

4839B-3

**SOUTH DAKOTA  
WATER PERMIT NO. 4839B-3**

Date of first receipt of application: November 16, 1981

Water Permit No. 4839-3, for the City of Tyndall, PO Box 29, Tyndall, SD 57066-J029, was approved by the Water Management Board on February 4, 1982 authorizing reservation of water and construction of a water use system and the placement of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 4839-3 appropriated 1.33 cubic feet of water per second (cfs) from one well (160 feet deep) located in Section 21, T94N, R60W. No. 4839-3 also reserved 4.31 cfs for Future Use purposes from the location described above.

**WATER PERMIT NO. 4839-3 IS BEING DIVIDED AND REISSUED AS FOLLOWS:**

Future Use Permit No. 4839A-3 reserving 410 acre feet of water annually (On December 7, 1989, the Water Management Board amended No. 4839-3 to delete the diversion rate of 4.31 cfs and authorize an acre foot limitation) from groundwater located in Section 21, T94N, R60W; and

Water Permit No. 4839B-3 authorizing diversion of 1.33 cfs from groundwater (one 160' deep well) located in Section 21, T94N, R60W.

2. The water appropriated shall be used for the purpose of municipal use for the City of Tyndall and may not exceed the amount of water needed for beneficial use.
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: November 16, 1981.

**QUALIFICATION**

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

**WATER MANAGEMENT BOARD**

By:   
JOHN HATCH, Chief Engineer  
Water Rights Division  
Dept of Environment & Natural Resources

NOV 14 1994

STATE OF SOUTH DAKOTA  
WATER LICENSE NO. 4839B-3

(1) The City of Tyndall, of PO Box 29, Tyndall, SD 57066-0029 made Application No. 4839-3, November 16, 1981 for a water permit to appropriate 1.33 cubic feet of water per second from groundwater (one well), Bon Homme County, South Dakota for municipal purposes. Permit No. 4839-3, with a priority date of November 16, 1981 was approved February 4, 1982 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before February 4, 1983 and for the application to beneficial use of said water on or before February 4, 1983.

Water Permit No. 4839-3 was divided and reissued as Future Use Permit No 4839A-3 and Water Permit No. 4839B-3. This action separated the future use portion from the water permit. Water Permit No. 4839B-3 is now being licensed as developed.

(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.06 cubic feet of water per second for beneficial use. The location of the diversion point(s) is 3500 feet N 42°W of the SE corner of Section 21, T94N, R60W (NE¼ NW¼ NW¼ SE¼).

(3) The applicant 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 Tyndall of PO Box 29, Tyndall, SD 57066-0029 the holder and/or owner of Water Permit No. 4839B-3 is issued a license to appropriate water, the right to use 1.06 cubic feet of water per second from groundwater (one well) with a priority date of November 16, 1981 from the location specified in (2) of this license. The water is to be used for the purpose of municipal use. This license is subject to any limitations or qualifications listed in Water Permit No. 4839B-3 and subject to South Dakota State Law.

  
\_\_\_\_\_  
JOHN HATCH, Chief Engineer  
Water Rights Division  
Department of Environment and Natural Resources

NOV 14 1994  
\_\_\_\_\_  
date



4839B-3

DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

NOV 14 1994

4839A-3

4839B-3

Peg Patterson, Auditor  
City of Tyndall  
PO Box 29  
Tyndall, SD 57066-0029

Dear Ms. Patterson:

Enclosed is Future Use Permit No. 4839A-3, Water Permit No. 4839B-3 and Water License No. 4839B-3.

Water Permit No. 4839-3 was divided and reissued as follows:

Future Use Permit No. 4839A-3 reserving 410 acre feet of water annually from groundwater located in Section 21, T94N, R60W; and

Water Permit No. 4839B-3 authorizing diversion of 1.33 cfs from groundwater (one 160' deep well) located in Section 21, T94N, R60W

Further documents or correspondence relevant to the city's future use permit will be referred to, or filed under, Future Use Permit No. 4839A-3.

As long as you beneficially use the water as stated in Water License No. 4839B-3, SD Water Laws provide that you have a continuing right to the use of the water.

If you have any questions concerning the enclosed water permits and water license, please contact us.

Very truly yours,

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

enclosures

REDUCTION RATIO

ROLL NUMBER

DATE MICROFILMED

CAMERA OPERATION SIGNATURE

Water District

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

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

I have this day made a thorough examination of the water use system constructed by The City of Tyndall  
of City Hall, Tyndall, SD holder of  
 Permit No. 4839-3, bearing the priority of November 16 1981 authorizing  
 the diversion of 1.33 cu. ft. per second of the waters of groundwater  
 for Municipal purposes, in Ben Homme County.

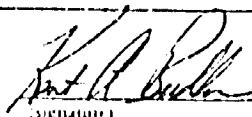
I have to report on the conditions of the same as follows:

**A. Works used to divert the water:**

The system has one well developed by Huron Drilling Co. Inc., having a depth of 173 feet with 16-inch diameter PVC casing, and 20' of Johnson stainless steel screen. The pump is a Fairbanks Morse Pump, and the motor is a 40HP Fairbanks Morse. The Maximum capacity of the pump is 697.7 gpm.

**B. Works used to transport water to place of use:** Water is transported from this well to the City of Tyndall through a 10-inch diameter asphalt covered cement pipeline approximately 5 miles long.**C. Works used to apply water to beneficial use:** Through the City distribution system.The system is in the following condition GOODThe point of diversion is located 3500 feet N 42°W from the SE corner of Sec. 21, T94N-R6WThe works are capable of diverting and conveying to the place of use 475 gpm (1.06 cfs)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 as follows:

comprising a total of \_\_\_\_\_ acres of land and the license should be issued for 1.06 cfsApplicable permit qualifications have been complied with \_\_\_\_\_ Yes \_\_\_\_\_ No *Inspection Conducted September 3, 1982*Exceptions to compliance are: \_\_\_\_\_ Date DEC. 6, 1982
  
 (Signature)

LICENSE FOR PERMIT NUMBER 4839-3

1. Legal location of wells: 3500 feet N 42°W of the SE corner of Sec. 21, T94N-R60W  
(NE 1/4 NW 1/4 NW 1/4 SE 1/4 Sec. 21, T94N-R60W)

dams & structures: \_\_\_\_\_

2. Well Information: Well Drilling Firm Hurona Drilling Company, Inc. (SD License No. 94)

No. of wells one Depth 173 feet

Casing a) diameter 16 -inch Screen a) type 16" Johnson Stainless steel  
b) length 153 b) length 20'

c) type PVC Static Water Level 35 feet

Pump a) make Fairbanks Morse Pumping Water Level 47 feet

b) model No. K2-253558 Motor a) make Fairbanks Morse  
b) model no. F331709 Sec. T1032-1

c) size 16.5 x 6 c) horsepower rating 40HP

d) capacity 697.7 GPM d) motor efficiency rating \_\_\_\_\_

e) turbine pump \_\_\_\_\_

no. of stages \_\_\_\_\_

pumping pressure = 80psi

3. Distribution lines:

a) size of lines 10-inch

b) type Asphalt coated Cement

c) length \_\_\_\_\_

4. Dam information:

a) height to crest \_\_\_\_\_

b) height to spillway \_\_\_\_\_

c) crest width \_\_\_\_\_

d) crest length \_\_\_\_\_

e) spillway length \_\_\_\_\_

f) spillway width \_\_\_\_\_

g) approx. storage \_\_\_\_\_

h) Distribution lines or canals:

1) size \_\_\_\_\_

2) type \_\_\_\_\_

3) length \_\_\_\_\_

- i) Outlet tubes:

1) diameter \_\_\_\_\_

2) type \_\_\_\_\_

3) valued (Y/N) \_\_\_\_\_

4) valve type \_\_\_\_\_

5) location on structure \_\_\_\_\_

5. System Type: a) sideroll:

1) length \_\_\_\_\_ feet

2) diameter of pipe \_\_\_\_\_

3) make, model & number of sprinklers \_\_\_\_\_

4) spacing of sprinklers \_\_\_\_\_

5) nozzle size \_\_\_\_\_

- b) towline:

1) length \_\_\_\_\_ feet

2) make, model & number of sprinklers \_\_\_\_\_

3) spacing of sprinklers \_\_\_\_\_

4) nozzle size \_\_\_\_\_

5. System Type: c) center pivot

- 1) make \_\_\_\_\_
- 2) number of towers \_\_\_\_\_
- 3) distance between towers \_\_\_\_\_
- 4) overall length \_\_\_\_\_
- 5) End gun (Y/N) \_\_\_\_\_
- 6) high or low pressure \_\_\_\_\_
- 7) make & size of nozzles \_\_\_\_\_
- 8) PSI reading while system is running \_\_\_\_\_
- 9) GPM \_\_\_\_\_

g) Gun

- 1) make \_\_\_\_\_
- 2) serial number \_\_\_\_\_
- 3) nozzle size \_\_\_\_\_
- 4) capacity (GPM) \_\_\_\_\_
- 5) PSI \_\_\_\_\_
- 6) hose size \_\_\_\_\_
- 7) hose length \_\_\_\_\_

d) Gate Pipe

- 1) length \_\_\_\_\_
- 2) diameter \_\_\_\_\_
- 3) spacing of gates \_\_\_\_\_

e) Siphons

- 1) number \_\_\_\_\_
- 2) size \_\_\_\_\_

f) Portable boom

- 1) make \_\_\_\_\_
- 2) serial number \_\_\_\_\_
- 3) nozzle size \_\_\_\_\_
- 4) capacity (GPM) \_\_\_\_\_
- 5) PSI \_\_\_\_\_

h) Hydromatic

- 1) make \_\_\_\_\_
- 2) model \_\_\_\_\_
- 3) serial number \_\_\_\_\_
- 4) length \_\_\_\_\_
- 5) nozzle size \_\_\_\_\_
- 6) spacing \_\_\_\_\_
- 7) PSI \_\_\_\_\_
- 8) capacity (GPM) \_\_\_\_\_

YES NO Check Items

- |              |                                                                                             |
|--------------|---------------------------------------------------------------------------------------------|
| ___ NA ___   | 1. Soil and water permit lands agree with lands being irrigated and lands listed on permit. |
| <u>X</u> ___ | 2. Special Qualifications to permit being abided by.                                        |
| <u>X</u> ___ | 3. All Structures, wells and lands on map.                                                  |

REMARKS: A booster pump is located at the well. The booster pump had no identification. The maximum rate of the well is 475 gpm with the booster pump and 350 gpm without the booster pump.

5663

Tyndall, SD  
**WELL REPORT**

HURON  
DRILLING CO.  
Huron, S. D.



City of Tyndall

OWNER

Bon Homme County

DESCRIPTION

July 27, 1982

DATE

CASING LOG

Depth 173 ft.  
Flows gpm 153 ft. 16" PVC Class pipe to 153 ft.  
Pumps 500 gpm 20 ft. 16" Johnson pipe to 173 ft.  
Head 44' 11" ft. Stainless Steel Screen .040 slot  
20 ft. - 16" Johnson SS Screen 40 slot @ Bottom pipe to ft.  
Perforations ft. pipe to ft.

Pressure

5 Days

Drilling Time

REMARKS

153-173  
8,000 Eau Claire 3,000 Madison Gravel  
63 Bags Bentonite 30" Drag Bit 30" Rock Tub  
253 Bags Cement

Rig No. 23

Dennis Duvall

Foreman



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\_\_\_\_\_  
JOHN HATCH, Chief Engineer  
Water Rights Division  
Department of Environment and Natural Resources

NOV 14 1994

\_\_\_\_\_  
date



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DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES

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

4839A-3  
4839B-3

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