

Considered: _____

WATER PERMIT NO. 1882-2

MAP No. 1882-2

Name of Applicant Roland N or Donna M March

Post Office Address St Rt Box 137, Hot Springs 57747

Amount of Water Claimed 0.80 Total Acres 59.00

Source of Water Supply Cheyenne River

Water to be used for IRR County FR

About 4 miles southeast of Hot Springs.

PROOF OF PUBLICATION: Received 1st 8-23-84 Not Received _____

APPLICATION: Approved 9-26-84 Subject to _____

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

PRIORITY Date Received 5/29/84 Fee 150.00 Remarks _____

5/29/84 pumpwater to ditch carrying water to flood irrigate

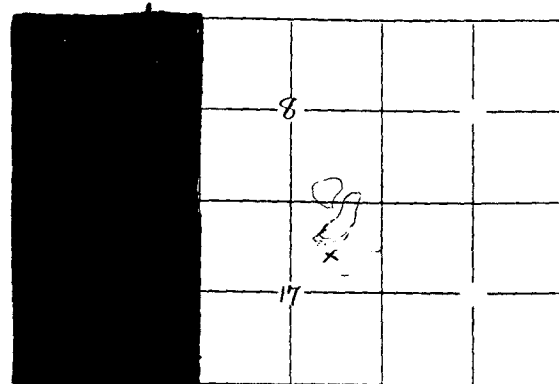
Corrected Application Received _____ Period of Annual Use 5/1 to 9/31

WATER QUALITY APPROVAL RECEIVED 7/13/84 ~~APPROVED~~/CONDITIONAL (~~XXXXXX~~)

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

Diversion Point SW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 17-8S-6E

Land to be Irrigated S $\frac{1}{2}$ SE $\frac{1}{4}$, Section 8 and
N $\frac{1}{2}$ NE $\frac{1}{4}$, Section 17 all in T8S R6E



Well Log: Driller _____ Licensed YES _____ NO _____

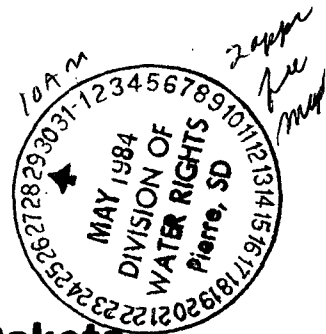
Depth of Well _____ REMARKS _____

Type of Map aerial PREPARED BY ASCS Reviewed and the Number

assigned on 7/16/84 By Betty Westlund

Betty Westlund NRA III

cc Nelson/Hanten

No. 1882-2Map No. 1882-2 Water Division No. 2 UC DistrictAbove for Office Use 10120109

APPLICATION FOR PERMIT To Appropriate Water within the State of South Dakota

Check one of the following:

New X Vested Right _____ Future Use _____

Change in Diversion _____ Additional Diversion _____

Change in Acreage _____ Additional Acreage _____

1. Name of Applicant Roland N or Donna M March Phone No. 605-745-4480
 Post Office Address Star Route Box 137, Hot Springs State S.D. 57747
 (Street, RR, or Box) (Town) (Zip Code)
 If a corporation show date and place of incorporation _____

2. Method of accomplishing work (contract, employment of others, or by direct labor) Direct Labor3. Name of diversion work Supply ditch with borders and dike system.4. Amount of water claimed (cubic feet per second) 0.8 CFS; 118 Ac ft per year5. Source of water supply Cheyenne River6. Location of point of diversion Sect 17 Township 85 Range 6E102 rods West and 125 rods South of the North East corner(AC) 25 Sec 17 T85, R6E County Fall River7. Annual period or periods during which water is to be used May thru Sept8. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) irrigation9. For irrigation use, Total number of acres to be irrigated 59

List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.
<u>SW¹SE⁴-8-T85-R6E</u>	<u>X13 13</u>
<u>SE¹SE⁴-8-T85-R6E</u>	<u>X2 2.3</u>
<u>NW⁴NE⁴-17-T85-R6E</u>	<u>X13 13.2</u>
<u>NE⁴NE⁴-17-T85-R6E</u>	<u>X13 13.2</u>

Land Description	No. Acres Irr.
<u>SE¹NE⁴ 17-T85-R6E</u>	<u>5.2</u>
<u>SW¹NE⁴ 17-T85-R6E</u>	<u>12.0</u>
	<u>58.9 AC</u>

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 2 5 years. Additional time required to complete application of water to the proposed beneficial use 3 4 years^{BN}11. Choice of county newspaper for publication of Notice of Intent to Appropriate Water Hot Springs Star

12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.

Ample depth of water in river at proposed pumping site.

B. Works proposed to transport water to place of use.

Centrifugal pump to elevate water to supply channel.

C. Works proposed to apply water to beneficial use.

Use of borders on slopes less than 2 percent and dikes to hold and spread excess from borders and runoff.Estimated Total Cost \$ 5,000

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

STATE OF SOUTH DAKOTA)

County of Fall River)ss.I, Roland N March 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 Roland N MarchSubscribed and sworn to before me this 26 day of May, 1984

Notary Public (or other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Management Board hereby approves Water Right Application No. 1882-2

Roland N. or Donna M. March

(Applicant)

ST. RT. Box 137

Hot Springs

(Post Office Address)

South Dakota

(State)

With the following qualifications.

Low flows as needed for downstream domestic use, including livestock watering and prior water rights must be by-passed.

This permit is approved subject to the irrigation water use questionnaire being submitted each year.

Date of first receipt of application May 29, 1984

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

Date of receipt of corrected application —, 19—

Approved September 26, 1984, Recorded in Book — Page —

WATER RIGHT PERMIT NO. 1882-2

The Water Management Board hereby grants and issues this Water Right Permit No. 1882-2 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as qualified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is May 29, 1984
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before March 26, 1987
3. The whole of said work is to be completed on or before September 26, 1989
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is September 26, 1993
5. The water appropriated shall be used for the purpose of irrigation

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 0.80 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 uses served, and if for irrigation purposes said appropriation must be limited to not more than 2 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied

for irrigation on or before September 26, 1993; said water to be used during the following described

annual period: May 1 to September 31

Witness my hand this 23rd day of October, 1984

THE WATER MANAGEMENT BOARD

By: John Hatch
Chief Engineer, Water Rights

Certificate of Construction Issued —, 19—

Water License Issued —, 19—

CONSERVATION COMMISSION
WI#1
9/81

SOIL/WATER COMPATIBILITY PERMIT APPLICATION FORM

STATE CONSERVATION COMMISSION

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE

Office Use Only

4100



OWNERS NAME: Roland N or Donna March OWNERS ADDRESS: Star Route Box 137
Hot Springs, S.D. 57747
COUNTY LAND LOCATED IN: Fall River PHONE: 605-745-4480
TENANT'S NAME AND ADDRESS: same

In accordance with State Law SDCL 46-5-6.5, if a water permit is granted with a conditional Soil/Water Compatibility permit, A COPY OF SUCH CONDITIONAL SOIL/WATER COMPATIBILITY PERMIT MUST BE FILED WITH THE COUNTY REGISTER OF DEEDS. THIS ACTION MUST BE TAKEN BY THE HOLDER OF A WATER PERMIT WITHIN 6 MONTHS OF RECEIPT OF SUCH WATER PERMIT.

LEGAL DESCRIPTION: (Show Legal Description to Nearest 10 Acres)

1. WELL LOCATION

2. SURFACE WATER SOURCE AND DIVERSION LOCATION: 102 rods W and 125 rods S. of the NE corner of Sec 17 T85-R6E

Legal Description	Acres	Legal Description	Acres
T85-R6E Sect 17		Sect 8	
NW 1/4 NE 1/4	5	SW 1/4 SE 1/4	15
SW 1/4 NE 1/4 NE 1/4 + SE 1/4 NE 1/4	36	SE 1/4 SE 1/4	3
		Caveage:	(59)

3. SHOW ANY PORTION OF LAND THAT PRESENTLY HOLDS AN IRRIGATION PERMIT: YEAR OBTAINED

LEGAL DESCRIPTION:

IN WHAT NAME:

4. LOCATION OF AREA TO BE IRRIGATED NOTE: SOILS INFORMATION FOR THIS AREA MUST ACCOMPANY THE APPLICATION. (See instruction sheet)

5. TYPE OF IRRIGATION: GRAVITY: X TOWLINE: CENTER PIVOT: GUN: X (Specify) Pumped to ditch carrying water to Flood irrigate

6. CROPS TO BE IRRIGATED: Alfalfa & Corn

WATER QUALITY: (TO BE COMPLETED BY SDSU WATER QUALITY LABORATORY)

7. WATER SAMPLE NUMBER: Cheyenne
8. SALINITY (EC X 10⁶):
9. SODIUM (SAR):
10. ADJUSTED (SAR):

I hereby certify that I personally obtained or that I personally observed that taking of a sample of the water to be used in irrigating the above-described land. I also hereby certify that the required procedures for the taking of the sample (see instruction sheet) were followed, and that the sample was taken at _____ a.m./p.m., on _____, 19____, at the following location: Cheyenne River water taken from same source by (individual who took sample if other than applicant). I also hereby certify that the water sample taken has NOT been adulterated or tampered with in any manner, and is TRULY REPRESENTATIVE of the water which will be used in irrigating the above-described land.
as the Angostura Irrigation Project

I understand that the Division of Conservation or agents thereof may obtain another water sample for the purpose of validating the water sample analysis taken at the time of application (SDCL 46-5-6.4).

SUBSCRIBED AND SWORN BEFORE ME THIS

26 DAY OF May, 19 84.

Ruth E. Schott
(NOTARY PUBLIC)

Roland N March
APPLICANT'S SIGNATURE

Gar M. Fyfe
Director, Division of Conservation

IMPORTANT

Action by the Department of Agriculture or the State Conservation Commission is not the final action on any application. In all cases a WATER RIGHT must be obtained from the Board of Water Management, Foss Building, Pierre.

APPROVED

DISAPPROVED

X CONDITIONALLY APPROVED

SOIL/WATER COMPATIBILITY PERMIT APPLICATION FORM

STATE CONSERVATION COMMISSION

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE

Office Use Only

4100

OWNERS NAME: Roland N or Donna March OWNERS ADDRESS: Star Route Box 137
Hot Springs, S.D. 57747
COUNTY LAND LOCATED IN: Fall River PHONE: 605-745-4480
TENANT'S NAME AND ADDRESS: same

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LEGAL DESCRIPTION: (Show Legal Description to Nearest 10 Acres)

1. WELL LOCATION

2. SURFACE WATER SOURCE AND DIVERSION LOCATION: 102 rods W and 125 rods S of the NE corner of Sec 17 T8S-R6E

Legal Description	Acres	Legal Description	Acres
<u>T8S-R6E Sect 17</u>		<u>Sect 8</u>	
<u>NW 1/4 NE 1/4</u>	<u>13.2</u>	<u>SW 1/4 SE 1/4</u>	<u>13</u>
<u>NE 1/4 NE 1/4</u>	<u>13.2</u>	<u>SE 1/4 SE 1/4</u>	<u>2.3</u>
<u>SE 1/4 NE 1/4</u>	<u>5.2</u>	<u>Acres =</u>	<u>59</u>
<u>SW 1/4 NE 1/4</u>	<u>12.0</u>		

3. SHOW ANY PORTION OF LAND THAT PRESENTLY HOLDS AN IRRIGATION PERMIT: YEAR OBTAINED

LEGAL DESCRIPTION:

IN WHAT NAME:

4. LOCATION OF AREA TO BE IRRIGATED NOTE: **SOILS INFORMATION FOR THIS AREA MUST ACCOMPANY THE APPLICATION. (See instruction sheet)**

5. TYPE OF IRRIGATION: GRAVITY: X TOWLINE: _____ CENTER PIVOT: _____ GUN: X OTHER: Pumped to

6. CROPS TO BE IRRIGATED: Alfalfa & Corn ditch carrying water to Flood irrigate

WATER QUALITY: (TO BE COMPLETED BY SDSU WATER QUALITY LABORATORY)

7. WATER SAMPLE NUMBER: _____

8. SALINITY (EC X 10⁶): _____

9. SODIUM (SAR): _____

10. ADJUSTED (SAR): _____

I hereby certify that I personally obtained or that I personally observed that taking of a sample of the water to be used in irrigating the above-described land. I also hereby certify that the required procedures for the taking of the sample (see instruction sheet) were followed, and that the sample was taken at _____ a.m./p.m., on _____, 19____, at the following location: Cheyenne River water taken from same source by (individual who took sample if other than applicant). I also hereby certify that the water sample taken has NOT been adulterated or tampered with in any manner, and is TRULY REPRESENTATIVE of the water which will be used in irrigating the above-described land.

as the Angostura Irrigation Project

I understand that the Division of Conservation or agents thereof may obtain another water sample for the purpose of validating the water sample analysis taken at the time of application (SDCL 46-5-6.4).

SUBSCRIBED AND SWORN BEFORE ME THIS

26 DAY OF May, 19 84
Ruth E. Schmitt
(NOTARY PUBLIC)

Roland N March
APPLICANT'S SIGNATURE

Garth M. Fjell
Director, Division of Conservation

IMPORTANT

Action by the Department of Agriculture or the State Conservation Commission is not the final action on any application. In all cases a WATER RIGHT must be obtained from the Board of Water Management, Foss Building, Pierre.

____ APPROVED
____ DISAPPROVED
X CONDITIONALLY APPROVED

Conditional Approval

#4100

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE
DIVISION OF CONSERVATION

NAME OF APPLICANT: Rolland March

LEGAL DESCRIPTION: N $\frac{1}{2}$ NE $\frac{1}{4}$ 17-85-6 and S $\frac{1}{2}$ SE $\frac{1}{4}$ 8-85-6 = 59 acres

SOIL RESTRICTIONS:

THE SOIL(S) LISTED BELOW CANNOT BE IRRIGATED:

THE SOILS(S) LISTED BELOW CAN BE IRRIGATED
WITH THE FOLLOWING RESTRICTIONS:

RECOMMENDED MANAGEMENT:

We recommend the use of conservation tillage to reduce runoff and control soil blowing.

We also recommend that when irrigating that water in addition to the plants needs be applied for the leaching of salts. By following this procedure salt may move deeper in the soil as well as maximizing the leaching effects of precipitation.

We feel we should advise you that the water quality of the Cheyenne River is variable, as are most surface sources. You may find it advantageous to monitor the water quality in developing your water management.

Signature
7-12-84

DATE



SOILS INFORMATION

*COPY of one sent
to SCC 5/29/84*

Residents of counties with published or up-to-date soil surveys shall contact their local Conservation District for a copy of the soils map for the area to be irrigated and the narrative explanation of the map.

Residents of counties with no up-to-date soil survey information shall contact the Soil Conservation Service or their local Conservation District to obtain the best information available. If soil survey information is not available, the applicant is requested to obtain this information from a private consultant or professional soil classifier.

NOTE: 1. If at all possible, provide information concerning subsoil physical conditions.

2. Indicate non-irrigated areas and approximate acres on map. (Farmstead, shelterbelts, etc).

MAP

PLEASE READ LEGAL DESCRIPTION #1 THROUGH #3 ON THE WI #1 FORM BEFORE COMPLETING THIS SECTION.

*Water from this source should be
the very same as used by the
Angostura Irrigation Project.*



PLEASE USE THIS SHEET FOR NARRATIVE OR ATTACH SEPARATE SHEET

NOA = Norka Silt Loam

0-2% slope

Norka soils have a silt loam

surface and a silty clay loam subsoil.

Available water capacity is high,

and permeability is moderate.

NOB = Norka Silt Loam

2-6% slope

Mv - Munjor fine sandy loam - 0 - 2% slopes

Moderately rapid permeability, moderate or high available water capacity.

I N S T R U C T I O N S H E E T

WATER QUALITY

GROUND WATER:

The ground water applicant must send a sample of the ground water to be used for irrigation to the Water Quality Laboratory, Water Resources Research Institute, South Dakota State University, Brookings, South Dakota 57007. If the water analysis has been conducted in a laboratory certified by the Environmental Protection Agency, a copy must be sent to the above address. No other water analyses will be considered valid.

SURFACE WATER:

It is suggested that, whenever possible, an irrigator collect a sample of the surface water to be used for irrigation so that he may be fully aware of any problems he may encounter. From this point on, the application will be handled in the same manner as a ground water application and shall be forwarded to the Water Quality Laboratory at S.D.S.U., and in turn forwarded to the Department of Agriculture.

Prior to taking a water sample, please note that it may be to your benefit to pump the well or test hole for up to 6 hours. The reason for this is that it is not uncommon for water quality to improve with extended pumping and the better your water quality, the better the chances for obtaining approval of soil/water compatibility.

WATER SAMPLING TECHNIQUE

When water samples are brought or sent in to the laboratory, the analytical results obtained from the sample will be applied to the entire supply. Therefore, the supply can be only as good as the sample.

Based on previous water quality data by the Department of Natural Resources, individual input, and other sources, the water quality of a given aquifer usually remains fairly constant. Consequently, if given a geographic location and depth, an approximation of the water quality can be made. However, the information available at the present time pertains to very few areas and represents only a fraction of the total underground water picture. The areas with the most information are the areas with the most extensive ground water development. Thus, the wells and water samples provided by irrigators are excellent sources of water quality data for aquifers.

For these reasons, it is imperative that representative water samples be obtained.

Here are a few rules to follow in sampling procedure.

1. Use a pint or quart jar which can be cleaned with a brush or dish cloth.
2. Do not use metal containers.
3. Bottles used for bleach, fabric softener, detergents, and shampoos make very good sample bottles, but are often difficult to remove residues from and get clean.
4. Wash the container with hot, soapy water and rinse in boiling water. (Some containers may require washing with hot vinegar to remove foreign residues.)
5. Then rinse the container vigorously with the water to be sampled three times.
6. If the container doesn't look clean, don't use it.
7. Allow enough time for pumping a well to insure "fresh" ground water instead of "drill water and mud" or stagnant water. (Usually 6 hours of pumping a new well is recommended).
8. When taking surface water samples, obtain the water far enough from shore so that excessive soil and algal growth are not included in the sample. Samples from different depths should be composited into one sample.
9. Remember, we need at least a pint of sample.
10. Try to get the water sample to the laboratory as soon as possible after obtaining the sample. Time has a definite effect on water quality.

CONSERVATION PLAN MAP

UNITED STATES DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

cooperating with

FALL RIVER

Conservation District



B
C

Owner ROLAND OR DONNA MARCH

Plan No. _____

Date 5/84

Operator SAME

Scale 8" = 1 MILE

Acres _____

Approximate

Approximate

FALL RIVER

County

S.D. DAK.

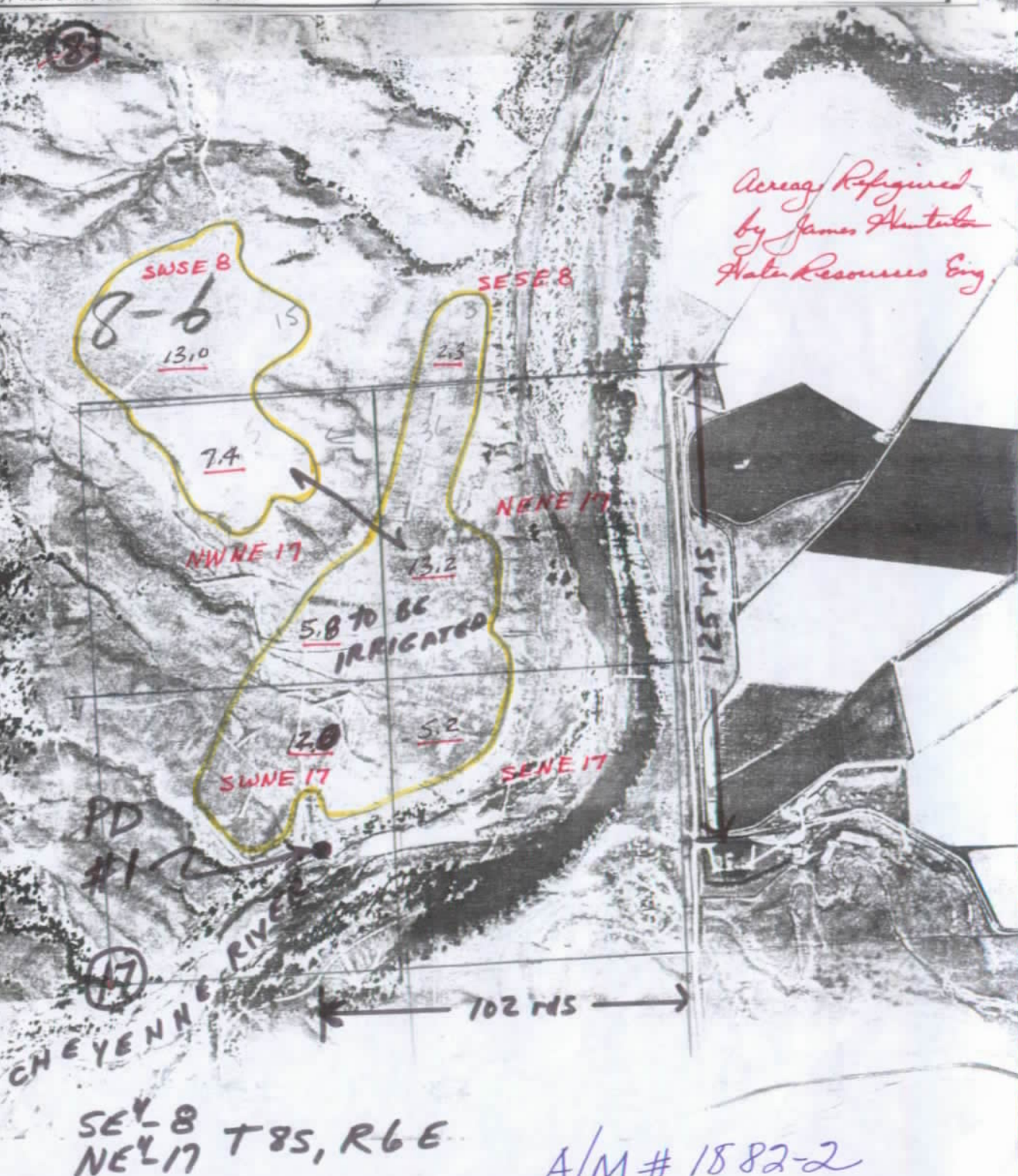
State

Photo No. _____

Location (Community, watershed, road & distance, etc.)

Sandy Knice, Dist Cons.

*Acres Refigured
by James Huntula
Water Resources Eng.*



Water Rights Division
605 773-3352

May 29, 1984

Roland N March
St Rt Box 137
Hot Springs SD 57747

Dear Mr. March:

We received your application to appropriate 0.80 cfs of water from the Cheyenne River to irrigate 59 acres of land. The completed WI-1, soil/water compatibility form received with your application was forwarded to the Division of Conservation along with the soils map.

Upon receipt of the soil/water compatibility approval from the State Conservation Commission further processing of your application will proceed.

Sincerely,

BETTY WESTLUND
Natural Resources Analyst III

BW:ks

RECEIPT

Division of Water Rights

No 4 9671 -

South Dakota Department of Water and Natural Resources

Pierre, May 29, 1984

RECEIVED OF Roland M. or Donna M. March, Star Route, Box 137, Hot Springs, SD 57747
the following amount in fees for services rendered as provided for by law:

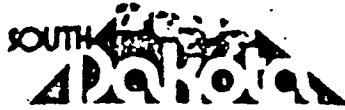
Fee for Application for Permit No. <u>1882-2</u> to Appropriate Water, to construct works and to put water to beneficial use	150	00
Fee for Application for Permit No. _____ to Appropriate Water for Future Use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting 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	150 00

By

John Hatch

Chief Engineer

JOHN HATCH ms



Department of Agriculture

DIVISION OF CONSERVATION

Anderson Building, Room 322 • Pierre, South Dakota 57501
Phone 605/773-3258

June 1, 1984

Rolland March
Star Route, Box 137
Hot Springs, SD 57747

Dear Mr. March:

In reviewing your soil and water compatibility application for portions of the N $\frac{1}{2}$ NE $\frac{1}{4}$ 17-85-6 and S $\frac{1}{2}$ SE $\frac{1}{4}$ 8-85-6 = 59 acres, the Irrigation Staff is recommending a Conditional Approval of your application to the State Conservation Commission at their July 12, 1984 meeting. The Conditional Recommendation is based on the salt content of the water. The Management Recommendations are as follows:

MANAGEMENT RECOMMENDATIONS:

We recommend the use of conservation tillage to reduce runoff and control soil blowing.

We also recommend that when irrigating that water in addition to the plants needs be applied for the leaching of salts. By following this procedure salt may move deeper in the soil as well as maximizing the leaching effects of precipitation.

We feel we should advise you that the water quality of the Cheyenne River is variable, as are most surface sources. You may find it advantageous to monitor the water quality in developing your water management.

Please find enclosed a copy of, "Irrigation: Your Water, Your Soil, and their Compatibility," for your information.

If you have any questions concerning your application please feel free to contact this office.

Sincerely,

Jim Stukel
Irrigation Program Administrator

cf





Department of Agriculture

DIVISION OF CONSERVATION

Anderson Building, Room 322 ● Pierre, South Dakota 57501
Phone 605/773-3258

August 9, 1984

Rolland March
Star Route, Box 137
Hot Springs, SD 57747

Dear Mr. March:

We have been advised by the Division of Water Rights of an error in the legal description of the 36 acres in Sec 17.

DESCRIPTION: $NE\frac{1}{4}$ $NE\frac{1}{4}$ 17-8-6

CORRECT DESCRIPTION: $NE\frac{1}{4}$ $NE\frac{1}{4}$; $SE\frac{1}{4}$ $NE\frac{1}{4}$; & $SW\frac{1}{4}$ $NE\frac{1}{4}$ 17-8-6

Please find the enclosed WI-1 with these corrections.

Sincerely,

Jim Stukel
Irrigation Program Administrator

cf

cc: Division of Water Rights

Conversation or File Documentation

NAME OF PERSON OR FILE: Roland MarchADDRESS: Hot Springs COUNTY Fall RiverDATE: 8-10-84 TELEPHONE 745-4480RE: legal description mix-up

COMMENTS:

Talked to Stuckel about the ~~discrepancy~~
mixed up legal descriptions. There is no change in
soil types so he said there would be no problem
with Soil/Water compatibility.

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.

NAME: Kevin C. Larson

REPORT ON APPLICATION NO. 1882-2

ROLAND N or DONNA M MARCH

August 6, 1984

The proposed project is located approximately one mile below Angostura Dam. The application requests an appropriation of 0.8 cfs to irrigate 59 acres from the Cheyenne River.

A review of the application showed an error in the legal description of lands to be irrigated. The map and the acreage total was basically correct. The legal description has been corrected and the advertisement has been prepared accordingly. The soils map reviewed by the State Conservation Commission (SCC) was also correct and the soils are the same as conditionally approved by the SCC and shown on the soils map.

The project proposal, being located below Angostura Dam, will be subject to times of low flows when the project is not bypassing water down the river. Downstream, the river picks up return flows from the project area and serves the needs of the Cheyenne River irrigators during most years.

The average discharge for 33 years of record through September of 1982 is 78.5 cfs, the median of yearly mean discharges is 52 cfs. Although low flows can occur when Angostura Reservoir is filling its storage, water is available for appropriation.

Recommendation

I recommend the Application No. 1882-2 be approved with the "low flow bypass" qualification for the protection of domestic uses and prior existing water rights located downstream.



JAMES E WINTERTON
Water Resources Engineer

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 1882-2, Roland N or Donna M March

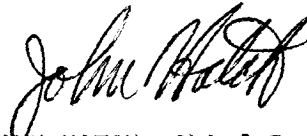
Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 1882-2, Roland N or Donna M. March, Star Route, Hot Springs SD.

The Chief Engineer is recommending APPROVAL of Application No. 1882-2 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

Low flows as needed for downstream domestic use, including livestock watering and prior water rights must be by-passed.

This permit is approved subject to the irrigation water use questionnaire being submitted each year.

See the attached report for additional information.

A handwritten signature in black ink, appearing to read "John Hatch", written in a cursive style.

JOHN HATCH, Chief Engineer
August 10, 1984

Instruction to Newspaper - Publish first publication of the following Notice on or before **August 14, 1984** with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 1882-2 to Appropriate Water
~~and/or to Amend Water Permit or Water Rights No. _____~~

Notice is hereby given that **Roland N. or Donna M. March** whose mailing address is **Star Route, Box 137, Hot Springs,** South Dakota has made an application for a permit

to appropriate 0.80 cubic feet per second of water from the Cheyenne River. The diversion point to be located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$, Section 17, T8S-R6E. The water will be used to irrigate 59 acres of land in the S $\frac{1}{2}$ SE $\frac{1}{4}$, Section 8 and NE $\frac{1}{4}$ Section 7 both in T8S-R6E.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends **APPROVAL** of Application No. **1882-2** 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 **the Civil**
Defense Room, Capitol Building, Pierre, South Dakota, September 26 19 **84** at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on 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 **September 14, 1984**. The petition may be informal, but it must include a statement describing the petitioners interest in the application, the reason 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, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; ~~(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, DWNR, 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 **September 14, 1984**.

STATE OF SOUTH DAKOTA)
) ss.
County Fall River)

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.



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

Water Rights Division
605 773-3352

October 23, 1984

Roland N or Donna M March
St Rt Box 137
Hot Springs SD 57747

Dear Mr. & Mrs. March:

Enclosed herewith is your Water Permit No. 1882-2 as approved by the Water Management Board authorizing you to construct your water diversion system and the water to beneficial use, not exceeding the limits as specified in said Water Permit No. 1882-2.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that your Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,

A handwritten signature in black ink that reads "John Hatch". The signature is written in a cursive, flowing style.

JOHN HATCH, Chief Engineer
Water Rights Division

JH:ks

enclosure

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period-i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.

WNR-809-5/83



Department of Water & Natural Resources

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

February 8, 1989

ROLAND N OR DONNA M MARCH
HCR 52 BOX 137
HOT SPRINGS, SD 57747

NOTICE

RE: Violation of Water Permit No(s). 1882-2

Our records indicate that the 1988 Irrigation Questionnaire has not been submitted for Permit No(s). 1882-2. The request for the Questionnaire was dated October 26, 1988. The Water Management Board had directed that owners of water permits who have not submitted the 1988 Irrigation Questionnaire be given notice of permit violation and a hearing to be held by the Board. The hearing will be held to determine action to be taken by the Board for violation of Water Permit No(s). 1882-2 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at 9:45 am, March 1, 1989 at the Howard Johnson's, Roosevelt Room, I-90 at LaCrosse, Rapid City SD.

The hearing will be conducted pursuant to the provisions of SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to procedures contained in SDCL 1-26. Following the hearing, the Water Management Board can:

1. Suspend Permit No(s). 1882-2 until the 1988 Irrigation Water Use Questionnaire is submitted or for a period of up to one year;
2. Postpone any action;
3. Take no action.

The hearing is an adversary proceeding. The permit owner 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.

If the questionnaire is received in this office before the March 1st hearing date, you will no longer be in violation of your permit and your name will be deleted from the agenda for the hearing.

Very truly yours,

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





Department of Water & Natural Resources

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

February 24, 1989

1882-2

Roland March
HC 52, Box 137
Hot Springs, SD 57747

Dear Mr. March:

I am writing to acknowledge receipt of your 1988 irrigation questionnaire for Water Permit No. 1882-2. You may disregard the February 8, 1989, Notice of failure to submit the 1988 irrigation questionnaire. With receipt of the questionnaire your name has been deleted from the March Water Management Board meeting agenda.

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

Very truly yours,

A handwritten signature in black ink, appearing to read "John Hatch". The signature is written in a cursive, flowing style.

JOHN HATCH, Chief Engineer
Water Rights Division

 **Department of
Water & Natural Resources**

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

July 12, 1989

NOTICE

TO: Cheyenne River Irrigators

FROM: *for* John Hatch, Chief Engineer
Division of Water Rights *James Winterton*

SUBJECT: Shutoff Order for water rights in the Cheyenne River reach from the Angostura Dam to Rapid Creek with priority dates after 1965.

Due to the present low flow conditions in the Cheyenne River, the following water rights must cease withdrawals of water from the Cheyenne River for the remainder of this irrigation season. This order is effective July 14, 1989. Additional shutoffs may be necessary if conditions show the need.

PERMIT NO.	NAME	PRIORITY DATE
1241-2	Donald R. Thorson, Scenic	02/06/75
1923-2	Rittburger Beef & Dairy, Buffalo Gap	03/15/85
1613-2	Rittberger Beef & Dairy, Buffalo Gap	10/28/77
1408-2	RIBOB-ELJIM-KADEN, Sioux Falls	06/06/77
1754-2	Earl Stombaugh, Buffalo Gap	01/27/81
1109-2	Lloyd Neugebauer, Oral	04/21/72
<u>1882-2</u>	Roland/Donna March, Hot Springs	05/29/84
1024-2	Clarence Werner, Hermosa	05/22/70

If you have any questions, please contact Jim Winterton, Division of Water Rights, Joe Foss Building, Pierre, SD 57501. Phone (605) 773-3352.

cc: Water Right Holders on the Cheyenne River in the Reach from Angostura Dam to the Rapid Creek Confluence





Department of Water & Natural Resources

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

July 19, 1989

NOTICE

TO: Cheyenne River Irrigators

FROM: *for* John Hatch, Chief Engineer
Division of Water Rights *James E. Winterton*

SUBJECT: Rescission of Shutoff Order for the following water rights in the Cheyenne River reach from the Angostura Dam to Rapid Creek with priority dates after 1965.

PERMIT NO.	NAME	PRIORITY DATE
1241-2	Donald R. Thorson, Scenic	02/06/75
1923-2	Rittburger Beef & Dairy, Buffalo Gap	03/15/85
1613-2	Rittberger Beef & Dairy, Buffalo Gap	10/28/77
1408-2	RIBOB-ELJIM-KADEN, Rapid City	06/06/77
1754-2	Earl Stombaugh, Buffalo Gap	01/27/81
1109-2	Lloyd Neugebauer, Oral	04/21/72
<u>1882-2</u>	Roland/Donna March, Hot Springs	05/29/84
1024-2	Clarence Werner, Hermosa	05/22/70

In followup to my telephone discussion with many of you on July 19, 1989, the shutoff order is rescinded. The present flow conditions in the Cheyenne River appears to be of a sufficient quantity to allow continued irrigation at least for the time being. This notice is effective July 19, 1989. Controls may still be necessary if the downstream flows again are reduced to a point where adverse impacts are caused prior water rights and domestic uses. If this occurs, I am open to any suggestions on how we could manage and regulate the use to assure continued flows.

If you have any questions, please contact Jim Winterton, Division of Water Rights, Joe Foss Building, Pierre, SD 57501. Phone (605)773-3352.

cc: Water Right Holders on the Cheyenne River in the Reach from Angostura Dam to the Rapid Creek Confluence





Department of Water & Natural Resources

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

March 14, 1991

1882-2

Roland/Donna March
HCR 52, Box 137
Hot Springs, SD 57747

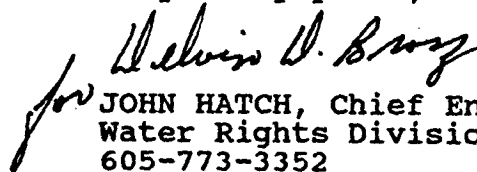
Dear Mr. March:

I am contacting irrigators and water users below Angostura Reservoir to advise of the low water level conditions in Angostura Reservoir and of potential water use restrictions from the Cheyenne River. Due to the continuing drought, Angostura Reservoir is receiving below normal inflows. As of February 27, 1991 the water level in the reservoir was at elevation 3170.25 feet above mean sea level (msl). Full elevation of the reservoir is 3187.2 msl.

Flow conditions in the Cheyenne River will be monitored during the coming irrigation season. Low flows may require that shut off orders be issued to junior water right holders to protect senior water rights. Low water levels in Angostura and the potential for low flows in the Cheyenne should be considered when planning for the coming water use and irrigation season.

Junior Water Rights above Angostura were shut off during 1989 and will remain shut off until Angostura fills again. If you have any questions, please contact Mark Rath or Del Brosz (605-773-3352).

Very truly yours,

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



11/2/93

Roland:

Steve Quissell's report on your irrigation system is enclosed. I hope it is self explanatory, but if you have questions, give me a call and I will ask Steve to come down to go over it with us.

Note a change in the soil name from Norka to Glenburg. Our soil scientist agreed that the evidence of sandstone and the sandy surface texture was not typical of the Norka soil. Glenburg fine sandy loam is usually found in an area similar to yours, and has a higher intake rate than the Norka. This would account for the problem you have had getting water into the subsoil.

Sincerely,

Gary Kruse
District Conservationist

*Here are Gary's comments
May visit with you again
after you have gotten this*
Roland March



United States
Department of
Agriculture

Soil
Conservation
Service

745-4113
Federal Building, Room 239
515 9th Street
Rapid City, SD 57701-2663

SUBJECT: ENG - Roland March Irrigation
Evaluation

DATE: October 28, 1993

TO: Gary Kruse
District Conservationist
Hot Springs, SD

FILE CODE: 210-0

The following is a report of the results obtained from the irrigation evaluation performed on the big gun irrigation system for Roland March.

System Data:

Evaluation Date - October 15, 1993
Location - NE 1/4 S17-T8S-R6E
Water Source - Cheyenne River
Type System - Big Gun
Power - PTO, Diesel
Soils - Glenburg

The system is being operated as a stationary unit with an approximate 10 hour set time and then being moved approximately 100'. The operator's goal is to fill the soil profile with fall and spring irrigations. The system is currently not being used during the summer season. Two different nozzles (1 1/4" and 1 7/16" diameter) were used during the evaluation and the effects of each checked. Data is as follows:

	<u>1 1/4"</u>	<u>1 7/16"</u>
GPM	270	432
Application Rate (gross)	.26 in/hr	.39 in/hr
Operating Pressure	70 psi	75 psi
Sprinkler Radius	175'	195'
Fuel Use	2.6 gal/hr	3.5 gal/hr (est)
Pumping Cost (at \$1.10/gal)	\$4.77/ac-in	\$4.01/ac-in

The large nozzle is applying water 50 percent faster than the small nozzle (.26 in/hr vs .39 in/hr), but this faster rate is still well below the recommended maximum application rate for Glenburg soils. The large nozzle also is covering a larger area (195' radius vs 175'). The faster application in combination with a larger area would mean shorter set times and a few less moves. Therefore the irrigated acreage could be covered in less time with less labor.

Use of the large nozzle will also reduce pumping costs by 16 percent. Since the pump being used is designed to operate most efficiently in the 500 gpm - 800 gpm range, the 432 gpm pumping rate of the large nozzle is more efficient (67 percent) than the 270 gpm pumping rate (56 percent efficiency).



The Soil Conservation Service
is an agency of the
Department of Agriculture

AN EQUAL OPPORTUNITY EMPLOYER

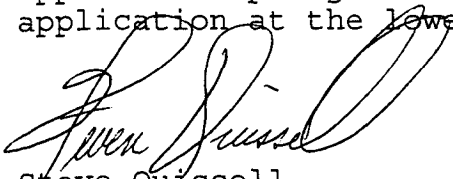
(See attached pump curve)

This will mean reducing the fuel cost from \$4.77 per acre-inch of water pumped to \$4.01 per acre-inch by changing to the large nozzle. Power requirements would increase from 30 BHP to 40 BHP (present tractor more than adequate).

The normal irrigation application for alfalfa on Glenburg soils would be 6" gross water applied, assuming the soil profile was at a moisture level where irrigation would be necessary during the normal irrigation season. During the fall irrigations the soil profile may be drier than this, and in the spring the profile may contain more water, so adjustments in set time may need to be made based on field checks. These recommendations will be based on a 6" gross application. If the gun is operated with no overlap between sets, then the set time would be 6.0" divided by .39 in/hr equals 15 hours, using the large nozzle. Normally the gun would be operated with the irrigated area overlapping from set to set (see sketch attached for recommended set times). The recommended distance between sets would range from 195' - 260' (depending on wind conditions) for the large nozzle. The ideal watering pattern would be as shown in Example 2 of the sketch with approximately 225' spacing of the big gun in each direction. Due to the field being quite narrow in places. The operator could also use the pattern shown in Example 3 with a 100' x 390' spacing. With these spacing patterns the set times should be 7 1/2 hours and 5 1/2 hours respectively rather than the 10 hour sets which the operator currently uses.

Summary:

The operator has been using the small nozzle with a 10 hour set. The system is operating with adequate pressure and is getting good uniformity of application under low wind situations. The operator is currently using a pattern as shown in Example 3 with a 100' x 350' spacing. With this arrangement, the gross application depth would be 7.5". The set time should be cut back to 8 hours, assuming a desired 6" gross application depth. We would recommend switching to the larger 1 7/16" nozzle and using a 100' x 390' spacing for 5 1/2 hours. This would allow the pump to be operating in a more efficient range with the net result of lower pumping costs. The subsoil moisture conditions should also be checked prior to irrigating to gauge the application depth to be applied in spring or fall to allow for the most efficient water application at the lowest cost.

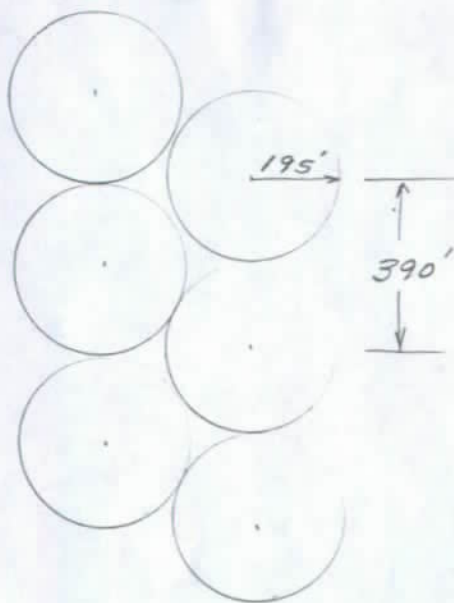


Steve Quissell
Agricultural Engineer

cc: Roland March, Hot Springs, SD
Rodney D. Baumberger, AC, SCS, Rapid City, SD

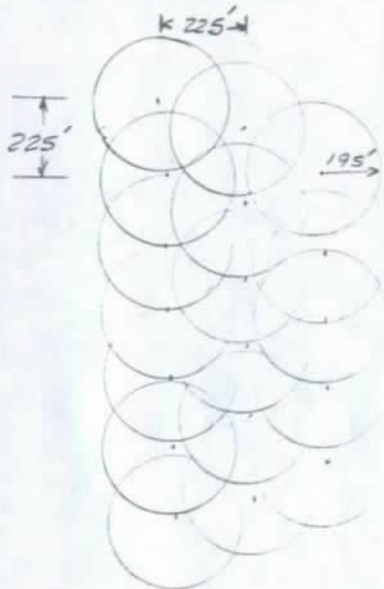


EXAMPLE 1



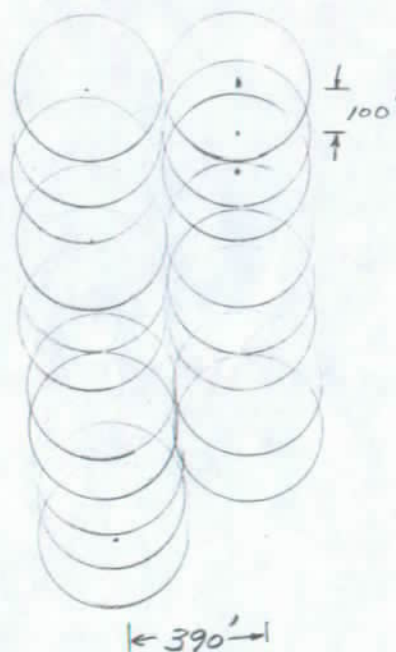
15 hr. set time
(no overlap)

EXAMPLE 2



7½ hr. set
(Overlap from Both
Directions)

EXAMPLE 3



5½ hr. Set
(Overlap along direction of
move only)



BERKELEY PUMP COMPANY

TYPE "B" RATING CURVES

BELT OR COUPLING DRIVE

CURVE 4165
DATE 8-17-81
PAGE 7.51

SUPERSEDES

NEW

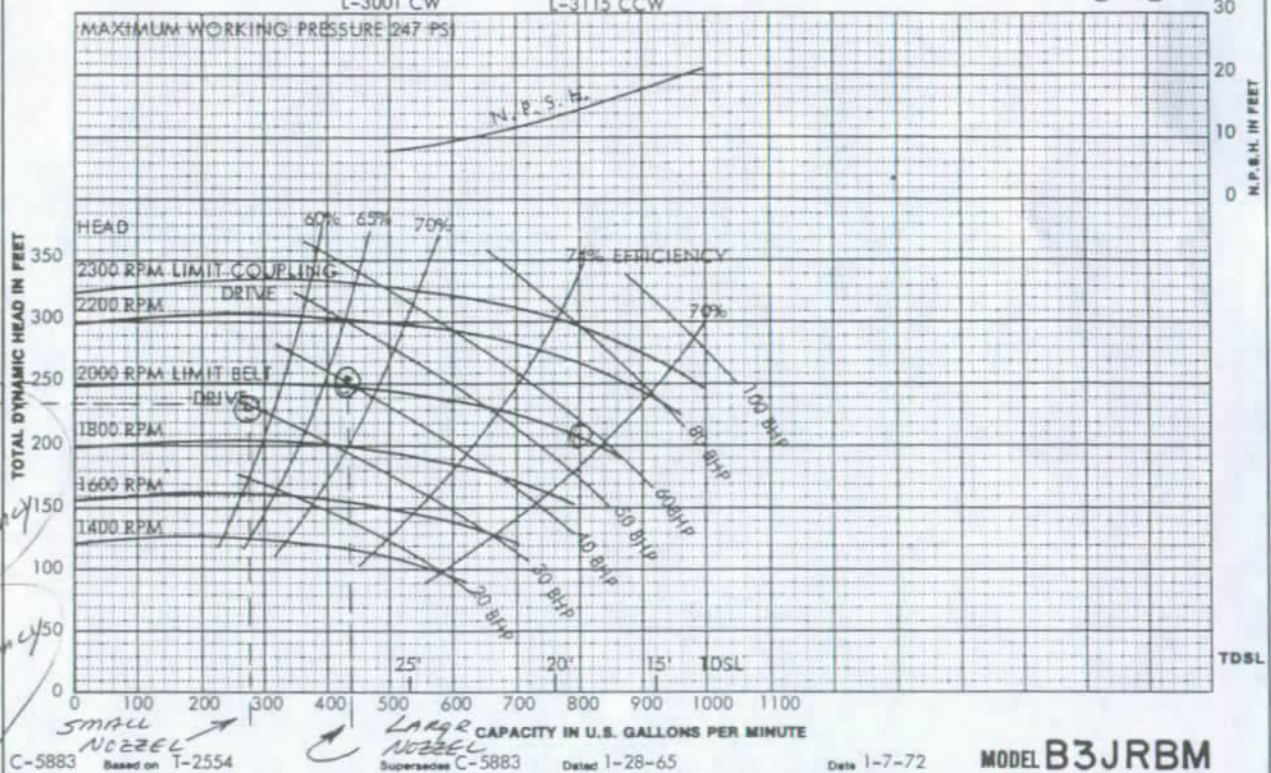
Case: Material C. I. Patl. No. H-1892 CCW Mach. No. H-1892 CCW
Impeller: Material C. I. Patl. No. H-1863 CW Mach. No. H-1863 CW
L-3001 CCW Mach. No. L-3038 CW Dia. 13-1/2" FULL.
L-3001 CW L-3115 CCW

VARIOUS

R.P.M. - Cycles

T.D.S.L. for fresh water at sea level 80° F. max.
M-1 ☒ M-2 ☐

MAXIMUM WORKING PRESSURE 247 PSI



C-5883 Based on T-2554

Supersedes C-5883
Dated 1-28-65

Date 1-7-72

MODEL B3JRBM

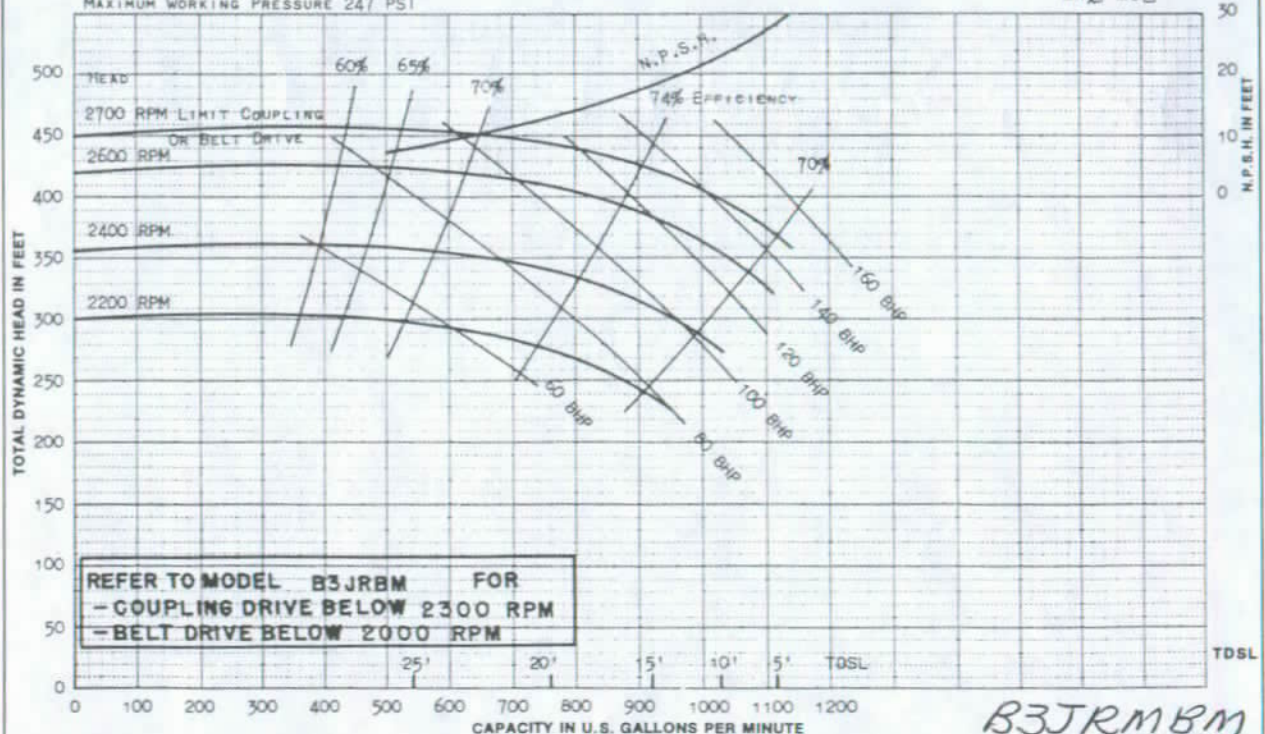
Case: Material C. I. Patl. No. H-1892 CCW Mach. No. H-1892 CCW
Impeller: Material C. I. Patl. No. L-3001 CCW Mach. No. L-3115 CCW
L-3001 CW Mach. No. L-3085 CW Dia. 13-1/2" FULL

VARIOUS

R.P.M. - Cycles

T.D.S.L. for fresh water at sea level 80° F. max.
M-1 ☒ M-2 ☐

MAXIMUM WORKING PRESSURE 247 PSI



REFER TO MODEL B3JRBM FOR
- COUPLING DRIVE BELOW 2300 RPM
- BELT DRIVE BELOW 2000 RPM

B3JRBM

40 hp.
Large Nozzle
Approx. 67% efficiency
Small Nozzle
Approx. 56% efficiency
30 hp.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

November 4, 1994

1882-2

Roland and Donna March
HCR 52, Box 137
Hot Springs, SD 57747

Dear Mr. and Ms. March:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit No. 1882-2, has been completed. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the inspection and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

Please remit fee to:
Department of Environment & Natural Resources
Water Rights Division
523 E. Capitol
Pierre, SD 57501-3181

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Division
(605) 773-3352

NOTE: On check or money order, please specify your permit number. This will insure proper handling of the fee.

RECEIPT

414365

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, _____, January 3, 19 95

RECEIVED OF Donna March, HC 62 Box 137, Hot Springs, SD 57747

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. <u>1882-2</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	50 00

By John Hatch
Chief Engineer

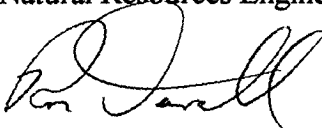
REPORT ON WATER PERMIT NO. 1882-2
ROLAND AND DONNA MARCH
October 10, 1995

Water Permit No. 1882-2 appropriates 0.80 cubic feet of water per second (cfs) from the Cheyenne River at a point to be located in the SE 1/4 NE 1/4 Section 17-T8S-R6E to irrigate 59 acres. An inspection of the permit found 0.60 cfs being diverted from the Cheyenne River located in the NE 1/4 NE 1/4 Section 17-T8S-R6E to irrigate 49.4 acres. Readvertisement of this permit is necessary to correct the location of the lands irrigated prior to issuance of the water license. The lands irrigated are located in the SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 8 and the NE 1/4 Section 17; all in T8S-R6E and were incorrectly advertised on August 14 and 21, 1984 in the Hot Springs Star as being located in the S 1/2 SE 1/4 Section 8 and the NE 1/4 Section 7; all in T8S-R6E. This readvertisement does not authorize any increase in the developed water appropriation or irrigated acreage.

Conclusions

1. This is a readvertisement of the Notice of Hearing for Water Permit No. 1882-2.
2. This readvertisement is necessary to correct the legal description of the lands being irrigated prior to issuance of the water license. The correct location of the irrigated acreage was identified on the map and the permit application.
3. The correct legal description of the lands being irrigated is the SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 8 and the NE 1/4 Section 17; all in T8S-R6E.
4. The change in the location of the diversion point does not increase the potential for interference with existing diversion.


Eric Gronlund
Natural Resources Engineer


Ron Duvall
Natural Resources Engineer

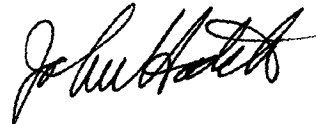
**RECOMMENDATION OF CHIEF ENGINEER FOR READVERTISED WATER PERMIT
APPLICATION NO. 1882-2, Roland and Donna March**

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 readvertised Water Permit Application No. 1882-2, Roland and Donna March, HCR 52, Box 137, Hot Springs, SD 57747

The Chief Engineer is recommending APPROVAL of readvertised Application No. 1882-2 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) in the public interest with the following qualifications:

1. Low flows as needed for downstream domestic use, including livestock watering and prior water rights must be by-passed.
2. This permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

A handwritten signature in black ink, appearing to read "John Hatch", written in a cursive style.

JOHN HATCH, Chief Engineer
October 5, 1995



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

October 12, 1995

Roland and Donna March
HCR 52, Box 137
Hot Springs SD 57747

Dear Mr. & Mrs. March:

The original notice of hearing for Water Permit No. 1882-2 was published with an error in the location of the lands to be irrigated. Therefore, the notice of hearing needs to be readvertised to correct the error. A notice of hearing has been sent to the Publisher of the Hot Springs Star printed at Hot Springs SD (Ph # 605 745-4170). For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the readvertisement are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

The cost of publication of this notice will be paid by the Water Rights Program. Please contact us if you have any questions.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



October 12, 1995

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

Hot Springs Star
Box 1000
Hot Springs, SD 57747-1000

Attn: Legal Department

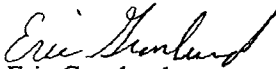
Enclosed is a Readvertisement of Notice of Hearing on Permit No. 1882-2 to be published twice. Please publish the first notice on October 24, 1995, with the second publication 7 days later.

Please bill the Water Rights Program for the cost of the advertisement.

A copy of BOTH publications must be SENT to the WATER RIGHTS PROGRAM. 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,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

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

No. _____

Date _____

We are in receipt of your letter of _____ enclosing Readvertisement of Notice of Hearing to Appropriate Water by Permit No. _____ which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper

READVERTISEMENT OF NOTICE OF HEARING ON APPLICATION NO. 1882-2 to Appropriate Water

Notice is given of readvertisement of Water Permit No. 1882-2 held by Roland and Donna March, HCR 52, Box 137, Hot Springs, SD 57747. The water permit was originally applied for on May 29, 1984. Water Permit No. 1882-2 appropriates 0.80 cubic feet of water per second (cfs) from the Cheyenne River from a point to be located in the SE 1/4 NE 1/4 Section 17, T8S, R6E to irrigate 59 acres. An inspection of the permit found 0.60 cfs being diverted from the Cheyenne River located in the NE 1/4 NE 1/4 Section 17-T8S-R6E to irrigate 49.4 acres. Readvertisement of this permit is necessary to correct the location of the lands irrigated. The lands irrigated are located in the SE 1/4 SW 1/4, S 1/2 SE 1/4 Section 8 and the NE 1/4 Section 17; all in T8S-R6E and were incorrectly advertised August 14 and 21, 1984, as being located in the S 1/2 SE 1/4 Section 8 and the NE 1/4 Section 7; all in T8S-R6E. This readvertisement does not authorize any increase in the developed diversion rate or irrigated acreage.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Readvertised Application No. 1882-2 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 November 13, 1995.

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.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) SS
 County of Fall River)



I, Greg Corr

certify that the attached printed Notice was
 taken from the _____
Hot Springs Star

printed and published in Hot Springs

County of Fall River and State of

South Dakota. The notice was published in
 the newspaper on the following two dates:

October 31, 1995

November 7, 1995

Cost of Printing: 40.34

Greg A. L.

(Signature)

Publisher

(Title)

November 7, 1995

(Date Signed)

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Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Readvertised Application No. 1882-2 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.

Oct. 31 Nov. 7

Permit No. 1882-2
Upper Cheyenne - Water District

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

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

I have this day made a thorough examination of the water use system constructed by Roland and Donna March of Star Route, Box 137, Hot Springs, SD 57747 holder of Permit No. 1882-2, bearing the priority of May 29, 1984 authorizing the diversion of 0.80 cu. ft. per second of the waters of Cheyenne River for irrigation purposes, in Fall River County.

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

- A. Works used to divert the water:
A Berkeley Pump, 650 gallons per minute capacity
A Tractor (M&M), 100 horse power
- B. Works used to transport water to place of use:
1200 feet of 6 inch aluminum pipe.
- C. Works used to apply water to beneficial use:
Nelson Gun, 270 gallons per minute capacity at 70 psi

The system is in the following condition Very good. The point of diversion is located approximately 538 feet west, 930 feet south from the Northeast corner of Section 17, T8S-R6E (NE1/4 NE1/4)**. The works are capable of diverting and conveying to the place of use 0.60 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows: All in T8S-R6E

<u>Section 8</u>			<u>Section 17</u>		
<u>SE1/4 SW1/4</u>	<u>0.8</u>	<u>ac.</u>	<u>NW1/4 NE1/4</u>	<u>10.6</u>	<u>ac.</u>
<u>SW1/4 SE1/4</u>	<u>9.6</u>	<u>ac.</u>	<u>NE1/4 NE1/4</u>	<u>16.8</u>	<u>ac.</u>
<u>SE1/4 SE1/4</u>	<u>2.5</u>	<u>ac.</u>	<u>SW1/4 NE1/4</u>	<u>4.7</u>	<u>ac.</u>
			<u>SE1/4 NE1/4</u>	<u>4.4</u>	<u>ac.</u>

comprising a total of 49.4 acres of land and the license should be issued for 0.60 cfs.

Applicable permit qualifications have been complied with: Yes ☒ No

Exceptions to compliance are: None Date: 8/17/1993

**** Originally, diversion point for Water Permit No. 1882-2 was located in the SW1/4 SE1/4 Section 17, T8S-R6E. There is no water user between the location of the previous diversion point and the present one.**



M. Rassool Ahadi
Natural Resources Engineer
DENR, Water Rights Division

REPORT ON INSPECTION OF PERMIT NO. 1882-2

DATE: 8/17/1993

Other permit(s) associated with the project: No

DIVERSION POINT LEGAL LOCATION: NE1/4 NE1/4 Section 17, T8S-R6E

Pump:

- 1) Make Berkeley
- 2) Model B3JRMBMCCW
- 3) Size 6 inch
- 4) Capacity 650 GPM

Motor:

- 1) Make Minnesota Molin (Tractor)
- 2) Model No. D425A-6
- 3) Horsepower rating 100 hp

DISTRIBUTION LINES OR CANALS:

- 1) Type Aluminum
- 2) Size 6 inches
- 3) Length 1200 feet

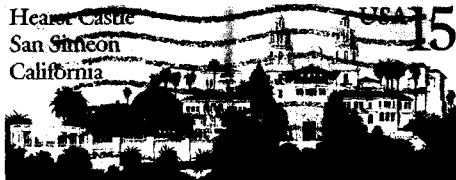
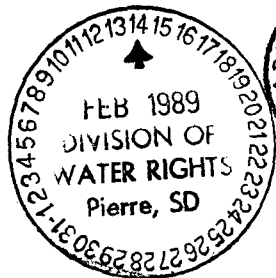
SYSTEM TYPE:

Gun:

- 1) Make Nelson
- 2) Nozzle size 1 1/4 inches
- 3) Capacity 270 GPM, at 70 PSI
- 4) Hose size 5 inches

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Soil and water permit lands agree with lands being irrigated and lands listed on permit Y
- 2) Special qualifications to permit being abided by Y
- 3) All structures, wells and lands on map Y
- 4) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y



Dept of Water & Natural Resources
Joe Foss Bldg
523 East Capitol
Pierre, SD, 57501-3181

Dear Sirs:

Received your notice of Violation due
to no Water Use Questionnaire being submitted.
I sent it in the first part of December,
so if you have no record I will need another
form for reporting.

I was not able to irrigate ^{in 1989} as I have been
looking at pumps for more efficiency.

Thank You

Roland March

HC 52 Box 137

Hot Springs, SD 57747

NOT TO SCALE



STATE OF SOUTH DAKOTA
WATER LICENSE NO. 1882-2

(1) Roland and Donna March of HCR 52 Box 137, Hot Springs, SD 57747 made Application No. 1882-2, May 29, 1984, for a water permit to appropriate 0.80 cubic feet of water per second from the Cheyenne River, Fall River County, South Dakota for irrigation purposes. Permit No. 1882-2, with a priority date of May 29, 1984 was approved September 26, 1984 and issued to the applicants for diversion of water with construction of the described water supply system to be completed on or before September 26, 1989 and for the application to beneficial use of said water on or before September 26, 1993.

Water Permit No. 1882-2 was readvertised October 31 and November 7, 1995, to correct the location of the lands being irrigated. The readvertisement did not authorize an increase in the developed diversion rate or irrigated acreage.

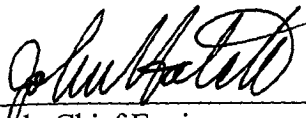
(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 0.60 cubic feet of water per second for beneficial use. The location of the diversion point is approximately 538 feet west and 930 feet south of the NE corner of Section 17, T8S, R6E (NE 1/4 NE 1/4).

(3) The applicant has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate 49.4 acres (described below) all in T8S, R6E:

Section 8	
SE $\frac{1}{4}$ SW $\frac{1}{4}$	0.8 acres
SW $\frac{1}{4}$ SE $\frac{1}{4}$	9.6 acres
SE $\frac{1}{4}$ SE $\frac{1}{4}$	2.5 acres

Section 17	
NW $\frac{1}{4}$ NE $\frac{1}{4}$	10.6 acres
NE $\frac{1}{4}$ NE $\frac{1}{4}$	16.8 acres
SW $\frac{1}{4}$ NE $\frac{1}{4}$	4.7 acres
SE $\frac{1}{4}$ NE $\frac{1}{4}$	4.4 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Roland and Donna March of HCR 52 Box 137, Hot Springs, SD 57747 the holders and/or owners of Water Permit No. 1882-2 are issued a license to appropriate water, the right to use 0.60 cubic feet of water per second from the Cheyenne River with a priority date of May 29, 1984 from the location specified in (2) of this license. The water to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation. This license is subject to any limitations or qualifications listed in Water Permit No. 1882-2 and subject to South Dakota State Law.



John Hatch, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

DEC 18 1995

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

DEC 18 1995

1882-2

Roland and Donna March
HCR 52, Box 137
Hot Springs, SD 57747

Dear Mr. and Ms. March:

Enclosed is Water License No. 1882-2 and Receipt No. 414365 for \$50.00 which was assessed for an inspection and issuance of the license. Water License No. 1882-2 is the final document which completes the process of obtaining a water right.

As long as you use the water beneficially, as stated in the Water License, State Water Laws provide that you have a continuing right to use the water.

Very truly yours,

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

gm
enclosures



1882-2
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES
PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

July 22, 2005

Roland March
HC 52, Box 137
Hot Springs SD 57747-9603

Dear Mr. March:

Water Right No. 1882-2 and Water Permit No. 2480-2, combined, appropriate 1.89 cubic feet of water per second (cfs) from the Cheyenne River for irrigation of 69.3 acres in the S ½ SE ¼ Section 8 and NE ¼ Section 17, T8S, R6E. A condition to your water rights does not allow irrigation from the Cheyenne River at any time the flow at the gaging station below Angostura Dam is less than 2.5 cfs while pumping. A copy of Water Permit No. 2480-2 is enclosed.

Don Stroup met with you on July 19th for the purpose of measuring the flow in the river while the pump was operating. The flow measurement was 1.28 cfs. Based on current conditions there is not 2.5 cfs bypassing your pump site when pumping. Therefore, you are not allowed to pump from the river for irrigation.

I ask that you abide by the condition for a 2.5 cfs bypass as measured at the USGS gaging station (064011500) on the Cheyenne River while pumping. Real time flows at this gaging station can be viewed at the USGS website (<http://waterdata.usgs.gov/sd/nwis/>)

If you have any questions on the condition to you water permit, please contact Don Stroup or Eric Gronlund (605) 773-3352.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program, DENR

enclosure



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

June 30, 2006

NOTICE OF SHUTOFF ORDER

TO: ROLAND/DONNA M MARCH
HCR 52 BOX 137
HOT SPRINGS SD 57747

FROM: GARLAND ERBELE, Chief Engineer
Water Rights Program

SUBJECT: Cheyenne River Shutoff Order for Junior Priority Date Water Rights

Shutoff Order for Water Right Nos. 1882-2 2480-2

To protect the senior priority water rights, the department is issuing shutoff orders to junior water right holders with priority dates after January 1, 1970 from Angostura Dam to Belle Fourche River confluence. Effective immediately, no diversions of water from the Cheyenne River and tributaries will be allowed for those permits with a priority date after January 1, 1970.

Flow in the Cheyenne River has dropped to the point where domestic use of water, which includes livestock watering from the river, has become a concern. This order will be rescinded as soon as conditions improve. If conditions do not improve, this order will remain in effect until the end of the calendar year.

I am asking for your cooperation in complying with this shutoff order. The ongoing drought is creating hardship for all the water right holders along the river. If you have any questions, please contact Mark Rath or Lynn Beck with the Water Rights Program at (605) 773-3352. Thank you.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

September 5, 2006

2480-2 1882-2

ROLAND/DONNA M MARCH
HCR 52 BOX 137
HOT SPRINGS SD 57747

Dear Sir:

This letter is to inform you that until further notice pumping **will be allowed** to continue under your junior priority water right(s) from the Cheyenne River. Due to recent rains and cooler temperatures, flow in the Cheyenne River has improved and appears to holding steady.

We will continue to monitor the daily stream flows. If flow conditions worsen and domestic use flow is again being impacted, DENR may be forced to again limit pumping.

The USGS maintains a website where you can view real-time stream flow measurements at several sites along the Cheyenne River and it's tributaries at the following web address:

<http://waterdata.usgs.gov/sd/nwis/rt>

If you have any questions, please contact Mark Rath or Lynn Beck with the Water Rights Program at (605) 773-3352. Thank you.

GARLAND ERBELE, Chief Engineer
Water Rights Program



1882-2

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

March 5, 2007

Dear Water Right Holder;

Due to the ongoing drought I am advising Cheyenne River water right holders of the possibility of shutoff orders in 2007 for the river reach from Angostura Dam to the Belle Fourche River confluence. This is **not a shutoff order**.

As a result of the continuing lack of precipitation, tributary flows throughout the Cheyenne River basin remain well below the historical average. Angostura Reservoir ended February almost 21-feet below full and the forecast for improved conditions throughout the summer months is not favorable.

This letter is only intended to give you advanced warning that your ability to divert water may be cut short this year. If shut-off orders are issued, you will receive another letter from the department. In the meantime, water right holders can help by closely monitoring water usage and trying to avoid wasting water.

South Dakota water law gives the highest priority to domestic use, which includes livestock watering. There is generally adequate water available to meet both domestic use and other needs. However, once water availability reaches critical low levels, other uses, including irrigation, will begin to interfere with domestic use. If levels become critically low, the department must issue shut-off orders to protect domestic water uses. Once these orders are issued, the department will continue to monitor water availability and should conditions improve, the shutoff orders would be rescinded.

If you are interested, the US Geological Survey has an Internet site showing river flows at 150 stream gauging stations across the state. Go to sd.water.usgs.gov and click on "Realtime streamflow data via satellite".

Thank you for your cooperation. If you have any questions, please contact Mark Rath or Mike DeFea at (605) 773-3352.

Sincerely,

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

NOTICE OF SHUTOFF ORDER

June 27, 2007

TO: ROLAND/DONNA M MARCH
28101 ANGUSTORA RD
HOT SPRINGS SD 57747

FROM: GARLAND ERBELE, Chief Engineer
SD DENR Water Rights Program

SUBJECT: Cheyenne River Shutoff Order for Junior Priority Date Water Rights

Shutoff Order for Water Right Nos. 2480-2 (1882-2)

To protect the senior priority water rights, the department is issuing shutoff orders to junior water right holders with priority dates between January 1, 1970 and present for the river reach between the Angostura Dam to Belle Fourche River confluence. Effective immediately, diversions of water from the Cheyenne River and tributaries will not be allowed for those permits with a priority date after January 1, 1970.

Flow in the Cheyenne River continues to decline to the point where domestic use of water, which includes livestock watering from the river, has become a concern. This order will be rescinded as soon as conditions improve. If conditions do not improve, this order will remain in effect until the end of the calendar year.

The USGS maintains a website where you can view real-time stream flow measurements at several sites along the river, the web address is:

<http://waterdata.usgs.gov/sd/nwis/rt>

I am asking for your cooperation in complying with this shutoff order. The ongoing drought is creating hardship for all the water right holders along the river.

If you have any questions concerning this order, please contact either Mark Rath at (605) 773-3352 or Aaron Tieman at (605) 394-2229. Thank you.



1882-2
**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JAN 18 2011

2480-2
1882-2

Roland & Donna March
Tony or Terry March
28101 Angostura Rd
Hot Springs SD 57747-9603

Dear Sirs:

Enclosed is Water License No. 2480-2. Included with your license is a map prepared by the staff engineer who conducted the field investigation. Water License No. 2480-2 is the final document which completes the process of obtaining a water right.

The applicable portions of Water Right No. 1882-2 were incorporated into Water License No. 2480-2. As long as you use the water beneficially, as stated in the Water License, State Water Laws provide that you have a continuing right to use the water.

Sincerely,

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

enclosures