 12 from 365 to 371 ft.)
(Slot size 10 from 371 to 377 ft.)

TOTAL DEPTH OF WELL..... 377 Feet

TYPE SEAL USED BETWEEN SCREEN AND CASING.... K Packer, Screen Plugged
on Bottom with 3 Plug

TYPE OF WELL..... Gravel Pack (Depth to Water 42 ft)

LOG OF WELL FOLLOWS

FALK BROS. WELL DRILLING
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LOG OF WELL:

Yellow Clay.....	0 - 22 ft.
Gravel.....	22 - 54 ft.
Casing and screen installed to... 54 ft.	
Overnight 3" of water in bottom	
Gravel and Shale (Blue Clay).....	54 - 102 ft.
Smooth Shale (Soft to Medium Hard).....	102 - 310 ft.
Hard Shale.....	310 - 333 ft.
Sand Lens (10 Slot Grade).....	333 - 335 ft.
Shale.....	335 - 337 ft.
Sand Lens (12 Slot Grade).....	337 - 341 ft.
Hard Shale.....	341 - 363 ft.
Sand Lens (12 Slot - 10 with fine spots)	363 - 378 ft.
Shale.....	378 - 383 ft.

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HANKINSON, NORTH DAKOTA

PHYSICAL DESCRIPTION OF WELL:

6 $\frac{1}{4}$ inch hole was drilled to 383 feet with sand lens from 363 - 378 feet.

Casing was then set to 365 feet after hole was flushed with clear water.

12 feet Stainless Steel screen was installed from 365 - 377 feet.

After screen was in place, well was jetted with high pressure water jet and 12 bags of Silica Sand (Flint grade) were introduced into the well outside of casing. This sand was then allowed to settle around screen forming a 2 $\frac{1}{2}$ inch thick gravel pack. Also Silica Sand was placed up the hole approximately 50 feet above screen.

Well development was then started.

High Pressure Jetting and Phosphate were used to settle gravel pack and remove voids.

Well was then pumped with air and alternately jetted for approximately 5 hours. Well was pumping over 200 gallons per minute with air and no other pumping tests were used.

Well was then disinfected with HTH and allowed to stand overnight. Flushed to waste next morning.

1/8 inch washed sand was then introduced into space above Silica Sand to top of the hole.

30 feet of 1 inch pipe was inserted outside of casing and 8 bags of neat cement was pumped down 1 inch pipe to form the cement grout seal.

PUMP INSTALLATION:

Type of Pump.....Goulds UTS 5hp 3 Phase Submersible
Length of Drop Pipe.....150 feet 2 inch
Submersible Cable.....12 - 3
Tanks.....4 X-Trol # 252

3/
FAIK BROS. WELL DRILLING
HANKINSON, NORTH DAKOTA

CLEANING AND MAINTENANCE OF WELL:

SCREEN MUST NEVER BE PULLED: This would destroy the gravel pack and ruin well.

Cleaning of screen with Johnson NU-WELL every 5 years is recommended at this time.

Pump can be inspected and tested and drop pipe can be checked.

At this time well can be disinfected and also City if so desired.

Field Analysis indicate 32 grains hard and 1 - $1\frac{1}{2}$ PPM iron.

6)

FAULK BROS. WELL DRILLING
HANKINSON, NORTH DAKOTA

TEST HOLE # 1

Log:

Yellow Clay..... 0 - 32 ft.
Gravel..... 22 - 77 ft.
Shale and Gravel..... 77 - 85 ft.

Casing installed from..... 0 - 65 ft.
Screen installed from..... 65 - 77 ft.

Well was developed and pumped with 3 gpm
pumping rate no water head

Test Hole was thus abandoned.

TEST HOLE # 2

Log:

Yellow Clay..... 0 - 23 ft.
Gravel..... 23 - 64 ft.
Shale and Gravel..... 64 - 105 ft.
Smooth Soft Shale..... 105 - 190 ft.
Hard Shale..... 190 - 195 ft.
Sand Lens mixed with Shale..... 195 - 220 ft.
Hard Shale..... 220 - 255 ft.

Test Hole Termination 255 feet.

This Bid accepted

James Falk
Falk Bros. Well Drilling
Hankinson, North Dakota
58041

Bid made on February 10, 1975:

City well, city of Grenville, South Dakota

Type of well proposed:

4" Black pipe, Stainless steel screen, submersible pump,
35-50 gpm

Price:

4" Black pipe 11 lb. per ft R&D	\$4.50 per ft
3" SS screen	45.00 per ft
K Packer - Seal and Plug	45.00
Price of Drilling	6.00 per ft
Price of initial move	100.00
Cost of Grouting	50.00
(Developing and pumping included in price of screen)	

Example of 100' well with 6' screen:

Pipe and Drilling	\$1050.00	<i>3 45 6 270</i>
6' SS screen	270.00 330.00	
K Packer-Seal	45.00	
Price of move	100.00	<i>1675.00</i>
Grouting	50.00	<i>260.00</i>
	\$1675.00 <i>\$1415.00</i>	<i>\$1415.00</i>

Will not price pump until well completed as I do not know which one is suited to the well.

Cost of Dry hole \$2.50 per ft

Cost of cased hole where casing is pulled and well abandoned 4.50 per ft

I agree to complete well within 75 days, starting March 1st.

James M. Falk
James M. Falk
Falk Bros. Well Drilling
Hankinson, North Dakota
58041

AA A M. S. M. A

FALK BROS. WELL DRILLING
HANKINSON, NORTH DAKOTA

City of Grenville, South Dakota

1	-	10 Slot Stainless Steel Screen.....	\$	270.00
1	-	12 Slot Stainless Steel Screen.....		270.00
1		KPacker @ Drive Shoe.....		45.00
		365 ft. 4 inch Pipe (casing).....		1,612.50
1	-	3" Plug (solid).....		4.20
1		Goulds UTS 5hp 3 Phase Submersible.....		1,277.00
1		Pigtail.....		9.40
		168 ft. 2" Galvanized Pipe.....		294.00
8	-	2" Long Sleeve Couplings.....		32.64
		167 ft. 12 x 3 Sub. Wire.....		83.50
1	-	4" x 2" Well Seal.....		8.26
4		Well X-Trol Tanks # 252.....		788.00
1	-	2" Curb Stop.....		94.60
1	-	2" Curb Box.....		24.60
6	-	2" Brass Adapters.....		51.60
1	-	5hp Magnetic Starter (3 Phase).....		122.40
3	-	2" Galvanized Unions.....		14.10
2	-	2" Galvanized 45 degree Street Els.....		7.86
2	-	2" Galvanized 90 degree Street Els.....		6.94
2	-	2" Galvanized 90 degree Els.....		5.76
6	-	2" Galvanized Tees.....		23.56
6	-	2" Galvanized Couplings (Standard).....		10.26
10	-	2" Galvanized 6" Nipples.....		27.80
8	-	1 1/2" Galvanized 4" Nipples.....		4.56
4	-	1 1/2" Galvanized Couplings.....		3.60
4	-	1 1/2 x 2" Galvanized Bushings.....		5.32
1	-	2" Brass Gate Valve.....		15.62
1		Wire Splice.....		4.10
1	-	4" x 6" Black Nipple.....		8.51
1		Pressure Switch.....		14.82
1		Pressure Gauge & Fittings.....		7.31
12	-	2" Stainless Steel Clamps.....		7.68
1	-	2" Brass Nipple (6" Long).....		5.21
1	-	2" Brass Coupling.....		4.96

Town Of Grenville
P. O.Box 12
Grenville, SD 57239

Water Permit No. 5023-3



Mike DeFea

Mike DeFea
Natural Resources Engineer
DENR, Water Rights Progra
February 28, 2007



0 750 1,500 3,000 Feet



March 6, 2007

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

5023-3

Pam Fromelt, Finance Officer
Town of Grenville
PO Box 12
Grenville SD 57239

Dear Ms. Fromelt:

On June 20, 2006 the investigation of your water use system, including the extent of application of water to beneficial use, as developed under Water Permit No. 5023-3, was completed by Mike DeFea, a staff engineer with our program. Your final water right document, the water license, can now be issued.

State law requires that we charge a \$50.00 fee for the investigation and issuance of the water license. Upon receipt of the \$50.00 fee from you, we will complete processing your water license. The check or money order for the fee should be made payable to the "Water Rights Program".

Our understanding is that the town is hooked to rural water for their municipal water supply. The two wells authorized by Water Permit No. 5023-3 will be licensed as a back-up water supply for either fire protection or standby purposes. Your licensed water right will be similar to a property right that can not be lost as long as the water use continues and you abide by the permit requirements.

If you have any questions regarding the water permit, investigation of your water use system or payment of the fee, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 3/12, 20 07

RECEIVED OF THE TOWN OF GRENVILLE SD 57239

The following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>5023-3</u>		
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____	50	00
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	50 00

No.

02983

By

Garland Erbe

Chief Engineer

REJ



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

MAR 16 2007

5023-3

Pam Fromelt, Finance Officer
Town of Grenville
PO Box 12
Grenville SD 57239-0012

Dear Ms. Fromelt:

Enclosed is Water License No. 5023-3. This is the final water right document completing your process of obtaining a Water Right. Also enclosed is Receipt No. 02983 in the amount of \$50.00 which you paid for the investigation and issuance of the Water License and a map prepared by the staff engineer who conducted the field investigation.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 5023-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

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

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 5023-3

(1) The Town of Grenville, PO Box 12, Grenville SD 57239 made Application No. 5023-3, June 7, 1984 for a water permit to divert 0.12 cubic feet of water per second from ground water (two wells), Day County, South Dakota for municipal purposes. Permit No. 5023-3, with a priority date of June 7, 1984 was approved September 26, 1984 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before September 26, 1989 and for the application to beneficial use of said water on or before September 26, 1993.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.12 cubic feet of water per second for beneficial use. The location of the diversion points are:

- **1,500 feet south and 1,700 feet west of the NE corner of Section 14, T123N, R55W (SW ¼ NE ¼)**
- **2,330 feet south and 320 feet west of the NE corner of Section 14, T123N, R55W (SE ¼ NE ¼)**

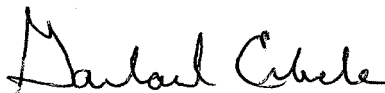
Grenville is now hooked to a rural water system and no longer uses the wells for their municipal supply. The wells are maintained for fire protection and emergency standby purposes.

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

(4) Pursuant to South Dakota Water Law 46-5-30.1 the Town of Grenville the holder and/or owner of Water Right No. 5023-3 is issued a license to appropriate water, the right to use 0.12 cubic feet of water per second from ground water with a priority date of June 7, 1984 from the locations specified in (2) of this license. The water is used for municipal purposes (standby).

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 5023-3 and subject to the following qualification:

- The wells approved under this water right will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this water right shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.



Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAR 16 2007

date

