

2770-3

Considered

7-21, 1976

2. Name of Applicant LEE F. SCHREIVER

3. Post Office Address HURLEY

4. Amount of water claimed 1.7

5. Source of water supply 150' DEEP WELL

6. Water to be used for IRRIGATION

Acres to be irrigated 120

7. Water to be diverted and used in TURNER county
about 1W, 3N miles of DAVIS

8. Proof of Publication Received 7-8-76

Not received

9. Application Approved

Subject to

Not Approved

Action deferred

10. Remarks:

No. 2770-3Map No. 2126-3 Water Division No. 3 VERMILLION RIVER District
(Blank) to be Filled by the Engineer for the W. R. C.)

APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

(NOTE--Draw a line through items not used, if applicable)

1. Name of Applicant Leo F. Schriever
 Postoffice address Hurley, State S. Dak. 57035
 If a corporation show date and place of incorporation _____ contract _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) _____
3. Name of diversion work Schriever Irrigation System No. 1
4. Amount of water claimed (cubic feet per second) 2.3 1.7 MAXIMUM ALLOWABLE
well
5. Source of water supply _____
6. Location of point of diversion NW 1/4 17-98-52 - N40°E 340 ROPS FROM
THE SE CORNER, SECTION 7, T98N, R52W
 _____ County Turner

7. Annual period or periods during which water is to be used May - Nov.
8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation
9. For irrigation use, _____ Total number of acres to be irrigated 120
 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.
<u>SW 1/4 17-98-52</u>	<u>40</u>		
<u>SE 1/4 17-98-52</u>	<u>30</u>		
<u>Approx. 50 ac. in the</u>	<u>50</u>		
<u>N 1/2 17-98-52*</u>			

*River runs thru farm Attach sheet if more space is needed

10. Time required to complete construction of water supply system 2 years. Additional time required to complete application of water to the proposed beneficial use 1 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Hurley Leader
12. Principal Features of the Proposed Water Supply System.

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

Well

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

Pipeline

C. Works proposed to apply water to beneficial use.

Big Gun Sprinkler SystemEstimated Total Cost \$ 20,000.00Attachments: 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 TurnerI, Leo F. Schriever, 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 Leo F. SchrieverSubscribed and sworn to before me this 17th day of May, 1976

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2770-3

LEE E. SCHRIEVER
(Applicant)

HURLEY
(Post Office Address)

SOUTH DAKOTA 57036 With the following modifications:
(State)

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

Date of first receipt of application MAY 18, 19 76

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

Date of receipt of corrected application JUNE 4, 19 76

Approved JULY 22, 19 76, Recorded in Book 15 Page 245

WATER RIGHT PERMIT NO. 2770-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2770-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which a applicant may claim right is MAY 18, 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 22, 19 77
3. The whole of said work is to be completed on or before JULY 22, 19 78
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JULY 22, 19 79
5. The water appropriated shall be used for the purpose of IRRIGATION

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 2.0 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 the irrigation purposes said appropriation must be limited to not more than 3 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 JULY 22, 19 79; said water to be used during the following described annual period: MAY - NOVEMBER

Witness my hand this 30TH day of JULY, 19 76

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer

Certificate of Construction Issued JULY 21, 19 80

Water License Issued JULY 21, 19 80

June 1, 1976

Mr. Lee F. Schriever
Hurley, SD 57036



Dear Mr. Schriever:

Enclosed please find the original copy of the report of analysis on water sample submitted by you on May 6. It is #76-483 and I am also enclosing a copy of AES publication #13 with the approximate quality of this water for irrigation uses indicated by a red cross in the chart on the outside back cover of this pamphlet. This water is suitable for irrigation use. In most cases the soils which you have are quite well suited to irrigation in the southwest portion of the quarter. However, soil area #12, which occupies the major northwest-southeast portion of the quarter, is rather poorly drained and will occasionally have periods of high water table. In most years, however, there will be no problem. The chemical constituents of this water are such that there should be no difficulty arising from the use of the water. That is, there is no appreciable sodium problem and the total salt load is moderately high. In the climatic zone of Turner County, you should not have difficulty with salt accumulation with this because of occasional substantial rains which cause leaching in the area. Therefore, I am recommending that your water use permit be approved with the caution that you take care not to raise the water table unduly in soil area #12.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ckb

Enclosures

cc: State Conservation Commission

D. Pahl

Merlin Pietz, County Extension Agent

CONSERVATION
COMMISSION
FORM W1 #1

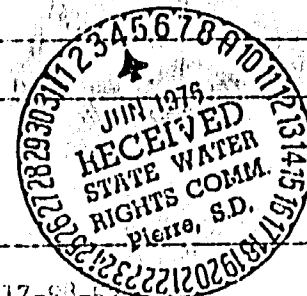
STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(THIS FORM REQUIRED FOR PROPOSED GROUND WATER IRRIGATION ONLY)



NAME Lee F. Schriever

ADDRESS Harley, S. Dak. 57035

COUNTY Turner



LEGAL DESCRIPTION

1. WELL LOCATION NE 1/4 Sec 17-22-42
2. LOCATION OF AREA TO BE IRRIGATED Approx. 120 ac. in the NE 1/4 Sec 17-22-42

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT _____ GUN _____
4. CROPS TO BE IRRIGATED Corn, Oats, Alfalfa

WATER QUALITY

5. SAMPLE NUMBER 76-483
6. SALINITY (EC X 10⁶) 1095 (high)
7. SODIUM (SAR) 2.01 (low)
8. RESIDUAL SODIUM CARBONATE (meq/l.) 0

I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and: the soils information has been acquired from Turner Co. Conservation District, County Extension office or Soil Conservation Service.

and: that the legal description for the location of the well and land to be irrigated is true and correct.

Lee F. Schriever
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
12th DAY OF May 1976.

[Signature]
(TITLE OR SEAL)

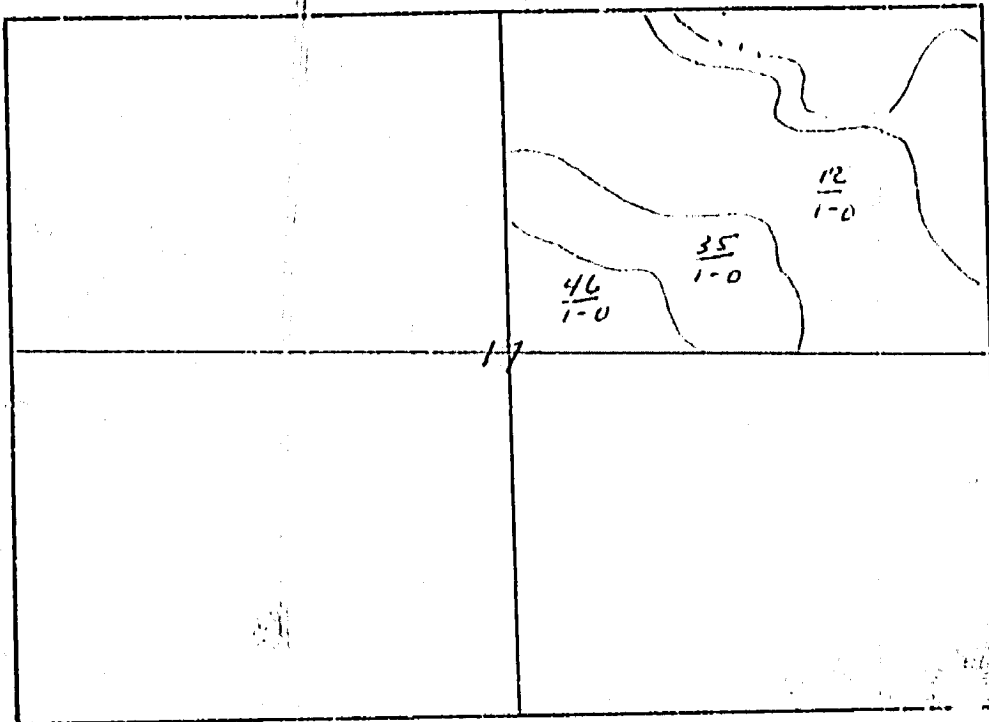
[Signature]
APPROVED/DENIED

Comm April 17-29-82 (SOILS INFORMATION ON REVERSE SIDE)

R. 52 W.

MAP

T. 28 N.



NARRATIVE

12
1-0

Deep, clayey, limy, rather poorly drained soils on bottom lands. Few limitations in use.

46
1-0

Moderately deep, well drained soils with 20-40" of loamy material over sand and gravel on nearly level upland slopes.

35
1-0

Deep, loamy, well and moderately well drained soils on bottom lands that sometimes receive beneficial overflow. They have few or no limitations in use.

REPORT OF ANALYSIS
 Water Quality Laboratory
 Water Resources Research Institute
 South Dakota State University
 Brookings, South Dakota 57006



Submitted by: Lee Schriever
 Address: Hurley, SD 57036

Date Rec'd: May 6, 1976
 Sample No.: 76-483
 Identification: 612
 Date: Dec. 17, 1980 R 524

WATER ANALYSIS

Calcium (Ca)	130	ppm*	6.50	me/l**
Magnesium (Mg)	32	ppm	2.71	me/l
Sodium (Na)	99	ppm	4.31	me/l
Potassium (K)	12	ppm	0.30	me/l
Sulfate (SO ₄)	345	ppm	7.18	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	4	ppm	0.11	me/l
Bicarbonate (HCO ₃)	346	ppm	5.68	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	284	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	1095	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	2.01			
Sodium	31.18	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.40			
Others:				

*ppm=parts per million
 **me/l=millequivalents per liter
 ***g.p.g.=grains per gallon



COMMENTS: Total cations 13.82 me/l
 Total anions 12.97 me/l

By: Shirley Matten

Service Performed

Amount Due

Irrigation analysis

\$8.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-483

Amount Enclosed \$

Signed

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

D. Well Information or Estimates

(1) Drill Hole Diameter 1 1/2", Depth 150'
 (2) Casing, Type steel (wood, concrete, steel, etc) Diameter 1 1/2" Thickness 3/8"
 (3) Perforated Screen.
 Type Johnson, Diameter 1 1/2", Length 30'
 (4) Gravel Pack Thickness 1", Length of gravel pack 100'

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 No log available - water bearing sand
and gravel at approx. 20'

Depth to top of water bearing material 20'

Depth to bottom of water bearing material 180'

Thickness of water bearing material 160'

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

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

On same owner's property 20 rds. On property owned by others 120 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.

n/a

Lee F. Schreiner
 Signature of Applicant

Permit No. 2770-3

Water Diversion No. 3 Vermillion River Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That Lee F Schriever

_____ the holder _____ of
Permit No. 2770-3, issued upon Application No. 2770-3, bearing date of priority of _____
May 18, 1976 authorizing the diversion of 1.7 cu. ft. per second of the waters of _____
ground water (one well) County of Turner, State of South Dakota at _____
a point N35°E, 3350' from the SW corner Section 17, T98N, R52W

_____, for Irrigation

_____ purposes, has _____ complied with the provisions of the laws of the State of South Dakota relating to proof of
completion of the works of diversion set out and described in said Permit; that said works are found in satisfactory
condition for diverting and conveying to the place of intended use 1.4 cu. ft. per second of water.

Date July 21, 1980

John Hatch

JOHN HATCH, Chief Engineer
Water Rights Division

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 2770-3

(1) WHEREAS, On the 18th day of May A. D. 1976
Lee F Schriever

made Water Right Application No. 2770-3 for a permit to use 1.7 cubic feet per second of the waters of ground water (one well)

County of Turner, State of South Dakota, for Irrigation purposes; and

(2) WHEREAS, On the 22nd day of July A. D. 1976
Permit No. 2770-3, with a date of priority of May 18, 1976

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 22nd day of July A. D. 1978 and for the application to beneficial use of said water on or before the 22nd day of July A. D. 1979

and:

(3) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to completion of the construction of the water supply system and is entitled to divert 1.4 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,

to irrigate the following lands all in Section 17, T98N, R52W	
NW¼ NE¼	24 acres
NE¼ NE¼	17 "
SW¼ NE¼	40 "
SE¼ NE¼	35 "
TOTAL	116 acres

(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 Lee F Schriever

_____ of Hurley, SD

the holder _____ and owner _____ of said permit No. 2770-3 a water right, dating from May 18, 1976

_____ to use of 1.4 cubic feet per second of the waters of ground water (one well)

in the County of Turner and State of South Dakota, or so much thereof as may be necessary for the purposes hereinbelow mentioned, to be diverted at a point N35°E, 3350' from the SW corner, Section 17,

T98N, R52W

and conducted to and upon portions of land in Section 17, T98N, R52W more fully
described on the face of this license

for the purpose of Irrigation

Subject to any limitations listed in Water Right Permit No. 2770-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 21st day of July A. D.
Nineteen Hundred and Eighty

WATER MANAGEMENT BOARD

By:

John Hatch
Chief Engineer, Executive Officer JOHN HATCH

No. 2770-3

Publish first publication, on or before

July 8, 1976

NOTICE OF INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

June 21, 1976

Notice is hereby given that Lee P. Schriever

whose post office address is Murley, 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 1.7 cubic feet of water per second of time from ~~the~~ ground water through the Schriever Irrigation System #1, the point of diversion of which is to be located in the _____

SW $\frac{1}{4}$ NE $\frac{1}{4}$

of Section 17, Twp. 93N, Range 52W. Said water to be used for the purpose of providing irrigation on the following described land:

NE $\frac{1}{4}$, Section 17, T98N, R52W

This application No. 2770-3 will be considered by the Water Rights Commission at the Court House in Winner, South Dakota upon the 21st day of July, 1976 at 10:00 A. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES, Water Rights Specialist

BFJ/bw

cc:

Lee P. Schriever, Murley, S.D. 57036

Form 8 - Proof of Publication - Notice of
Intent to Appropriate Water

No. 2770-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Turner) ss.

I, James E. Wilpf hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Hurley Leader

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 Hurley

County of Turner and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:

July 1, 1976

July 8, 1976

James E. Wilpf
(Signature)

Publisher
(Title)

7-8-76
(Date Signed)

NOTICE OF INTENT TO
APPROPRIATE WATER

No. 2770-3
Pierre, S. Dak. 57501
June 21, 1978

Notice is hereby given that Lee
F. Schriever, whose post office
address is Hurley, South Dakota,
has made an application in ac-
cordance with the provisions of
the water laws of South Dakota
for a permit to appropriate for
beneficial use 1.7 cubic feet of
water per second of time from
ground water through the Schri-
ever Irrigation System No. 1,
the point of diversion of which
is to be located in the

SW $\frac{1}{4}$ NE $\frac{1}{4}$
of Section 17, Twp. 98N, Range
52W. Said water to be used for
the purpose of providing irriga-
tion on the following described
land:

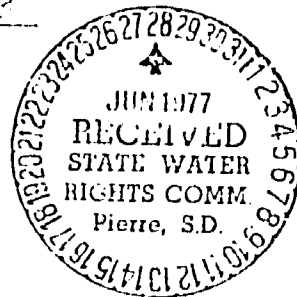
NE $\frac{1}{4}$, Section 17, T98N, R52W.
This application No. 2770-3 will
be considered by the Water
Rights Commission at the Court
House in Winner, South Dakota
upon the 1st day of July, 1978 at
10:00 A.M. All interested persons
may appear and be heard.

WATER RIGHTS COMMISSION,
By: Burton F. Jones,
Water Rights Specialist
Lee F. Schriever,
Hurley, S. D. 57036
Publish: July 1 & 8, 1978.



Form 10.

No. 2770-3



NOTICE OF COMPLETION OF WORKS AND/OR
APPLICATION OF WATER TO BENEFICIAL USE

Post Office Hank, S. Dak

Date June 25, 1977

TO: Water Rights Commission
Joe Foss Building
Pierre, South Dakota 57501

Dear Sirs:

This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to the maximum extent it is going to be used, not exceeding the amounts as specified in Water Right Permit No. 2770-3.

Water Right Permit No. 2770-3 states that the diversion system is to be constructed by July 22, 1978 and that the water is to be put to beneficial use by July 22, 1977.

The diversion system was completed on June 5, 1977.
Applying the water to beneficial use was completed on June 8, 1977.

You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.

Lee F. Schriener
(Signature)

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 7604

PIERRE, July 21, 1980

RECEIVED OF Lee Schriever, Hurley SD 57036

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

Fee for Application for Permit to Appropriate Water No. (examination, processing, recording and filing)		
Fee for inspecting Construction, and issuing Cert. of Construction No. 2770-3)	50	00
Fee for inspecting Beneficial Use, and issuing Water License No. 2770-3)		
Fee for issuing Location Certificate-Dry Draw, No.		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for		
(any other work as provided by law)		
TOTAL	50	00

WATER RIGHTS COMMISSION

By *John Hatch*
 Chief Engineer, Executive Officer
 JOHN HATCH (JH)

Permit No. 2770-3Water Division 3 VERMILLION RIVER Water DistrictREPORT OF EXAMINATION OF WORKS
AND/OR APPLICATION OF WATER TO BENEFICIAL USE

TO: WATER RIGHTS, WATER MANAGEMENT BOARD / FOSS BLDG., PIERRE, SOUTH DAKOTA 57501

I have this day made a thorough examination of the water use system constructed by LEE F.SCHRIEVER of HURLEY holderof Permit No. 2770-3, bearing date of priority of MAY 18, 1976authorizing the diversion of 1.7 cu. ft. per second of the waters of GROUNDWATERfor IRRIGATION purposes, in TURNER 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:

184' DEEP WELL WITH 14" STEEL CASING - 25' SS SCREEN
NATIONAL PUMP - 8" WITH RANDOLPH GEAR HEAD AT 1760 RPM
POWERED BY #265 CUMMINS DIESEL MOTOR

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

3000' OF 6" MAINLINE

C. Works used to apply water to beneficial use.

E Z RAIN TRAVELLING SPRINKLER WITH NELSON BIG
GUN #N200 WITH 1 7/8" ORIFICE - 660' OF 5" RUBBER HOSEThe system is in the following condition: GOODThe point of diversion is located N 35° E 3350' FROM THE SW
CORNER, SECTION 17, T98N, R52WThe works are capable of diverting and conveying to the place of use 1.4 (630 GPM)
cu. ft. per second of water which is to be used for IRRIGATIONWater has been put to beneficial use to the maximum extent as follows ALL IN SECTION 17, T98N, R52W

NW ⁴ NE ⁴	24 ACRES
NE ⁴ NE ⁴	17 "
SW ⁴ NE ⁴	80 "
SE ⁴ NE ⁴	35 "

comprising a total of 116 acres of land.Date JUNE 18, 1980
Burton Jones
(Signature)

R. 5

124.9

Land To Be Irrigated:

Approx. 120 ac. as outlined
in Green.

101.2

3153

PROPOSED
IRRIG. WELL
No. 1

AS
DRILLED

8.2

T. 98 N.

30.7

40.9

35.0

N. 55° E.
340 RODS

119.8

52.9

Lee E. Searlevar, Landowner
Lee E. Searlevar, Owner

System No. 1

9812

20

450

79.7

3153

MAP 2171-3



2770-3

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501 3181

NOV 14 1994

5413-3

Lee Schriever
RR 1, Box 28
Hurley, SD 57036

Dear Mr. Schriever:

Enclosed is Water License No. 5413-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413895 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

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. 5413-3, 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.

Very truly yours,

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

gm
enclosures

NOTE: The applicable portions of Water Right No. (2770-3) have been incorporated into this Water License No. 5413-3.