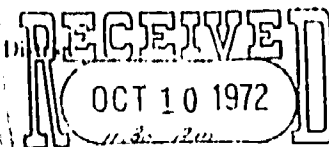


Water Right Number 972-1

1. Considered November 8, 19 72
2. Name of Applicant T. C. and G. Water Association
3. Post Office Address Trail City, S. D.
4. Amount of water claimed .4
5. Source of water supply ground water
6. Water to be used for water supplies for rural and suburban supply system
Acres to be irrigated --
7. Water to be diverted and used in Dewey County
about BETWEEN TRAIL CITY & GLENCRESS Miles of
8. Proof of Publication
Received 10-31-72
Not received _____
9. Application
Approved _____
Subject to _____
Not approved _____
Action deferred _____

10. Remarks:

No. 972-1Map No. B00-1 Water Division No. 1 MOREAU RIVER
(Blank to be Filled by the Engineer for the W. R. C.)

APPLICATION FOR PERMIT

STATE WATER RESOURCES COMM.
PIERRE, SOUTH DAKOTA

To Appropriate Water within the State of South Dakota

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

1. Name of Applicant T.C. & G. Water Association
 Postoffice address Timber Lake TRAIL CITY, State South Dakota
 If a corporation show date and place of incorporation September 1, 1972, Trail City, S. Dak.
2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract
3. Name of diversion work Rural Water District
4. Amount of water claimed (cubic feet per second) 0.4 Cu.Ft/sec.
5. Source of water supply Two wells
6. Location of point of diversion #1 - SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 13, T17N, R25E
#2 - NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 1, T17N, R25E
- County Dewey
7. Annual period or periods during which water is to be used Entire year
8. Use to be made of water. (irrigation, industrial, municipal, commercial, recreation, etc.) Rural & suburban water supply system
9. For irrigation use. Total number of acres to be irrigated N/A

List below each forty acre subdivision, lot, or fraction thereof and show number of acres to be irrigated in each.			
Land Description	No. Acres Irr.	Land Description	No. Acres Irr.
N/A			

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 5 years. Additional time required to complete application of water to the proposed beneficial use 4 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Timber Lake Topic
12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source. initially a 50 GPM well

Two - 75 ft. deep wells
 Two - Submersible pumps
 Two - 5 HP Electric Pumps

B. Works proposed to transport water to place of use. PVC Plastic Pipeline. 22,040 LF of 5"; 54,860 LF of 4"; 32,780 LF of 3"; 50,930 LF of 2 $\frac{1}{2}$ "; 67,350 LF of 2" and 116,680 LF of 1 $\frac{1}{2}$ ". Some 1" line to individual users.

C. Works proposed to apply water to beneficial use. 2 - water towers for storage
Individual meters to users.

Estimated Total Cost \$ 370,000

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage is proposed. Attach map.
 (See instructions concerning preparation.)

STATE OF SOUTH DAKOTA

County of Dewey

I, David Keller, Sec. of T.C. & G. Water Association, Inc., the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed T.C. & G. Water Association, Inc.Subscribed and sworn to before me this 9 day of October, 1972

Notary Public (or other qualified officer)

R 25 E

R 26 E

R 27 E

R 28 E

R 29 E

19 N

18 N

17 N

CORSON COUNTY

DEWEY COUNTY

TRAIL CITY

CORSON COUNTY
DEWEY COUNTY

T. C. & G. WATER ASSOCIATION
LAYOUT MAP

I HEREBY CERTIFY THAT THE PROPOSED LOCATIONS OF
THE WATER WELL AND PIPELINES SHOWN ON THE
ATTACHED PLAT ARE CORRECT.

May 1972

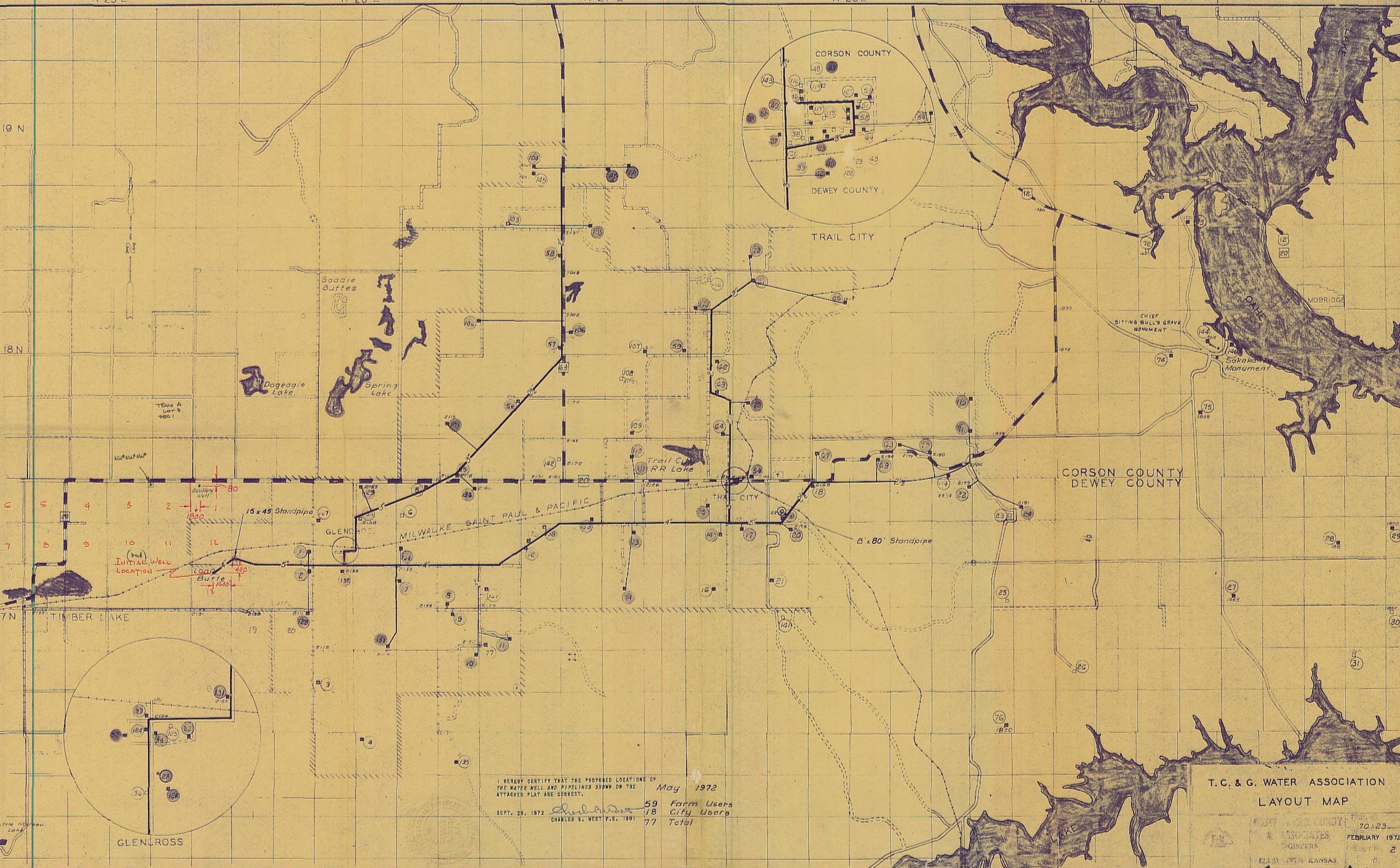
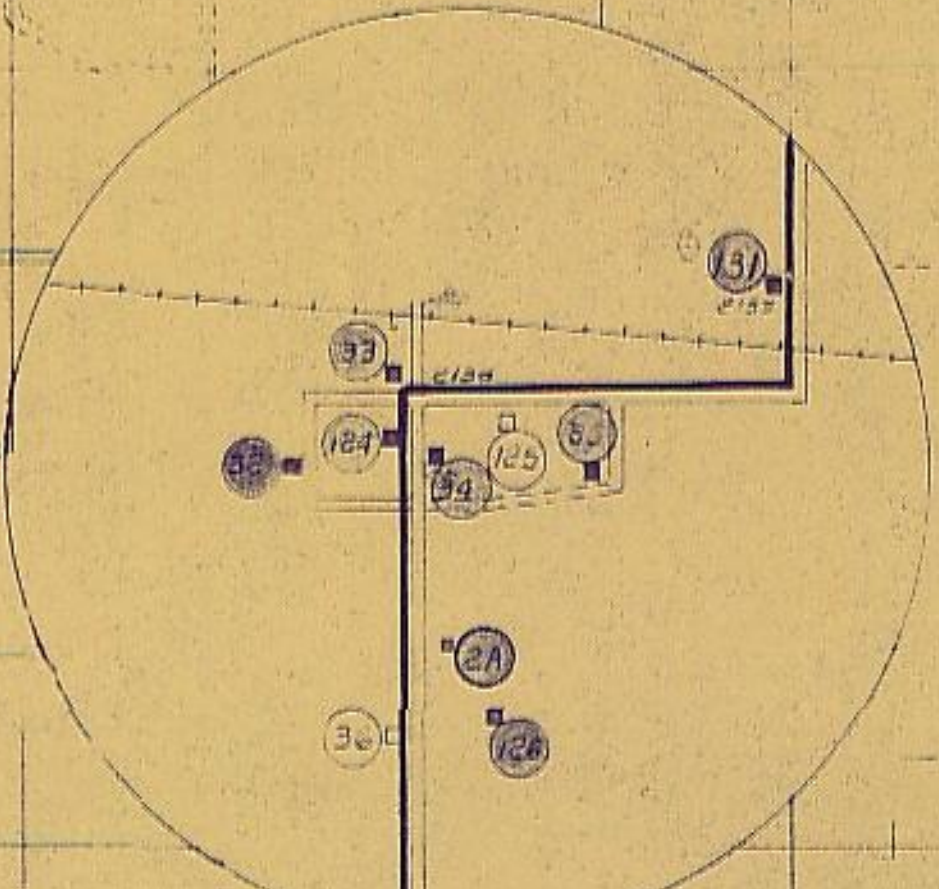
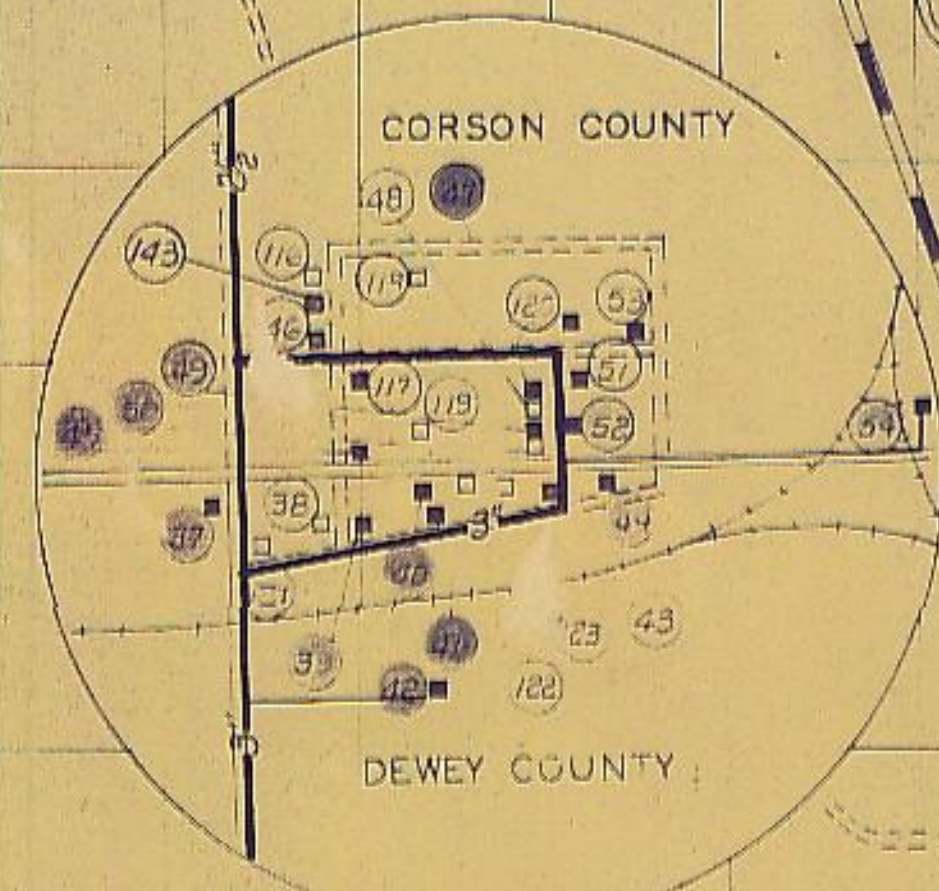
SEPT. 29, 1972

CHARLES S. WEST P.E. 1901

59	Farm Users
18	City Users
77	Total

MAP NO. 800-1 (APPL. NO. 972-1)

70-23
FEBRUARY 1972
2
EL PASO, TEXAS



WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 972-1

I.C. & G. WATER ASSOCIATION
(Applicant)

EMERALD LAKE TRAIL CITY
(Post Office Address)

SOUTH DAKOTA
(State)

With the following modifications:

The ~~existing~~ wells approved under this Permit ^{are} located near domestic wells which may obtain water from the same aquifer. The ~~existing~~ well owner, under this Permit, shall control his ~~existing~~ withdrawals so there is not a reduction of needed water supplies in existing domestic wells.

Date of first receipt of application OCTOBER 10 19 72

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

Date of receipt of corrected application _____ 19 _____

Approved NOVEMBER 8 19 72, Received in Book 12 Page 159

WATER RIGHT PERMIT NO. 972-1

The Water Resources Commission hereby grants and issues this Water Right Permit No. 972-1 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is OCTOBER 10 19 72
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before MAY 8 19 75
3. The whole of said work is to be completed on or before NOVEMBER 8 19 77
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is NOVEMBER 8 19 81
5. The water appropriated shall be used for the purpose of RURAL & SUB-URBAN WATER SUPPLY

6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.

7. The amount of the appropriation herein granted shall not exceed .4 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial use ~~and if for the irrigation purpose the appropriation must be limited to not more than 4 acre feet per acre per year and be limited to not more than 1/70 of one cubic foot of water per acre of land for each acre of land to which water is~~ actually and beneficially applied for irrigation on or before NOVEMBER 8 19 81; said water to be used during the following described annual period: CONTINUOUSLY

Witness my hand this 9TH day of NOVEMBER 19 72

WATER RESOURCES COMMISSION

By:

James C. Gering
Chief Engineer, Executive Officer

Certificate of Construction Issued _____ 19 _____

Water License Issued _____ 19 _____

942-1

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 28 in., Depth 87 ft.
- (2) Casing, Type Steel Diameter 8 in. Thickness 3/8 in.
(wood, concrete, steel, etc)
- (3) Perforated Screen.
Type Stainless Steel, Diameter 8 in., Length 30 ft.
- (4) Gravel Pack, Thickness 20 in., Length of gravel pack 75 ft.

E. Dugout Information or Estimates.

- (1) Surface dimensions _____, Depth _____

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

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

Character of Water bearing materials Gravel and Sand

Depth to top of water bearing material 18 ft.

Depth to bottom of water bearing material 83 ft.

Thickness of water bearing material 67 ft.

Depth to water (ground surface to water level) 18 ft.

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

On same owner's property 900 ft. rds. On property owned by others X rds.

G. Water Storage Dams.

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

This water is pumped only for domestic and livestock use.

T.C. & D. Water Dam, Inc.
Signature of Applicant

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 28 in, Depth 87 ft.
 (2) Casing, Type steel (wood, concrete, steel, etc.) Diameter 8 in. Thickness 3/8 in.
 (3) Perforated Screen.
 Type stainless steel, Diameter 8 in., Length 30 ft.
 (4) Gravel Pack. Thickness 20 in., Length of gravel pack 15 ft.

E. Dugout Information or Estimates.

- (1) Surface dimensions _____, Depth _____

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

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

Character of Water bearing materials gravel and sand

Depth to top of water bearing material 18 ft.

Depth to bottom of water bearing material 83 ft.

Thickness of water bearing material 67 ft.

Depth to water (ground surface to water level) 18 ft.

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

On same owner's property 900 ft. rds. On property owned by others X rds.

G. Water Storage Dams.

If the proposed water use system contains one or more water storage dams, please show in the space below, the height, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

This water is pumped only for domestic and livestock use.

T.C. & H. White Assoc. Inc.
 Signature of Applicant

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County DEWEY) ss.

I, J. P. Byington hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water 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:

Oct. 19, 1972

Oct. 26, 1972

J. P. Byington
(Signature)

Publisher/Owner
(Title)

Oct. 30, 1972
(Date Signed)

NOTICE OF
INTENT TO APPROPRIATE WATER
Pierre, South Dakota 57501
October 10, 1972

Notice is hereby given that T. C. & G. Water Association whose post office address is Trail City, South Dakota, has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use .4 cubic feet of water per second of time from ground water through the T. C. G. Wells, the points of diversion of which are to be located in the NW1/4NE1/4, Section 13, and in the NE1/4NW1/4 of Section 1 Twp. 17N, Range 25E. Said water to be used for the purpose of providing water supplies for rural and suburban water supply system.

This application No. 972-1 will be considered by the Water Resources Commission at their office at Pierre upon the 8th day of November, 1972, at 2:00 P. M. All interested persons may appear and be heard.

WATER RESOURCES COMMISSION
By s/BURTON F. JONES
Burton F. Jones,
Water Rights Specialist
Pub: Oct. 19 & 23, 1972

RECEIVED
OCT 31 1972

STATE WATER RESOURCES COMM.
PIERRE, SOUTH DAKOTA

Form 6 - Notice of Intent to Appropriate Water

972-1

Publish first publication, on or before October 26, 1972

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

October 10, 1972

Notice is hereby given that T. C. and G. Water Association

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

.4 cubic feet of water per second of time from the ground water through the

T. C. and G. Wells, the point^s of diversion of which ^{are} to be located in the _____

NW 1/4 NE 1/4, Section 13, and in the NE 1/4 NW 1/4

of Section 1, Twp. 17N, Range 25E. Said water to be used for the purpose of providing irrigation on the following described land:

water supplies for rural and suburban water supply system

This application No. 972-1 will be considered by the Water Resources Commission at their office at Pierre upon the 8th day of November, 1972 at 2:00 P. M. All interested persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES, Water Rights Specialist

cc: David Keller, Secretary, T.C. and G. Water Assoc., Trail City, S.D. 57657



Trail City S Dak
6-21-1990

972-1

Rept of Water;

Received your reply to my letter, and did appreciate your reply.

My question was is still is, yes we are in S.D. in drought which also causes wells, down an dug out to have a dangerous low water level. Now we have the two natural spring fed dug outs, every year the water is lower this spring these water dug outs are much lower then ever. About 3 miles if not that far are 3 deep water wells pumping water for the pipe line G & T water line. You know these wells are heavily used not only for human use but (livestock) which is fine, but acts as a godsend.

The question is these wells are pulling water from the natural springs for our dug outs.

How to take part in the program as to be eligible does not help us. We need our natural watered dug out in the summer pastures.

So could you check into this serious matter and do not allow more wells to be dug, for deep wells dry our wells as other group for water for the livestock.

Thank you, we hope this letter has explained our question.

Ludwig M. Bernardini
Thomae

972-1

SOUTH DAKOTA
Department of
Water & Natural Resources

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

June 26, 1990

Ludvig Thomas
RR 1 Box 76
Trail City, SD 57657

Dear Mr. Thomas:

The Trail City Glencross (TC & G) Water Association holds Water Permit No. 972-1 which authorizes 0.4 cfs (180 gallons per minute) from two shallow wells approximately 87 feet deep for rural and suburban supply usage. The wells were to be located in the SE NE NW NE of section 13 and NE NW NE NW of section 1, all in T17N R25E in Dewey County.

I am enclosing a copy of the GROUND WATER STUDY FOR THE TRAIL CITY GLENCROSS WATER ASSOCIATION for you to review.

The aquifer is the Fox Hills Formation. The Fox Hills consists of fine to medium sands and clays generally less than 90 feet thick and under water table conditions in this area. The Fox Hills overlies the Pierre shale (gray clay). The Pierre shale acts as a barrier to ground water movement and is generally not considered an aquifer.

The Division of Water Rights monitors five observation wells completed into the Fox Hills in this general area. Records for two of these wells DW-57B (located about two miles southwest) and CN-57B (located about three miles north) both from the well field are included with this letter.

In general water levels do respond to climatic conditions, that is, rising due to wet weather (favorable recharge conditions) and gradually declining during drought. Since the period of record began in 1959 there have been relatively small changes in the water levels. The wet and dry periods can be identified but the fluctuations are not significant. Pumping by TC & G does not affect the water levels in the observation wells. Under similar geohydrologic conditions (shallow sands under water table conditions), pumping by wells will not create drawdowns very far from individual production wells.

During extended droughts dugouts which obtain ground water may not be an adequate water supply. In this instance a well is much more reliable. Dugouts only penetrate the very top of the ground water table and are susceptible to filling with sediment and sand and to changes in the water levels in the aquifer. This aquifer

June 26, 1990

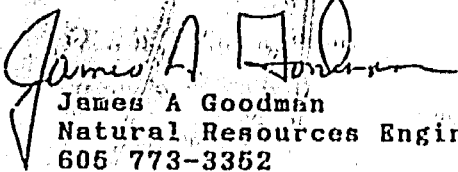
Ludvig Thomas

Page 2

is the only shallow dependable water source for the area. It is difficult to develop a high capacity well in this aquifer because of the nature of the sand. Any other aquifer is much deeper and much poorer in water quality. The only other major user in the area is the Town of Timber Lake.

I hope this information will be of some assistance to you and if there are any questions, please let me know.

Sincerely,

A handwritten signature in dark ink, appearing to read "James A. Goodman", with a stylized flourish at the end.

James A Goodman
Natural Resources Engineer
605 773-3352

enclosures



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

August 22, 2000

972-1 & 1530-1

T. C. & G. Water Association, Inc.
c/o Rod Senger, Manager
Box 95
Glencross SD 57630

Dear Mr. Senger:

On July 12, 2000, the investigation of the water use system, including the extent of application of water to beneficial use, as developed under Water Permit Nos. 972-1 & 1530-1, was completed by Ron Duvall, a staff engineer with our program. The final water right document, the water license, can now be issued.

State law require that we charge a \$50.00 fee for the investigation and issuance of each water license. Upon receipt of the \$100.00 fee from you, we will complete processing the water licenses. The check or money order for the fee should be made payable to the "Water Rights Program".

The 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 permits, investigation of your water use system or payment of the fee, please contact Genny McMath with our program at (605) 773-3352.

Sincerely,

Karen Schlaak

Karen Schlaak
Environmental Scientist
Water Rights Program

Permit No. 972-1
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 T. C. & G. Water Association, Inc. of Box 95 Glencross SD 57630 holder of Permit No. 972-1, bearing the priority of October 10, 1972 authorizing the diversion of 0.40 cu. ft. per second of the waters of ground water (Fox Hills Formation) for rural water purposes, in Dewey and Corson County.

Inspection contact & relationship to permit holder, if applicable: **Rod Senger, manager**

A. Works used to divert the water:

Well Information:

- 1) Well Driller: Huron?
- 2) No. of Wells 2
- 3) Depth(s) 87 & 75 feet
- 4) Well log is available N

Casing:

- 1) Diameter 8 and 6 inches
- 2) Type both steel

Screen:

- 1) Type stainless steel
- 2) Length 30 and 20 feet
- 3) Static water level 18 and 12 feet

Motor/Pump (Well No. 1)

Make: Submersible, 5hp
 Capacity: 50 gpm

Motor/Pump (Well No. 3)

Make: Submersible, 10hp
 Capacity: 90 gpm

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

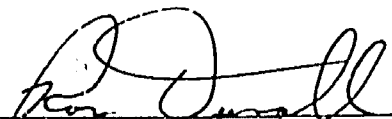
Water is diverted to two storage reservoirs (30,000 gallons and 80,000 gallons) and then distributed to the water users.

C. Compliance with Permit Requirements:

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

The system is in good condition with the points of diversion located as follows: Well No. 1: ≈ 2,600 feet E and ≈ 100 feet S from the NW corner of section 1-17N-25E (NE¼NW¼); Well No. 3: ≈ 1,200 feet W and ≈ 50 feet N from the SE corner of section 12-17N-25E (SE¼SE¼). The works are capable of diverting and conveying to the place of use 0.31 cu. ft. per second of water which is to be used for rural and suburban water supply. Water has been put to beneficial use to the maximum extent and the license should be issued for 0.31 cfs.

Comments or other permit(s) associated with the project: 1530-1 | All structures, wells and lands on map Y


 Ron Duvall

Natural Resources Engineer
 DENR, Water Rights Program

Date report completed: August 16, 2000

Approval of Location Change and/or Additional Diversion Point(s)**NAME:** T. C. & G. Water Association, Inc.**ADDRESS:** Box 95, Glencross SD 57630**DATE:** July 12, 2000**COUNTY:** Dewey**AUTHORITY:**

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

- **Developed water source same as permitted source and no additional water appropriated**

The developed water source is the Fox Hills formation which the same as the permitted water source. Well No. 3 is located outside of the permitted area specified as being the NW $\frac{1}{4}$ NE $\frac{1}{4}$ section 13-T17N-R25E. The actual well location is in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ section 12-T17N-R25E approximately 200 feet away from the advertised legal description.

- **If irrigation, no new land is irrigated**

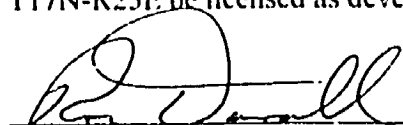
Not applicable -- the well is used for rural and suburban water uses.

- **Review of Existing Diversions**

The city of Timber Lake and Timber Lake Cheese Co. both have water permits for ground water from the Fox Hills formation. The wells authorized under these permits are approximately five miles from Well No. 3. No interference problems between these wells have been noted in the water permit file nor would interference problems be expected over this distance. A letter was received on June 22, 1990, from Ludvig Thomas concerning drought-related problems with springs and dugouts and whether the wells authorized by No. 972-1 may be causing water problems. A letter from Jim Goodman to Mr. Thomas indicated that pumping from the Fox Hills formation should not be the cause of springs or dugouts going dry.

RECOMMENDED ACTION

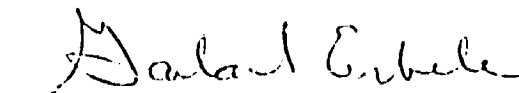
Based on the above criteria, it is recommended that the diversion point located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ section 12-T17N-R25E be licensed as developed.



Ron Duval, Natural Resources Engineer
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:07:01:14.01 that:

This change in location and/or additional diversion point(s) does not increase the potential for adverse effects to existing diversions.



Garland Erbele, Chief Engineer
Water Rights Program

RECEIPT

Water Rights Program

South Dakota Department of Environment and Natural Resources

NC 416625

Pierre, Sept 11, 2000

RECEIVED OF T.C.&G. Water Association, PO Box 95, Glencross SD 57630
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. 972-1

Fee for Filing Transfer Form _____

Fee for Filing Extension Request _____

Fee for _____

(Any Other Work Provided by Law)

Total

50 00

By

Chief Engineer

Barbara E. Ebel

MS

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 972-1

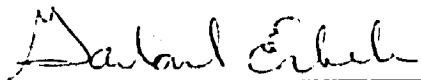
(1) T.C. & G. Water Association, Inc., PO Box 95, Glencross SD 57630 made Application No. 972-1, October 10, 1972 for a water permit to divert 0.4 cubic feet of water per second from groundwater (two wells), Dewey County, South Dakota for rural water system purposes. Permit No. 972-1, with a priority date of October 10, 1972 was approved November 8, 1972 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before November 8, 1977 and for the application to beneficial use of said water on or before November 8, 1981.

An investigation conducted for licensing purposes found one of the wells under Water Permit No. 972-1 was not in the location authorized by the permit. Pursuant to SDCL 46-5-13.1, the Chief Engineer makes a finding that the change in location of diversion point does not increase the potential for interference with existing water rights.

(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 0.31 cubic feet of water per second for beneficial use. The location of the diversion points are: Well No. 1 - $\approx$ 2,600 feet east and 100 feet south from the northwest corner of Section 1-T17N-R25E (NE $\frac{1}{4}$ NW $\frac{1}{4}$) and Well No. 3 - $\approx$ 1,200 feet west and 50 feet north from the southeast corner of Section 12-T17N-R25E (SE $\frac{1}{4}$ SE $\frac{1}{4}$).

(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to serve users in Dewey and Corson Counties.

(4) Pursuant to South Dakota Water Law 46-5-30.1 T.C. & G. Water Association, Inc., PO Box 95, Glencross SD 57630 the holder and/or owner of Water Right No. 972-1 is issued a license to appropriate water, the right to use 0.31 cubic feet of water per second from groundwater (two wells) with a priority date of October 10, 1972 from the location specified in (2) of this license for rural water system use. This license is subject to any limitations or qualifications listed in Water Right No. 972-1 and subject to South Dakota State Law.


GARLAND ERBELE, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

OCT 10 2000

date





OCT 10 2000

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

972-1 & 1530-1

T.C. & G. Water Association, Inc.,
c/o Rod Senger, Manager
Box 95
Glencross SD 57630

Dear Mr. Senger:

Enclosed are Water License Nos. 972-1 & 1530-1. These are the final water right documents completing your process of obtaining a Water Right. Enclosed are receipts in the amount of \$50.00 each which you paid for the investigation and issuance of the Water Licenses.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the wells authorized by Water Right No. 972-1 & 1530-1, 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 Licenses, 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

August 6, 2003

Eric Gronlund
Water Rights Program, DENR
Joe Foss Building
523 East Capitol Ave.
Pierre SD, 57501

RECEIVED

AUG - 8 2003

WATER RIGHTS
PROGRAM

REF: Water Right No. 972-1

Dear Eric,

The water well in Section 12 of the above referenced water right has failed and is abandoned. T.C. & G Water Association has drilled a test hole approximately 50 feet Northeast of the present well. We would like the water rights to transfer to this new location.

The new well will produce the same as the abandoned well. I have enclosed a map of the new location along with the well log.

If you need any more information please contact me at 605-865-3361. Thank you for your cooperation in this matter.

Sincerely,

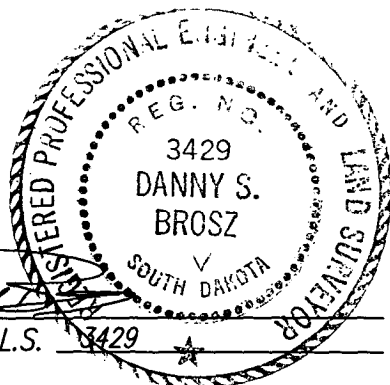
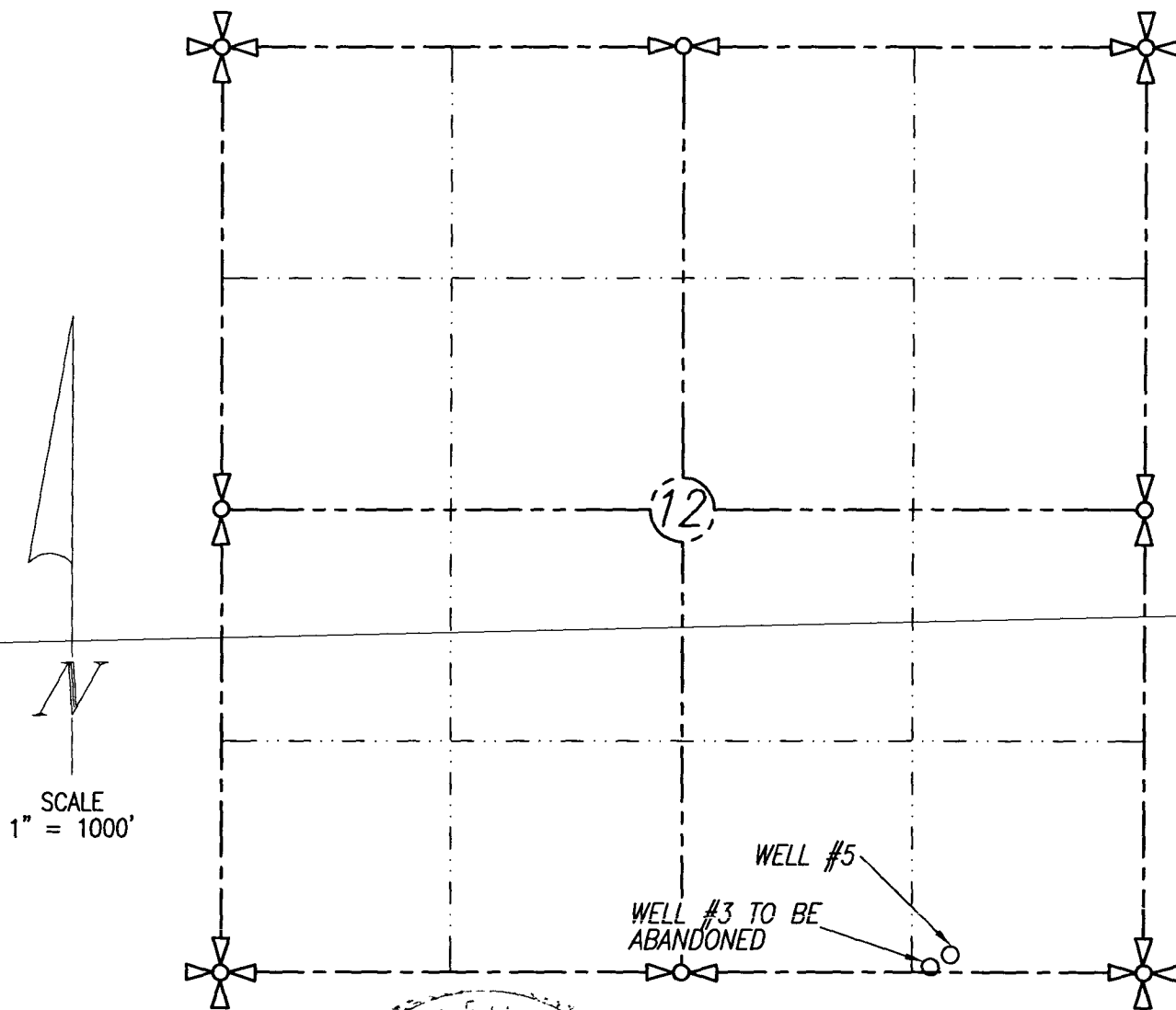


Rod Senger, Manager
T.C. & G. Water Association

Enclosures

RS/jpb

WELL LOCATION PLAT
T.C. & G. WATER ASSOCIATION
SE1/4SE1/4 SECTION 12
TOWNSHIP 17 NORTH
RANGE 25 EAST
DEWEY COUNTY, SOUTH DAKOTA

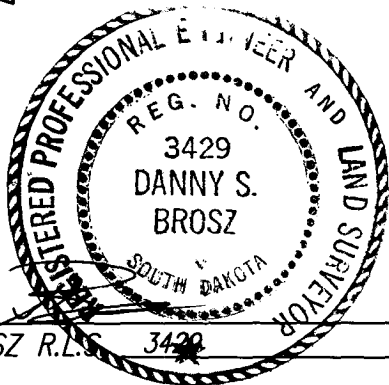
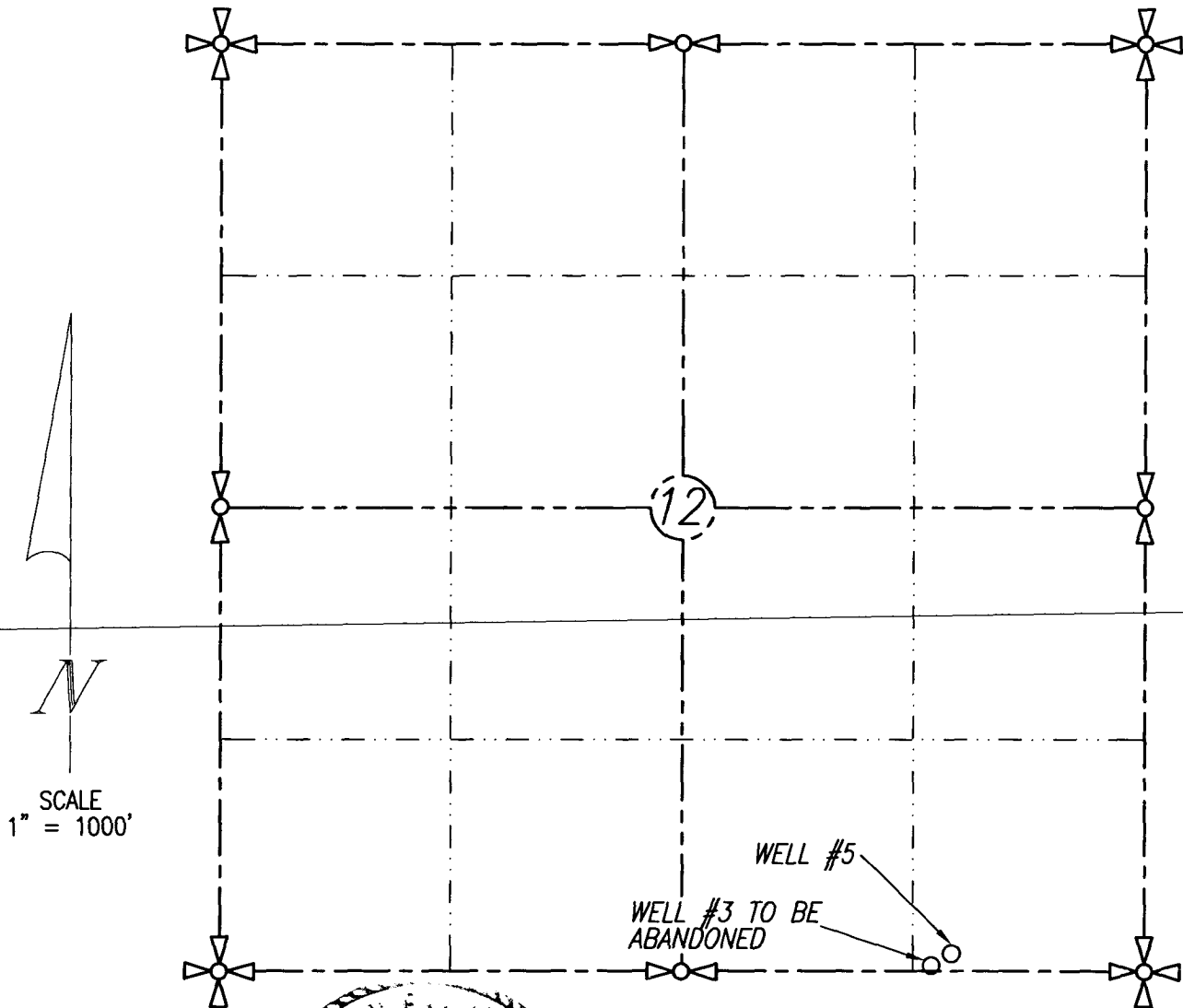


DANNY S. BROSZ R.L.S. 3429

BROSZ ENGINEERING INC.

BOX 357
BOWMAN, N.D. 58623
PHONE: 701-523-3340
FAX: 701-523-5243
PROJECT NO. 03-18

WELL LOCATION PLAT
T.C. & G. WATER ASSOCIATION
SE1/4SE1/4 SECTION 12
TOWNSHIP 17 NORTH
RANGE 25 EAST
DEWEY COUNTY, SOUTH DAKOTA



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BOX 357
BOWMAN, N.D. 58623
PHONE: 701-523-3340
FAX: 701-523-5243
PROJECT NO. 03-18

Approval of an Replacement Well

NAME: TC&G Water Association

ADDRESS: PO Box 95, Glencross SD 57630

DATE: August 13, 2003 **COUNTY:** Dewey **TELEPHONE:**

BACKGROUND:

TC&G Water Association holds Water Right No. 972-1 appropriating 0.31 cubic feet of water per second (139 gpm) from two wells (87 and 75 feet deep) located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 1, T17N, R25E and the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 12, T17N, R25E. The Association states that the well located in Section 12 has failed and is abandoned.

The Association submitted a request for authorization to construct a replacement well. The new well will also be located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 12, T17N, R25E approximately 50 feet northeast of the abandoned well.

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

- **Developed water source same as permitted source and no additional water appropriated**

The well authorized under Water Right No. 972-1 which is planned for replacement is constructed into the Fox Hills Formation at depth of 87 feet. This replacement well will be constructed into the same aquifer.

No additional appropriation of water is requested. The original water permit appropriates 0.31 cfs from the two wells combined.

- **Review of Existing Diversions**

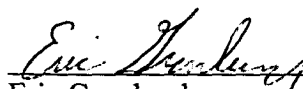
There are domestic wells in the vicinity of this replacement well. There are no ground water rights in a one mile radius of the well to be replaced. This is a request solely for a replacement well located approximately 50 feet away from the well to be abandoned and no effect to other wells is anticipated.

CONCLUSION

- This replacement well does not appropriate additional water.
- The replacement well must be constructed into the Fox Hills Formation which is the same water source as the wells authorized by Water Right No. 972-1.
- Existing domestic wells will not be adversely impacted by authorizing this replacement well.
- There has been no record of any complaint on the Association's wells adversely impacting neighboring wells.
- The abandoned well must be plugged in accordance with SD Well Construction Standards.

RECOMMENDED ACTION

Based on the above criteria, it is recommended that the replacement diversion point to Water Right No. 972-1 be authorized.


Eric Gronlund
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

This replacement well will not increase the potential for adverse effects to existing diversions.


Garland Erbele, Chief Engineer
Water Rights Program



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

August 18, 2003

Rod Senger, Manager
TC&G Water Association
PO Box 95
Glencross SD 57630

Dear Mr. Senger:

I am writing in regards to the Association's request to replace one of the wells authorized by Water Right No. 972-1.

Water Right No. 972-1 appropriates 0.31 cubic feet of water per second (139 gpm) from two wells (87 and 75 feet deep) located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ Section 1, T17N, R25E and the SE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 12, T17N, R25E. The existing well in Section 12 has failed and been abandoned. The Association intends to replace the abandoned well with a new well to be located approximately 50 feet northeast of the present well. The new well shall be constructed into the same water source (Fox Hills Formation) as the existing wells. No additional water will be appropriated. The abandoned well must be plugged in accordance with well construction standards.

Upon review of the request and pursuant to SDCL 46-5-13.1, the replacement well is authorized without application or publication of a notice of hearing pursuant to SDCL 46-2A-4. A new water right permit will be necessary if the combined diversion rate from the new well and the well in Section 1 is greater than 0.31 cfs (139 gpm).

If you have any questions, please contact Eric Gronlund at (605) 773-3352.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program

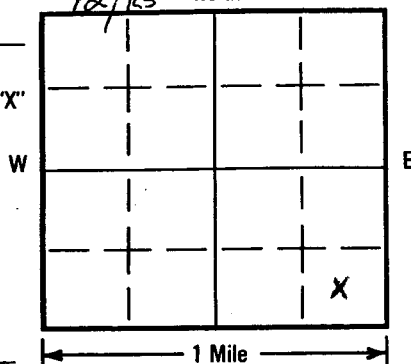
SOUTH DAKOTA WATER WELL COMPLETION REPORT

972-1

07-92

Location SE 1/4 SE 1/4 Sec 7 Twp 17N Rg 25E
 County Dewey

Please mark well location with an "X"



Well Completion Date

7-26-2003

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 75' ft. from abandoned well (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Drilled test/Bored well

CASING DATA:

- ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>18.89 LB/FT</u>	<u>12" DIA IN</u>	<u>7' FT</u>	<u>27' FT</u>	<u>28" IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type Neat cement No. of Sacks 4.5 Grout Weight 15.0 lb./gal From 10' ft. To 25' ft.

Describe grouting procedure Pumped in from bottom up through tremie pipe.

SCREEN:

- ☐ Perforated pipe ☒ Manufactured

Diameter 12" IN Length 45' FEET

Material Stainless Steel 304

Slot Size 0.35 Set From 28 Feet to 73' Feet

Other information Gravel packed well screen w/ #40 red flat from 40' to 73', 5' to 30' to 40' to 55' to 73'

WAS A PACKER OR SEAL USED? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

DISINFECTION: Was well disinfected upon completion?

☒ YES, How Chlorine solution circulated in well

☐ NO, Why Not? Well

Laboratory sent to for water quality analysis

Pierre State Health Lab
New Well Sample

Well Owner: Trail City & Glencross #5 well
 Business Name: _____
 Address: P.O. Box 105
Glencross S. Dak.

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Topsoil</u>	<u>0</u>	<u>1</u>
<u>Brown-yellow sandy clay</u>	<u>1</u>	<u>18</u>
<u>Brown-gray sandstone</u>	<u>18</u>	<u>19</u>
<u>Brown to gray sandy clay</u>	<u>19</u>	<u>22</u>
<u>Gray-blue sand to sandy clay</u>	<u>22</u>	<u>56</u> ^{TOP}
<u>Gray-blue sandy clay</u>	<u>56</u>	<u>60</u>
<u>Gray hard sandstone</u>	<u>60</u>	<u>61</u>
<u>Gray sandy clay to clay</u>	<u>61</u>	<u>73</u>
		<u>Bottom of Aquifer</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:

- ☒ Pumped Describe: Developed well with 3" pipe & 1" air line for section at Pines & silt till clear.

- ☐ Bailed
☒ Other

Pumping Level Below Land Surface

62 ft. After 24 Hrs. pumped 22 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS This well is new replacement well for one that has collapsed.

This well was drilled under license # 231

And this report is true and accurate.

Drilling firm Gregg's Drilling & Excavating

Signature of License Representative: Doug Swinski

Signature of Well Owner or Equitable Property Holder: _____

Date: _____

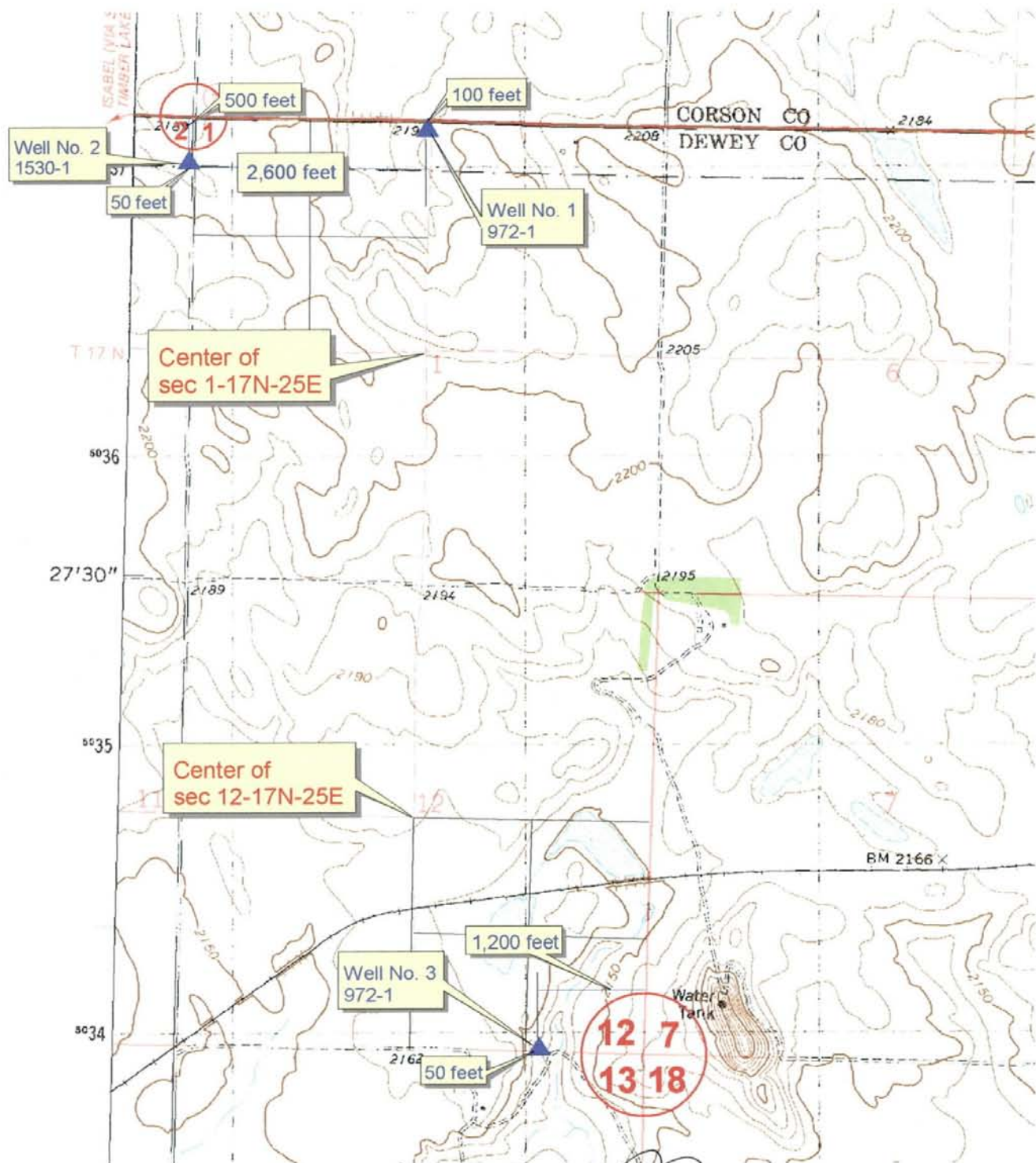
RECEIVED

DEC 29 2003

WATER RIGHTS PROGRAM

12-31-03

2000 0 2000 Feet



South Dakota
Department of Environment
& Natural Resources
Water Rights

Ron Duvall
Ron Duvall, Nat Res Engineer
August 16, 2000

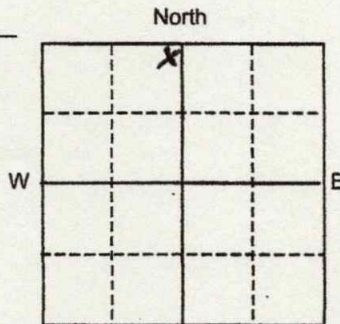
Water Right Nos. 972-1 & 1530-1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NE 1/4 NW 1/4 Sec 1 Twp 17N Rg 35ECounty Dewey

Please mark well location with an "X"



Well Completion Date

8-30-2022

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
ft. from _____ (Identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Forward Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other
 If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>15.59 LB/FT</u>	<u>12" ID IN</u>	<u>1 above</u>	<u>34 FT</u>	<u>16" IN</u>
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Portland</u>	<u>15</u>	<u>18.5 Lb/gal</u>	<u>9' Ft</u>	<u>28' Ft</u>
		Lb/gal	Ft	Ft

Describe grouting procedure Pumped in from bottom up through 1" Tremie pipe

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 12" Inches Length 47' Feet
 Material Stainless Steel 304 High Flow
 Slot Size .035 Set From 34 Feet to 81' Feet
Other information Gravel pack #60 Red Flint from 28" to 81" Stainless welded bottomWAS A PACKER OR SEAL USED? ☐ Yes ☒ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? Chlorine solution in gravel pack and circulated in well.
☐ No, Why Not? _____
 Lab to which water quality sample sent for analysis _____
Well Owner: TC & G Well #1Business Name: Water AssociationAddress: 13485 258th Ave.City, State, Zip: Glencross, SD 57630

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Topsoil</u>	<u>0</u>	<u>1</u>
<u>Brown-yellow sand</u>	<u>1</u>	<u>11</u>
<u>Gray sandstone</u>	<u>11</u>	<u>12</u>
<u>Brown-green sand & sandstone</u>	<u>12</u>	<u>26</u>
<u>Gray-blue sand & sandstone</u>	<u>26</u>	<u>68</u>
<u>Gray-blue sand to sandy clay</u>	<u>68</u>	<u>80</u>
<u>Gray sandy clay</u>	<u>80</u>	<u>82</u>

STATIC WATER LEVEL 13' FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe: Developed well by air lift off on surging till water cleared up for 36.5 hours
☐ Bailed
☒ Other

Pumping Level Below Land Surface

39.4 Ft. After 10 Hrs. pumped 85 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

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 Dziwinski

Signature of Well Owner or Equitable Property Holder:

Date:

RECEIVED

NOV 28 2022

OFFICE OF
WATER

972-1