

Considered: _____

WATER PERMIT NO. 1468-1

HAP No. Same 865-3790

Name of Applicant City of Timber Lake

Post Office Address Box 431 Timber Lake, SD 57656

Amount of Water Claimed 0.800 cfs Total Acres NA

Source of Water Supply groundwater - 5 wells: 4 existing, 1 new

Water to be used for municipal purposes County Dewey

About _____ miles in of Timber Lake

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY _____ Date Received Aug 22, 1989 Fee \$300 Remarks Application rec'd

8/22/89 12/23/82 combined with appl. for 5th well

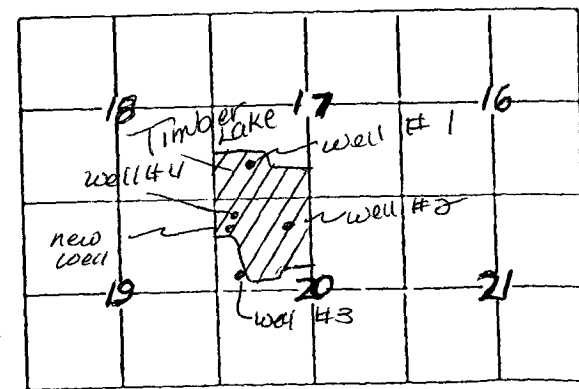
Corrected Application Received (Info. rec'd 9/1/89 was not necessary) Period of Annual Use Jan 1 - Dec 31

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

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

Diversion Point well #1 SW 1/4 Sec 17 - TIMBER LAKE
well #2 NE 1/4 NW 1/4 Sec 20 - " "
well #3 SW 1/4 NW 1/4 " " "
well #4, new: NW 1/4 NW 1/4 " " "

Land to be Irrigated NA



Well Log: Driller see Forms 2A & 9/15/83 letter to Ms Solberg from Genay McMath Licensed YES _____ NO _____

Depth of Well 90-100' REMARKS well #4 drilled in 1962
#3 " " 1970
#2 " " 1961
#1 " " 1978

Type of Map aerial photo PREPARED BY Charles Murray Reviewed and the Number

assigned on September 14, 1989 By Susan Bowan

SOUTH DAKOTA
WATER PERMIT No. 1468-1

Date of first receipt of application August 22, 1989.

Date of return to applicant for corrections, amendments or changes August 23, 1989.

Date of receipt of corrected application September 1, 1989.

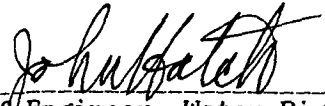
The Water Management Board approved Water Permit Application No. 1468-1 on December 7, 1989 for the City of Timber Lake, Box 431, Timber Lake SD 57536 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 1468-1 appropriates 0.80 cubic feet of water per second from 5 wells (Fox Hills Formation) approximately 100 feet deep. Four wells are existing and are located in the SW1/4 SW1/4 section 17; NE1/4 NW1/4, W1/2 NW1/4 section 20; all in T17N-R25E. The fifth well is to be located in the NW1/4 NW1/4 section 20-T17N-R25E.
2. The water appropriated shall be used for the purpose of supplying the City of Timber Lake and may not exceed the amount of water needed for beneficial use for municipal purposes.
3. The water is to be used during the following described annual period: January 1 - December 31.
4. The date from which applicant may claim right is August 22, 1989.
5. One-fifth of the construction is to be completed on or before June 7, 1992.
6. All construction is to be completed on or before December 7, 1994.
7. Water is to be put to beneficial use on or before December 7, 1998.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well authorized by Permit No. 1468-1 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted with cement (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:30.
2. 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.

WATER MANAGEMENT BOARD

By: 
Chief Engineer, Water Rights Division
Department of Water and Natural Resources

MAR 21 1990

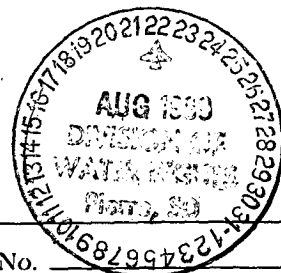
(date)

No. 1468-1 Hydrologic Unit 10130303
 Map No. same Basin Grandall/Moreau
 Newspaper Timber Lake Topic Box 10 (others)

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 ☐ Institutional ☐ Recreational ☐
 Domestic ☒ (above 18gpm) Other ☐

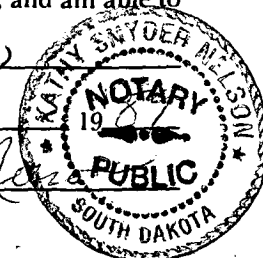
Type of Application: Check one or more of the following

New ☒ Vested Right ☐ Future Use ☐ Change Use ☐☐ Amend Permit No. _____ with old priority date retainedChange 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 CITY OF TIMBER LAKE Phone No. 605-865-3790Post Office Address BOX 431 TIMBER LAKE State S.O. DAK. 57536
(Street, RR or Box) (City) Zip Code2. Amount of water claimed (c.f.s) Est. 75 gal. per. min. 0.80 cfs3. Source of water supply GROUND WATER 5 wells (4 existing, 1 new)4. Location of point of diversion N.W. Quarter of Section 20 Township 17Well #1: SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 17-T17N-R25EWell #2: NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec 20-T17N-R25ERange-25 Well #3: SW $\frac{1}{4}$ NW $\frac{1}{4}$ " "New Well Well #4: NW $\frac{1}{4}$ NW $\frac{1}{4}$ " "County DEWEY5. Counties where water will be used DEWEY6. Annual period during which water is to be used JAN. 1 THRU DEC. 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)

MUNICIPAL PURPOSES

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 Dewey)^{ss}I, Donna Schlosser / City of Timber Lake 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 Donna SchlosserSubscribed and sworn to before me this 21st day of AugustKathy Snyder Nelson
Notary Public, Dewey Cty., S. Dak.
My Commission Expires March 30, 1997Kathy Snyder Nelson
Notary Public

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

411887

Pierre, August 22, 1989

RECEIVED OF City of Timberlake, Timberlake, SD 57656

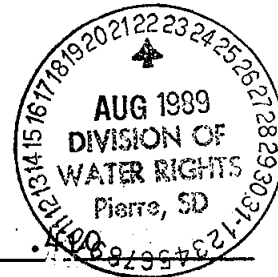
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>1468-1</u> to Appropriate Water, to construct works and to put water to beneficial use	300	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	300 00

By John Hatch
Chief Engineer *(initials)*

Supplemental Information

(type or print in ink)



1. Well Information - Proposed construction

- a) Drill Hole Diameter 8" Depth 90'
- b) Casing Type Plastic (PVC) Diameter 8" Thickness
- c) Screen Type Stainless Steel Diameter 8" Thickness .220
- d) Gravel Pack Thickness Min. 3" Max. 8" Length of Gravel Pack 40'
- e) Depth to Top of Water Bearing Material
- f) Depth to Water (ground surface to water level) Unavailable before completion.
- g) Distance to nearest existing domestic well:
- On applicants property 12' On property owned by others 149'

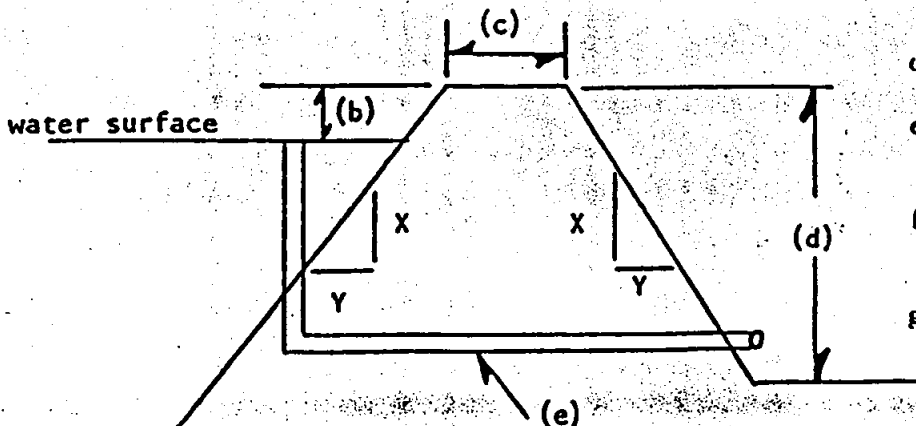
2. Dugout Information Estimates

- a) Surface Dimensions Depth
- b) Depth to water (ground surface to water level)

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 _____

#2
date drilled 1978

D. Well Information

- (1) Drill Hole, Diameter 16", Depth 100'
 (2) Casing, Type Steel, Diameter 12", Thickness _____
 (wood, concrete, steel, etc.)
 (3) Screen, Type Steel, Diameter 10", Length 45'
 (4) Gravel Pack, Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates
date drilled July 1978

- (1) Surface dimensions, NA, Depth _____

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

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

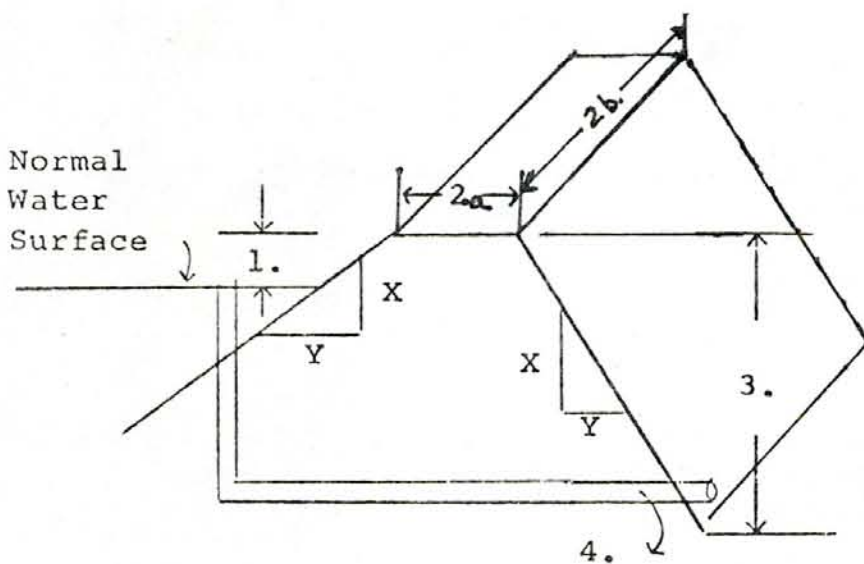
Depth to top of water bearing material 35'
 Depth to bottom of water bearing material 100'
 Depth to water (ground surface to water level) 35'

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

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

G. Water Storage Dams NA

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.



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

City of Timber Lake
 Signature of Applicant
 Marge Solberg, Finance Officer

#2
Date drilled 1961

D. Well Information

- (1) Drill Hole, Diameter 24", Depth 100'
(2) Casing, Type Steel, Diameter 12", Thickness _____
(wood, concrete, steel, etc.)
(3) Screen, Type 2 Steel, Diameter 10", Length 30'
(4) Gravel Pack, Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates

- (1) Surface dimensions, NA, Depth _____

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

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

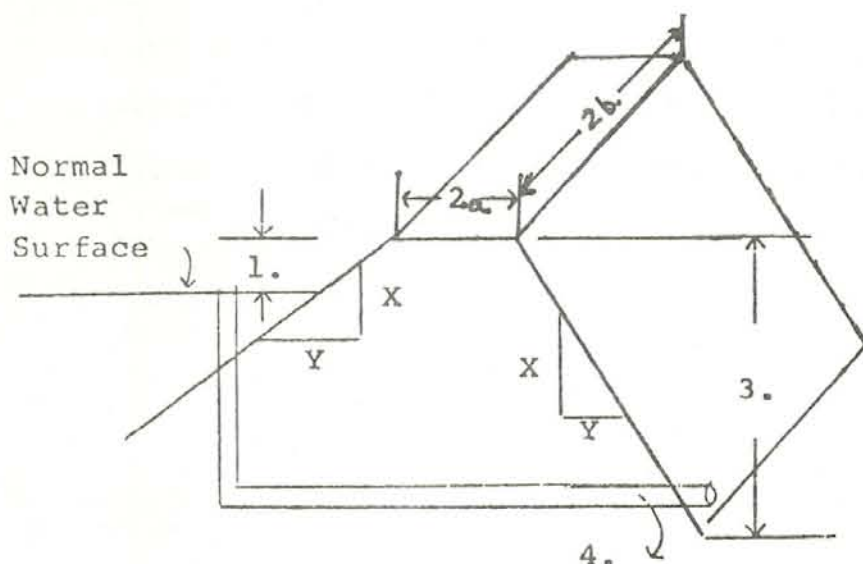
Depth to top of water bearing material 25'
Depth to bottom of water bearing material 100'
Depth to water (ground surface to water level) 25'

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

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

G. Water Storage Dams NA

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.



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

City of Timber Lake
Signature of Applicant
Marge Solberg
Finance Officer

3

date drilled 1970

D. Well Information

- (1) Drill Hole, Diameter 24", Depth 95'
- (2) Casing, Type Steel, Diameter 12", Thickness _____
(wood, concrete, steel, etc.)
- (3) Screen, Type Steel, Diameter 10", Length 30'
- (4) Gravel Pack, Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates

- (1) Surface dimensions, NA, Depth NA

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 28'

Depth to bottom of water bearing material 95'

Depth to water (ground surface to water level) 28'

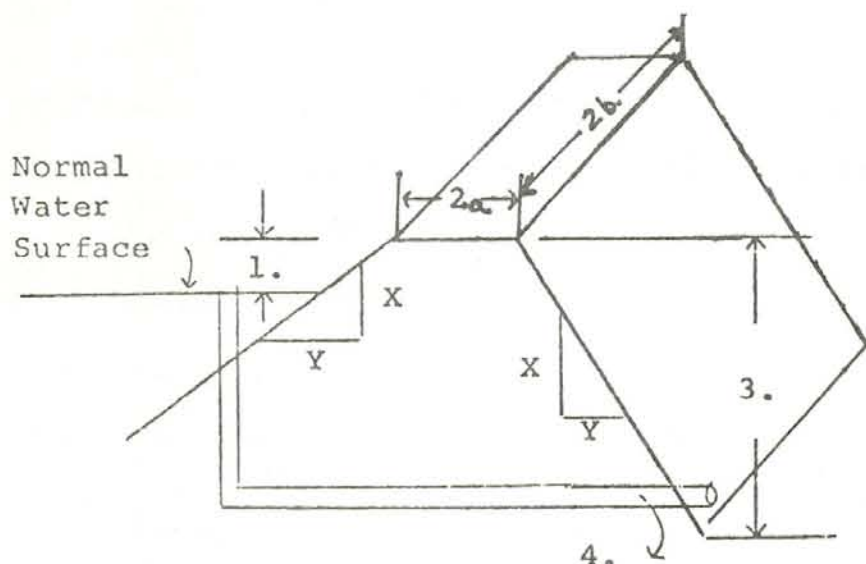
- (2) Distance to nearest existing household or livestock watering well.

On same owner's property NA rds.

On property owned by others NA rds.

G. Water Storage Dams NA

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.



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

City of Timber Lake

Signature of Applicant

Marge Solberg Finance Officer

4
date drilled 1962

D. Well Information

- (1) Drill Hole, Diameter 24", Depth 100'
 (2) Casing, Type Steel, Diameter 12", Thickness _____
 (wood, concrete, steel, etc.)
 (3) Screen, Type Steel, Diameter 10", Length 30'
 (4) Gravel Pack, Thickness _____, Length of gravel pack _____

E. Dugout Information or Estimates

- (1) Surface dimensions, NA, Depth _____

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

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

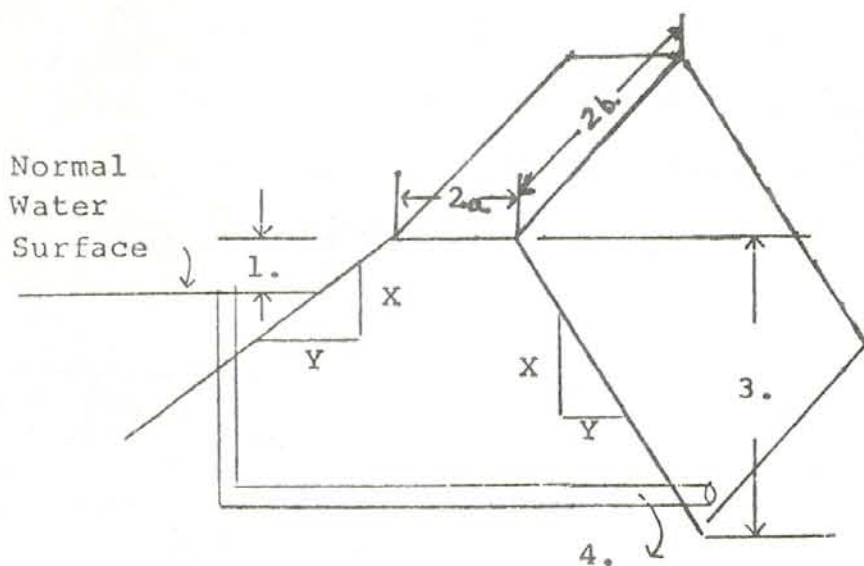
Depth to top of water bearing material 30'
 Depth to bottom of water bearing material 100'
 Depth to water (ground surface to water level) 30'

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

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

G. Water Storage Dams NA

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.



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

City of Timber Lake
 Signature of Applicant
 Marge Solberg
 Financial Officer



THIS MAP IS

NOT TO SCALE.

NE corner Set 20-
T 17N-R25W

City of Timber Lake

Charles J. Mulloy Jr. C.E.O.

County Executive Director
Dewey County ASCS Office

10-85

Date Jan 30 - 1970



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

Water Rights Division
605 773-3352

December 27, 1982

Marge Solberg
Finance Officer
Timber Lake SD 57656

Dear Ms. Solberg:

Enclosed is your application for permit to appropriate water for municipal purposes received December 23, 1982, along with our partially completed typed forms for you to complete. The following is an explanation of what will be required before we can further process your application.

1. Under #4, the amount of water claimed should be 0.63 cfs, as according to the Water Quality Division the four wells pump 285 gpm.
2. Under #6, the exact location of the four wells must be on the application as to feet/rods from nearest corner Section (your map is enclosed for your convenience in putting the exact locations on—please return the map with your application).
3. Also on Form 2A, more information on the wells will be required, dates drilled, geologic formation the wells are in, etc. If you know the drilling company who drilled the wells they may be able to provide you with this information or they may have the logs of the wells.
4. Your application signature must be notarized by a Notary Public.

To maintain your priority date on your application for Permit to Appropriate Water, in accordance with SDCL 46-5-16, you will now have 60 days to have the above information submitted to this office.

Further processing of your application will proceed upon the receipt of the above.

Sincerely,

BETTY WESTLUND
Water Rights Specialist

BW:ks

enclosures

Water Rights Division
605 773-3352

*fee quoted is
wrong- should
be \$225.00
Hm*

September 15, 1983

City of Timber Lake
Box 431
Timber Lake SD 57656

ATTN: Marge Solberg, Finance Officer

Dear Ms. Solberg:

In checking over the water permit application submitted by the City of Timber Lake for municipal purposes, a filing fee of \$225.00 is all that is needed to complete the application.

A preliminary report prepared by the South Dakota Geological Survey entitled "Ground-Water Study for the Mail City and Glencross Water Association" supplied the needed well information. Upon receipt of the \$225.00 filing fee, your application can be processed.

If you have any questions, please advise.

Sincerely,

GENNY MCMATH
Water Rights Specialist

GM:ks

X Do not use this space.

STATE OF SOUTH DAKOTA VOUCHER

☒ Direct

(Z) ☐ Travel

(N) ☐ Non-Cash

(C) ☐ Cash Receipt

(T) ☐ Cash Transfer

(I) ☐ Investment

(B) ☐ Appropriation-Budget Transfer

(E) ☐ Expenditure Correction

(R) ☐ Revenue Correction

(P) ☐ Period Ending Adjustment

(A) ☐ Other Adjustment

AGENCY USE ONLY			APPROVAL OFFICE ONLY	
Application Area 75	Vendor Number	Invoice ID	Voucher Number	Date
Date	Purchase Order ID	Document ID	Delivery Date	Payment Due Date
S T A P L E	(Payee, Billed Agency)		(Department, Billing Agency)	
	TO: City of Timberlake Finance Office PO Box 431 Timberlake, SD 57656-0431		FROM: DWR Water Rights Division 523 E. Capitol, Foss Bldg Pierre, SD 57501-3181	

FUNDING INFORMATION								Debit/Credit		Dr.	Cr.	U C S O D E R E
S E Q.	Company	Account		Center		Company	Project Number	Amount	Code	Invoices	Other	
		Required	User	Required	User					1	6	
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
Total												

Description of Service, Product, or Transfer	
partial refund for water permit application. Two applications were combined and total fee was reduced.	
Total	125.00

I declare and affirm under the penalties of perjury that this claim is in all things, true and correct. I further agree to comply with the provisions of the Civil Rights Act of 1964 and regulations issued thereunder relating to nondiscrimination in federally assisted programs.

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

411886

Pierre, August 22, 1989

RECEIVED OF City of Timberlake, Timberlake SD 57656

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct works and to put water to beneficial use _____	275	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 <u>9-14-89, #125.00 Refund</u>		
Fee for Print Copy of Map <u>receipt voided; #411886 &</u>		
Fee for Certifying <u>411887 combined to make</u>		
Fee for <u>(1) one permit.</u>		
(Any Other Work Provided by Law) <u>mra</u>	Total	275 00

By John Hartel/mra
Chief Engineer



Department of Water & Natural Resources

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

August 23, 1989

Donna Schlosser
City of Timber Lake
Box 431
Timber Lake, SD 57656

Dear Ms. Schlosser:

This letter is in reference to the water permit application received from you on August 22, 1989 and the pending permit application for four existing wells that was received December 23, 1982.

The only remaining item needed to complete both applications is a well log for each of the four wells (see enclosed instruction sheet). A copy of the well log for well #4 will be attached to the application for the proposed new well since the locations are adjacent.

The Water Management Board cannot consider a water permit application until it is complete. Please return the required well logs to complete both applications.

Feel free to contact us if you have any questions.

Sincerely,

Susan A. Bowar

Susan A. Bowar
Natural Resources Engineer
Water Rights Division
(605) 773-3352

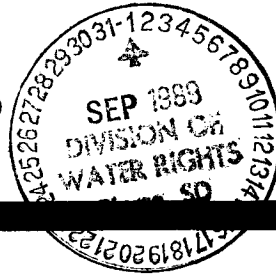
enclosure

CITY OF TIMBER LAKE

P.O. Box 431

TIMBER LAKE, SD 57656

605 / 865 / 377 / 3790



Memo Letter

TO: Susan A Bowar

DATE 8/28/89

Natural Resources Engineer

SUBJECT: Water Permit Application

Water Rights Division

Enclosed, please find the only information I could obtain in the way of a "Well Log". I have written at the top who the Well Drillers were. If there is anything else you need to proses the permits please let me know and I'll try to come up with it.

Sincerely,

A handwritten signature in cursive script, appearing to read "Donna Schlosser".

Donna Schlosser

Finance Officer



Department of Water & Natural Resources

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

September 15, 1989

Donna Schlosser, Finance Officer
City of Timber Lake
Box 431
Timber Lake, SD 57656

Dear Ms. Schlosser:

This letter is in reference to the water permit applications received from the City of Timber Lake on August 22, 1989 and December 23, 1982.

I have combined the two applications into one application for the four existing wells and the fifth new well. The combined diversion rate from the wells is 0.80 cubic feet of water per second (or approximately 359 gallons of water per minute).

By combining the applications, the required fee goes from \$425 to \$300. A voucher has been submitted for your \$125 refund. Please allow several weeks for processing.

Feel free to contact us if you have any questions.

Sincerely,

A handwritten signature in cursive script that reads "Susan A. Bowar".

Susan A. Bowar
Natural Resources Engineer
Water Rights Division
(605) 773-3352



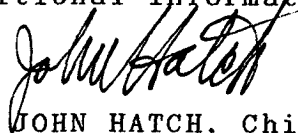
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 1468-1, City of Timber Lake

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. 1468-1, City of Timber Lake, Box 431, Timber Lake SD.

The Chief Engineer is recommending APPROVAL of Application No. 1468-1 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:

1. The well authorized by Permit No. 1468-1 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted with cement (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:30.
2. 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
October 4, 1989

REPORT ON APPLICATION NO. 1468-1
City of Timber Lake, SD
September 28, 1989

This application proposes to appropriate 0.80 cubic feet of water per second from 5 wells in the Fox Hills Aquifer at a depth of approximately 100 feet. Four of the wells are existing wells and are located in the SW1/4, SW1/4, sec. 17; NE1/4, NW1/4, sec. 20; SW1/4, NW1/4, sec. 20; NW1/4, NW1/4, sec. 20; all in T17N, R25E, Dewey County, South Dakota. Water is used for municipal purposes to supply the City of Timber Lake.

DISCUSSION

The city of Timber Lake has had an application pending since 1982 for four wells at a diversion rate of 0.63 cfs for municipal use. Application No. 1468-1 will add one more well to the pending application (if approved) and will increase the diversion rate to 0.80 cfs or approximately 360 gallons per minute. The following is a description of the wells that are to be used by the city:

WELL No.	DATE DRILLED	DEPTH TO WATER	DEPTH TO BOTTOM OF AQUIFER	LOCATION (all in T17N, R25E)
1	1978	35 ft	100 ft	NW1/4, SW1/4, sec. 17
2	1961	25 ft	100 ft	NE1/4, NW1/4, sec. 20
3	1970	28 ft	95 ft	SW1/4, NW1/4, sec. 20
4	1962	30 ft	100 ft	NW1/4, NW1/4, sec. 20
5	** new well proposed in application **			NW1/4, NW1/4, sec. 20

AQUIFER Fox Hills Formation

AQUIFER INFORMATION AND CHARACTERISTICS

The Fox Hills Formation consists of very fine sand mixed with clay to medium sized sand with cemented sand layers. The water quality in this aquifer is suitable for its intended municipal use. The Fox Hills Formation underlies approximately 402,560 acres in Dewey County and contains about 3,000,000 acre-feet of recoverable water. The thickness of the formation is about 150 feet with a local thickness (according to the well logs above) of approximately 70 feet. The formation has an estimated porosity of 20% and a specific yield of 5% (Allen, 1984). The wells that are proposed for this application were completed in the Timber Lake member of the Fox Hills Formation.

Recharge of the formation is primarily through precipitation that falls on the outcrop, but the rate of recharge is not known. The Division of Water Rights does not maintain any observation wells in the immediate area, but does maintain two observation wells in Corson County that monitor the Fox Hills Formation.

REVIEW OF AREA WATER RIGHTS

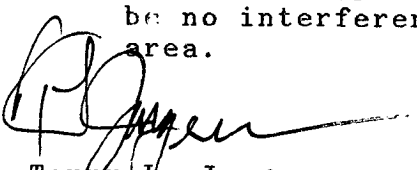
The following is a listing of the Dewey County area water rights drawing water from the Fox Hills Formation:

<u>WR No.</u>	<u>WATER RIGHT HOLDER</u>	<u>RATE</u>	<u>USE</u>
972-1	Trail City-Glencross	0.40 cfs	rural water
1319-1	Timber Lake Cheese Co.	0.05 cfs	commercial

There are also numerous domestic wells in the area that pump water from the Fox Hills Formation for domestic and stock watering uses.

CONCLUSIONS

1. The Fox Hills Formation has an adequate supply of unappropriated water available.
2. The new well must comply with South Dakota Well Construction Standards.
3. It is recommended that Water Right Permit Application No. 1468-1 be approved subject to the limitation that there will be no interference with adequate local domestic wells in the area.



Terry L. Jorgensen
Natural Resources Engineer
Division of Water Rights

Approved by:



Gale N. Selken, P.E.
Natural Resources Engineer IV

REFERENCES

Allen, J.C., Iles, D.L., Petres, A.K., 1984, Analysis of Groundwater and Streamflow data Western Dakotas Region of South Dakota, Task 3 and 4: Groundwater Resource Inventory, U.S. Army Corps of Engineers Contract DAWCC 45-82-C-0151, DWNr, Division of Geological Survey, Vermillion, SD.

Barari, Assad, 1972, Groundwater Study for the Trail City and Glencross Water Association, DWNr, Office of Geological Survey, Vermillion, SD.

Division of Water Rights, 1989, Domestic Well Log File, DWNr, Division of Water Rights, Foss Building, Pierre, SD.

SOUTH Dakota Department of
Water & Natural Resources

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

October 30, 1989

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

Donna Schlosser
City of Timber Lake
Box 431
Timber Lake, SD 57656

Dear Ms. Schlosser:

Water Permit Application No. 1468-1 for municipal 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 Timber Lake Topic printed at Timber Lake SD. For your information, a copy of the notice is enclosed. Copies of the report and the Chief Engineer's recommendation are also 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 Intent to Appropriate Water 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. We must receive Proof of Publication before the application can be considered by the Water Management Board.

Sincerely,



Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures





Department of Water & Natural Resources

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

October 30, 1989

Timber Lake Topic
Box 10
Timber Lake, SD 57656

ATTN: Legal Department

Enclosed is a Notice of Hearing on Application No. 1468-1 to be published twice. Please publish the first notice on or before November 9, 1989 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 City of Timber Lake, Box 431, Timber Lake, SD 57656.

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. The permit application cannot be considered by the Water Management Board until proof of publication has been received.

Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

TO: Ron Duvall
Water Rights Division
Joe Foss Building
Pierre SD 57501-3181

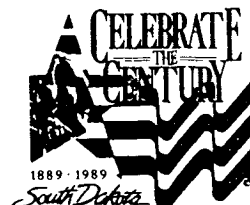
No. _____

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 November 9, 1989 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 1468-1 to Appropriate Water

Notice is given that the City of Timber Lake, Box 431, Timber Lake, SD 57656 has filed an application for a water permit to appropriate 0.80 cubic feet of water per second from 5 wells (Fox Hills Formation) approximately 100 feet deep. Four of the wells are existing wells and are located in the SW1/4 SW1/4 Section 17; NE1/4 NW1/4 Section 20; SW1/4 NW1/4 Section 20; NW1/4 NW1/4 Section 20; all in T17N-R25E. The fifth well is to be located in the NW1/4 NW1/4 Section 20-T17N-R25E. Water is to be used for municipal purposes to supply the City of Timber Lake.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 1468-1 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. This application will be considered by the Water Management Board in Room 216, Joe Foss Building, 523 E. Capitol, Pierre, SD on December 6, 1989 at 10:00 am. 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 interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by November 24, 1989. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)". 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 legal counsel if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.

This hearing is an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer. 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. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by November 24, 1989.

This application is made pursuant to 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; 46-2A-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; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
 County Dewey)

I, James F. Nelson
 certify that the attached printed Notice was taken
 from the Timber Lake Topic

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

November 9, 1989

November 16, 1989

James F. Nelson
 (Signature)

plalish
 (Title)

Nov 16, 1989
 (Date Signed)

Cost of Printing: 34.85

Notice of Hearing on Application No. 1468-1 to Appropriate Water

Notice is given that the City of Timber Lake, Box 431, Timber Lake, SD 57656 has filed an application for a water permit to appropriate 0.80 cubic feet of water per second from 5 wells (Fox Hills Formation) approximately 100 feet deep. Four of the wells are existing wells and are located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 17; NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 20; SW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 20; NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 20; all in T17N-R25E. The fifth well is to be located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 20 T17N-R25E. Water is to be used for municipal purposes to supply the City of Timber Lake.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 1468-1 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. This application will be considered by the Water Management Board in Room 216, Joe Foss Building, 523 E. Capitol, Pierre, SD on December 6, 1989 at 10:00 a.m. 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.

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This hearing is an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer. 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. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by November 24, 1989.

This application is made pursuant to 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; 46-2A-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; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

Pub, November 9 and 16, 1989
 in the Timber Lake Topic





Department of Water & Natural Resources

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

MAR 21 1990

Donna Schlosser
City of Timber Lake
Box 431
Timber Lake, SD 57656

Dear Ms. Schlosser:

Enclosed is Water Permit No. 1468-1 as approved by the Water Management Board authorizing you to construct your water diversion system and put the water to beneficial use, not exceeding the limits as specified in the Water Permit.

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 the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,

A handwritten signature in dark ink, appearing to read "John Hatch". The signature is fluid and cursive, with the first name "John" being more prominent than the last name "Hatch".

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

enclosures

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.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

October 5, 2000

1468-1

Adele Jensen, Finance Officer
City of Timber Lake
PO Box 431
Timber Lake, SD 57536-431

Dear Ms. Jensen:

On July 12, 2000, the investigation of your water use system, including the extent of application of water to beneficial use, as developed under Water Permit No. 1468-1, was completed by Ron Duvall, 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".

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 Genny McMath with our program at (605) 773-3352.

Sincerely,

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

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

NO 416681

Pierre, November 8, 2000

RECEIVED OF City of Timber Lake, PO Box 431, Timber Lake SD 57656
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. 1468-1 _____

Fee for Filing Transfer Form _____

Fee for Filing Extension Request _____

Fee for _____

(Any Other Work Provided by Law)

Total

50 00

50 00

By

Arland Erbele
Chief Engineer

KE

Permit No. 1468-1
Moreau 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, July 12, 2000, made a thorough examination of the water use system constructed by the City of Timber Lake of Box 431, Timber Lake SD 57536 holder of Permit No. 1468-1, bearing the priority of August 22, 1989 authorizing the diversion of 0.80 cu. ft. per second of the waters of ground water (Fox Hills Formation) for municipal purposes, in Dewey County.

Inspection contact & relationship to permit holder, if applicable: **Rod Senger, Public Works Supt.**

A. Works used to divert the water:

Well Information: (5 wells)

- | | | |
|---|--|---|
| 1) Well Drilling Firm: <u>Aberle</u> | 1) Well Drilling Firm: <u>Aberle</u> | 1) Well Drilling Firm: <u>Huron</u> |
| 2) Well <u>No. 1</u> | 2) Well <u>No. 3</u> | 2) Well <u>No. 5</u> |
| 3) Depth(s) <u>100</u> feet | 3) Depth(s) <u>95</u> feet | 3) Depth(s) <u>80</u> feet |
| 4) Well log is available <u>N</u> | 4) Well log is available <u>N</u> | 4) Well log is available <u>Y</u> |
| 5) Comment: <u>see Form 2A</u> | 5) Comment: <u>see Form 2A</u> | 5) Comment: <u>legal incorrect on log</u> |
| 1) Well Drilling Firm: <u>Public Health</u> | 1) Well Drilling Firm: <u>Grimshaw</u> | |
| 2) Well <u>No. 2</u> | 2) Well <u>No. 4</u> | |
| 3) Depth(s) <u>100</u> feet | 3) Depth(s) <u>100</u> feet | |
| 4) Well log is available <u>N</u> | 4) Well log is available <u>N</u> | |
| 5) Comment: <u>see Form 2A</u> | 5) Comment: <u>see Form 2A</u> | |

Motor/Pumps:

- | | | |
|----------------------------------|----------------------------------|----------------------------------|
| 1) Make <u>#1 submersible</u> | 1) Make <u>#3 submersible</u> | 1) Make <u>#5 submersible</u> |
| 2) Model <u>unknown</u> | 2) Model <u>unknown</u> | 2) Model <u>unknown</u> |
| 3) Horsepower rating <u>5</u> hp | 3) Horsepower rating <u>?</u> hp | 3) Horsepower rating <u>3</u> hp |
| 4) Capacity <u>50</u> GPM | 4) Capacity <u>40</u> GPM | 4) Capacity <u>40</u> GPM |
| 1) Make <u>#2 submersible</u> | 1) Make <u>#4 submersible</u> | |
| 2) Model <u>unknown</u> | 2) Model <u>unknown</u> | |
| 3) Horsepower rating <u>5</u> hp | 3) Horsepower rating <u>5</u> hp | |
| 4) Capacity <u>40</u> GPM | 4) Capacity <u>40</u> GPM | |

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

Water is diverted from the wells to a 50,000 gallon water tower and then distributed to the city.

C. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Exceptions to compliance are: none

Report of Examination of Works

Permit No. 1468-1

The system is in good condition with the points of diversion located as follows: Well No. 1: $\approx$ 550 feet N and $\approx$ 1,650 feet W (SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec 17); Well No. 2: $\approx$ 900 feet S and $\approx$ 450 feet W (NE $\frac{1}{4}$ NW $\frac{1}{4}$ sec 20); Well No. 3: $\approx$ 2,100 feet S and $\approx$ 1,675 feet W (SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec 20); Well No. 4: $\approx$ 325 feet S and $\approx$ 2,475 feet W (NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec 20); Well No 5: $\approx$ 325 feet S and $\approx$ 2,550 feet W (NW $\frac{1}{4}$ NW $\frac{1}{4}$ sec 20); all from the N $\frac{1}{4}$ corner section 20-17N-25E. The works are capable of diverting and conveying to the place of use 0.47 cu. ft. per second of water which is to be used for municipal purposes. Water has been put to beneficial use to the maximum extent and the license should be issued for 0.47 cfs.

Comments or other permit(s) associated with the project: **none** | All structures, wells and lands on map Y

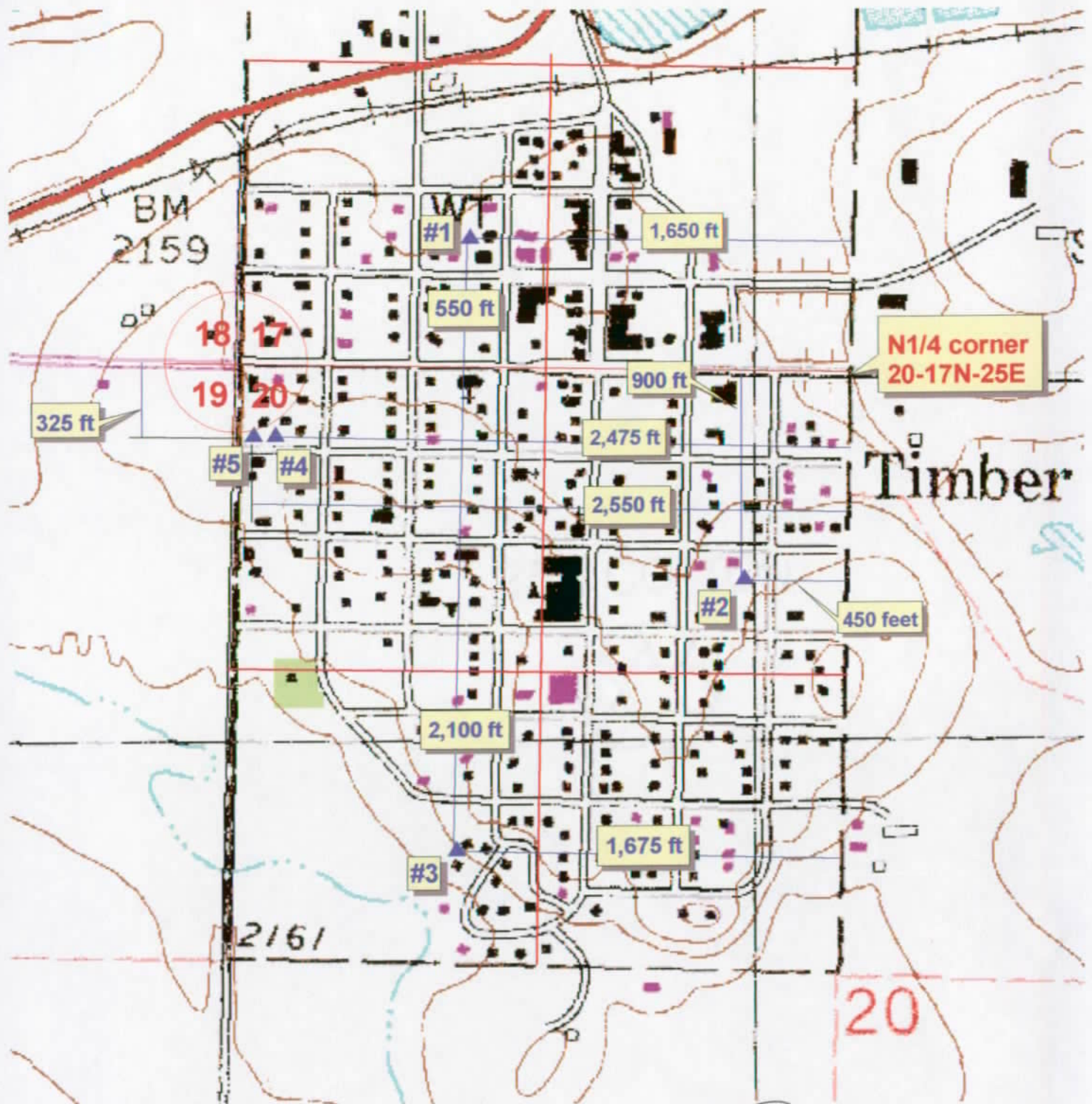


Ron Duvall

Natural Resources Engineer
DENR, Water Rights Program

Date report completed: August 16, 2000

600 0 600 Feet



South Dakota
Department of Environment
& Natural Resources
Water Rights

Ron Duvall, Nat Res Engineer
August 16, 2000

Water Right No. 1468-1

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1468-1

(1) The City of Timber Lake, Box 431, Timber Lake SD 57656 made Application No. 1468-1, August 22, 1989 for a water permit to divert 0.80 cubic feet of water per second from groundwater (five wells), Dewey County, South Dakota for municipal use purposes. Permit No. 1468-1, with a priority date of August 22, 1989 was approved December 7, 1989 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before December 7, 1994 and for the application to beneficial use of said water on or before December 7, 1998.

(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 0.47 cubic feet of water per second for beneficial use. The location of the diversion points are:

Well No. 1 - 550 feet north and 1,650 feet west (SW ¼ SW ¼ Sec 17);

Well No. 2 - 900 feet south and 450 feet west (NE ¼ NW ¼ Sec 20);

Well No. 3 - 2,100 feet south and 1,675 feet west (SW ¼ NW ¼ Sec 20);

Well No. 4 - 325 feet south and 2,475 feet west (NW ¼ NW ¼ Sec 20);

Well No. 5 - 325 feet south and 2,550 feet west (NW ¼ NW ¼ Sec 20);

all from the N ¼ corner of Section 20-T17N-R25E.

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

(4) Pursuant to South Dakota Water Law 46-5-30.1 the City of Timber Lake, Box 431, Timber Lake SD 57656 the holder and/or owner of Water Right No. 1468-1 is issued a license to appropriate water, the right to use 0.47 cubic feet of water per second from groundwater (five wells) with a priority date of August 22, 1989 from the location specified in (2) of this license for municipal use purposes. This license is subject to any limitations or qualifications listed in Water Right No. 1468-1 and subject to South Dakota State Law.

Garland Erbele

GARLAND ERBELE, Chief Engineer

Water Rights Program

Department of Environment and Natural Resources

NOV 15 2000

date





NOV 15 2000

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

1468-1

Adele Jensen, Finance Officer
City of Timber Lake
PO Box 431
Timber Lake SD 57656-0431

Dear Ms. Jensen:

Enclosed is Water License No. 1468-1. This is the final water right document completing your process of obtaining a Water Right. 1468-1. Enclosed is Receipt No. 416681 in the amount of \$50.00 which you paid for the investigation 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. 1468-1, 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

1468-1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location SW 1/4 NW 1/4 Sec 20 Twp 17N Rg 20E

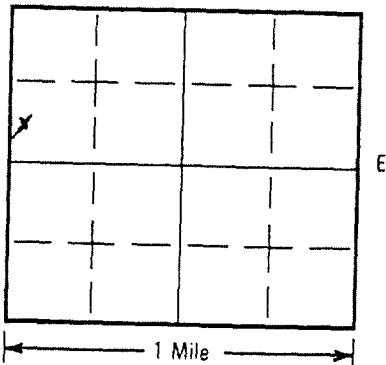
County

Dewey

Please mark well location with an "X"

Block 35
Lot 5
North 25 feet

Well Completion Date

4-20-2010

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 25' ft. from city sewer service (identify source).

PROPOSED USE:

☐ Domestic/Stock ☒ Municipal ☐ Business ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

Forward Mud Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>8.9</u> LB/FT	<u>10 1/2" OD</u>	<u>12</u> FT	<u>46'</u> FT	<u>16"</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>cat cement</u>	<u>17</u>	<u>15 1/2</u> lb./gal	<u>10'</u> ft	<u>30'</u> ft
<u>intake grout</u>	<u>5 1/2</u>	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure pumped in from bottom up through tremie pipeSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 10" IPS IN Length 50' FEETMaterial Stainless Steel Welded bar (Johnson)Slot Size 030 Set From 46' Feet to 96' FeetOther information Gravel packed well w/ #40 Red Flint from 30' to 96'. Stainless plate welded on bottom.WAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion? Chlorine solution
☒ YES, How: circulated in well.

laboratory sent to for water _____ NO, Why Not? _____

quality analysis _____

chemical sent to MUTL LaboratoriesC's sent to Pierre State Lab.Well Owner: Timber Lake City Well #1-A

Business Name: _____

Address: Box 431Timber Lake, S. Dak. 57656

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Topsoil</u>	<u>0</u>	<u>1</u>
<u>Brown to Brown-yellow sand & sandstone</u>	<u>1</u>	<u>24</u>
<u>Blue-gray sand & few sandstone layers</u>	<u>24</u>	<u>25</u>
<u>Blue-gray sand w/ gray clay stringers</u>	<u>25</u>	<u>95</u>
<u>Gray clay</u>	<u>95</u>	<u>96</u>

STATIC WATER LEVEL

20.6

Feet

If flowing: closed in pressure _____

PSI

GPM flow _____ through _____

inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____

GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ PumpedDescribe: Developed well by air lift off on surging till water cleared up. 8 hours.☐ Bailed☒ Other

Pumping Level Below Land Surface

77.3 ft. After 12 Hrs. pumped 87 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

Well located on southwest corner of Timber Lake.This well was drilled under license # 231

And this report is true and accurate.

Drilling firm Gregg's Drilling & Excavating

Signature of License Representative:

Gregg Dzienewski

Signature of Well Owner or Equitable Property Holder:

Date: _____

GREGG'S DRILLING & EXCAVATING

Gregg Griewski - Owner
506 First Street East - Residence
MOBRIDGE, SD 57601-2702

FIELD PUMPING TEST WATER LEVEL MEASUREMENTS

North 25 feet
lot 5
Block 35

WELL NO. 1-A

LOCATION Block 35

NAME: Timber Lake

DATE: 4-28-2010

TESTER(S) Justin Abente & Gregg

TEST PUMPING

RECOVERY

TIME OF MEASURE- MENT	ELAPSED TIME (MIN.)	DEPTH OF WATER (FEET)	PUMPING RATE (GPM)	DRAWDOWN (FEET)		TIME	DEPTH OF WATER (FEET)	ELAPSED TIME (MIN)	COMMENTS
8:00	0	20.3	0	0					
8:05	5	59.0	89	38.7				1	
8:10	10	62.4	83	3.4				2	
8:15	15	63.7	83	1.3				3	
8:20	20	64.1	83	.4				4	
8:25	25	64.4	82	.3				5	
8:30	30	64.6	82	.2				10	
8:40	40	64.9	82	.3				15	
8:50	50	65.1	81	.2				20	
9:00	1 hr.	65.4	81	.3				25	
9:10	1:10	65.5	81	.1				30	
9:20	1:20	65.6	81	.1				35	
9:30	1:30	65.7	81	.1				40	
9:40	1:40	65.9	81	.2				45	
9:50	1:50	66.0	81	.1				50	
10:00	2 hrs.	66.1	81	.1				55	
10:30	2:30	66.2	81	.1				1hr.	
11:00	3 hrs.	66.3	81	.1					
11:30	3:30	68.5	84	2.2					
12:00	4 hrs.	69.4	84	.9					
12:30	4:30	69.4	84	.0					
1:00	5:00	69.5	83	.1					
1:30	5:30	72.6	85	3.1					
2:00	6:00	72.8	85	.2					
2:30	6:30	77.0	87	4.2					
3:00	7:00	76.9	87	up .1					
3:30	7:30	77.0	87	Down .1					

4.2

506 First Street East - Residence

MOBRIDGE, SD 57601-2702

North 25 feet
Lot 5
Block 35

LOCATION Block 35

DATE: 4-28-2010

DATE: 4-28-2010

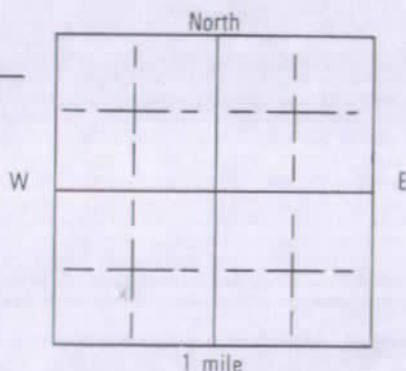
M-a

SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT

10-85

Location SW 1/4 SW 1/4 Sec 17 Twp 17N Rg 26ECounty Dewey

Please mark well location with an "X"

Block 9
Lot 4

Well Owner:

Name

Address

Plugging completion

Date

CHECK APPROPRIATE BOX

EXISTING WELL

Old #1 city well

TEST HOLE



Well depth

Casing material

Casing size(s)

Casing condition

Hole depth

Hole size

Describe plugging procedure:

Run 1" Truarc pipe down to 63' which is the
as it could not be run to the steel. Pumped grout in from
within 12' to 16' from the steel pump to cement from 6' to surface.

Describe grout or plugging material:

Pumped 12 1/2 bags - Volclay grout weighing 9.5 lbs
per gallon and portland cement 2 bags mixed with 12 Gallons
water for top 6' cement plug.

Type of non-slip plug:

Portland Type 1 cement plug

This well or test hole was plugged under license #

221

And this report is true and accurate.

Drilling firm

Gregg - Valley & Edwards

Signature of Licensed Representative

Gregg Edwards

Signature of Well Owner

Date

SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT

1468-1

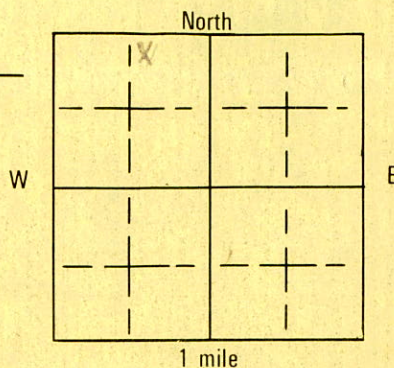
10-85

Location NE 1/4 NW 1/4 Sec 20 Twp 17N Rg 25

County Dewey

Please mark well location with an "X"

Block 21
Lot 7



Well Owner:

Name City of Timber Lake

Address P.O. Box 431

Timber Lake S.D. 57656

Plugging completion Date 9-5-2018

CHECK APPROPRIATE BOX

EXISTING WELL

☒ Old city well

TEST HOLE

☐

Well depth

86'

Hole depth

Casing material

Galvanized steel

Hole size

Casing size(s)

24" ID.

Casing condition

Rusted through out from water level down to bottom of well.

Describe plugging procedure:

In screen area from 50' feet down to 86' feet was filled in with washed chlorinated sand. Run tremie pipe down to 50' and pumped Bentonite grout up to 10' from top of casing. Then pumped Neat cement from 10' up to 5'. Casing cut off 5' below ground.

Describe grout or plugging material:

Pumped 32-50 lb. Bags of Bentonite grout w/ 23-24 Gallons of water per bag & 8-94 lb bags portland cement mixed with 7 Gallons of water & 5.9 lbs bentonite per bag of portland.

Type of non-slip plug:

Neat 5' Cement Plug

This well or test hole was plugged under license # 231 And this report is true and accurate.

Drilling firm

Gregg's Drilling & Excavating

Signature of Licensed Representative

Gregg S. Sienewski

Signature of Well Owner

Date

RECEIVED

OCT 09 2018

WATER RIGHTS PROGRAM