

Considered: _____

WATER PERMIT NO. 5176-3

MAP No. same 384-5130

Name of Applicant Mark Wiechmann

Post Office Address RR 2, Armour SD 57313-9407

Amount of Water Claimed 0.57 cfs Total Acres 40 add'l

Source of Water Supply 1 well

Water to be used for irrigation County Charles Mix

About 8 miles N of Wagner.

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY _____ Date Received May 8, 1984 Fee \$150⁰⁰ Remarks _____

Corrected Application Received Feb. 22, 1988 Period of Annual Use Apr 1 - Nov 30

WATER QUALITY APPROVAL RECEIVED May 24, 1984 APPROVED CONDITIONAL (Circle one)

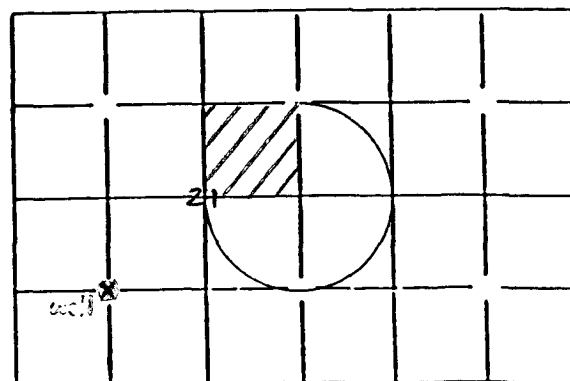
WI-1 Description same as Application YES ☒ NO _____ REMARKS _____

Diversion Point well: center of SW 1/4

section 21-T97N-R63W

Land to be Irrigated SW 1/4 NE 1/4 section 21-

T97N-R63W



Well Log: Driller Chase Drilling Licensed YES ☒ NO _____

Depth of Well 235 feet REMARKS _____

Type of Map aerial photo PREPARED BY Lyle Laboree Reviewed and the Number

assigned on March 23, 1988 By Ron Duvall

No. 5176-3Map No. same Water Division No. 10170101 Missouri R. District
Wagner Post, Box 100 (Tues) Above for Office Use

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

Check one of the following:

New X Vested Right X Future Use _____

Change in Diversion _____ Additional Diversion _____

Change in Acreage _____ Additional Acreage ✓

1. Name of Applicant Mark Wiechmann Phone No. 384-5130
 Post Office Address RR-2 Box 24B Armour State SD 57313-9407
 (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 Hanson No. 1 Permit No. 1632-34. Amount of water claimed (cubic feet per second) 2.28 for this Application → 0.575. Source of water supply 1 Well Add'l _____6. Location of point of diversion SW 1/4 Sec 21-97-63 near center of quarterCounty Charles Mix7. Annual period or periods during which water is to be used April - November 308. Use to be made of water, (irrigation, industrial, municipal, commercial, recreation, etc.) Irrigation9. For irrigation use, Total number of acres to be irrigated 360 (40 add'l)

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.
SE 1/4, NE 1/4	40
NE 1/4, SE 1/4	40
W 1/2, SE 1/4	80
NE 1/4, SW 1/4	40

Land Description	No. Acres Irr.
NW 1/4, SW 1/4	40
SE 1/4, SW 1/4	40
SW 1/4, SW 1/4	40
(SW 1/4, NE 1/4, 21-97-63)	40

Attach sheet if more space is needed applied for10. Time required to complete construction of water supply system 0 years. Additional time required to complete application of water to the proposed beneficial use 0 years.11. Choice of county newspaper for publication of Notice of Intent to Appropriate Water Wagner Post

12. Principal Features of the Proposed Water Supply System.

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

Vertical Turbine

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

plastic

C. Works proposed to apply water to beneficial use.

sprinklerEstimated Total Cost \$ 500⁰⁰
for additional acreage

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 Charles Mix)ss.I, Mark Wiechmann 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 Mark Wiechmann

Notary Public (or other qualified officer)

Subscribed and sworn to before me this 4 day of May, 19 84

WATER RIGHT APPLICATION APPROVAL

The Water Management Board hereby approves Water Right Application No. _____

(Applicant)

(Post Office Address)

(State)

With the following qualifications.

Date of first receipt of application _____, 19____

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

Date of receipt of corrected application _____, 19____

Approved _____, 19____, Recorded in Book _____ Page _____

WATER RIGHT PERMIT NO. _____

The Water Management Board hereby grants and issues this Water Right Permit No. _____ 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 _____, 19____
2. The equivalent of at least one-fifth of the work above specified 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 from proof of beneficial use of water appropriated in accordance herewith is _____, 19____
5. The water appropriated shall be used for the purpose of _____

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 _____ 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 _____, 19____; said water to be used during the following described annual period: _____

Witness my hand this _____ day of _____, 19____

THE WATER MANAGEMENT BOARD

By: _____
Chief Engineer, Water Rights

Certificate of Construction Issued _____, 19____

Water License Issued _____, 19____

**SOUTH DAKOTA
WATER PERMIT FOR IRRIGATION**

Date of first receipt of application May 8, 1984

Date Soil/Water Compatibility Permit received May 24, 1984

Date of return to applicant for correction, amendments or changes required May 11, 1984

Date of receipt of corrected application March 16, 1988

The Water Management Board approved Water Permit Application No. 5176-3

on July 27, 1988 for Mark Weichmann
(Applicant)

Route 2, Box 24B Armour South Dakota 57313-9407
(Street, RR or Box) (City) (State) (Zip Code)

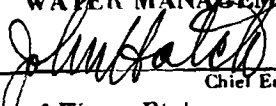
authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 5176-3 appropriates 0.57 cubic feet of water per second from one well (Choteau-West) 235 feet deep to irrigate 40 acres. This permit is for an additional water appropriation from the well authorized by Water Permit No. 1632-3 to irrigate 40 additional acres. The well is located near the center of the SW $\frac{1}{4}$ and the additional acreage is located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$; all in Section 21-T97N-R63W
2. The amount of the appropriation may not exceed 2 acre feet per acre per year or one-seventieth (1/70) cubic feet of water per second for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1-November 30
3. The date from which applicant may claim the right is March 16, 1988
4. One-fifth of the construction is to be completed on or before January 27, 1991
5. All construction is to be completed on or before July 27, 1993
6. Water is to be put to beneficial use on or before July 27, 1997
7. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: 
Chief Engineer

Division of Water Rights
Dept. of Water and Natural Resources

DEC 1 1988

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter _____ Depth 235 feet 70 feet 165 feet perforated
- b) Casing Type steel Diameter 16 in. Thickness _____
- c) Screen Type perforated Diameter 16 in. Thickness _____
- d) Gravel Pack Thickness _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property ½ mile 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) Primary Outlet Capacity _____
If Pipe, diameter _____

f) Secondary Spillway Capacity _____
Spillway width _____

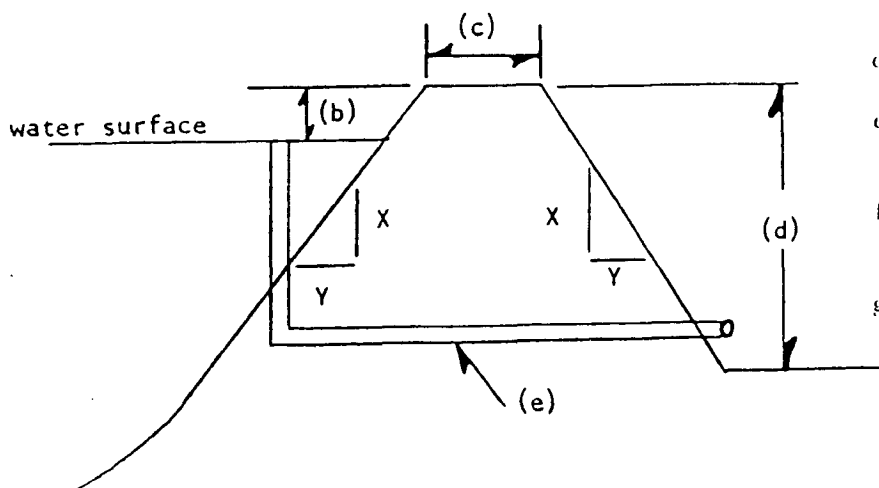
g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____

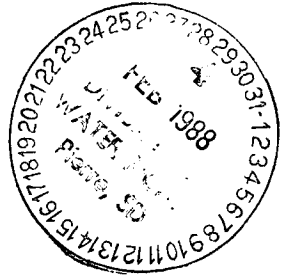


Signature of Applicant

Chase Well Drilling, Inc.

AINSWORTH, NEBRASKA 68210

PHONE 387-1680



SW 1/4 Sec 21-97-63

Leon Martin
Wagner, South Dakota

TEST LOG

0	-	2	Top soil
2	-	8	Clay
8	-	47	Gravel
47	-	94	Blue clay
94	-	110	Gravel and streaks of blue clay
110	-	139	Blue clay and gravel streaks
139	-	220	Gravel and sand (small clay streaks)

750 - 500 GPM.

Pat Chase, OWNER
Chase Well Drilling, Inc.



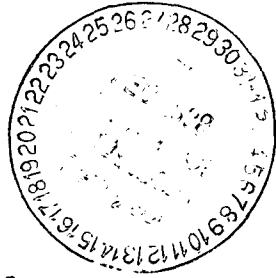
Chase Well Drilling, Inc.

AINSWORTH NEBRASKA 69210

PHONE 387-1680

SW 1/4 Sec 21 T7 R63

Clifford Hanson
907 West 8th
Yankton, South Dakota



TEST PUMPING REPORT

668 GPM	35 ft. draw down
850 GPM	46 ft. draw down
948 GPM	49 ft. draw down
1059 GPM	51 ft. draw down
1207 GPM	59 ft. draw down
1300 GPM	62 ft. draw down
1500 GPM	70 ft. draw down
Static water level - 25 ft.	

Depth of well - 235'

Casing - 16" Steel - 70' of plain, 165' of perforated

Pat Chase, OWNER
Chase Well Drilling, Inc.





Department of Water & Natural Resources

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

March 8, 1988

John Chase
RR 2, Box 108
Ainsworth NE 69210

Dear Mr. Chase:

This letter is in response to a water permit application submitted by Mark Weichmann from Charles Mix County in South Dakota. Mr. Weichmann is the current owner of a well constructed by Chase Well Drilling, Inc. and submitted the enclosed well information to the Division of Water Rights as required by Section 74:02:01:08.1 of the General Rules. However, the enclosed well information is not signed by a licensed well driller as required by the above rule.

The water permit application submitted by Mr. Weichmann can not be processed until the enclosed information is signed by you. Enclosed is a return envelop for your use. Please return the signed well information as quickly as possible. Thank you for your time and consideration.

Sincerely,

A handwritten signature in cursive script that reads "Ron Duvall".

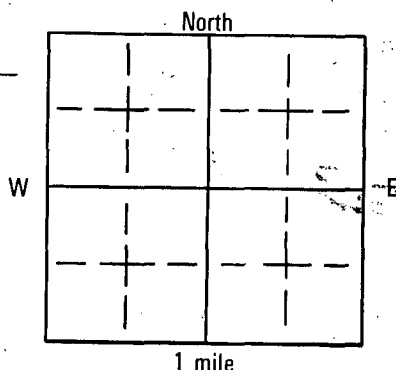
Ron Duvall
Natural Resources Engineer
enc.

*Returned
3-12-88*



SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

Location SW 1/4 Sec 21 Twp 97N Rg 63WCounty Charles Mix

Please mark well location with an "X"

Well Completion Date 5-12-8

PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Test Holes
☒ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

Forward Rotary

CASING DATA:

☒ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	IN	0 FT	130 FT	25 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 20 FEETWhat is grouting material? CementIf cement, number of sacks? 50Describe grouting procedure line

What was grout weight? _____ LB/GAL

SCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 16 IN Length 10 FEETMaterial PVC + Johnson SlatSlot Size .58 Set From 130 Feet To 150 FeetSlot Size .60 Set From 150 Feet To 170 Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Other information _____

Was a packer or seal used? ☐ YES ☒ NO

If so, what material? _____

Describe packer(s) and location? _____

Was well disinfected upon completion? ☒ YES ☒ NO

Explain _____

Bacteriological analysis ☐ YES ☒ NO

Laboratory sent to _____

Well Owner:

Name Mark Wiechman
Address RR 1 Armour
Well Log: RR 1 Armour Depth _____

Formation:

	From	To
Top Soil	0	12
Blue Clay w/ fine sand streaks	12	40
Blue Clay	40	80
gravelly Blue Clay	80	97
Gravel	97	104
Clay & gravel	104	130
gravel & good sand	130	140
Clay	140	150
Med. to Coarse sand	150	166
sandy Clay	166	170

STATIC WATER LEVEL 50 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☐ Bailed

Describe: _____

☐ Other

Pumping Level Below Land Surface:

_____ ft. After _____ Hrs. pumped 800 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

REMARKS:

This well was drilled under license # 440

And this report is true and accurate.

Drilling firm Sullivan Well Drilling

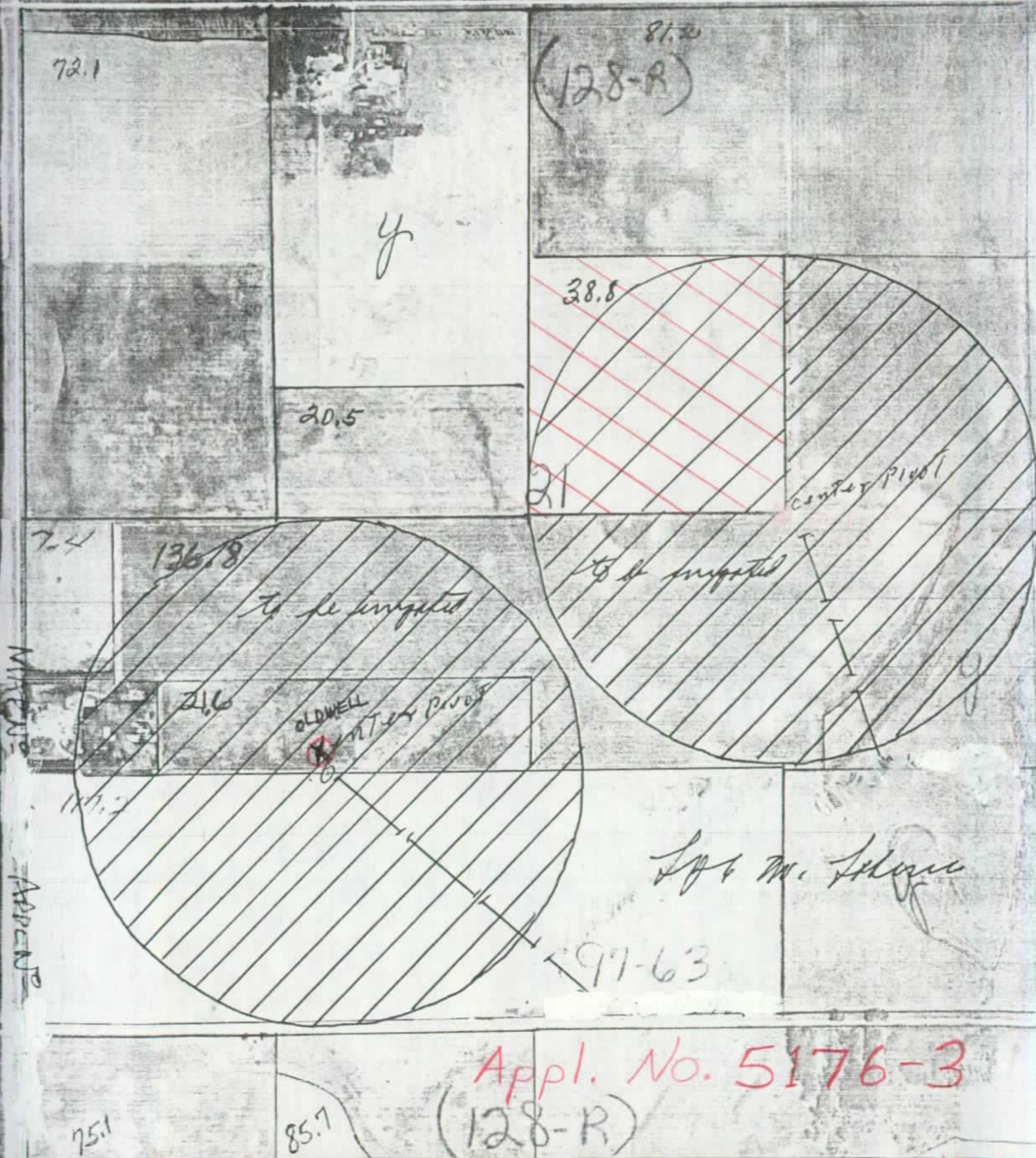
Signature of License Representative:

Randy Sullivan

Signature of Well Owner:

Date _____

NOT TO SCALE

Mark Wiechmann
Armour SD

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

411157

Pierre, February 22, 1988

RECEIVED OF Mark Wiechmann, RR #2 Armour, SD 57313-9407

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

Fee for Application for Permit No. _____ 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

gm



Department of Agriculture

DIVISION OF CONSERVATION

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

May 7, 1984

Mark Weichman
RR 1, Box 24B
Armour, SD 57313

SW¹/₄ SE⁴ 40ac.

Dear Mr. Weichman:

In reviewing your soil and water compatibility application for the SW¹/₄ NE¹/₄ 21-97-63 = 40 acres, the Irrigation Staff is recommending a Conditional Approval of your application to the State Conservation Commission at their May 10, 1984 meeting. The Conditional Recommendation is based on the water quality and the clay contents of the soils which may make the leaching of salts difficult. The Management Recommendations are as follows:

MANAGEMENT RECOMMENDATIONS:

We recommend that conservation tillage practices be used to conserve soil moisture and soil erosion. Additional practices such as contour farming or possibly terraces should be considered for the area mapped as Clarno-Ethan loam 6-9 percent slopes (CeC) to reduce runoff.

We also recommend that in irrigating that the application be in excess of the plants need to achieve the necessary leaching of salts. You may find it beneficial to develop a soil monitoring plan which would indicate salt accumulation and allow you to modify your management plan as needed.

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

Sincerely,

Jim Stukel
Irrigation Program Administrator

cf

cc: Division of Water Rights
Water Quality Lab, SDSU
LeRoy Cluever, Extension Ag. Engineer, SDSU



WATER RIGHTS DIVISION
(605) 773-3352

May 11, 1984

Mark Wiechmann
RR#A, Box 24B
Armour, South Dakota 57313

Dear Mr. Wiechmann:

The following will be needed on your new application for additional acreage:

1. Check over the enclosed partially completed application, make any corrections, sign, notarize and return to this office. Since our records are eventually microfilmed they must be legible.
2. A filing fee of \$150.00 will be required.

As soon as we receive the S/W Compatibility approval for the additional 40 acres further processing will proceed. If possible please return information requested above to our office before May 21st.

If you have any questions please contact this office.

Sincerely,

Betty Westlund
Natural Resources Analyst

BW:ms
Enc.

SOIL/WATER COMPATIBILITY PERMIT APPLICATION FORM

Office Use Only

Division of Conservation

4097

WR#

4

OWNERS NAME: Mark Wiechmann

OWNERS ADDRESS: Armour, SD
BB# A Box 24B

COUNTY LAND LOCATED IN: Charles Mix

PHONE: 384-5130

TENANT'S NAME AND ADDRESS:

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

1. WELL LOCATION Center - SW 1/4 Sec 21-97-63
Depth 235'

2. SURFACE WATER SOURCE AND DIVERSION LOCATION:

Diversion Location:

Legal Description	Acres	Legal Description	Acres
<u>SW 1/4 NE 1/4 21-97-63</u>	<u>40</u>		

3. SHOW ANY PORTION OF LAND THAT PRESENTLY HOLDS AN IRRIGATION PERMIT: YEAR OBTAINED 1968

LEGAL DESCRIPTION: SE 1/4, NE 1/4, NE 1/4, SE 1/4, W 1/2, SE 1/4, SW 1/4

IN WHAT NAME: 21-97-63 Clifford G. Hanson

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: _____ TOWLINE: _____ CENTER PIVOT: ☒ GUN: _____ OTHER: _____ (Specify)

6. CROPS TO BE IRRIGATED: Corn, Soybean, wheat, alfalfa, barley

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

7. WATER SAMPLE NUMBER: 82-1696

10. ADJUSTED (SAR): 8.49 (5.94)

8. SALINITY (EC X 10⁶): 2600

11. PERCENT SODIUM 30.94

9. SODIUM (SAR): 3.17

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: _____

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.

Signature

I understand that the Division of Conservation or agents thereof may obtain water samples from wells and surface bodies to be used for irrigation purposes to validate water samples taken at the time of application. The Department of Agriculture may also gather technical information necessary to protect the land. (46-5-6.4).

SUBSCRIBED AND SWORN BEFORE ME THIS

DAY OF May, 19 84

(NOTARY PUBLIC)

APPLICANT'S SIGNATURE

Director, Division of Conservation

Date

APPROVED

DISAPPROVED

CONDITIONALLY APPROVED

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.

Conditional soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.

Conditional Approval

#4097

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE
DIVISION OF CONSERVATION

NAME OF APPLICANT: Mark Weichman

LEGAL DESCRIPTION: SW $\frac{1}{4}$ NE $\frac{1}{4}$ 21-97-63 = 40 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 that conservation tillage practices be used to conserve soil moisture and soil erosion. Additional practices such as contour farming or possibly terraces should be considered for the area mapped as Clarac-Ethan loam 6-9 percent slopes (CcC) so reduce runoff.

We also recommend that in irrigating that the application be in excess of the plants need to achieve the necessary leaching of salts. You may find it beneficial to develop a soil monitoring plan which would indicate salt accumulation and allow you to modify your management plan as needed.

SIGNATURE Mark Weichman

DATE _____

Conversation or File Documentation

NAME OF PERSON OR FILE: Mark WiechmannADDRESS: RR 2, Armour SD 57313-9407 COUNTY Charles MixDATE: February 22, 1988 TELEPHONE _____RE: Conversation with Mark Wiechmann during office visit

COMMENTS:

Mark Wiechmann stopped by the office to determine the status of a water permit for the SW $\frac{1}{4}$ NE $\frac{1}{4}$ section 21-T97N-R63W. I told Mr. Wiechmann that the Soil/Water Compatibility Permit was approved; however, the water permit application was not processed due to lack of an application fee. I also told Mr. Wiechmann that a water appropriation (0.57 cfs) should be specified on the application to add 40 acres. Mr. Wiechmann agreed to the additional water appropriation and also stated that only the well in the SW $\frac{1}{4}$ is used to supply the pivot used to irrigate the additional acreage.

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: Ron Duval

Conversation or File Documentation

NAME OF PERSON OR FILE: Mark WiechmannADDRESS: RR 2, Box 24 B, Armour COUNTY Charles MixDATE: Apr. 12, 1988 TELEPHONE _____RE: Amendment to Application No. 5176-3

COMMENTS:

Mark Wiechmann stopped by the office to discuss changing the location of the diversion point specified on Appl. No. 5176-3. I told Mr. Wiechmann that I could amend the application to change the well location, plus add the 40 acres. I also told Mr. Wiechmann that soil/water compatibility would probably be needed for all the acreage because the well location (proposed) is over 2000 feet from the existing well. Mr. Wiechmann wanted to change the diversion point because the casing of the old well was in poor shape.

Mr. Wiechmann gave permission to change the well location to the proposed location and I also completed a soil/water application for Mr. Wiechmann. I also instructed Mr. Wiechmann to submit the test hole log. A water sample has been sent to Brookings. I also told Mr. Wiechmann to contact Jim Stukel and let me know if any problems existed with the soil/water application. If problems existed, then the water permit application could be changed to the original form.

replacement well

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: Ron Durrall

REPORT ON APPLICATION NO. 5176-3

Mark Wiechmann

May 31, 1988

This application proposes to appropriate an additional 0.57 cfs from an existing well 235 feet deep authorized by Permit No. 1632-3 to irrigate an additional 40 acres. The well is located near the center of the SW 1/4 and the additional acreage is located in the SW 1/4 NE 1/4; all in Section 21, T97N, R63W in Charles Mix County.

Aquifer - Choteau-West (CH-W)

The Choteau West (CH-W) consists of buried outwash and western origin stream deposits (Kume, 1977). The CH-W aquifer is under artesian conditions. The aquifer underlies 169,600 acres and contains an estimated 1.2 million acre-feet of water in storage in Charles Mix County (Hedges, 1982). The Division of Water Rights monitors 23 observation wells drilled into the Choteau-West Aquifer in Charles Mix County. One of the wells, CM-80C, is located approximately 1 1/2 miles southeast of this permit application. Records of water levels are available for this well since 1960 (Water Rights, 1988) and these records are included with this report.

An examination of the hydrograph reveals a yearly fluctuation of 20 to 30 feet due primarily to irrigation withdrawals. Historically, the trend of the water levels has been downward although this trend has reversed since 1984. The spring water levels of 1988 are about 10 feet below the highest ever recorded. This can be attributed to wet years which caused a decrease in pumping and potentially an increase for recharge. In 1986, 2811 acre feet (Irrigation Reports, 1988) of water were pumped from the CH-W Aquifer which basically caused no change in total storage in the aquifer. Accurate recharge rates have not been established for the CH-W Aquifer; however, the aquifer extent, thickness and characteristics are fairly well known. The CH-W is a portion of a large aquifer system underlying Charles-Mix, Douglas, Hutchinson, Bon Homme and Yankton counties. Also the CH-W is hydraulically connected to the Niobrara chalk and possibly the Codell sandstone. Recharge is occurring to the system, probably from two sources, first lateral leakage from bedrock aquifers and downward leakage through glacial till and second, underflow from Douglas and Hutchinson counties. The underflow probably makes up the bulk of the recharge.

Review of Existing Water Permits

There are 4 existing CH-W water permits within 2 miles of this application. These are Nos. 1884-3, 4744-3, 4878-3 and 4869-3. Permit No. 1884-3 has reported water use during 1984, 1985 and 1986. Permit No. 4744-3 reported water use in 1984 only and

Permit Nos. 4878-3 and 4869-3 did not report any water use for 1984, 1985 and 1986. Inspection work will be completed this summer in Charles Mix county and these permits may be licensed or cancelled if applicable.

Because there will be no basic change in diversion rate, interference although occurring will not be a problem. The Wiechmann well can only be used to irrigate one system at a time. The net result will be putting water on additional acres, pumping longer, but no change in actual diversion rate. I obtained this information by telephoning the applicant. Because the aquifer is under artesian conditions, pumping will affect water levels in the surrounding area. This fluctuation is not adversely affecting either adequate existing irrigation wells or domestic wells.

This area was controversial at one time, but the Division of Water Rights has not investigated a ground water problem in this area for many years.

Conclusions

1. Groundwater is available from the CH-W Aquifer.
2. The CH-W is under artesian conditions and drawdowns do occur as a result of pumping. Any interference will not adversely effect existing water permits or adequate domestic wells.
3. The soil water compatibility has been approved by the Conservation Commission.
4. This is a request for additional water from an existing well to irrigate 40 additional acres. Because of the physical nature of the diversion system no additional diversion rate will be used.
5. Recharge to the CH-W has not been quantified; however, it appears the 2811 acre-feet pumped in 1986 did not cause a net change in storage. The volume of water in storage is so large in comparison to the withdrawals that any comparison is misleading. The fluctuations caused by pumping are the result of aquifer characteristics (artesian) rather than what water is available. Historically, the water level trend was downward until 1984 and since that time water levels have generally risen. The records indicate present water usage is not adversely affecting the water supply of the CH-W aquifer. There is no estimate available for average annual recharge.


JAMES GOODMAN
Hydrologist

Bibliography

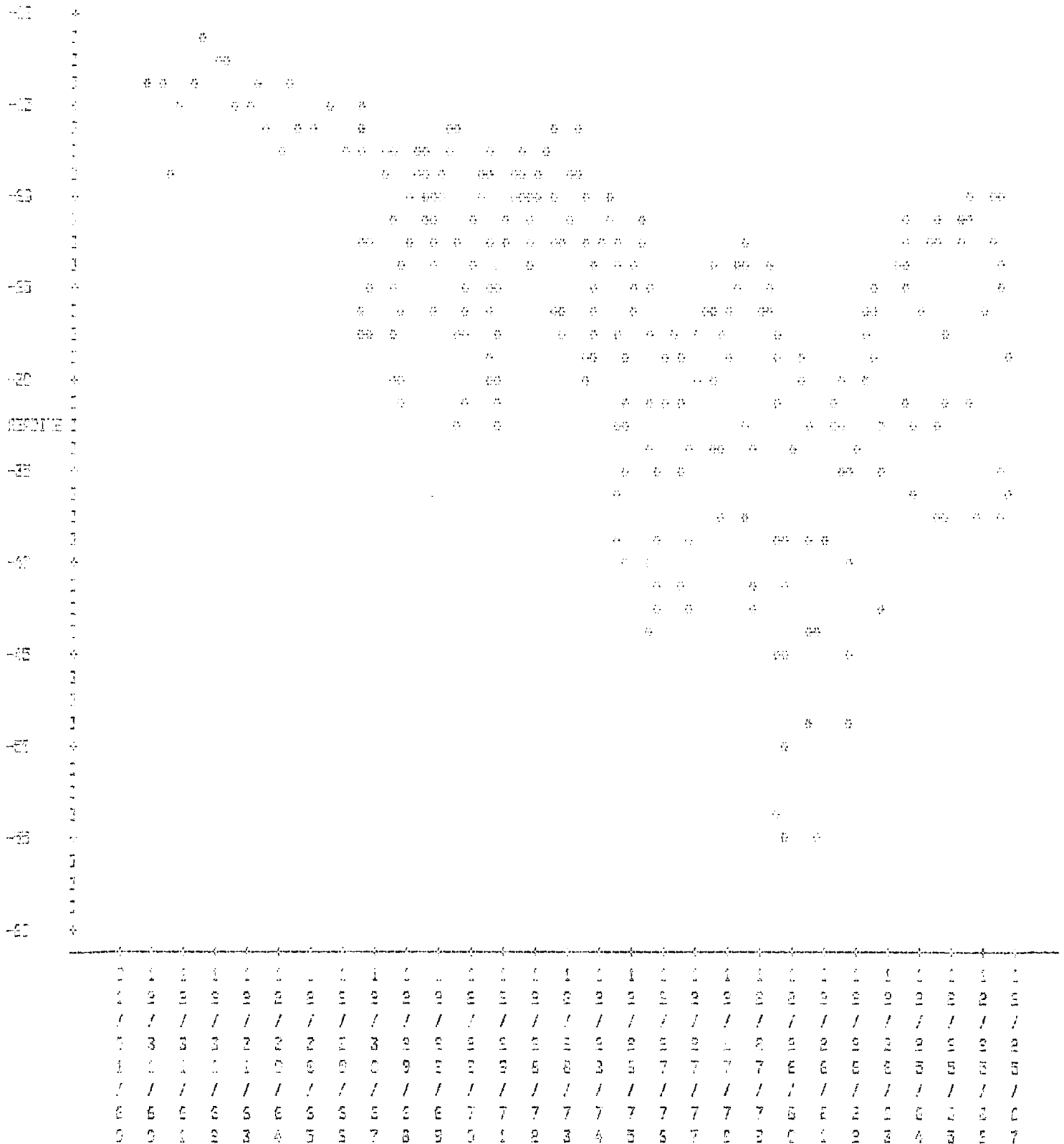
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ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED



2017年12月
 第10期

DATE: 50 DEC 1993

~~SECRET - NO FORN DISSEM~~

000	LOCATION	000	DATE	000	READING
1	057N-63W-330000	01-000	01/08/88	X	-13.3
2	057N-63W-330000	01-000	02/12/88	X	-13.0
2	057N-63W-330000	01-000	07/05/81	X	-13.0
4	057N-63W-330000	01-000	07/02/81	X	-13.3
5	057N-63W-330000	01-000	07/10/82	X	-13.4
6	057N-63W-330000	01-000	07/20/82	X	-13.7
7	057N-63W-330000	01-000	11/02/82	X	-13.0
8	057N-63W-330000	01-000	02/07/83	X	-13.7
9	057N-63W-330000	01-000	07/22/83	X	-14.7
10	057N-63W-330000	01-000	07/02/84	X	-14.7
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15	057N-63W-330000	01-000	02/11/85	X	-15.2
16	057N-63W-330000	01-000	12/01/85	X	-13.8
17	057N-63W-330000	01-000	03/01/86	X	-14.1
18	057N-63W-330000	01-000	02/04/86	X	-15.1
19	057N-63W-330000	01-000	11/17/86	X	-17.6
20	057N-63W-330000	01-000	03/25/87	X	-15.0
21	057N-63W-330000	01-000	05/12/87	X	-13.5
22	057N-63W-330000	01-000	07/02/87	X	-13.4
23	057N-63W-330000	01-000	07/13/87	X	-13.0
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28	057N-63W-330000	01-000	05/17/87	X	-16.9
29	057N-63W-330000	01-000	02/21/87	X	-17.5
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36	057N-63W-330000	01-000	06/07/88	X	-13.1
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39	057N-63W-330000	01-000	07/31/88	X	-13.5
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46	057N-63W-330000	01-000	11/12/89	X	-22.1
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51	057N-63W-330000	01-000	05/14/89	X	-13.1
52	057N-63W-330000	01-000	05/23/89	X	-17.7
53	057N-63W-330000	01-000	07/12/89	X	-15.5
54	057N-63W-330000	01-000	07/25/89	X	-19.2
55	057N-63W-330000	01-000	09/05/89	X	-10.1

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115	0570-020-020000	05-000	05/05/72	X	-18.4
116	0570-020-020000	05-000	05/06/72	X	-17.2
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118	0570-020-020000	05-000	05/08/72	X	-15.7
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121	0570-020-020000	05-000	05/11/72	X	-14.0
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125	0570-020-020000	05-000	05/15/72	X	-11.0
126	0570-020-020000	05-000	05/16/72	X	-10.2
127	0570-020-020000	05-000	05/17/72	X	-10.4
128	0570-020-020000	05-000	05/18/72	X	-07.0
129	0570-020-020000	05-000	05/19/72	X	-10.2
130	0570-020-020000	05-000	05/20/72	X	-10.5
131	0570-020-020000	05-000	05/21/72	X	-10.1
132	0570-020-020000	05-000	05/22/72	X	-10.9
133	0570-020-020000	05-000	05/23/72	X	-10.5
134	0570-020-020000	05-000	05/24/72	X	-10.2
135	0570-020-020000	05-000	05/25/72	X	-10.7
136	0570-020-020000	05-000	05/26/72	X	-10.7
137	0570-020-020000	05-000	05/27/72	X	-10.5
138	0570-020-020000	05-000	05/28/72	X	-10.1
139	0570-020-020000	05-000	05/29/72	X	-10.2
140	0570-020-020000	05-000	05/30/72	X	-10.8
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142	0570-020-020000	05-000	05/01/73	X	-10.0
143	0570-020-020000	05-000	05/02/73	X	-10.6
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145	0570-020-020000	05-000	05/04/73	X	-10.7
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148	0570-020-020000	05-000	05/07/73	X	-10.2
149	0570-020-020000	05-000	05/08/73	X	-10.0
150	0570-020-020000	05-000	05/09/73	X	-10.5
151	0570-020-020000	05-000	05/10/73	X	-10.4
152	0570-020-020000	05-000	05/11/73	X	-10.1
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157	0570-020-020000	05-000	05/16/73	X	-10.2
158	0570-020-020000	05-000	05/17/73	X	-10.0
159	0570-020-020000	05-000	05/18/73	X	-10.0
160	0570-020-020000	05-000	05/19/73	X	-10.0
161	0570-020-020000	05-000	05/20/73	X	-10.0
162	0570-020-020000	05-000	05/21/73	X	-10.0
163	0570-020-020000	05-000	05/22/73	X	-10.0

Q88	LOCATION	DOB	DOB_CELL	DATE	AGE	REMARKS
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167	087N-52W-220000 1	01-000	01-000	02/01/76	X	-26.0
168	087N-52W-220000 1	01-000	01-000	02/01/76	X	-26.2
169	087N-52W-220000 1	01-000	01-000	01/02/76	X	-26.7
170	087N-52W-220000 1	01-000	01-000	05/02/76	X	-26.7
171	087N-52W-220000 1	01-000	01-000	05/05/76	X	-27.2
172	087N-52W-220000 1	01-000	01-000	06/05/76	X	-27.5
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186	087N-52W-220000 1	01-000	01-000	07/17/77	X	-25.2
187	087N-52W-220000 1	01-000	01-000	07/25/77	X	-26.7
188	087N-52W-220000 1	01-000	01-000	08/07/77	X	-26.2
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279	0570-020-020000 1	05-000	05/07/00	X	-20.0
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284	0570-020-020000 1	05-000	05/12/00	X	-20.0
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286	0570-020-020000 1	05-000	05/14/00	X	-20.0
287	0570-020-020000 1	05-000	05/15/00	X	-20.0
288	0570-020-020000 1	05-000	05/16/00	X	-20.0
289	0570-020-020000 1	05-000	05/17/00	X	-20.0
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306	0570-020-020000 1	05-000	06/03/00	X	-20.0
307	0570-020-020000 1	05-000	06/04/00	X	-20.0
308	0570-020-020000 1	05-000	06/05/00	X	-20.0
309	0570-020-020000 1	05-000	06/06/00	X	-20.0
310	0570-020-020000 1	05-000	06/07/00	X	-20.0
311	0570-020-020000 1	05-000	06/08/00	X	-20.0
312	0570-020-020000 1	05-000	06/09/00	X	-20.0
313	0570-020-020000 1	05-000	06/10/00	X	-20.0
314	0570-020-020000 1	05-000	06/11/00	X	-20.0
315	0570-020-020000 1	05-000	06/12/00	X	-20.0
316	0570-020-020000 1	05-000	06/13/00	X	-20.0
317	0570-020-020000 1	05-000	06/14/00	X	-20.0
318	0570-020-020000 1	05-000	06/15/00	X	-20.0
319	0570-020-020000 1	05-000	06/16/00	X	-20.0

16 215

LINE	DESCRIPTION	DATE	DATE	AGE	REMARKS
201	057N-62W-227000 1	01-010	03/13/60	X	-27.7
202	057N-62W-227100 1	01-010	03/13/60	X	-28.3
203	057N-62W-227200 1	01-010	15/17/60	X	-29.7
204	057N-62W-227300 1	01-010	07/01/60	X	-30.1
205	057N-62W-227400 1	01-010	07/17/60	X	-31.5
206	057N-62W-227500 1	01-010	07/23/60	X	-32.6
207	057N-62W-228000 1	01-010	05/12/60	X	-34.5
208	057N-62W-228100 1	01-010	05/26/60	X	-35.1
209	057N-62W-228200 1	01-010	01/12/60	X	-36.2
210	057N-62W-228300 1	01-010	05/30/60	X	-37.4
211	057N-62W-228400 1	01-010	10/02/60	X	-38.5
212	057N-62W-228500 1	01-010	12/15/60	X	-39.5
213	057N-62W-229000 1	01-010	05/07/61	X	-40.5
214	057N-62W-229100 1	01-010	07/01/61	X	-41.9
215	057N-62W-229200 1	01-010	07/10/61	X	-42.5
216	057N-62W-229300 1	01-010	07/29/61	X	-43.3
217	057N-62W-229400 1	01-010	10/12/61	X	-44.1
218	057N-62W-229500 1	01-010	05/09/61	X	-45.4
219	057N-62W-229600 1	01-010	10/22/61	X	-46.9
220	057N-62W-229700 1	01-010	12/13/61	X	-48.2
221	057N-62W-229800 1	01-010	03/13/62	X	-49.1
222	057N-62W-229900 1	01-010	04/05/62	X	-50.2
223	057N-62W-230000 1	01-010	05/10/62	X	-51.3
224	057N-62W-230100 1	01-010	07/02/62	X	-52.3
225	057N-62W-230200 1	01-010	07/27/62	X	-53.3
226	057N-62W-230300 1	01-010	11/16/62	X	-54.5
227	057N-62W-230400 1	01-010	15/16/62	X	-55.3
228	057N-62W-230500 1	01-010	08/26/62	X	-56.2
229	057N-62W-230600 1	01-010	09/12/62	X	-57.3
230	057N-62W-230700 1	01-010	10/02/62	X	-58.1
231	057N-62W-230800 1	01-010	11/27/62	X	-59.1
232	057N-62W-230900 1	01-010	03/01/63	X	-60.4
233	057N-62W-231000 1	01-010	04/04/63	X	-61.3
234	057N-62W-231100 1	01-010	05/05/63	X	-62.4
235	057N-62W-231200 1	01-010	12/12/63	X	-63.5
236	057N-62W-231300 1	01-010	05/01/63	X	-64.5
237	057N-62W-231400 1	01-010	05/27/63	X	-65.5
238	057N-62W-231500 1	01-010	10/25/63	X	-66.1
239	057N-62W-231600 1	01-010	04/15/64	X	-67.1
240	057N-62W-231700 1	01-010	07/13/64	X	-68.2
241	057N-62W-231800 1	01-010	13/30/64	X	-69.7
242	057N-62W-231900 1	01-010	03/12/64	X	-70.1
243	057N-62W-232000 1	01-010	05/17/64	X	-71.2
244	057N-62W-232100 1	01-010	07/10/64	X	-72.7
245	057N-62W-232200 1	01-010	07/24/64	X	-73.5
246	057N-62W-232300 1	01-010	08/08/64	X	-74.5
247	057N-62W-232400 1	01-010	10/01/64	X	-75.3

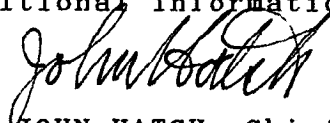
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5176-3, Mark Wiechmann

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. 5176-3, Mark Wiechmann, RR 2, Armour SD.

The Chief Engineer is recommending APPROVAL of Application No. 5176-3 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:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. This permit is approved subject to the irrigation water use questionnaire being submitted each year.

See the attached report for additional information.


JOHN HATCH, Chief Engineer
June 6, 1988

Instruction to Newspaper - Publish first Notice on or before June 14, 1988
with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5176-3 to Appropriate Water
~~and/or to Amend Water Permit or Water Right No. _____~~

Notice is given that Mark Wiechmann,
RR 2, Armour, South Dakota has filed an application for a water permit

to appropriate 0.57 cubic feet of water per second from 1 well (Choteau-West) 235 feet deep to irrigate 40 acres. This application is for an additional water appropriation from the well authorized by Permit No. 1632-3 to irrigate 40 additional acres. The well is located near the center of the SW $\frac{1}{4}$ and the additional acreage is located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$; all in Section 21-T97N-R63W.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5176-3 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. This application will be considered by the Water Management Board in room 216, Joe Foss Building, 523 E. Capitol, Pierre, SD on July 27, 1988 at 10:00 am. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer or 4) deny this application based on the facts presented at the public hearing.

Any interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by July 15, 1988. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD (605 773-3352)". 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 legal counsel if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.

This hearing is an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by July 15, 1988.

This application is made pursuant to 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)~~ 46-5-33 thru 46-5-35; ~~(10,000 AF)~~ 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 AF)~~ 74:02:01:15:02 thru 74:02:01:15:05.

No. 5176-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Charles Mix) ss.

I, John Faughender hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Wagner Post

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the _____

city of Wagner
County of Charles Mix and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:

June 15, 1988

June 22, 1988

John Faughender
(Signature)

Owner
(Title)

6-22-88
(Date Signed)

Cost of Printing: \$34.54
1 line @ 43.6¢; 86 @ 21.8¢; 2 times

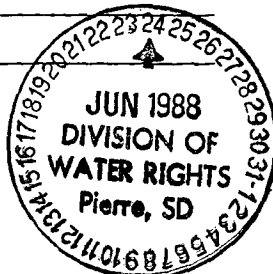
Public notice

NOTICE OF HEARING
on Application No. 5176-3
to Appropriate Water

Notice is given that Mark Wiechmann, RR 2, Armour, South Dakota has filed an application for a water permit to appropriate 0.57 cubic feet of water per second from 1 well (Choteau-West) 235 feet deep to irrigate 40 acres. This application is for an additional water appropriation from the well authorized by Permit No. 1632-3 to irrigate 40 additional acres. The well is located near the center of the SW $\frac{1}{4}$ and the additional acreage is located in the SW $\frac{1}{4}$ NE $\frac{1}{4}$; all in Section 21-T97N-R63W.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5176-3 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. This application will be considered by the Water Management Board in room 216, Joe Foss Building, 523 E. Capitol, Pierre, SD on July 27, 1988 at 10:00 a.m. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer or 4) deny this application based on the facts presented at the public hearing.

Any interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by July 15, 1988. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E. Capitol, Pierre, SD (605-773-3352)". 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 legal counsel if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.



This hearing is an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by July 15, 1988.

This application is made pursuant to 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.
Pub. June 15, 22, 1988

SOUTH Dakota Department of
Water & Natural Resources

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

DEC 1 1988

Mark Weichmann
RR 2, Box 24 B
Armour, South Dakota 57313-9407

Dear Mr. Weichmann:

Enclosed is Water Permit No. 5176-3 as approved by the Water Management Board authorizing you to construct your water diversion system and put the water to beneficial use, not exceeding the limits as specified in Water Permit No. 5176-3.

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 the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,



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

JH: ms

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.

**Department of
Water & Natural Resources**

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

February 17, 1989

Mark Wiechmann
RR 2, Box 24B
Armour, SD 57313

Dear Mr. Wiechmann:

On October 6, 1988, the Water Management Board adopted rules to implement a 1988 law for application of chemicals through irrigation systems. The rules establish equipment standards, performance standards and installation requirements for irrigation systems that apply chemicals (fertilizers, insecticides, or herbicides) with irrigation water.

You have indicated on your 1988 Water Management Board Irrigation Questionnaire that you do apply chemicals with irrigation water. A copy of the new rules for chemigation are enclosed for your information.

The new standards include:

- * a check valve between the irrigation pump and the point of chemical injection;
- * a vacuum relief valve on top of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a low-pressure drain on the bottom of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a chemical injection line check valve between the chemical injection pump and the point at which the chemical is injected into the irrigation line; a second check valve is required if the chemical injection pump is not a positive displacement pump;
- * an interlock system which ensures that the chemical injection pump will stop whenever the irrigation pump stops;
- * an inspection port between the irrigation pump and the check valve on the irrigation line;



Each of these equipment requirements are discussed more thoroughly in Sections 74:02:09:05 through 74:02:09:10 of the enclosed rules. Appendix A contains diagrams of the arrangements of these anti-pollution devices.

The equipment must be installed according to the manufacturer's specifications, calibrated, and maintained in good working condition. All chemical product labels must be followed and warning signs must be posted. These rules also require reporting of all spills, accidents, and system malfunctions. A 24-hour telephone number is provided.

The chemigation rules contain notification and record keeping requirements. Prior to using chemigation, notification must be given to the Chief Engineer on the enclosed Form 1C. Information that must be provided in this notification includes the water permit or right number, the name, address, and telephone number of the water permit or right holder and of the system operator, and the legal description of the lands on which the system is located. A record of the name, quantity, dates and hours of each chemical applied must be provided to the Chief Engineer on Form 2C. A copy of this form is also enclosed for your information. It will be mailed with the annual irrigation questionnaire and must be returned with the questionnaire by the date specified. If you have any questions regarding these rules or need additional copies of the forms, please contact Susan Bowar, Water Rights Engineer (605-773-3352).

Very truly yours,

for 
JOHN HATCH, Chief Engineer
Water Rights Division

Permit No. 5176-3
Missouri River - 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 Mark Wiechmann of RR2 Box 24B, Armour, SD 57313 holder of Permit Nos. 1632-3, 1632-3A & 5176-3, bearing the priority of October 23, 1968 (established by Water Permit No. 1632-3 to include 1632-3A & March 16, 1988 (established by Water Permit No. 5176-3) authorizing the diversion of 2.28 (1632-3) & 0.57 (5176-3) cu. ft. of water per second from groundwater for irrigation purposes, in Charles Mix County.

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

A. Works used to divert the water:**WELL INFORMATION:****Casing:**

- 1) Diameter 16 inches
- 2) Length 130 feet
- 3) Type PVC

Pump:

- 1) Make Aurora
- 2) Model 37870054
- 3) Capacity 800 GPM

Screen:

- 1) Type Stainless steel
- 2) Length 40 feet
- 3) Static water level 50 feet

Motor:

- 1) Make US Electrical
- 2) Model No. 364TP
- 3) Horsepower rating 60 hp

B. Works used to transport water to place of use:**DISTRIBUTION LINE:**

- 1) Type ALU
- 2) Size 8 inches
- 3) Length 3000 feet

C. Works used to apply water to beneficial use:**SYSTEM TYPE:****Center pivot #1: (SW1/4)**

- 1) Make Valley (Water Drive)
- 2) Overall length 1320 feet
- 3) Number of towers 11
- 4) Distance between towers 120 feet
- 5) End gun Y
- 6) High or low pressure High
- 7) Capacity 800 GPM

Center pivot #2:

- 1) Make Valley
- 2) Overall length 1320 feet
- 3) Number of towers 10
- 4) Distance between towers 132 feet
- 5) End gun Y
- 6) High or low pressure High
- 7) Capacity 800 GPM

The system is in the following condition good. The point of diversion is located 2150' N 52 degrees E from the SW corner of Section 21 T97N-R63W (NE1/4 SW1/4). The works are capable of diverting and conveying to the place of use 1.77 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:

T97N-R63W

SECTION 21

<u>NW1/4 SW1/4</u>	<u>27 acres</u>
<u>NE1/4 SW1/4</u>	<u>39 acres</u>
<u>SW1/4 SW1/4</u>	<u>23 acres</u>
<u>SE1/4 SW1/4</u>	<u>38 acres</u>
<u>SW1/4 NE1/4</u>	<u>34 acres</u>
<u>SE1/4 NE1/4</u>	<u>34 acres</u>
<u>NW1/4 SE1/4</u>	<u>38 acres</u>
<u>NE1/4 SE1/4</u>	<u>34 acres</u>
<u>SW1/4 SE1/4</u>	<u>6 acres</u>

comprising a total of 273 acres of land and the license should be issued for 1.77 cfs.

**** NOTE:** Only one center pivot may be operated at a time under this system. Water Permit Nos. 1632-3 & 1632-3A will be incorporated into this Water Permit No. 5176-3 during licensing.

Applicable permit qualifications have been complied with: Yes X No

Exceptions to compliance are: None Date: June 28, 1993



Barry A. McLaury
Natural Resources Analyst
DENR, Water Rights Division

REPORT ON INSPECTION OF PERMIT NO. 5176-3

DATE: June 28, 1993

Other permit(s) associated with the project: 1632-3 & 1632-3A

DIVERSION POINT LEGAL LOCATION: 2150' N 52 degrees E from the SW corner of Section 21 T97N-R63W (NE1/4 SW1/4).

WELL INFORMATION:

- 1) Well Driller: Pullman Well Drilling
- 2) No. of Wells 1
- 3) Depth(s) 170 feet
- 4) Well log is available Y

Casing:

- 1) Diameter 16 inches
- 2) Length 130 feet
- 3) Type PVC

Screen:

- 1) Type Stainless steel
- 2) Length 40 feet
- 3) Static water level 50 feet

Pump:

- 1) Make Aurora
- 2) Model 37870054
- 3) Size 8 inches
- 4) Capacity 800 GPM

Motor:

- 1) Make US Electrical
- 2) Model No. 364TP
- 3) Horsepower rating 60 hp

DISTRIBUTION LINES:

- 1) Type ALU
- 2) Size 8 inches
- 3 Length 3000 feet

SYSTEM TYPE:

Center pivot #1: (SW1/4)

- 1) Make Valley (Water Drive)
- 2) Overall length 1320 feet
- 3) Number of towers 11
- 4) Distance between towers 120 feet
- 5) End gun Y
- 6) High or low pressure High
- 7) Capacity 800 GPM

Center pivot #2:

- 1) Make Valley
- 2) Overall length 1320 feet
- 3) Number of towers 10
- 4) Distance between towers 132 feet
- 5) End gun Y
- 6) High or low pressure High
- 7) Capacity 800 GPM

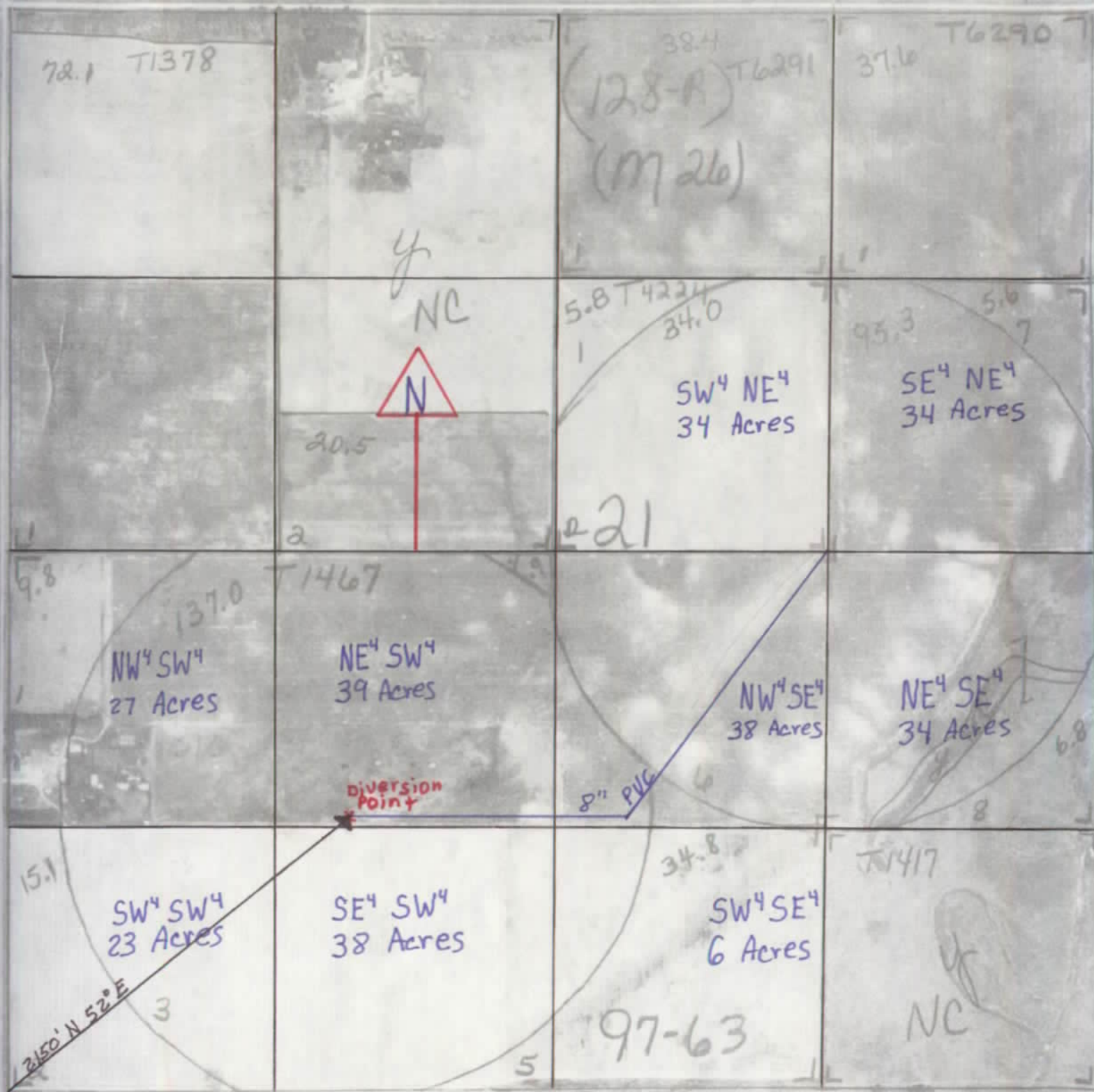
CHEMIGATION EQUIPMENT:

- 1) Does chemigate Y
- 2) Main line check valve Y
- 3) Inspection port/air relief Y
- 4) Low pressure drain Y
- 5) Discharge is 20' from source Y
- 6) Interlock type Electrical
- 7) Injection pump type Piston pump
- 8) Injection check valve Y
- 9) Injection line check valve or positive displacement pump Y
- 10) All chemigation equipment appears to be installed in the proper position and complies with chemigation laws and rules Y

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
- ** NOTE:** Only one center pivot may be operated at a time under this system. Water Permit Nos. 1632-3 & 1632-3A will be incorporated into this Water Permit No. 5176-3 during licensing.

NOT TO SCALE



Barry McLaury *Barry M. McLaury*
Natural Resources Analyst
Division of Water Rights
Date November 21, 1993

5176-3



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

April 6, 1994

Permit No. 5176-3

Mark Wiechmann
RR 2, Box 24B
Armour, SD 57313

Dear Mr. Wiechmann:

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 Nos. 1632-3, 1632-3A and 5176-3, has been completed. Your final water right document, the Water License, can now be issued. Upon licensing, the applicable portions of Water Permit Nos. 1632-3 and 1632-3A will be incorporated into 5176-3.

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

414139

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, _____ April 20, 19 94

RECEIVED OF Mark Wiechmann, RR 2 Box 24B, Armour, SD 57313

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>5176-3</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

STATE OF SOUTH DAKOTA
WATER LICENSE NO. 5176-3

(1) Mark Wiechmann, RR 2, Box 24B, Armour SD 57313 made Application No. 5176-3, May 8, 1984 for a water permit to appropriate 0.57 cubic feet of water per second from groundwater (one well), Charles Mix County, South Dakota for irrigation purposes. Permit No. 5176-3, with a priority date of March 16, 1988 was approved July 27, 1988 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 27, 1993 and for the application to beneficial use of said water on or before July 27, 1997.

Water Permit No. 5176-3 authorized diversion of an additional 0.57 cfs from the well authorized by Water Permit No. 1632-3 to irrigate an additional 40 acres. Water Permit No. 1632-3A corrected the location of the well authorized by No. 1632-3. Water Permit Nos. 1632-3 and 1632-3A were readvertised March 16 and 23, 1994 to correct an error on both original notices of hearing in the legal description of a portion of the irrigated acres. The land was described as being in "SE 1/4 NW 1/4" and should have been "SE 1/4 NE 1/4". The readvertisement of the original notice of hearing did not authorize any increase in the developed water appropriation or irrigated acreage.

The applicable portions of Water Permit Nos. 1632-3 and 1632-3A have been incorporated into this Water License No. 5176-3. Priority dates are described in (3) of this license.

(2) It is certified that the applicant has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.77 cubic feet of water per second for beneficial use. The location of the diversion point is 2150 feet N 52 degrees E from the SW corner of Section 21-T97N-R63W (NE 1/4 SW 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 the following land:

T97N-R63W	Section 21	NW 1/4 SW 1/4	27 acres
		NE 1/4 SW 1/4	39 acres
		SW 1/4 SW 1/4	23 acres
		SE 1/4 SW 1/4	38 acres
		SW 1/4 NE 1/4	34 acres
		SE 1/4 NE 1/4	34 acres
		NW 1/4 SE 1/4	38 acres
		NE 1/4 SE 1/4	34 acres
		SW 1/4 SE 1/4	6 acres
		Total	273 acres

PRIORITY DATES: **March 16, 1988 (established under No. 5176-3) for SW 1/4 NE 1/4 Section 21**
 October 23, 1968 (established under No. 1632-3) for remaining lands in Section 21

(continued)

Water License No. 5176-3
Mark Wiechmann
Page 2

(4) Pursuant to South Dakota Water Law 46-5-30.1 Mark Wiechmann of RR 2, Box 24B, Armour SD 57313 the holder and/or owner of Incorporated Water Permit No. 5176-3 is issued a license to appropriate water, the right to use 1.77 cubic feet of water per second from groundwater (one well) with priority dates of October 23, 1968 and March 16, 1988 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 Incorporated Water Permit No. 5176-3 and subject to South Dakota State Law.



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

NOV 14 1994

date



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

NOV 14 1994

5176-3

Mark Wiechmann
RR 2, Box 24B
Armour, SD 57313

Dear Mr. Wiechmann:

Enclosed is Water License No. 5176-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 414139 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

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. 5176-3, 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.

Very truly yours,

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

rd
enclosures

NOTE: The applicable portions of Water Permit Nos. 1632-3 and 1632-3A have been incorporated into this Water License No. 5176-3.

5176-3



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

NOV 19 2004

5839-3

Mark Wiechmann
28870 394th Ave
Armour SD 57313

Dear Mr. Wiechmann:

Enclosed is Water License No. 5839-3. This is the final water right document completing your process of obtaining a Water Right. Also enclosed is a map of the area prepared by the staff engineer who conducted the field investigation.

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. 5839-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

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

enclosures

Note: The application portions of Water Right No. 5176-3 were incorporated into Water License No. 5839-3.

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 5839-3**

(1) Mark Wiechmann, 28870 394th Ave, Armour SD 57313 made Application No. 5839-3, November 8, 1994 for a water permit to divert 1.77 cubic feet of water per second from ground water (one existing well – Choteau West Aquifer), Charles Mix County, South Dakota for irrigation purposes. Permit No. 5839-3, with a priority date of November 8, 1994 was approved January 27, 1995 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before January 27, 2000 and for the application to beneficial use of water on or before January 27, 2004.

The land authorized for irrigation under Water Right No. 5176-3 and Water Permit No. 5839-3 are operated as one system utilizing the same well. The applicable portions of Water Right No. 5176-3 are incorporated into Water License No. 5839-3. The priority dates, as they pertain to the acreage irrigated, are described below.

(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, Mark Wiechmann the holder and/or owner of Water Right No. 5839-3 is issued a license, bearing priority dates of October 23, 1968, March 16, 1988 and November 8, 1994 to appropriate 1.77 cubic feet of water per second from ground water (one well – Choteau West Aquifer) to irrigate 398 acres.

The diversion point is located 1,325'N & 1,600'E of the SW corner of Section 21, T97N, R63W (NE ¼ SW ¼).

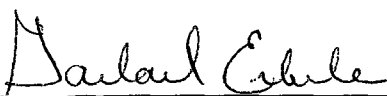
The 398 acres authorized for irrigation are as follows: all in **Section 21, T97N, R63W**

Legal Description		Priority date	Legal Description		Priority date
NW ¼ SW ¼	27 acres	October 23, 1968	SE ¼ NE ¼	34 acres	October 23, 1968
NE ¼ SW ¼	39 acres	October 23, 1968	SW ¼ NE ¼	34 acres	March 16, 1988
SW ¼ SW ¼	23 acres	October 23, 1968			
SE ¼ SW ¼	38 acres	October 23, 1968	NW ¼ NW ¼	33 acres	November 8, 1994
NW ¼ SE ¼	38 acres	October 23, 1968	NE ¼ NW ¼	26 acres	November 8, 1994
NE ¼ SE ¼	34 acres	October 23, 1968	SW ¼ NW ¼	33 acres	November 8, 1994
SW ¼ SE ¼	6 acres	October 23, 1968	SE ¼ NW ¼	33 acres	November 8, 1994

Priority dates: October 23, 1968 established under No. 1632-3; March 16, 1988 established under No. 5176-3 and November 8, 1994 established under No. 5839-3.

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Incorporated Water Permit Nos. 5176-3 and 5839-3 including the following qualifications:

- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



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

NOV 19 2004

date

