

Considered: _____

WATER PERMIT NO. 5517-3

Phone: 339-7059

Name of Applicant: Zoological Society of Sioux Falls/Parks Dept.

Post Office Address: 805 Kiwanis St, Sioux Falls SD 57104

Amount of Water Claimed: 35 gpm (0.07 cfs) Total Acres: NA

Source of Water Supply: groundwater

Water to be used for: commercial County: Minnehaha

About _____ miles _____ of _____

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY _____ Date Received: 12-13-90 Fee: \$50.00 Remarks _____

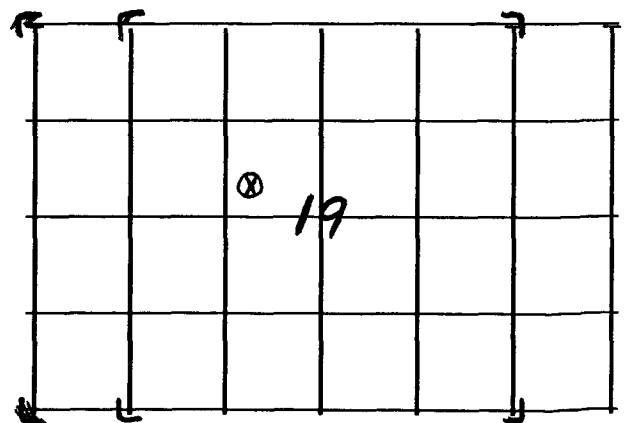
Corrected Application Received _____ Period of Annual Use March 1 - Dec 31

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

WI-1 Description same as Application YES _____ NO _____ REMARKS _____

Diversion Point: SE 1/4 NW 1/4 19-101-49

Land to be Irrigated: _____



Well Log: Driller: Lacey Well Drilling Licensed YES X NO _____

Depth of Well: 18' REMARKS _____

Type of Map: plat PREPARED BY: Thomas O. Berkland Reviewed and the Number

Assigned on 3-12-91 By Karen Schlaak

No. 5517-3 Hydrologic Unit 10170203
 Map No. _____ Basin Sioux River
 Newspaper Argus Leader, PO Box 5034, SF, SD (Daily)

523 E. Capitol
 Pierre, SD 57501
 (605) 773-3352

Application For Permit To Appropriate Water Within The State Of South Dakota

Check use of water: Industrial ☐ Commercial ☒ Municipal ☐ Other Common Distribution System ☐
 Rural Water System ☐ Suburban Housing ☐ Geothermal Heat ☐ Recreational ☐
 Domestic ☐ (above 18gpm) Other ☒ ZOO

Type of Application: Check one or more of the following

New ☐ Vested Right ☐ Future Use ☐ Change Use ☐

☐ Amend Permit No. _____ with old priority date retained

Change diversion point(s) ☐ Add diversion point(s) ☐ Other ☐

☐ Application to Change diversion point(s) ☐ Add diversion point(s) ☐ on Permit No. _____

☐ Construction to use water reserved by Future Use Permit No. _____

1. Name of Applicant ZOOLOGICAL SOCIETY OF SIOUX FALLS/PARKS DEPT. Phone No. 339-7059

Post Office Address 805 S KIWANIS AVE State SD Zip Code 57104
(Street, RR or Box) (City)

2. Amount of water claimed (c.f.s.) 35 Gal./Min. 0.07 cfs

3. Source of water supply GROUND

4. Location of point of diversion N 75° 56' E, 1803' W ¼ COR. SEC. 19-101-49
(SE¼ NW¼)

County Minnehaha

5. Counties where water will be used MINNEHAHA

6. Annual period during which water is to be used MARCH 1 THROUGH DECEMBER 31

7. Give a brief description of proposed project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

FRESH WATER SUPPLY FOR PENGUIN EXHIBIT

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map (see instruction)

STATE OF SOUTH DAKOTA)
 County of _____)

I, Doug Porter - Zoological Society of Sioux Falls the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Signed Doug Porter
MARGIA A. FODNESS
 Notary Public
 SOUTH DAKOTA
 My Commission Expires 4/30/95
 Notary Public

Subscribed and sworn to before me this Dec. day of 1990

**SOUTH DAKOTA
WATER PERMIT No. 5517-3**

Date of first receipt of application December 13, 1990.

Date of return to applicant for corrections, amendments or changes
December 19, 1990.

Date of receipt of corrected application March 11, 1991.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 5517-3 to Zoological Society of Sioux Falls, Parks Dept., 805 S Kiwanis Ave, Sioux Falls SD 57104 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 5517-3 appropriates 35 gallons per minute (0.07 cubic feet of water per second) from one well (Big Sioux South) 18 feet deep located in the SE 1/4 NW 1/4 Section 19-T101N-R49W.
2. The water appropriated shall be used for the purpose of supplying water for the penguin exhibit located at the zoo and may not exceed the amount of water needed for beneficial use for commercial use.
3. The water is to be used during the following described annual period: March 1 - December 31.
4. The date of approval of Permit No. 5517-3 is July 3, 1991.
5. The date from which applicant may claim right is March 11, 1991.
6. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATION

The well 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.

WATER MANAGEMENT BOARD

By: _____

John H. H. H.
Chief Engineer, Water Rights Division
Department of Environment and Natural Resources

SEP 4 1991

date

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

- a) Drill Hole Diameter 20" Depth 18'
- b) Casing Type PLASTIC Diameter 12" Thickness 3/8"
- c) Screen Type PLASTIC Diameter 12" Thickness 3/8"
- d) Gravel Pack Thickness 5' Length of Gravel Pack 7'
- e) Depth to Top of Water Bearing Material 11'
- f) Depth to Water (ground surface to water level) 11'
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others _____

2. Dugout Information Estimates

- a) Surface Dimensions 20" Depth 18'
- b) Depth to water (ground surface to water level) 11'

3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam please give their name and address

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____
If Pipe, diameter _____

f) Secondary Spillway Capacity _____
Spillway width _____

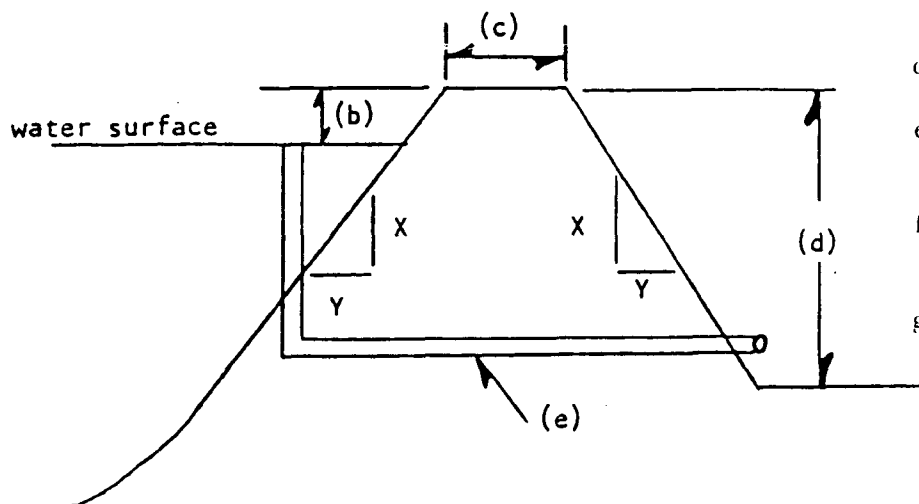
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

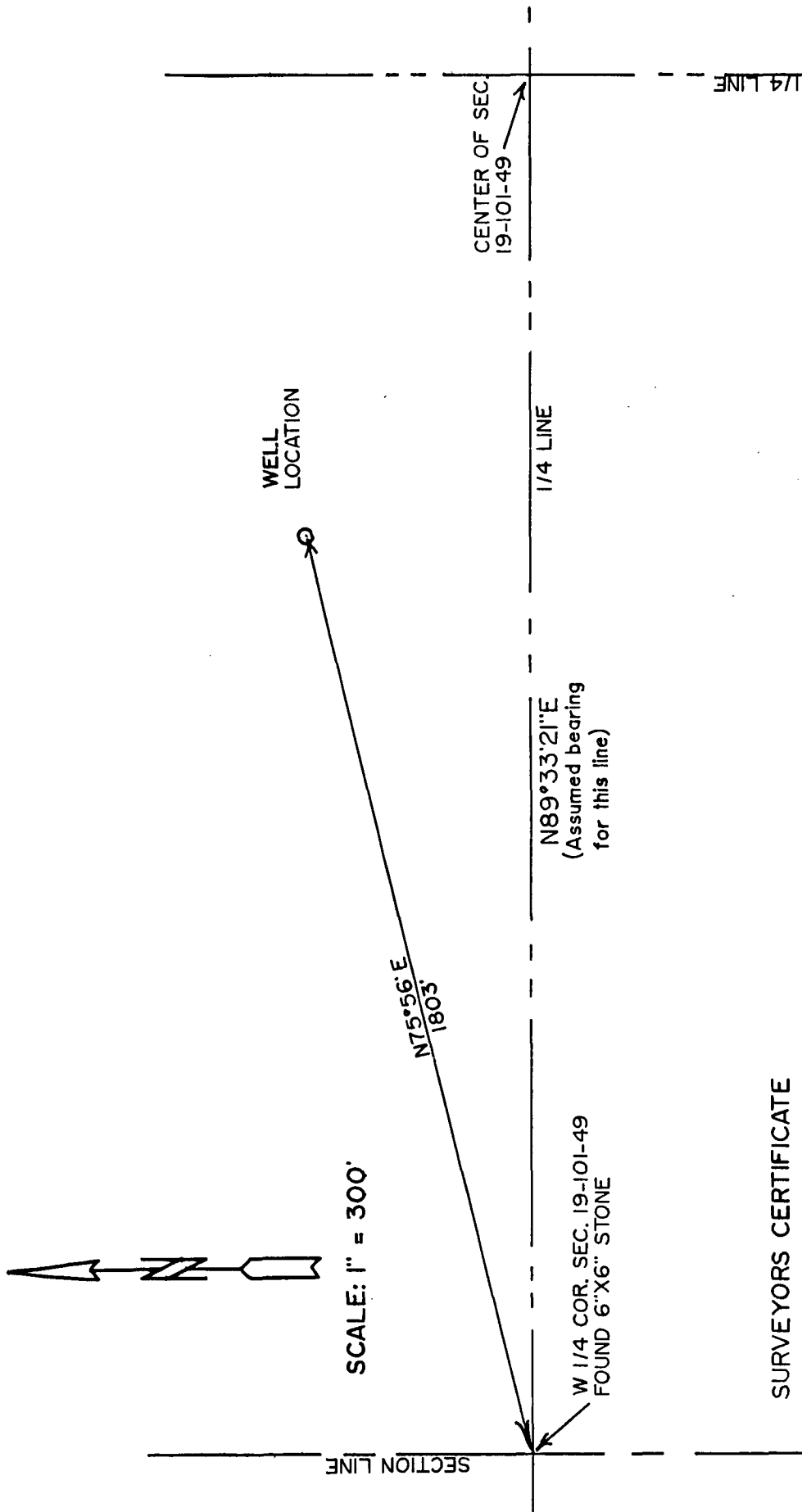
Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant _____

Application No. 5517-3



SURVEYORS CERTIFICATE

I, Thomas O. Berkland, Registered Land Surveyor No. 4215, do hereby certify that this survey was performed under my direct supervision, and this drawing shows well location, in relationship to the 1/4 Corner shown.



OFFICE OF CITY ENGINEER
224 West 9th Street
Sioux Falls, S.D. 57102
(605) 339-7048

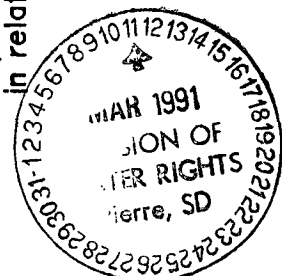
GREAT PLAINS ZOO
WELL LOCATION

DRAWN BY: DJH

REVISED:

CHECKED BY: WRB

DATE: JAN. 31, 1991



Thomas O. Berkland
R.L.S. No. 4215
2-1-91

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

412578

Pierre, March 12, 1991

RECEIVED OF Great Plains Zoo & Museum, 805 Kiwanis Ave., Sioux Falls, SD 57104-3714

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

Fee for Application for Permit No. <u>5517-3</u> to Appropriate Water, to construct works 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. _____		
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	50 00

By

Chief/Engineer

John Hatch / Jmk

SOUTH Dakota Department of
Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

July 6, 1988

Great Plains Zoo
805 S Kiwanis
Sioux Falls SD 57100

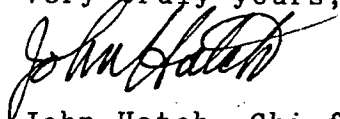
Dear Sir:

A well drillers report filed with this office by Lacey Well Drilling indicates you have recently completed a new well. The well driller is required by South Dakota Compiled Laws (SDCL 46-6-11) to file a well construction report within 30 days of completion. The purpose of this letter and the enclosed "Summary of South Dakota Water Law and Water Rights Information" are to provide general information and to inform you, the well owner, of the responsibilities you have incurred.

1. If your new well was drilled as a replacement well and if you do not plan to use the old well, the old well is considered abandoned and must be plugged pursuant to SDCL 46-6-27. Other abandoned wells must also be plugged.
2. If the old well is not to be abandoned, or will be used, the well must still be sealed or capped at the surface pursuant to SDCL 46-6-27.

Please feel free to contact us if you have questions, need information or water permit application forms.

Very truly yours,



John Hatch, Chief Engineer
Water Rights Division
Phone: (605) 773-3352

cc: Well Driller

Enclosure





Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

November 6, 1990

GREAT PLAINS ZOO
805 S KIWANIS
SIOUX FALLS SD 57100

Dear SIR :

A well drillers report filed with this office by LACEY WELL DRILLING indicates you have completed a new well. The well driller is required by South Dakota Codified Laws (SDCL 46-6-11) to file a well construction report.

The purpose of the enclosed "Summary of South Dakota Water Law and Water Right Information" is to provide general information regarding what types of water use in South Dakota require obtaining a permit to appropriate water. Based on the type of water use specified on the well driller's report, you probably need a water permit.

I am enclosing application forms and an instruction sheet for preparing a water permit application. The completed application can be submitted with the required fee to the "Water Rights Division, Joe Foss Building, 523 E. Capitol, Pierre, SD 57501". Please respond by 12/7/90.

If you have questions or need assistance contact Regan Fanning, Natural Resource Analyst (605-773-3352).

Very truly yours,

Ron Duvall
Natural Resources Engineer
for JOHN HATCH, Chief Engineer
Water Rights Division

enclosure



DEPARTMENT OF WATER & NATURAL RESOURCES

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

December 19, 1990

Zoological Society of Sioux Falls/Parks Dept.
J Douglas Porter
805 S Kiwanis Ave
Sioux Falls SD 57104

Dear Mr. Porter:

In regard to your water permit application received on December 13, 1990, the following information needs to be submitted and/or clarified in order to process your application.

1. On Item No. 2 of the application, please include the maximum diversion rate in gallons per minute from the wells at any one time.
2. The application fee, if the maximum diversion is less than 45 gallons per minute will be \$50.00.
3. A map showing the location of the diversion point (place where the well is located) in relation to a government section corner or quarter corner by direction and distance. The map must be signed by one of the following: Registered Land Surveyor, Registered Professional Engineer or by any other government employee who normally prepares maps as a part of his assigned duties (i.e. local SCS or ASCS office).
4. On Item No. 4 of the application, please indicate the location of the diversion point in relation to a government section corner or quarter corner.

The water permit application can not be considered until the application is complete. Upon receipt of the fee, map and the application with the additional information, further processing of your application will continue.

If you have any questions, please contact this office.

Sincerely,

Karen Schlaak

Karen Schlaak
Natural Resources Analyst
605 773-3352

enclosures

REPORT ON APPLICATION NO. 5517-3
for Zoological Society of Sioux Falls
May 1, 1991

Application No. 5517-3 proposes to appropriate 35 gpm (0.078 cfs) from one well approximately 18 feet deep located in the SE 1/4 NW 1/4 of section 19, T101N R49W in Minnehaha County. The water will be used to supply the penguin exhibit at the zoo.

AQUIFER - BIG SIOUX SOUTH (BS-S)

The Big Sioux South is a Pliocene age outwash (sand and gravel) under predominantly water table conditions. The Big Sioux South underlies 17,200 acres and contains an estimated 20,640 acre feet of recoverable water in storage in Minnehaha County (Hedges, 1982). The aquifer is hydraulically connected to the Big Sioux River, the Big Sioux Southern Skunk Creek aquifer to the west, the Sioux Quartzite and possibly the Big Sioux Sioux Falls aquifer to the north.

The test well log submitted with the application indicates sand and gravel from 5 feet to 19 feet below land surface with a static water level of 9 feet below land surface. The log also indicates the bottom of well is on rock probably Sioux Quartzite. The driller's report indicates the well is capable of producing 100 gpm.

The Division of Water Rights monitors one observation well MA-57I which is located about 1 mile west of this site and completed into the Big Sioux Southern Skunk Creek aquifer. The water level record for this well will be representative of Big Sioux South aquifer also. Water levels for this well respond to climatic conditions, that is rising during wet years (recharge) and gradually declining during dry years. The historical record for this observation well would indicate a total net change of about 7 feet between the highest and lowest water levels ever recorded. The record indicates water is available from the aquifer and that existing withdrawals are not affecting the ability of the aquifer to produce water (Water Rights, 1991).

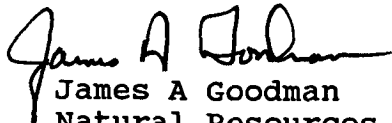
REVIEW OF EXISTING WATER PERMITS/RIGHTS

Minnehaha Country Club and Westward Ho Country Club both have irrigation permits within 1 mile of this application. The nearest permitted well is approximately 1/2 mile south of the well for this application. Interference is not expected to be a problem because of the distance between diversions and the relatively small diversion rate requested by this application.

CONCLUSIONS

1. Water is available from the Big Sioux South aquifer.
2. Interference is not expected to be a problem. Drawdown caused by pumping wells in aquifers like the Big Sioux South do not extend very far from the pumping well.

3. The well as built was sealed with bentonite from 7 feet below land surface to the surface. Lacey Drilling was informed of this well construction deficiency on September 16, 1988 and informed that a variance should have been requested for this practice. Although a variance was never officially granted the Division of Water Rights accepted this well as built.
4. The water will be used for the penguin exhibit at the zoo and is not to be used as a potable source.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

Hedges, L.S., 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Water Rights, 1991, Observation Well Records for Minnehaha County, SD DENR, Div. of Water Rights, Pierre, SD, 57501.

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5517-3, Zoological Society of Sioux Falls

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 5517-3, Zoological Society of Sioux Falls, Parks Dept., 805 S Kiwanis Ave., Sioux Falls, SD 57104.

The Chief Engineer is recommending APPROVAL of Application No. 5517-3 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 qualification:

The well 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 report on application for additional information.



JOHN HATCH, Chief Engineer
May 1, 1991



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.

May 23, 1991

Doug Porter
Zoological Society of Sioux Falls/Parks Dept.
805 S Kiwanis Avenue
Sioux Falls, SD 57104

Dear Mr. Porter:

Water Permit Application No. 5517-3 for commercial use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Argus Leader printed at Sioux Falls, SD. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

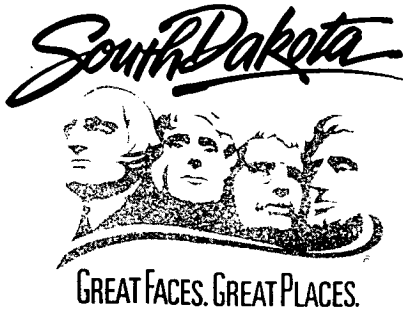
Be sure to contact the above newspaper to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. The newspaper has been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.



May 24, 1991

Argus Leader
PO Box 5034
Sioux Falls, SD 57117-5034

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 5517-3 to be published twice. Please publish the first notice on June 5, 1991, with the second publication 7 days later.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make the first publication. Please BILL the APPLICANT for the cost of publication. The APPLICANT is the Zoological Society of Sioux Falls, Parks Dept., 805 S Kiwanis Ave, Sioux Falls, SD 57104.

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. No action may be taken on the permit application until proof of publication has been received.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

FIRST TRANSMITTAL NOTICE

TO: Eric Gronlund
Water Rights Division
Joe Foss Building
Pierre SD 57501-3181

No. _____

Date _____

We are in receipt of your letter of _____ enclosing Notice of Hearing to Appropriate Water by Application No. _____ which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name _____ Newspaper _____

Instruction to Newspaper - Publish first Notice on or before June 5, 1991, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5517-3 to Appropriate Water

Notice is given that the Zoological Society of Sioux Falls, Parks Dept., 805 S Kiwanis Ave, Sioux Falls, SD 57104 has filed an application for a water permit to appropriate 35 gallons per minute from one well (Big Sioux South) 18 feet deep located in the SE 1/4 NW 1/4 Section 19-T101N-R49W to supply water for the penguin exhibit located at the zoo.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5517-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. Unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Water Management Board will NOT CONDUCT a HEARING to consider this application and the chief engineer will issue the permit as recommended. Petitions filed in support of the application will NOT require the Board to hear the application.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by June 24, 1991. The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

For purposes of publishing 1) the notice of hearing on Application No. 5517-3 and 2) the chief engineer's recommendation, a special Board meeting is scheduled for July 3, 1991, at 9:00 am in Room 413, Joe Foss Building, 523 E Capitol, Pierre SD. If this application is opposed or the recommendation is contested, the July 3, 1991, hearing date may be rescheduled for another Board meeting. If the hearing is rescheduled, notice of the time and place will be given by First Class Mail to the applicant and persons filing petitions. Anyone not filing a petition, but interested in attending the hearing, may contact the Division of Water Rights to confirm a hearing date and location. The July 3, 1991, hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by June 24, 1991.

If a hearing is held, the Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing. Any hearing will be an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. Contact the Water Rights Division to request copies of information pertaining to this application or to assure access to the hearing by the handicapped.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
 County Minnehaha) ss.



OK

I, M. Devish

certify that the attached printed Notice was taken
 from the Argus 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 Sioux Falls

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

June 5, 1991

June 12, 1991

Mary J. Devish (att)
 (Signature)

Controller
 (Title)

6/12/91

(Date Signed)

Cost of Printing: 246 Lines at .3966 = \$97.56

1 Affidavit of Publication 2.00

Total: \$ 99.56

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1566 June 5, 12, 1991



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

SEP 4 1991

Doug Porter
Zoological Society of Sioux Falls
Parks Department
805 S Kiwanis Avenue
Sioux Falls, SD 57104

Dear Mr. Porter:

Enclosed is Water Permit No. 5517-3 authorizing construction of the water system and the application of water beneficial use, not exceeding the limits as specified in the Water Permit.

We will schedule an inspection so that the 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
605 773-3352

enclosures

NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USEDate 5-11-92TO: Water Rights Division, DWR
Joe Foss Building
Pierre SD 57501-3181FROM: GREAT PLAINS Zoo 805 S. KIWANIS AVE. S.F.
name address city

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 5517-3.

Water Permit No. 5517-3 states that the diversion system is to be constructed by GREAT PLAINS Zoo, and that the water it put to beneficial use by GREAT PLAINS Zoo.

The diversion system was completed on JUNE 1989.
Applying the water to beneficial use was completed on SAME.

You may schedule an inspection so that the Water License may be issued.



signature

Permit No. 5517-3

Big Sioux River Water District

Report Of Examination Of Works And/Or Application of Water To Beneficial Use

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

I have this day made a thorough examination of the water use system constructed by Zoological Society of Sioux Falls of 805 S Kiwanis Ave. Sioux Falls, SD 57104 holder of Permit No. 5517-3, bearing the priority of March 11, 1991 authorizing the diversion of 0.07 cu. ft. per second of the waters of Big Sioux-South for commercial purposes, in Minnehaha County.

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

A. Works used to divert the water:

One well - 19 feet deep, with 15' of 18" PVC casing and 3' of 12" PVC slotted screen, Grundfos submersible pump, 6 stages, 3", Model No. SP16, 16GPM @ 30 PSI, 1 HP

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

130' of 2" PVC pipe

C. Works used to apply water to beneficial use:

Water released into 25' by 30' pond for penguins

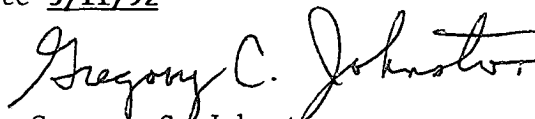
The system is in the following condition excellent. The point of diversion is located 1749' east and 2162' south of the NW corner of Section 19-T101N-R49W. The works are capable of diverting and conveying to the place of use 0.036 (16 GPM) cu. ft. per second of water which is to be used for penguin exhibit at zoo. Water has been put to beneficial use to the maximum extent as follows:

16 GPM from well used to supply water to penguin exhibit located in the SW1/4 NW1/4 Section 19-T101N-R49W at Sioux Falls Zoo

and the license should be issued for 0.036 cfs.

Applicable permit qualifications have been complied with ☒ Yes ☐ No

Exceptions to compliance are: None Date 5/11/92


Gregory C. Johnston
Natural Resources Engineer
DENR, Water Rights Division

REPORT ON INSPECTION OF PERMIT NUMBER 5517-3

DATE 5/11/92

Other permit(s) associated with the project None

DIVERSION POINT LEGAL LOCATION: 1749' east and 2162' south of the NW corner of Section 19-T101N-R49W, Minnehaha County, SD

WELL INFORMATION: Well Drilling Firm Lacey Well Drilling

No. of Wells 1 Depth(s) 19'

a) Casing: 1) diameter 18 inches

2) length 15 feet

3) type Plastic

d) Static Water Level 9 feet

e) Motor:

1) make Grundfos

2) model No. SP 16

3) horsepower rating 1 hp

b) Screen: 1) type slotted 12" PVC

2) length 3 feet

c) Pump 1) make Grundfos

2) model SP 16

3) size 3 inches

4) capacity 16 GPM

5) turbine pump - No. of stages 6

6) operating pressure 30 PSI

DISTRIBUTION LINES OR CANALS:

a) type PVC

b) size 2 inches

c) length 130 feet

System Type:

a) Water source for penguin exhibit - The water is pumped through the 2" PVC to the Penguin exhibit and released via a small water fall to a 25' by 30' pool for the penguins.

PERMIT QUALIFICATIONS AND REGULATIONS:

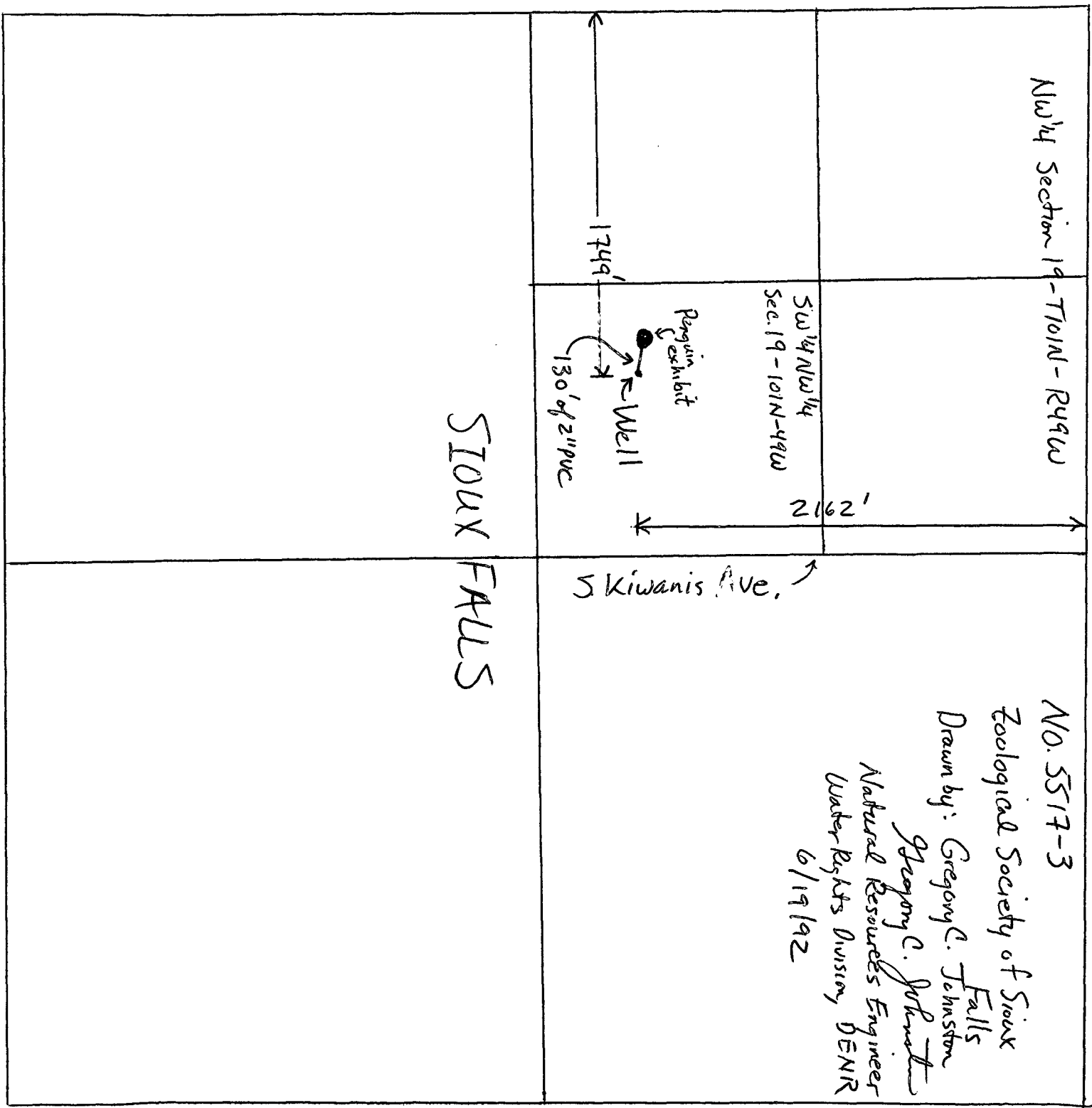
N/A a) Soil and water permit lands agree with lands being irrigated and lands listed on permit (Y/N)

Y b) Special qualifications to permit being abided by (Y/N)

Y c) All structures, wells and lands on map (Y/N)

N/A d) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period (Y/N)

N
1" = 660'



S Kiwanis Ave. ↗

NO. 5517-3
 Zoological Society of Sioux Falls
 Drawn by: Gregory C. Johnston
 Natural Resources Engineer
 Water Rights Division, DENR
 6/19/92

SIoux FALLS

STATE OF SOUTH DAKOTA

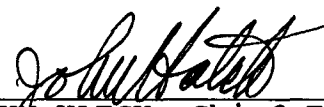
WATER LICENSE NO. 5517-3

(1) Zoological Society of Sioux Falls of 805 S. Kiwanis Avenue, Sioux Falls, SD 57104 made Application No. 5517-3, December 13, 1990 for a water permit to appropriate 0.07 cubic feet of water per second from groundwater (one well), Minnehaha County, South Dakota for commercial purposes. Permit No. 5517-3 with a priority date of March 11, 1991 was approved July 3, 1991 and issued to applicant(s) for diversion of water with construction of the described water supply system completed and the application to beneficial use of said water completed.

(2) It is certified that the applicant 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 0.036 cubic feet of water per second for beneficial use. The location of the diversion point is: 1749'E and 2162'S of the NW corner of Section 19, T101N, R49W (SW 1/4 NW 1/4).

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use. The water is pumped through a 2" PVC pipe to the Penguin exhibit and released via a small water fall to a 25' by 30' pool.

(4) Pursuant to Section 46-5-30.1 Zoological Society of Sioux Falls of 805 S. Kiwanis Avenue, Sioux Falls, SD 57104 the holder(s) and/or owner(s) of Water Permit No. 5517-3 is issued a license to appropriate water, the right to use 0.036 cubic feet of water per second from groundwater (one well) with a priority date of March 11, 1991 from the location specified in (2) of this license. The water is to be used for commercial purposes. This license is subject to any limitations or qualifications listed in Water Permit No. 5517-3 and subject to South Dakota State Law.

 NOV 24 1992
JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and
Natural Resources



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

GREAT FACES. GREAT PLACES.

September 2, 1992

5517-3

J. Douglas Porter
Zoological Society of Sioux Falls
805 S. Kiwanis Ave.
Sioux Falls, SD 57104

Dear Mr. Porter:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit No. 5517-3, has been completed. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the inspection and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Division
(605) 773-3352

NOTE: On check or money order, please specify your permit number.
This will insure proper handling of the fee.

RECEIPT

Division of Water Rights

South Dakota Department of Environment and Natural Resources

413413

Pierre, _____ September 20, 19 92

RECEIVED OF Great Plains Zoo, 305 S Kiwanis Ave, Sioux Falls, SD 57104-3714

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 _____		
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>5517-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	50 00

By John Hatch / jgm
Chief Engineer



NOV 24 1992

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

5517-3

J. Douglas Porter
Zoological Society of Sioux Falls
805 S. Kiwanis Avenue
Sioux Falls, SD 57104

Dear Mr. Porter:

Enclosed is Water License No. 5517-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413413 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. 5517-3, 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

enclosures