

Considered: _____

WATER PERMIT NO. 1418-1

MAP No. Same

Name of Applicant City of Bison

Post Office Address Box 237, Bison SD 57620 244-5906

Amount of Water Claimed 0.05 Total Acres NA

Source of Water Supply ground water 1 well Fox Hills Formation

Water to be used for Municipal purposes County Perkins

About 1/2 miles S of Bison

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY _____ Date Received Nov. 14, 1986 Fee \$50.00 Remarks _____

Corrected Application Received Sept 4, 1987 Period of Annual Use Jan 1 - Dec 31

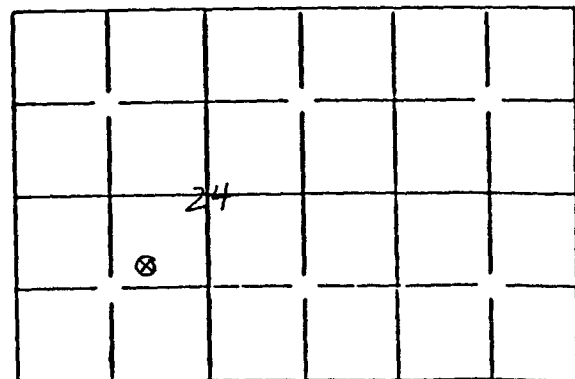
WATER QUALITY APPROVAL RECEIVED NA APPROVED/CONDITIONAL (Circle one)

WI-1 Description same as Application YES NO REMARKS _____

Diversion Point well: NE 1/4 SW 1/4 section 24 -

T18N-R13E

Land to be Irrigated NA



Well Log: Driller Knutson Well Drilling Licensed YES ✓ NO _____

Depth of Well 79.5 feet REMARKS _____

Type of Map aerial photo PREPARED BY Peggy Firied Reviewed and the Number

assigned on October 7, 1987 By Ron Duwall

Mail to: Water Rights Div.
DWNR, Foss Bldg.
Pierre, SD 57501
(605) 773-3352

No. 1418-1 Hydrologic Unit 10130306
Map No. same Basin Moreau River
Newspaper Lemmon Leader, Box 180 (Wed)

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

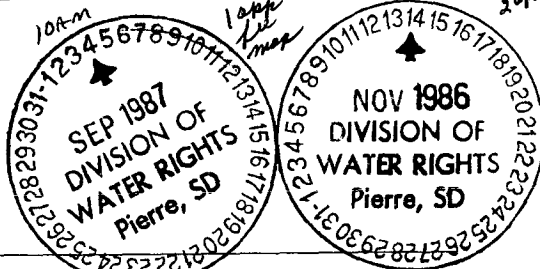
New ☒ Vested Right ☐ Future Use ☐ Change Use ☐

☐ Amend Permit No. _____ with old priority date retained

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

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

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



1. Name of Applicant City of Bison Phone No. 244 5906

Post Office Address Box 237 Bison, South Dakota State 57620
(Street, RR or Box) (City) Zip Code

2. Amount of water claimed (c.f.s.) 25 gpm 0.06 cfs

3. Source of water supply groundwater - Fox Hills Formation

4. Location of point of diversion Well #9 - Section 24, Twp 18, Range 13 NE 1/4 SW 1/4

County Perkins

5. Counties where water will be used Perkins

6. Annual period during which water is to be used January 1 - December 31

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

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 Perkins)^{ss}

I, Sylvia Chapman 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 Sylvia Chapman

Subscribed and sworn to before me this 1 day of Sept 1987

Bonnie Crow

Notary Public

WATER PERMIT

The Water Management Board hereby approves Water Permit Application No. 1418-1

City of Bison Box 237
(Applicant) (Street, RR or Box)
Bison SD 57620 With the following qualifications.
(City) (State) (Zip Code)

The well approved under this Permit is 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.

Date of first receipt of application November 14, 1986.

Date of return to applicant for correction, amendments or changes required December 15, 1986.

Date of receipt of corrected application Sept. 4, 1987. Approved December 2, 1987.

The Water Management Board approved this Water Permit No. 1418-1 authorizing the construction of the water use system and the placing of water to beneficial use as stated in the Application and as qualified in the Water Permit approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is September 4, 1987.
2. The equivalent of at least one-fifth of the specified work is ~~to be~~ completed ~~on or before~~ 19.
3. The whole of said work is ~~to be~~ completed ~~on or before~~ 19.
4. The limit of time for proof of beneficial use of water appropriated in accordance herewith is 19.
5. The water appropriated shall be used for the purpose of municipal use by the City of Bison.
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 unlawfully impaired by this appropriation.
7. The amount of the appropriation granted shall not exceed 0.06 cubic feet per second; neither shall it exceed the amount of water needed for the beneficial uses served and to which water is actually and beneficially applied for municipal use ~~on or before~~ 19. The water is to be used during the following described annual period: Jan 1 - Dec 31.

WATER MANAGEMENT BOARD

By: John Hubert
Chief Engineer

Division of Water Rights
 Dept. of Water and Natural Resources

FEB 9 1988

_____, 19____

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter _____ Depth 795 ft
- b) Casing Type steel Diameter 5 in. & 3" Thickness _____
- c) Screen Type perforated pipe Diameter 5" & 3" Thickness _____
- d) Gravel Pack Thickness _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth of Water (ground surface to water level) 450'
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others _____

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) Outlet Dimensions:
Pipe diameter _____

Spillway width _____

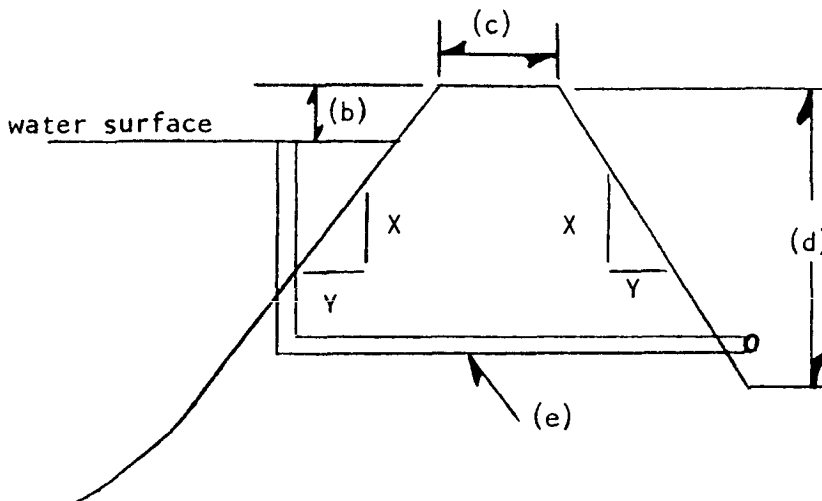
f) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Town of Bison
Signature of Applicant

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

Pierre, _____ September 4, 19⁸⁷

RECEIVED OF City of Bison, Box 237, Bison, SD 57620

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

Fee for Application for Permit No. <u>1418-1</u> to Appropriate Water, to construct works and to put water to beneficial use _____	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	50 00

By John Hatch
Chief Engineer JOHN HATCH 

NOT TO SCALE

116

See I-12

46105-180

Quaggs
ASCS
Employee

X

18-13
I-13

1869

Ralph

24

17.2

20.4

57

31.5

95.1

99.159

19.5

13.1

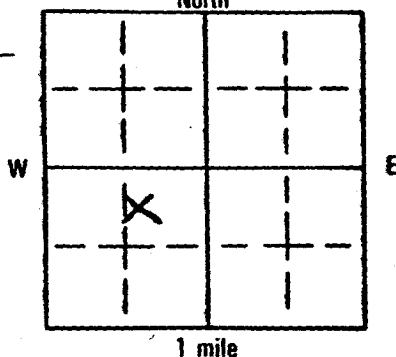
69.3

80.5

Appl. No. 1418-1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

Location $\frac{1}{4}$ Sec 24 Twp 53 Rg 13County
PenningtonPlease mark well
location with
an "X"Well Completion Date June 13, 1986

PROPOSED USE:

☐ Domestic ☒ test well ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

mud rotary

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>14.8</u> LB/FT	<u>5</u> IN	<u>0</u> FT	<u>415</u> FT	<u>8 3/4</u> IN
<u>14.8</u> LB/FT	<u>5</u> IN	<u>415</u> FT	<u>653</u> FT	<u>6 3/4</u> IN
<u>7.6</u> LB/FT	<u>3</u> IN	<u>650</u> FT	<u>795</u> FT	<u>5</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 415 FEETWhat is grouting material? neat cementIf cement, number of sacks? 97Describe grouting procedure pumped down pipe out side of casing to 415 ft.What was grout weight? 6 to 1 LB/GALSCREEN: ☒ Perforated pipe ☐ ManufacturedDiameter 5 3/8 IN Length _____ FEETMaterial steelSlot Size 3/16 Set From 420 Feet To 435 FeetSlot Size 3/16 Set From 580 Feet To 608 FeetSlot Size 3/16 Set From 734 Feet To 795 Feet

Other information _____

Was a packer or seal used? ☒ YES ☐ NOIf so, what material? rubberDescribe packer(s) and location? cup packers at 415 ft. - 576 ft. -K packer at 650 ft.Was well disinfected upon completion? ☒ YES ☐ NO

Explain _____

Bacteriological analysis ☒ YES ☐ NOLaboratory sent to Pickinson

Well Owners

Name Bison Town of BisonAddress Bison, S.D. 57620

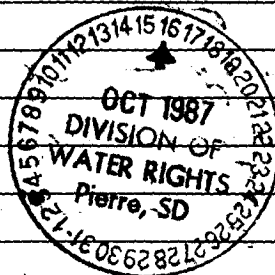
Well Log:

Depth

Formation

From

To

log on backSTATIC WATER LEVEL 300 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other, specify _____

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped☐ BailedDescribe: 5 h.p. sub.☐ Other

Pumping Level Below Land Surface

450 ft. After 18 Hrs. pumped 25 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:

This well was drilled under license # 112

And this report is true and accurate.

Drilling firm Knutson Well Drilling

Signature of License Representative:

Norman Knutson

Signature of Well Owner:

Date _____

0 - 30	sandy clay
30 - 31	rock
31 - 44	sandy clay
44 - 46	coal
46 - 111	clay
111 - 112	rock
112 - 169	clay
169 - 172	coal
172 - 247	clay
247 - 275	sandy + sandy clay w/clay lens
275 - 381	clay + sandy clay w/rock lens
381 - 420	clay + shale
420 - 435	sandy + sandy clay
435 - 580	clay + shale
580 - 608	sandy + sandy clay
608 - 731	clay + shale
731 - 795	sandy clay w/sand lens (Fox Hills)





Department of Water & Natural Resources

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

December 15, 1986

Bonnie Crow, Clerk
City of Bison
Box 237
Bison SD 57620

Dear Ms. Crow:

This letter is in response to your water permit application for the City of Bison received on November 14, 1986. The following information is needed before the permit application can be processed:

1. The amount of water claimed (maximum gallons per minute) needs to be specified in Question No. 2 on the enclosed Form 2. The well log submitted with this application mentions that the well was test pumped at 25 gpm. However, the applicant needs to complete Question No. 2.
2. A map showing the location of the well also needs to be submitted. Enclosed is a map of the area described by the legal location on the permit application. Mark the well location with an "X" and have the map signed according to the enclosed instruction sheet.
3. An application fee also needs to be submitted with the permit application. The fee is \$50.00 for 45 gpm or less. The fee structure is also on the enclosed instruction sheet.
4. The enclosed permit applications must also be notarized to be a legal permit application.

Please complete and return the enclosed forms and map with the application fee. The permit application can be processed only when the application is complete. Contact us if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "Ron Duvall".

RON DUVALL
Natural Resources Engineer

RD:ks



Department of Water & Natural Resources

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

July 24, 1987

Bonnie Crow, Clerk
City of Bison
Box 237
Bison, SD 57620

Dear Ms. Crow:

I am contacting you in reference to the water permit application for the City of Bison received in our office November 14, 1986. You were notified December 15, 1986 additional information was needed to complete your application. To date, we have not received the information from you.

To recap our letter of December 15, the following information is required to complete the application:

1. The amount of water (maximum gallons per minute) needs to be specified.
2. A map showing the location of the well needs to be submitted. A map was sent to you for use in plotting the location, if you do not have it anymore, one can be forwarded to you. The map also needs to be signed.
3. An application fee of \$50.00 (if amount of water is less than 45 gallons per minute) A fee schedule is enclosed.
4. The application forms you submitted were returned to you for signature by a notary.

With receipt of the above material in our office, the application would be complete and we could begin processing the application. If you need assistance or have any questions, please contact us.

Sincerely,

A handwritten signature in cursive script that reads "Genny McMATH".

GENNY MCMATH
Natural Resources Analyst

WATER RIGHTS DIVISION
(605) 773-3352

August 26, 1987

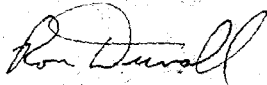
Sylvia Chapman, Clerk
City of Bison
Box 237
Bison, South Dakota 57620

Dear Ms. Chapman:

This letter is in response to our phone conversation on August 25, 1987.
Enclosed are retyped permit applications and a copy of the December 15,
1986 letter explaining what information is needed to complete the applications.

Please contact us if you have any questions.

Sincerely,



Ron Duvall
Natural Resources Engineer

RD:ms
Enc.

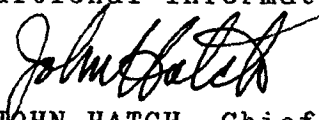
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 1418-1, City of Bison SD

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. 1418-1, City of Bison, Box 237, Bison SD.

The Chief Engineer is recommending APPROVAL of Application No. 1418-1 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 qualification:

The well approved under this Permit are 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.

See the attached report for additional information.


JOHN HATCH, Chief Engineer
October 21, 1987

REPORT ON APPLICATION NO. 1418-1
CITY OF BISON
October 14, 1987

This application proposes to appropriate 0.06 cfs from one well 795 feet deep located in the NE 1/4 SW 1/4 of Section 24, T18N, R13E. The water is used for municipal purposes by the City of Bison.

Aquifer - Fox Hills Formation

The Fox Hills Formation is an Upper Cretaceous aged sandstone and shale. The driller's log accompanying the application indicates the well had a static water level 300 feet below land surface and produced 25 gpm with 150 feet of drawdown. The aquifer is under artesian conditions and underlies 1.83 million acres and contains 13.73 million acre-feet of recoverable water in Perkins County (Allen, et al., 1984). The Fox Hills is approximately 350 feet thick in this area (Steece, 1981). Very little is known about historical water levels in this area. Steece indicates lowering has occurred in the area of the wells but this is not surprising because the wells are low yield. The Division of Water Rights does not measure any observation wells in this area.

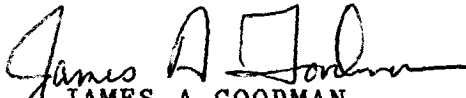
Review of Existing Water Permits

There are no other water permits in this area except for the other Town of Bison wells, Permit Nos. 624-1, 1097-1, 1145-1, 1309-1, 1310-1 (Water Rights Division, 1987). Apparently, Bison has had a considerable amount of difficulty developing wells in the Fox Hills judging from the number of wells and water each is licensed for. Because the pumping rates are so small, interference between wells should not be significant.

Conclusions

1. Water is available from the Fox Hills Formation.
2. The Fox Hills is under artesian conditions and fluctuations in water levels will occur during pumping; however, the pumping rates are so small well interference should be minimal.
3. Apparently, there is no other supply of water either ground water or surface water which is adequate in terms of quality or quantity in this area.

4. The new well (#9), this application will produce 25 gpm with 150 feet of drawdown which is considered a very low yield but is comparable to the other city wells.
5. Limited water level records are available for this area.


JAMES A GOODMAN
Hydrologist

Bibliography

Allen, J.C., D.L. Iles, A.K. Petres, 1984, Analysis of Groundwater and Streamflow Data Western Dakotas Region of South Dakota, for U.S. Army Corps of Engineers, DWRN, SDGS, Vermillion SD 57069.

Steece, F.V., 1981, Ground-Water Study for the City of Bison, South Dakota, Open File Report No. 5-UR, DWRN, SDGS, Vermillion SD 57069.

Water Rights, 1987, Permit Files for Nos. 624-1, 1097-1, 1145-1, 1309-1, 1310-1, DWRN, Division of Water Rights, Joe Foss Building, Pierre SD 57501.



Department of Water & Natural Resources

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

October 28, 1987

Lenmon Leader
Box 180
Lenmon, South Dakota 57638

Dear Sir:

Enclosed is a Notice of Hearing on Application No. 1418-1. Please publish this notice once each week for two consecutive weeks in your paper. The first publication should be on or before November 4, 1987.

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 Bison, Box 237, Bison, SD.

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
No. _____

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

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



Department of Water & Natural Resources

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

October 29, 1987

Bison Courier
Box 429
Bison, South Dakota 57620

Dear Sir:

Enclosed is a Notice of Hearing on Application No. 1418-1. Please publish this notice once each week for two consecutive weeks in your paper. The first publication should be on or before November 4, 1987.

~~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 Bison, Box 237, Bison, SD 57620.

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.

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Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE
No. _____

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

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



Department of Water & Natural Resources

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

Water Rights Division
(605) 773-3352

October 28, 1987

NOTE:

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

City of Bison
Box 237
Bison, South Dakota 57620

Dear Sir:

Your Application No. 1418-1 for a permit to appropriate water for
municipal use, has been examined and found to
comply with the South Dakota Water Laws and applicable rules. A notice of
your intent to appropriate water has been sent to the Publisher of the

Lemmon Leader

printed at Lemmon

South Dakota. For your information, a copy of this notice, the recommendation
of the Chief Engineer and a report on the application are enclosed. Please
review this notice prior to publication and notify this office, if you have
any corrections or questions.

BE SURE TO CONTACT THE ABOVE NEWSPAPER IMMEDIATELY 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 at least 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

enclosures

No. 1418-1

Instruction to Newspaper - Publish first publication of the following Notice on or before **November 4, 1987** with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 1418-1 to Appropriate Water
~~and/or to Amend Water Permit or Water Right No. _____~~

Notice is hereby given that the City of Bison whose mailing address is Box 237, Bison, South Dakota has made an application for a permit

to appropriate 0.06 cubic feet of water per second from 1 well (Fox Hills Formation) 795 feet deep located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 24-T18N-R13E. Water is used for municipal purposes by the City of Bison.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends

APPROVAL of Application No. 1418-1 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Howard Johnson, Roosevelt & Jefferson Rooms, 2211 LaCrosse, Rapid City, SD, Dec. 2 19 87 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and the Chief Engineer by November 20, 1987. The petition may be informal, but it must include a statement describing the petitioners interest in the application, the reasons for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of 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; ~~(ground)~~ 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; ~~(future use)~~ 46-5-38 thru 46-5-40; ~~(transfer lands)~~ 46-5-30.4, 46-5-33 thru 46-5-35; ~~(10,000 AFA)~~ 46-5-20.1, 46-5-8.1; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; ~~(future use)~~ 74:02:01:24 thru 74:02:01:25; ~~(10,000 AFA)~~ 74:02:01:15:02 thru 74:02:01:15:05.

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWR, Joe Foss Bldg, Pierre SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by November 20, 1987.

**NOTICE OF HEARING
on Application No. 1418-1
to Appropriate Water**

Notice is hereby given that the City of Bison whose mailing address is Box 237, Bison, South Dakota has made an application for a permit to appropriate 0.06 cubic feet of water per second from 1 well (Fox Hills Formation) 795 feet deep located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 24-T18N-R13E. Water is used for municipal purposes by the City of Bison.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends Approval of Application No. 1418-1 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Howard Johnson, Roosevelt & Jefferson Rooms, 2211 LaCrosse, Rapid City, SD, Dec. 2, 1987 at 10:00 a.m.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and the Chief Engineer by November 20, 1987. The petition may be informal, but it must include a statement describing the petitioners interest in the application,

the reasons for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of 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;

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWRN, Joe Foss Bldg, Pierre SD (605) 773-3352 for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by November 20, 1987.



THE BISON COURIER

Affidavit of Publication

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STATE OF SOUTH DAKOTA)

County of Perkins

Paulette D. Ellison

..... of said State and County being duly sworn on her oath says: That she is the SECRETARY of THE BISON COURIER, a weekly newspaper of general circulation printed and published in the City of Bison, County of Perkins, State of South Dakota.

Notice of Hearing
on Application No. 1418-1
to Appropriate Water

..... printed copy of which is hereunto annexed, was published in the regular and entire issue of said newspaper during the period and time of publication, and that notice was published in the newspaper proper, and not in a supplement.

once a week for.....²..... successive weeks, to-wit:

Wednesday, 11-4-87

Wednesday, 11-11-87

Wednesday,19.....

Wednesday,19.....

Wednesday,19.....

Wednesday,19.....

FEE\$ 40.72

..... P.D. Ellison..... SECRETARY

Sworn and subscribed to before me this 20 day of November A.D., 1987.

Bonnie Cron
Notary Public

Comm. Exp-5-23-93

ce Advertising

NOTICE OF HEARING on Application No. 1418-1 to Appropriate Water

Notice is hereby given that the City of Bison whose mailing address is Box 237, Bison, South Dakota has made an application for a permit to appropriate 0.06 cubic feet of water per second from 1 well (Fox Hills Formation) 795 feet deep located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 24-T18N-R13E. Water is used for municipal purposes by the City of Bison.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends Approval of Application No. 1418-1 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at Howard Johnson, Roosevelt & Jefferson Rooms, 2211 LaCrosse, Rapid City, SD, Dec. 2, 1987 at 10:00 a.m.

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Department of Water & Natural Resources

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

Water Rights Division
605 773-3352

FEB 9 1988

City of Bison
Box 237
Bison, South Dakota 57620

Dear Sir:

Enclosed is your Water Permit No. 1418-1 as approved by the Water Management Board authorizing the water diversion system and apply the water to beneficial use, not exceeding the limits as specified in the Water Permit.

We will schedule an inspection so that the Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,

A handwritten signature in cursive script, appearing to read "John Hatch".

JOHN HATCH, Chief Engineer
Water Rights Division

JH: MS

enclosure

Permit No. 1418-1
Grand River - Water District

Contact Person & Address: **Doug Luton, Superintendent, Box 910, Bison SD**

Related Permits: **1145-1**

Report Of Examination Of Works

On, **July 22, 2008**, I made a thorough examination of the water use system constructed by **the City of Bison** of **Box 910, Bison SD** holder of Permit No.**1145-1** bearing the priority of **November 15, 1977** authorizing the diversion of **0.12** cu. ft. per second and Permit No.**1418-1** bearing the priority of **September 4, 1987** authorizing the diversion of **0.06** cu. ft. per second of the waters of **ground water (Fox Hills)** for **municipal** purposes, in **Perkins** County.

The system is in the following condition **good**. The point of diversion is located **in the SW ¼ Sec 24 T18N-R13E** with a longitude of **-102.47093** and a latitude of **45.50598** as determined using **GPS**. The works are capable of diverting and conveying to the place of use **0.06** cu. ft. per second of water with a priority date of **November 15, 1977** which is to be used for **emergency stand by municipal use**. Water has been put to beneficial and the license should be issued for **0.06** cfs.

Review of Permit Qualifications And Regulations:

- 1) Special qualifications to permit being abided by **yes**
- 2) All structures, wells and lands on map **yes**
- 3) Exceptions to compliance are: **none**

Report On the Specifics of the System

Diversion Point Information:

Well Information:

- | | |
|--|--|
| 1) Well Drilling Firm: <u>Knutson</u> | 2) No. of Wells <u>1</u> |
| 3) Depth(s) <u>795</u> feet | 4) Well log is available <u>yes</u> |

Casing:

- | | |
|------------------------------------|----------------------------------|
| 1) Diameter <u>5</u> inches | 2) Length <u>653</u> feet |
| 3) Diameter <u>3</u> inches | 2) Length <u>145</u> feet |
| 3) Type <u>steel</u> | |

Screen:

- | | |
|---|----------------------------------|
| 1) Type <u>perforated steel casing</u> | 2) Length <u>375</u> feet |
| 3) Static water level <u>300</u> feet | |

Pump:

- 1) Make **Grundfos**
- 2) Model **?**
- 3) Size **3 in**
- 4) Capacity **25** GPM

Motor:

- 1) Make **Grundfos**
- 2) Model No. **?**
- 3) Horsepower rating **5** hp

DISTRIBUTION LINES OR CANALS:

- 1) Type **municipal distribution system**

1) **Comments : The city of Bison is hooked up to the Perkins County Rural Water System. This well is being maintained for emergency stand-by municipal use.**



Mark D. Rath
Natural Resources Engineering Specialist
DENR, Water Rights Program

7-24-08

Date

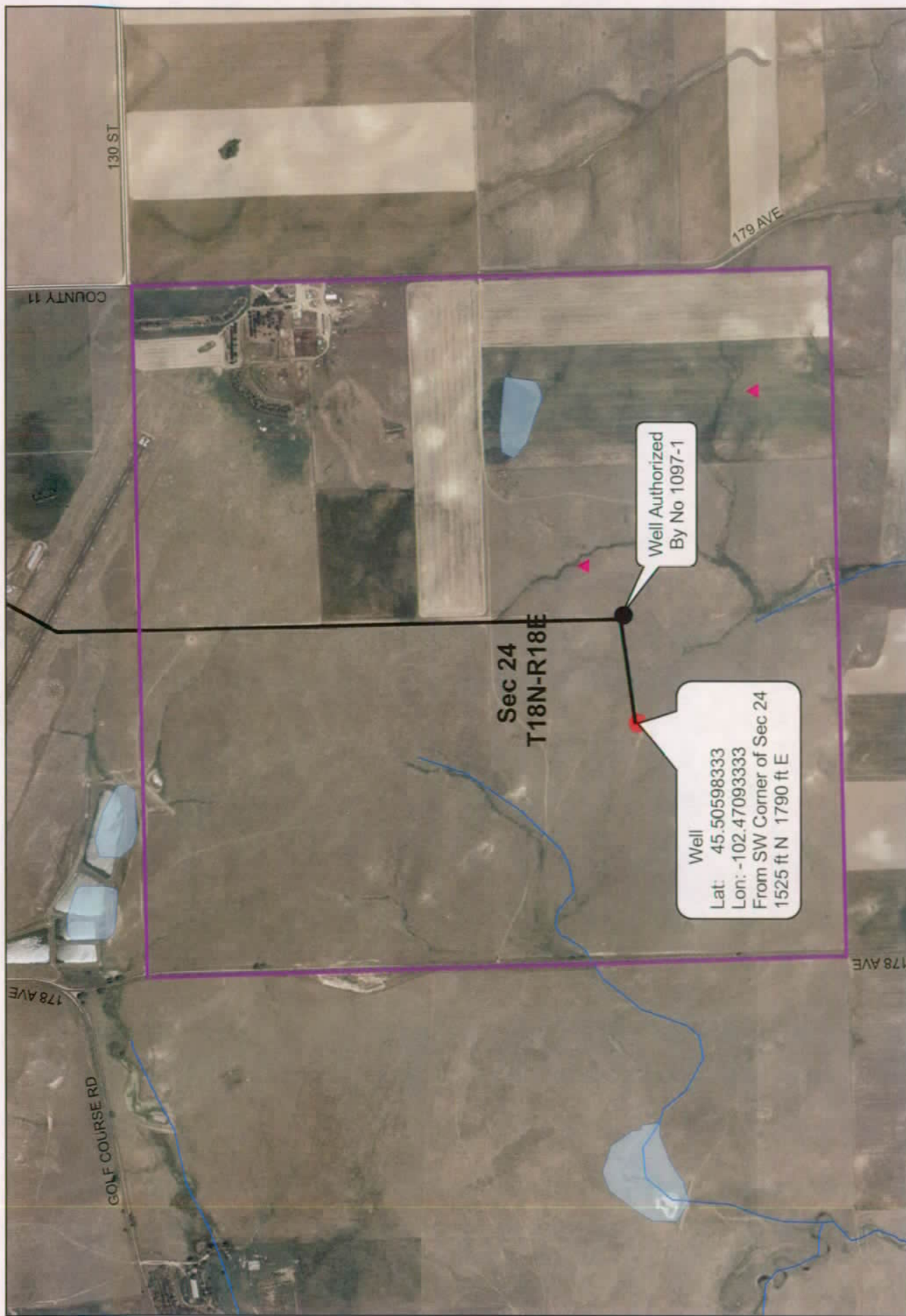
10-85

Date _____

0 - 30	sandy clay	Dec 24 - 18N - 13E.
30 - 31	rock	
31 - 44	sandy clay	
44 - 46	coal	
46 - 111	clay	
111 - 112	rock	
112 - 169	clay	
169 - 172	coal	
172 - 247	clay	
247 - 275	sandy + sandy clay w/clay lens	
275 - 381	clay + sandy clay w/rock lens	
381 - 420	clay + shale	
420 - 435	sandy + sandy clay	
435 - 580	clay + shale	
580 - 608	sandy + sandy clay	
608 - 731	clay + shale	
731 - 795	sandy clay w/sand lens	1 Fox Hills



No. 1418-1



Mark D Rath 7-25-05

Mark D Rath
Natural Resources Engineering Specialist
SD Dept of Environment and Natural Resources



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

July 28, 2008

1418-1

Beth Hulm, Finance Officer
City of Bison
PO Box 910
Bison SD 57620

Dear Ms. Hulm:

On July 22, 2008 the investigation of the water use system, including the extent of application of water to beneficial use, as developed under Water Permit Nos. 1145-1 and 1418-1, was completed by Mark Rath, a staff engineer with our program. Your final water right document, the water license, can now be issued.

Water License No. 1418-1 will be issued incorporating the applicable portions of Water Permit No. 1145-1. The license will reflect that the well constructed under these permits is maintained for emergency standby use and that the city is hooked up to the Perkins County Rural Water System.

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 me.

Sincerely,

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

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 8-14, 20 08

RECEIVED OF Town of Bison, PO Box 910, Bison SD

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	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>1418-1</u>		
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____	50.00	
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	50.00

No.

03718

By

Garland Erbale
Chief Engineer / KS



1418-1

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

OCT 30 2003

1418-1
1145-1

Beth Hulm, Finance Officer
City of Bison
PO Box 910
Bison SD 57620

Dear Ms. Hulm:

Enclosed is Water License No. 1418-1. This is the final water right document completing the process of obtaining a Water Right. Enclosed is Receipt No. 03718 in the amount of \$50.00 which you paid for the investigation and issuance of the Water License.

During the licensing process, the applicable portions of Water Permit No. 1145-1 were incorporated into Water License No. 1418-1. The priority date established by the earlier permit was retained. A map prepared by the staff engineer who conducted the investigation is also enclosed.

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. 1418-1, 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,

A handwritten signature in black ink, reading "Garland Erbele".

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 1418-1

(1) The City of Bison, PO Box 910, Bison SD 57620 made Application No. 1418-1, November 14, 1986 for a water permit to divert 0.06 cubic feet of water per second (cfs) from ground water (Fox Hills Formation), Perkins County, South Dakota for municipal purposes. Permit No. 1418-1, with a priority date of September 4, 1987 was approved December 2, 1987 and issued to the applicant for diversion of water with construction of the water supply system and the application of water to beneficial use completed.

Water Permit No. 1145-1 for the City of Bison also authorizes diversion of 0.06 cfs from two wells in the same area as authorized by Water Permit No. 1418-1. No documentation exists as to whether the well that was constructed falls under Water Permit No. 1145-1 or Water Permit No. 1418-1. Since both permits were for the same water source (Fox Hills Formation), the applicable portions of No. 1145-1 have been incorporated into Water License No. 1418-1. A priority date of November 15, 1977, as established by Water Permit No. 1145-1, is retained.

(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 0.06 cubic feet of water per second for beneficial use. The location of the diversion point is 1,525 feet north and 1,790 feet E of the SW corner of Section 24, T18N, R18E (NE ¼ SW ¼).

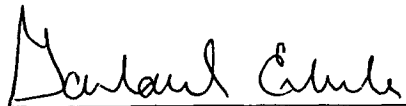
The City of Bison is hooked to the Perkins County Rural Water System. The well is maintained for emergency stand-by use by the city.

(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 Bison, PO Box 910, Bison SD 57620-0910 the holder and/or owner of Incorporated Water Right No. 1418-1 is issued a license to appropriate water, the right to use 0.06 cubic feet of water per second from ground water (one well – Fox Hills Formation) with a priority date of November 15, 1977 from the location specified in (2) of this license for municipal use.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Incorporated Water Right No. 1418-1 and subject to the following qualification:

- The well authorized by this Water Right is located near domestic wells and other wells which may obtain water from the same aquifer. The well owner shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells.



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

OCT 30 2008

date

