WATER PERMIT NO. 1705-1

Name of Applicant: **Sturgis Water Dept.**

Address: **1025 First St, Sturgis SD 57785** Phone: **605 347-4425**

Amount of Water Claimed: **125 gpm (0.28 cfs)** Total Acres: **NA**

Source of Water Supply: **groundwater (one well)**

Water to be used for: **municipal** County: **Meade**

Type of Waste Disposal System:

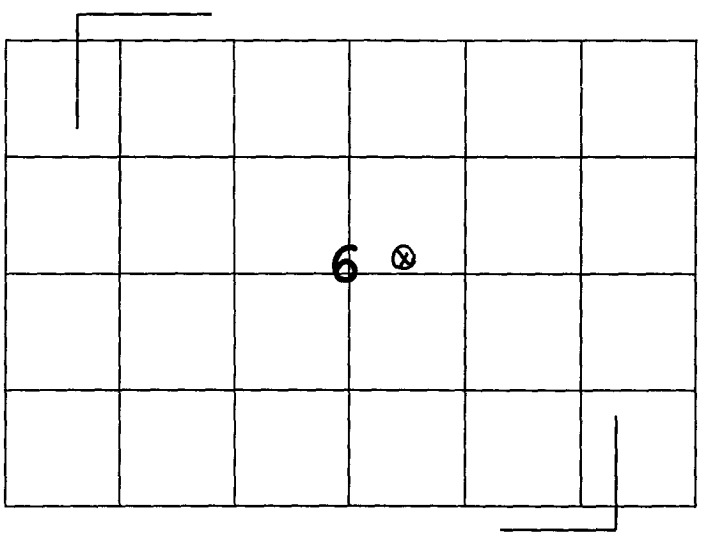
Location:

PRIORITY Date Received: **12-27-1999** Fee: **$225**

Corrected Application Received: Period of Annual Use: **January 1 – December 31**

Remarks: **Increases diversion rate authorized by 1396-1 from 225 gpm to 350 gpm**

Diversion Point: **SW ¼ NE ¼ Sec 6-T5N-R5E**



Land to be Irrigated: **NA**

Depth of Well: **460 feet deep**

Well Driller: **Graf Drilling**

Remarks:

Type of Map: **aerial**

Prepared by: **Ron Duvall**

Reviewed and the Number Assigned on: **1-3-2000** By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

SOUTH DAKOTA
WATER PERMIT NO. 1705-1

Date of first receipt of application December 27, 1999.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 1705-1 to Sturgis Water Department, 1025 First Street, Sturgis SD 57785 authorizing the water use system subject to the following limitations, conditions and qualifications:

1. Water Permit No. 1705-1 appropriates 0.28 cubic feet of water per second (cfs) by increasing the diversion rate authorized by Water Permit No. 1396-1. Water Permit No. 1396-1 authorizes 0.5 cfs (225 gallons per minute [gpm]) from one well (Minnelusa Formation) 460 feet deep located in the SW ¼ NE ¼ Section 6-T5N-R5E. This permit increases the water appropriation from the well from 225 gpm to 350 gpm.

2. The water appropriated shall be used for the purpose of supplying water for municipal, commercial and industrial uses 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 of approval of Permit No. 1705-1 is March 20, 2000.

5. The date from which applicant may claim right is December 27, 1999.

6. 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 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.

2. The City of Sturgis shall report to the Chief Engineer annually the amount of water withdrawn each year for municipal use.

WATER MANAGEMENT BOARD

By: Garland Erbele

Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

APR 1 0 2000
date

STATE OF SOUTH DAKOTA GREAT SEAL 1889

FORM 2: Application for uses other than irrigation
(type or print)

Mail to:	(office use only)
Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. 1705-1 Hydrologic Unit 10120202 Basin Belle Fourche River Newspaper Meade Co. Times Tribune, Sturgis, SD

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

Check use(s) of water:

✓ Municipal	___ Suburban Housing	___ Recreational	___ Institutional
___ Rural Water System	✓ Commercial	___ Fish & Wildlife	___ Geothermal Heat
___ Domestic (over 18 gpm)	✓ Industrial	___ Other ___	

Type of Application: ✓ **New** ___ **Vested Right** (Use predates Mar 2, 1955) ___ **Future Use Reservation**
(check one) ___ **Place to Beneficial Use Water Reserved by Future Use Permit No.** ___
___ **Amendment/Correction to Permit No.** ___

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.) ___

1. Name of Applicant Sturgis Water Dept Phone 605 347-4425
(check one) ___ Owner ___ Tenant/lessee
Mailing Address 1025 First Street, Sturgis State S.D. 57785
(Street. RR. or Box) (Zip Code)

2. Amount of water claimed 0.28 *CFS or 125 odd'l **GPM ***AF
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use if applicable)

3. Source of water supply one well - Minnelusa Formation

4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) SW¼NE¼ sec 6 - T5N-R5E
County Meade

5. County or counties where water will be used Meade

6. Annual period during which water is to be used Jan 1 - Dec 31

7. Give a description of the 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)
This application is to increase the pump rate from 225gpm to 350gpm for the well authorized under No. 1396-1.

STATE OF SOUTH DAKOTA) SS
County of MEADE)

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

I, DALE MORMAN, 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 Dale Morman

Subscribed and sworn to before me this 14th day of December 1999

Joyce L. Ehlers

JOYCE L. EHLERS
Notary Public
My Commission Expires July 10, 2000

8-96

Form 2A
(Complete applicable portions only)

Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction see well completion report dated 9/29/87

a) Drill Hole Diameter _____ Depth _____

b) Casing Type _____ Diameter _____ Thickness _____

c) Screen Type _____ Diameter _____ Thickness _____

d) Gravel Pack _____ Length of Gravel Pack _____

e) Depth to Top of Water Bearing Material _____

f) Depth to Water (ground surface to water level) _____

g) Distance to nearest existing domestic well: 900' South

On applicants property Yes On property owned by others _____

2. Wastewater Disposal System Information

a) Type of System (i.e. septic tank, drain field) _____

b) System Capacity (gallons) _____ Year Constructed _____

c) Connected to the City of _____ Sanitary System _____

3. Dugout Information

a) Surface Dimensions _____ Depth _____

b) Depth to water (ground surface to water level) _____

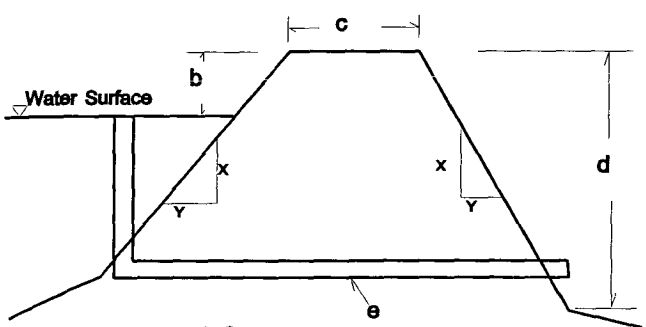
4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to 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 _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

j) Drainage Area Above Dam _____ Acres

DEC 1999
WATER RIGHTS
PROGRAM
Pierre, SD

DATE 21-Dec-99 S D Dept of Envirn & Natl Res VENDOR NO. 061560 00136

INVOICE	AMOUNT	P.O. NO.	COMMENTS	INVOICE TOTAL
12B	325.00		WATER	
12B	14.00		WATER Rct# 8889	
12B	50.00		WASTEWATER Rct# 5994	389.00

1396-1 license fee for Well #5 $50.00
1705-1 Water permit fee Well #5 $225.00
1445-1 license fee for dam #5 50.00
325.00
} Water Rights Program

PLEASE DETACH BEFORE DEPOSITING Check Total 389.00

NOTES

RECEIPT DATE 12-27-99 NO. 5995

RECEIVED FROM City of Sturgis

ADDRESS Sturgis, SD.

$325.00

FOR license fee for Well #5 $50.00 license fee for dam #5 $50.00
water permit for well #5 $225.00

ACCOUNT			HOW PAID		
AMT. OF ACCOUNT			CASH		
AMT. PAID			CHECK	061560	
BALANCE DUE			MONEY ORDER		

BY Cecile Bruner

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RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT APPLICATION NO. 1705-1, Sturgis Water Department

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 1705-1, Sturgis Water Department, c/o Eldon Christians, Water Superintendent, 1025 First Street, Sturgis SD 57785.

The Chief Engineer is recommending APPROVAL of Application No. 1705-1 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion has been developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

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 adequate wells having prior water rights.

2. The City of Sturgis shall report to the Chief Engineer annually the amount of water withdrawn each year for municipal use.

See report on application for additional information.

Garland Erbele, Chief Engineer
February 23, 2000

WATER PERMIT APPLICATION NO. 1705-1
STURGIS WATER DEPARTMENT
FEBRUARY 14, 2000

Water Permit Application No. 1705-1 proposes to appropriate 0.28 cubic feet of water per second (cfs) by increasing the diversion rate authorized by Water Permit No. 1396-1. Water Permit No. 1396-1 authorizes 0.5 cfs (225 gallons per minute [gpm]) from one well (Minnelusa Formation) 460 feet deep located in the SW ¼ NE ¼ Section 6, T5N-R5E. This permit increases the water appropriation from the well from 225 gpm to 350 gpm. This water is used for municipal, commercial and industrial use by the City of Sturgis.

AQUIFER: Minnelusa Aquifer (MNLS)

GENERAL:
The Minnelusa Aquifer is an assemblage of alternating beds of sandstone and dolomitic limestone with lesser amounts of red and black shale and chert approximately 500 feet thick in this area (Water Rights$_2$, 2000). Because the lithology of the Minnelusa is so variable, the porosity of the formation is also variable and difficult to determine. Well sorted sand lenses have porosity's approaching 25%, but generally the sands have porosity's of 10%. The average porosity of the Minnelusa is estimated to be 10% and the effective porosity is assumed to be 5% (Rahn, 1979). The Minnelusa formation underlies approximately 2,172,800 acres of Meade County and contains an estimated 81,480,000 acre-feet of recoverable water in storage (Allen, 1984). The aquifer is areally extensive around the Black Hills and is hydraulically connected into the counties surrounding Meade County. Ground water movement is probably toward the north and east. There is no aquifer-test data available for the Minnelusa Aquifer at this site; therefore, the aquifer transmissivity and storage coefficient values are unknown. Estimates from regional studies of the aquifer indicate the aquifer transmissivity may range from 30 to 1000 ft^2/d, and the storage coefficient ranges from $6.6x10^{-5}$ to $2x10^{-4}$ (Kyllonen, 1987). The top of the Minnelusa is reported to be 415 feet below ground surface on the completion report filed with Water Permit No. 1396-1. The report indicates the static water level of the well was reported to be 140 feet below grade in 1987.

WATER AVAILABILITY:
The Water Rights Program monitors 23 observation wells completed into the Minnelusa aquifer in the Black Hills area. Water Rights Observation Well LA-86C is located approximately 1 mile west of this well site. The hydrograph for the well (see figure 1), is fairly typical for the Minnelusa Aquifer. That is, the water levels reach their peak in the early summer each year and gradually decline until spring. The majority of the recharge to the system occurs between March and July.

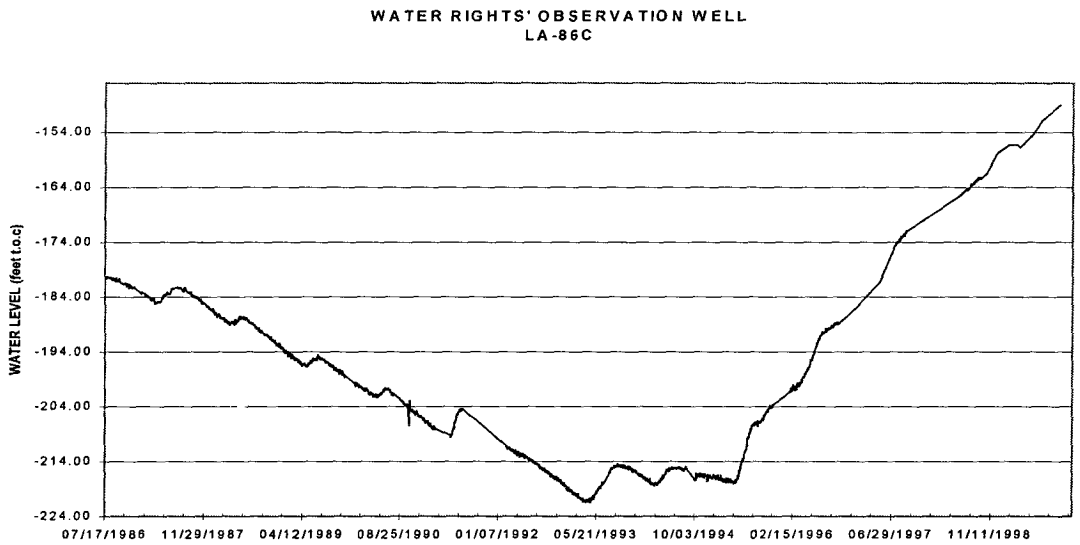

Figure 1. Minnelusa Aquifer Observation Well, One mile west of 1705-1

The hydrograph also shows the magnitude of fluctuation in the water levels in the area (>72') with the lowest water level on record occurring in 1993 and the highest occurring at the last measurement (10/28/99). It is interesting to note that on October 14, 1990, the Minnelusa Aquifer was essentially "pumped" at a rate of 150 gpm just 20' away from this well during the drilling of a Madison observation well. As can be seen in figure 1, the pumping resulted in about three feet of drawdown in this well. It is also interesting to note from this hydrograph the increased amount of recharge to the aquifer since the mid 1990's, at least relative to the first part of this record.

It is obvious from the Water Rights' Observation Well hydrographs that withdrawals have not exceeded recharge for the period of record. The observation well data suggest that at the existing level of development, the aquifer is capable of sustaining additional withdrawals.

AFFECTS ON EXISTING RIGHTS:

There are 160 Water Rights/Permits that appropriate water from the aquifer in South Dakota. There are 57 permits/rights appropriating water from the Minnelusa aquifer in Meade County (Water Rights$_3$, 2000), where the aquifer is used primarily for suburban housing development, commercial, municipal and irrigation use. There are also a number of domestic wells completed into the Minnelusa Aquifer on file with the Water Rights Program (Water Rights$_1$, 2000).

There are five Water Rights/Permits appropriating water from the Minnelusa Aquifer within approximately one and one-half miles of this existing well. They include:

Permit No	Owner
1062-1	Sturgis Municipal Utility Board
1349-1	Warren Mann
1558-1	Leo Bestgen
1318-1	Gerald Baldwin
1351-1	Molly B's Truckstop

With the exception of the City's own permit (No. 1062-1) none of these appropriations are within one-half mile of this well. The distance to other diversions will minimize the drawdown from this well so the additional diversion rate proposed by this application will not be adverse to adequate wells in the area.

CONCLUSIONS:

1. The Minnelusa Aquifer is a viable aquifer in this area, and water is available for this appropriation.

2. The Minnelusa is under artesian conditions and drawdown due to this diversion can be expected. This drawdown is not expected to adversely affect adequate wells in the area.

3. This is an existing use of water that was identified by Ron Duvall, Water Rights Staff Engineer, during an on-site investigation. The Water Rights Program has not received any complaints regarding this ongoing water use.

4. The Completion Report submitted with this application indicates the existing well has been constructed in compliance with the SD Well Construction Standards.

Ken Buhler
Natural Resources Engineer

Approved by

James A. Goodman, PE
Natural Resources Engineer

REFERENCES:

Allen, J.C., D.Iles, A.Petres, 1984, Analysis of Groundwater and Streamflow Data, Western Dakotas Region of South Dakota, Task 3 & 4: Groundwater Resources Inventory, US Army Corps of Engineers Contract DAWC 45-82-C-015, SD DENR-Division of Geological Survey, Vermillion SD

Kyllonen, D.P., K. Peter, 1987, GeoHydrology and Water Quality of the Inyan Kara, Minnelusa, and Madison Aquifers of the Northern Black Hills, South Dakota and Wyoming, and Bear Lodge Mountains, Wyoming, U.S. Geological Survey, Water Resources Investigations Report 86-4158, Rapid City, SD

Rahn, P.H., 1979, Ground Water Resources of Western South Dakota, US Army Corps of Engineers, Draft Report-Final

Water Rights Program$_1$, 1999, "Domestic Well Log Files" DENR-Water Rights Program, Joe Foss Building, Pierre, SD

Water Rights Program$_2$, 2000, "Observation Well Files" DENR-Water Rights Program, Joe Foss Building, Pierre, SD

Water Rights Program$_3$, 2000, "Water Permit Files" DENR-Water Rights Program, Joe Foss Building, Pierre, SD

DEPARTMENT of ENVIRONMENT and NATURAL RESOURCES

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

www.state.sd.us/denr

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

February 23, 2000

Sturgis Water Department
%Eldon Christians, Water Superintendent
1025 First Street
Sturgis, SD 57785

Dear Mr. Christians:

Water Permit Application No. 1705-1 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 Meade Co. times-tribune printed at Sturgis, SD (Ph # (605) 347-2503). For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

DEPARTMENT of ENVIRONMENT and NATURAL RESOURCES
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

February 23, 2000

Meade Co. Times-Tribune
Box 69
Sturgis, SD 57785-0069

ATTENTION: Legal Public Notice

Enclosed is a Notice of Hearing on Application No. 1705-1 to Appropriate Water to be published twice. Please publish the first notice on March 1, 2000, 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 Sturgis Water Department, %Eldon Christians, Water Superintendent, 1025 First Street, Sturgis, SD 57785 (Ph # (605) 347-4425).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

----------CU T HERE----------

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

No. 1705-1

Date_____
We are in receipt of your letter of February 23, 2000, enclosing Notice of Hearing to Appropriate Water by Application No. 1705-1 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 March 1, 2000, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 1705-1 to Appropriate Water

Notice is given that Sturgis Water Department, 1025 First St, Sturgis SD 57785 has filed an application for a water permit to appropriate 0.28 cubic feet of water per second (cfs) by increasing the diversion rate authorized by Water Permit No. 1396-1. Water Permit No. 1396-1 authorizes 0.5 cfs (225 gallons per minute [gpm]) from one well (Minnelusa Formation) 460 feet deep located in the SW ¼ NE ¼ Section 6-T5N-R5E. This permit increases the water appropriation from the well from 225 gpm to 350 gpm. This water is used for municipal, commercial and industrial use by the City of Sturgis.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1705-1 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. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by March 20, 2000.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.

Form 8

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
County of Meade)

I, Joan M. Lewis

certify that the attached printed Notice was taken

from the Meade County Times

printed and published in Sturgis

County of Meade and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

March 1, 2000

March 8, 2000

Cost of Printing 39.91

Joan M. Lewis
(Signature)

Bookkeeper
(Title)

3-8-2000
(Date Signed)

Appropriate water

NOTICE OF APPLICATION NO. 1705-1 to Appropriate Water

Notice is given that Sturgis Water Department, 1025 First St, Sturgis SD 57785 has filed an application for a water permit to appropriate 0.28 cubic feet of water per second (cfs) by increasing the diversion rate authorized by Water Permit No. 1396-1. Water Permit No. 1396-1 authorizes 0.5 cfs (225 gallons per minute [gpm]) from one well (Minnelusa Formation) 460 feet deep located in the SW 1/4 NE 1/4 Section 6-T5N-R5E. This permit increases the water appropriation from the well from 225 gpm to 350 gpm. This water is used for municipal, commercial and industrial use by the City of Sturgis.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 1705- 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. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

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The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Nettie H. Myers, Secretary, Department of Environment and Natural Resources.

Publ March 1 and 8, 2000
Meade County Times-Tribune

Form 12

Permit No. 1705-1

Belle Fourche 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 15, 1999**, made a thorough examination of the water use system constructed by **City of Sturgis** of **1147 Sherman St, Sturgis SD 57785** holder of Permit Nos. **1705-1 and 1396-1***, bearing the priority of **December 27, 1999 and June 22, 1987, respectively,** authorizing the diversion of **0.28 and 0.50** cu. ft. per second, respectively, of the waters of **Minnelusa Formation** for **municipal, commercial, and industrial** purposes, in **Meade** County.

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

A. Works used to divert the water:

Pump/Motor:

1) Make **unknown**
2) Size **60 hp**
3) Capacity **350** GPM

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

Water is diverted into the city distribution system.

The system is in the following condition **good**. The point of diversion is located **Well: 600 feet E and 165 feet N from center of section 6-T5N-R5E (SW¼NE¼).** The works are capable of diverting and conveying to the place of use **0.78** 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 **0.78** cfs.

Applicable permit qualifications have been complied with: Yes **X** No

Exceptions to compliance are: **none** Date report completed: **March 22, 2000**

Ron Duvall
Natural Resources Engineer
DENR, Water Rights Program

*Water Right Permit No. 1396-1 should be incorporated into the license for Water Right No. 1705-1.

FIELD INVESTIGATION REPORT FOR PERMIT NO. 1705-1

DATE OF INVESTIGATION	**July 15, 1999**
NAME & ADDRESS OF INVESTIGATION CONTACT/ RELATIONSHIP TO PERMIT HOLDER, IF APPLICABLE	**Justin Weyer**
NAME & ADDRESS OF PERMIT HOLDER	**City of Sturgis 1147 Sherman St Sturgis SD 57785**
DIVERSION POINT LEGAL LOCATION	**Well: 600 feet E and 165 feet N from center of section 6-T5N-R5E (SW¼NE¼)**

Other permit(s) associated with the project: **1396-1**

WELL INFORMATION:

1) Well Drilling Firm: **Graf Drilling**
2) No. of Wells **1**
3) Depth(s) **460** feet
4) Well log is available **Y**

Casing:

1) Diameter **95/8, 7** inches
2) Length **50, 309** feet
3) Type **steel**

Screen:

1) Type **open hole**
2) Static water level **140** feet

Pump/Motor:

1) Make **unknown**
2) Size **60 hp**
3) Capacity **350** GPM

DISTRIBUTION LINES OR CANALS:

Water is diverted into the city distribution system.

PERMIT QUALIFICATIONS:

1) Special qualifications to permit being abided by **Y**
2) All structures, wells and lands on map **Y**

MAP NOT TO SCALE
THIS IS NOT AN OFFICIAL WETLAND MAP

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1705-1

(1) Sturgis Water Department, 1025 First St., Sturgis SD 57785 made Application No. 1705-1, December 27, 1999 for a water permit to divert an additional 0.28 cubic feet of water per second (cfs) from groundwater (one well), Meade County, South Dakota for municipal, commercial and industrial purposes. Permit No. 1705-1, with a priority date of December 27, 1999 was approved March 20, 2000 and issued to the applicant for diversion of water with construction of the described water supply system completed and the application to beneficial use of said water completed.

Water Permit No. 1396-1, with a priority date of June 22, 1987 authorized 0.50 cfs from one well. The applicable portions of Permit No. 1396-1 are incorporated into Water License No. 1705-1.

(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 0.78 cubic feet of water per second for beneficial use. The location of the diversion point is 600 feet east and 165 feet north from the center of Section 6-T5N-R5E (SW ¼ NE ¼).

(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 Sturgis Water Department, 1025 First St., Sturgis SD 57785 the holder and/or owner of Incorporated Water Right No. 1705-1 is issued a license to appropriate water, the right to use 0.78 cubic feet of water per second from groundwater (one well) with priority dates of June 22, 1987 (0.50 cfs) and December 27, 1999 (0.28 cfs) from the location specified in (2) of this license for municipal, commercial and industrial purposes. This license is subject to any limitations or qualifications listed in Incorporated Water Right No. 1705-1 and subject to South Dakota State Law.

Garland Erbele

APR 1 0 2000

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

date

DEPARTMENT of ENVIRONMENT and NATURAL RESOURCES
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

APR 1 0 2000

1705-1

Sturgis Water Department
%Eldon Christians, Water Superintendent
1025 First St.
Sturgis, SD 57785

Dear Mr. Christians:

Enclosed are Water Permit and Water License No. 1705-1. This is the final water right document completing your process of obtaining a Water Right.

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. 1705-1, 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

ks
enclosures

NOTE: The applicable portions of Permit No. 1396-1 are incorporated into Water License No. 1705-1.