

WATER PERMIT NO. 5861-3

Phone: 612-330-5500

Name of Applicant: Northern States Power Company

Post Office Address: 414 Nicollet Mall, Minneapolis MN 55401-1927

Amount of Water Claimed: 1.44 add'l cfs Total Acres: NA

Source of Water Supply: groundwater

Water to be used for: industrial County: Minnehaha

Location: east of Sioux Falls

PRIORITY Date Received: 12-23-94 Fee: \$400.00

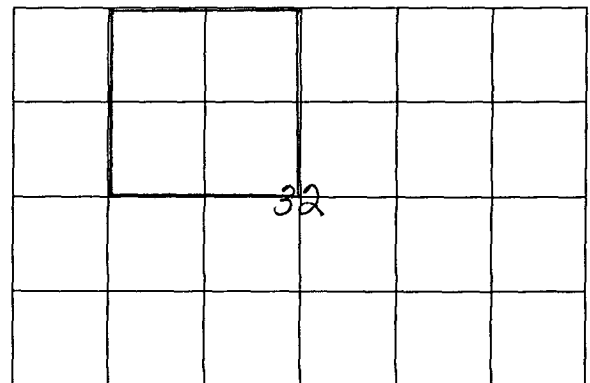
Corrected Application Received: 4-14-95 Period of Annual Use: Jan 1 - Dec 31

Remarks: Replacement for the well authorized by Water Permit Nos. 742-3 and 5597-3.

This application also requests to increase the diversion rate for a total diversion of
1.77 cfs.

Diversion Point: NW 1/4 Sec 32-T102N-R48W

Land to be Irrigated: _____



Well Log: Driller: _____ Licensed: YES _____ NO _____

Depth of Well: approx. 222 feet REMARKS: _____

Type of Map: _____ Prepared By: Douglas N. Berkland Reviewed and the Number

Assigned on: 4-14-95 By: Karen Schlaak

SOUTH DAKOTA WATER PERMIT NO. 5861-3

Date of first receipt of application December 23, 1994.

Date of return to applicant for corrections, amendments or changes January 5, 1995.

Date of receipt of corrected application April 13, 1995.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 5861-3 to Northern States Power Company, 414 Nicollet Mall, Minneapolis MN 55401-1927 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

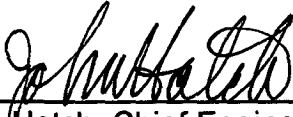
1. Water Permit No. 5861-3 appropriates 1.44 cubic feet of water per second (cfs) by increasing the diversion rate authorized by Water Permit Nos. 742-3 and 5597-3. Water Permit Nos. 742-3 and 5597-3, combined, appropriate 0.33 cfs from one well located in the NE 1/4 NE 1/4 Section 31-T102N-R48W. This permit authorizes a replacement well approximately 222 feet deep (Split Rock Creek Aquifer) located in the NW 1/4 Section 32-T102N-R48W and increases the water appropriation from 0.33 cfs to 1.77 cfs. Water will be used for industrial purposes as the power plant's sanitary source of water and as a backup water supply for main plant operations.
2. The water appropriated shall be used for the purpose of supplying water for industrial use and may not exceed the amount of water needed for beneficial use for industrial use purposes.
3. The water is to be used during the following described annual period: January 1 - December 31.
4. The date of approval of Permit No. 5861-3 is July 17, 1995.
5. The date from which applicant may claim right is April 13, 1995.
6. One-fifth of the construction is to be completed on or before January 17, 1998.
7. All construction is to be completed on or before July 17, 2000.
8. Water is to be put to beneficial use on or before July 17, 2004.
9. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 5861-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.

3. That Northern States Power Company shall report to the chief engineer annually the amount of water withdrawn each year from the Split Rock Creek Aquifer.

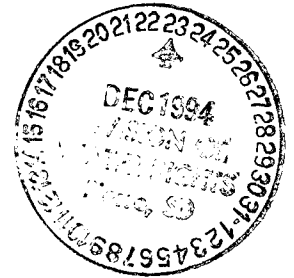
WATER MANAGEMENT BOARD

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

SEP 5 1995
date

(type or print)

No. 5861-3 Hydrologic Unit 10170203
Basin Big Sioux River
Newspaper Argus Leader, P.O. Box 5034, SF
(office use only)



Notary Public
My Commission Expires 3-30-2001

Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction - *estimated based on primary industrial use well*

- a) Drill Hole Diameter 25 inches Depth 222 feet
- b) Casing Type Standard Steel Diameter 12 inches Thickness 3/8 inch
- c) Screen Type Stainless Steel Diameter 12 inches Thickness not known
- d) Gravel Pack Thickness 12 inches Length of Gravel Pack 60 feet
- e) Depth to Top of Water Bearing Material unknown
- f) Depth to Water (ground surface to water level) 60 feet
- g) Distance to nearest existing domestic well:

On applicants property ~2000 feet On property owned by others ~ 1/2 mile

2. Dugout Information *Not applicable*

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

3. Water Storage Dams *Not applicable*

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

b) Freeboard _____

c) Crest Width _____

Crest Length _____

d) Height _____

e) Primary Outlet Capacity _____

If pipe, diameter _____

f) Secondary Spillway Capacity _____

Spillway Width _____

g) X & Y Slope

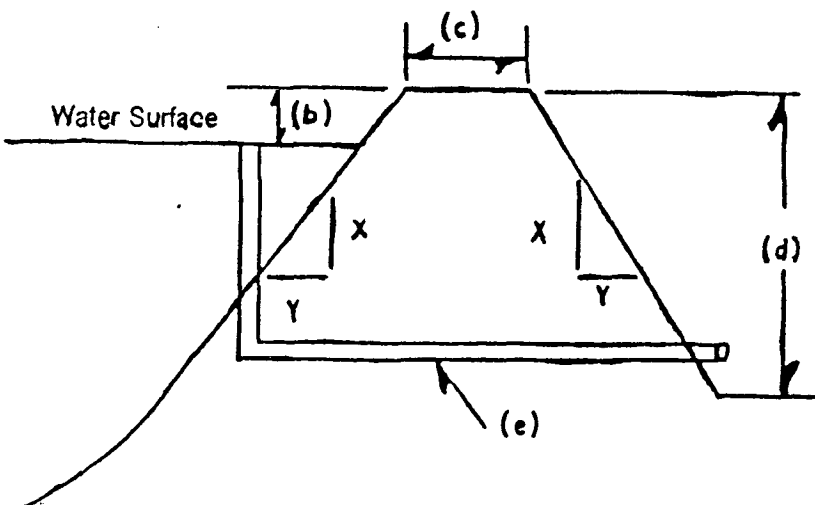
Upstream _____

Downstream _____

h) Surface Area of Impoundment _____

i) Storage _____ Acre Feet

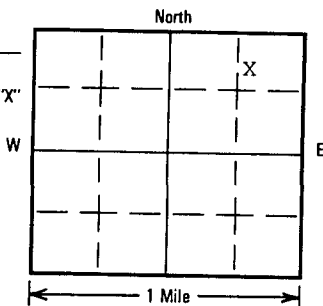
j) Drainage Area Above Dam _____ Acres



4861-3

Location NA^W ¼ NA^W ¼ Sec 36² Twp 102 Rg 49 S 12 R^W Well Owner: Northern States Power Company
County Minnehaha North Business Name: _____
Address: 414 Nicollet Mall
Minneapolis MN 55401

Please mark well location with an "X"



Well Completion Date 9-30-97

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 2500 ft. from Septic (identify source).

☐ Domestic/Stock ☒ Municipal ☐ Business ☐ Test Holes
☐ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

Rotary

If other describe stainless steel screen

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
49.56 LB/FT	12 IN	0 FT	147 FT	26 IN
30.4 SS LB/FT	12 IN	147 FT	177 FT	26 IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

Grout Type	No. of Sacks	Grout Weight	From	To
Portland	200	_____ lb./gal	0 ft	100 ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure Triemle pipe

Diameter 12 IN Length 30 FEET

Material stainless steel
Slot Size 50 Set From 147 Feet to 177 Feet

Other information

If so, what material? Bentontite

Describe packer(s) and location? 100 - 120'

Was well disinfected upon completion? X YES, How: HTH

_____ NO, Why Not?

Laboratory sent to for water quality analysis Pierre, SD

DEPTH

[illegible]

Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

☒ Pumped Describe: line shaft turbine☐ Bailed☐ Other

Pumping Level Below Land Surface

135 ft. After 12 Hrs. pumped 400 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS



This well was drilled under license # 94

And this report is true and accurate.

Drilling firm Huron Drilling Inc.

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder: _____

Date: 9-30-97

SOUTH DAKOTA WELL AND TEST HOLE PLUGGING REPORT

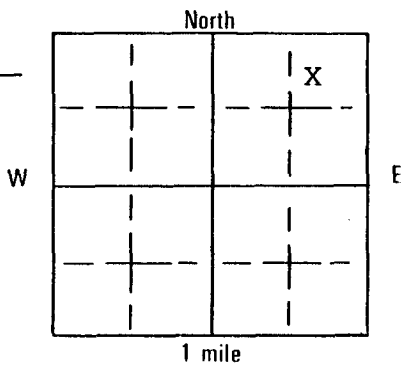
742-3

10-85

Location NE 1/4 NE 1/4 Sec 35 Twp 102 Rg 49 1/2

County Minnehaha

Please mark well location with an "X"



Well Owner:

Name Northern States Power Company

Address 414 Nicollet Mall

Minneapolis, MN 55401

Plugging completion Date 9-30-97

CHECK APPROPRIATE BOX

EXISTING WELL ☒

TEST HOLE ☐

Well depth 177'

Hole depth _____

Casing material steel

Hole size _____

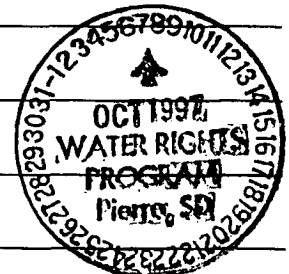
Casing size(s) 12" 8"

Casing condition Poor

Describe plugging procedure: Run 2" line to bottom of said well - pumped in 100 bags

Portland cement

Describe grout or plugging material: Portland cement 6 to 1 mix



Type of non-slip plug: _____

This well or test hole was plugged under license # 94 And this report is true and accurate.

Drilling firm Huron Drilling, Inc.

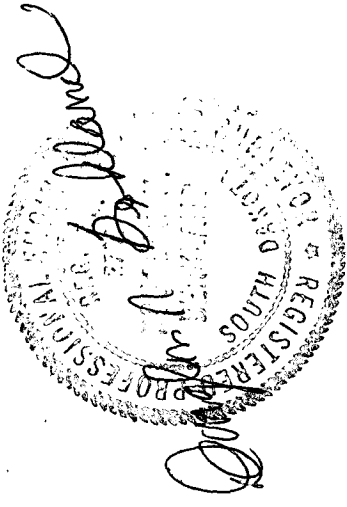
Signature of Licensed Representative _____

Signature of Well Owner _____

Date 9-30-97

46° 36' 03" 43° 37' 30"

NORTH

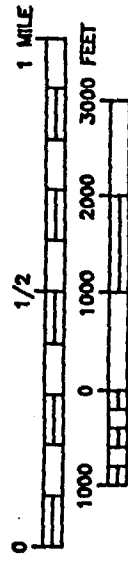


Reference:

USGS 7.5 minute Quadrangle
Topographic Series

Sioux Falls East, South Dakota
1962 (Photorevised 1971 & 1976)
and Brandon, South Dakota
1962 (Photorevised 1976)

Key



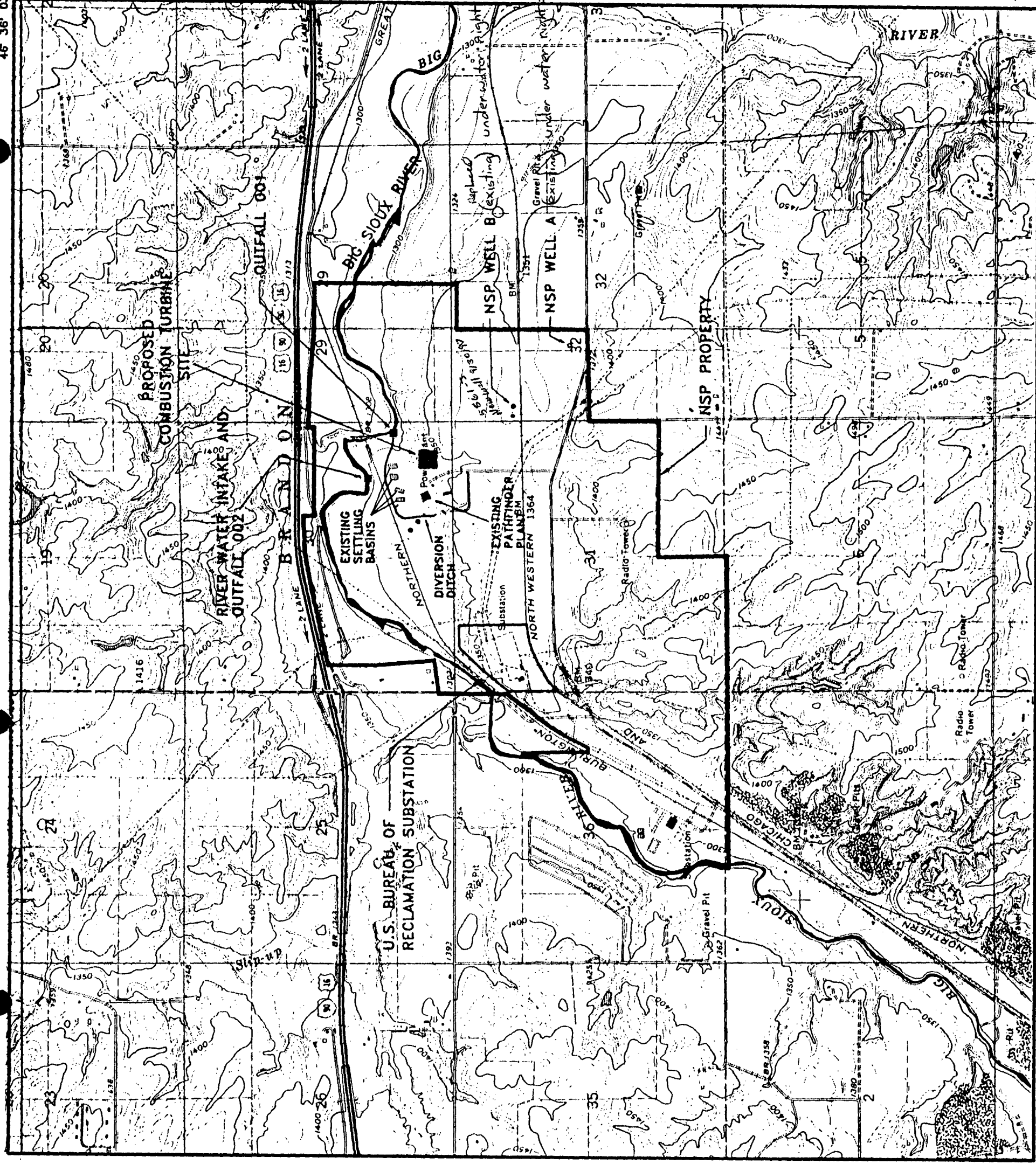
NORTHERN STATES POWER COMPANY
PATHFINDER SITE, SOUTH DAKOTA

FIGURE 1
TOPOGRAPHIC MAP

DWG NO.: N05844052.F122

DAMES & MOORE

5861-3





414 Nicollet Mall
Minneapolis, Minnesota 55401-1927
Telephone (612) 330-5500

**Water Rights Division
Joe Foss Building
523 E. Capitol
Pierre, SD 57501-3181**

A circular ink stamp from the FBI Memphis office. The outer ring contains numbers 1 through 30. In the center, it reads "DEC 1994" at the top, followed by "DIVISION OF INVESTIGATION" and "FBI MEMPHIS". At the bottom, there are two rows of numbers: "1-236789" and "10111213141516171819202122232425262728293031". A small star symbol is positioned above the date.

With the deterioration of the existing well under water right no. 742-3, Northern States Power Company is considering well replacement next year. However, in order to provide a necessary back up supply to the main plant operations supply under water right no. 561-3, we propose to size the well and pump similar to the system under water right no. 561-3. Therefore, as we discussed, we are requesting a permit amendment allowing appropriations up to 1.77 cfs under water right no. 742-3. The well originally supplied the Pathfinder Generating Plant site with water for sanitary purposes, and additional appropriations were approved for the well under water permit no. 5597-3 to accommodate the installation and operation of the Angus Anson Combustion Turbine Plant at the site. The presently requested amendment and proposed larger replacement system would ensure a reliable back up supply for maintaining all plant operations.

Please find enclosed a completed application form with replacement well information estimated based on information from the well under water right no. 561-3 since the replacement well will be sized and likely located similarly. Your review and processing of this request are appreciated, and if there are any questions, please call me at 612-330-6625.

Jim/Bodensteiner
Environmental Analyst

cc ERAD Records Center
Tom Hay
Michael Hestick

Water Rights Division - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: Northern States Power Company

ADDRESS: COUNTY: Minnehaha

DATE: 1/4/95 TELEPHONE: 612 330-6625

RE: Call to Jim Bodensteiner on their water permit application

COMMENTS:

I called Mr. Bodensteiner regarding Northern States Power Company's water permit application filed December 23, 1994. The application is for 1.77 cfs additional, however, I told Mr. Bodensteiner that Permit Nos. 742-3 and 5597-3 still appropriates 0.33 cfs. I asked Mr. Bodensteiner whether the 1.77 cfs on the application was in addition to the 0.33 cfs currently authorized or if it was to include this amount. Mr. Bodensteiner stated that the new application should be for 1.44 cfs so that NSP's total diversion would be 1.77 cfs (1.44 cfs + 0.33 cfs).

I told Mr. Bodensteiner that the application also needed the map to be signed and the application filing fee submitted. I told him a letter would be sent to him on what additional information is needed.

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: Eric Highland



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

January 5, 1995

Jim Bodensteiner, Environmental Analyst
Northern States Power Company
414 Nicollet Mall
Minneapolis MN 55401-1927

Dear Mr. Bodensteiner:

In regard to your water permit application received on December 23, 1994, the following information needs to be submitted and clarified in order to process your application.

1. Enclosed is the map. The map must be signed by one of the following: Registered Land Surveyor, Registered Professional Engineer or by any other government employee who normally prepares maps as a part of his assigned duties (i.e. local SCS or ASCS office).
2. On the map, please mark the proposed location of the well. It is our understanding that the exact location has not been determined. Possibly, the location could be narrowed down to a quarter-quarter and that area could be outlined on the map.
3. Pursuant to your phone conversation with Eric Gronlund, the application has been amended to be a request for an additional 1.44 cfs. The filing fee for this application will be \$400.00.

Upon receipt of the above, further processing of the application will continue. If you have any questions, please contact this office.

Sincerely,

Karen Schlaak
Environmental Scientist
605 773-3352

enclosure



Northern States Power Company

414 Nicollet Mall
Minneapolis, MN 55401
Telephone (612) 330-5500



April 7, 1995

Ms. Karen Schlaak
Environmental Scientist
South Dakota Department of
Environment and Natural Resources
Joe Foss Building
523 East Capitol
Pierre, SD 57501-3181

Dear Ms. Schlaak:

Enclosed please find the map of the Northern States Power Company's Pathfinder Generating Site for the location of the replacement well. We intend to locate the new replacement well in the same section as the existing well, and probably the same quarter. Also enclosed is a check for \$400.00 for the water permit application fee.

We apologize for the delay in replying. If you have any additional questions, please feel free to contact me at (612) 330-6625.

Sincerely,

Jim Bodensteiner
Senior Environmental Analyst

enc.

w:sdwtrapp

RECEIPT

414461

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, _____, April 13, 19 95

RECEIVED OF Northern States Power Co, 414 Nicollet Mall, Minneapolis, MN 55401

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

Fee for Application for Permit No. <u>5861-3</u> to Appropriate Water, to construct and to put water to beneficial use _____	400	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 _____		

(Any Other Work Provided by Law)	Total	400 00

By John Hatch
Chief Engineer

REPORT ON WATER PERMIT APPLICATION NO. 5861-3
for Northern States Power Co.
May 24, 1995

Application No. 5861-3 proposes to appropriate 1.44 cfs (650 gpm) by increasing the diversion rate authorized by Water Permit Nos. 742-3 and 5597-3. Water Permit Nos. 742-3 and 5597-3, combined, appropriate 0.33 cfs from one well located in the NE 1/4 NE 1/4 of section 31, T102N R48W in Minnehaha County. This application proposes to drill a replacement well approximately 222 feet deep located in the NW 1/4 of section 32, T102N R48W and to increase the water appropriation from 0.33 cfs to 1.77 cfs. Water is to be used for industrial and sanitary purposes in the power plant operation and as a backup water supply for main plant operations.

AQUIFER - SPLIT ROCK CREEK (SRKC)

The Split Rock Creek aquifer underlies about 139 square miles and contains an estimated 855,000 acre feet of water in storage in Minnehaha County (Lindgren, 1992). The Split Rock Creek aquifer is composed of fine to coarse sand interbedded with siltstone, shale and claystone. The maximum thickness of the formation is 222 feet but has an average thickness of about 48 feet (Lindgren, 1992). The aquifer is confined and under artesian conditions at this site. The general direction of ground water movement is from east to west towards the Big Sioux River in this area.

The Division of Water Rights monitors 11 observation wells completed into the Split Rock Creek aquifer within an eight mile radius of this application. Hydrographs for 10 of these wells are included with this report. One of these observation wells MA-87D is located within 1/4 mile of this application. Water levels for the aquifer do reflect climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 1995).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

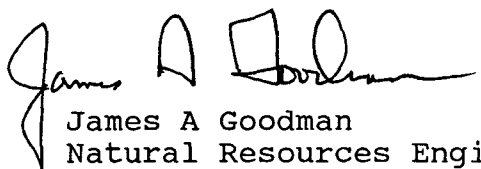
There is one other active water permit (No. 5213-3 for the City of Sioux Falls) located approximately 2 miles southwest of this application. In addition the applicant holds existing Water Permit No. 5596-3 (includes Water Right No. 561-3) located within the same 1/4 section as this application. Interference will occur. Drawdown caused by pumping will overlap between the wells. Since both wells will be managed and owned by the applicant and since the majority of the water use requested by this application is for backup water to be used incase of failure of the other well, interference should not be a concern. This proposal will not increase the water use for the facility.

The City of Sioux Falls Water Permit No. 5213-3 authorizes a diversion of 6.7 cfs from 2 wells. The City has reported using

718 acre feet of water in 1994 and 526 acre feet of water in 1993. This permit was approved in 1992. Drawdown caused by pumping of the Sioux Falls permit does extend to the site of this application. Observation well MA-87D illustrates the effects of pumping. The drawdown created should not cause adverse interference.

CONCLUSIONS

1. Water is available from the Split Rock Creek aquifer.
2. The aquifer is confined and under artesian conditions. Drawdown will occur as result of pumping. Interference is not expected to be adverse.
3. The well authorized by this application, if approved, must be completed in accordance with SD Well Construction Standards.
4. NSP proposes to add an additional 1.44 cfs diversion rate capability to a new well and to include or transfer the existing rights to this new application. This additional diversion will only be used as a backup water supply. Neither this permit or the existing permits for NSP are quantified in terms of total annual water use. There should be no additional water usage with approval of this application.
5. The well which will be abandoned must be plugged in accordance with SD Well Construction Standards.



James A Goodman
Natural Resources Engineer

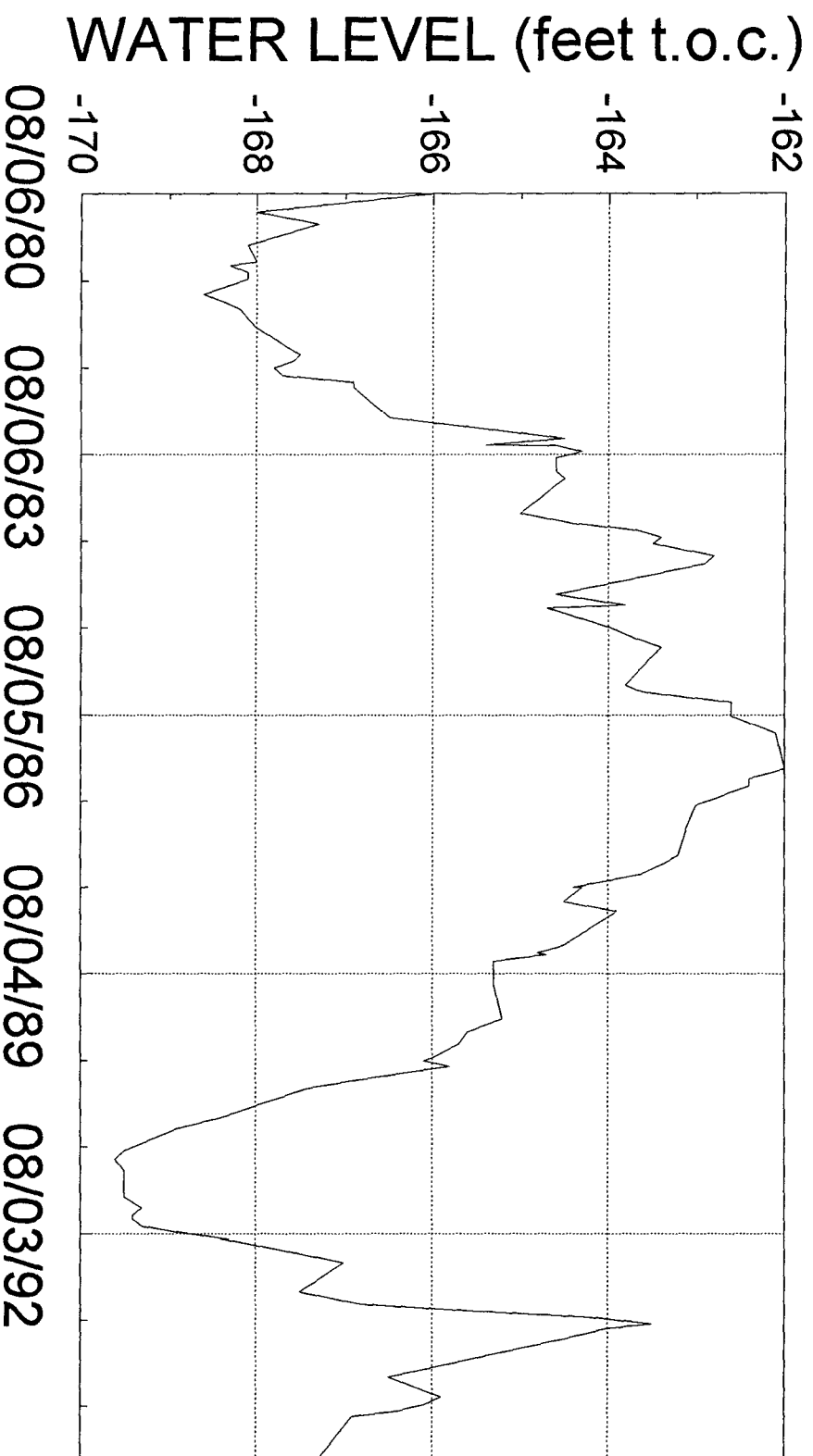
BIBLIOGRAPHY

Lindgren, R.J., C.A. Niehus, 1992, Water Resources of Minnehaha County, South Dakota, USGS WRI 91-4101, USGS, Huron, SD, 57350.

Water Rights, 1995, Unpublished Observation Well Data for Minnehaha County, SD DENR, Division of Water Rights, Pierre, SD, 57501.

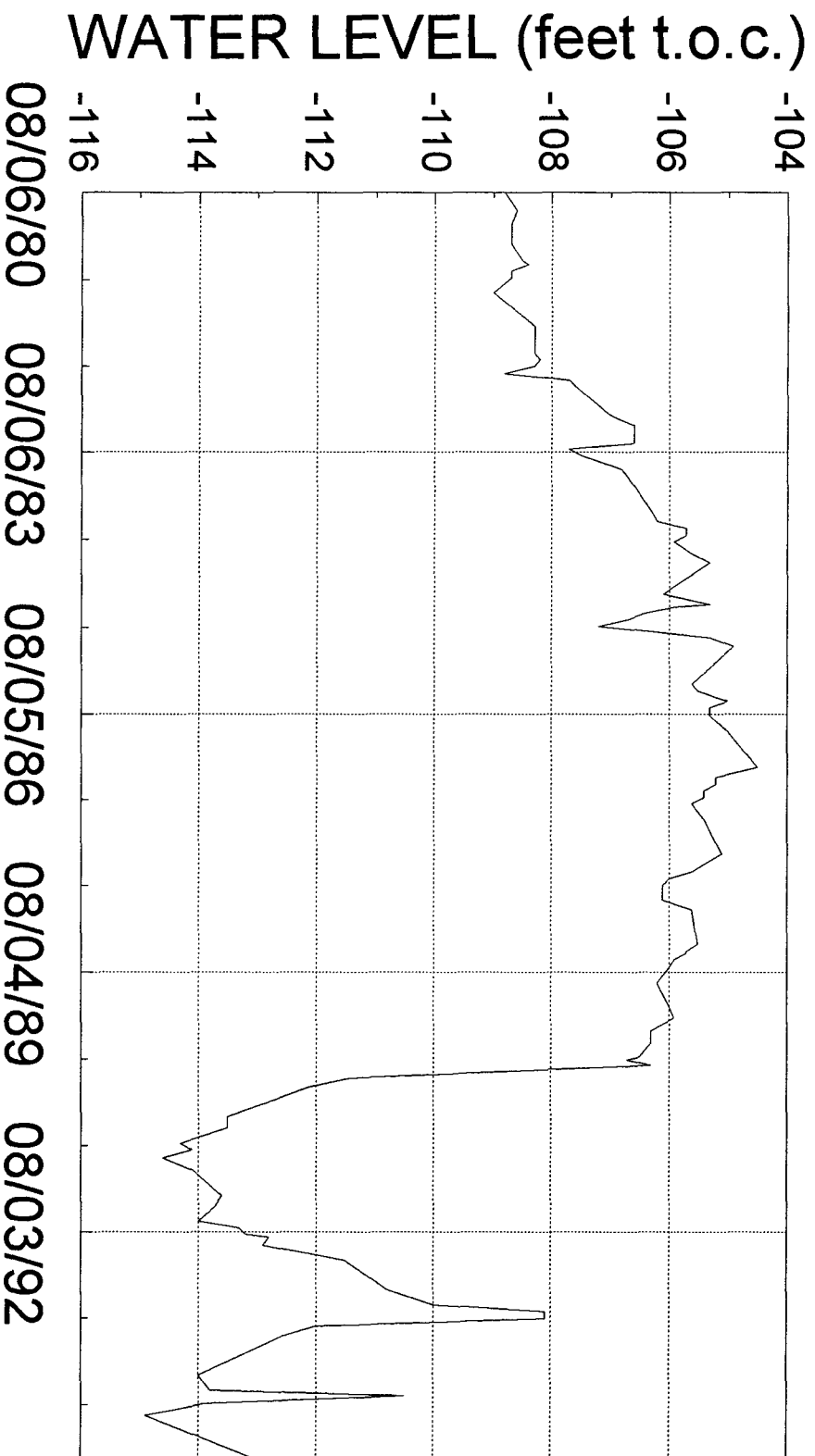
WATER RIGHTS OBSERVATION WELL

MA-80N



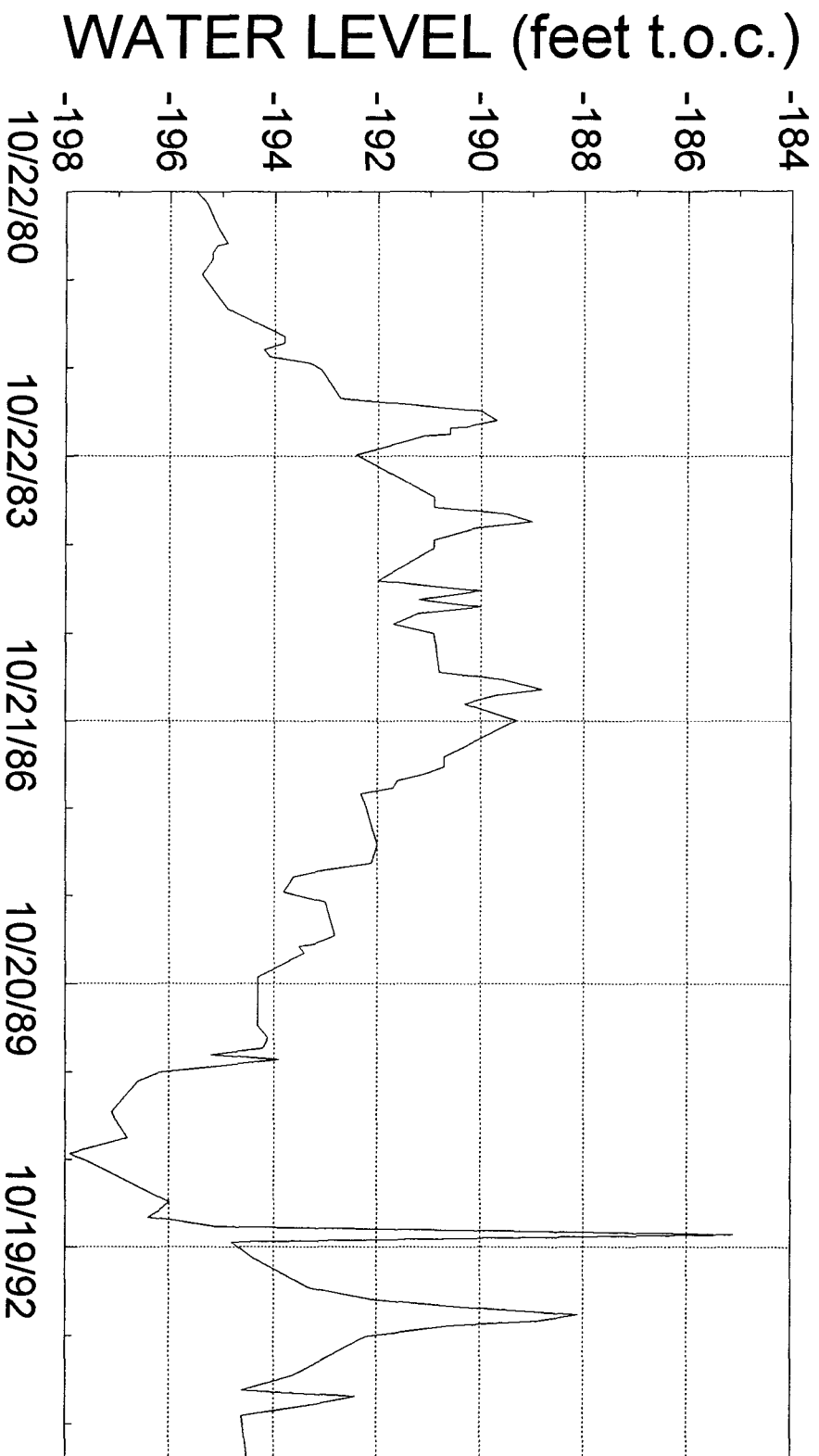
WATER RIGHTS OBSERVATION WELL

MA-80P



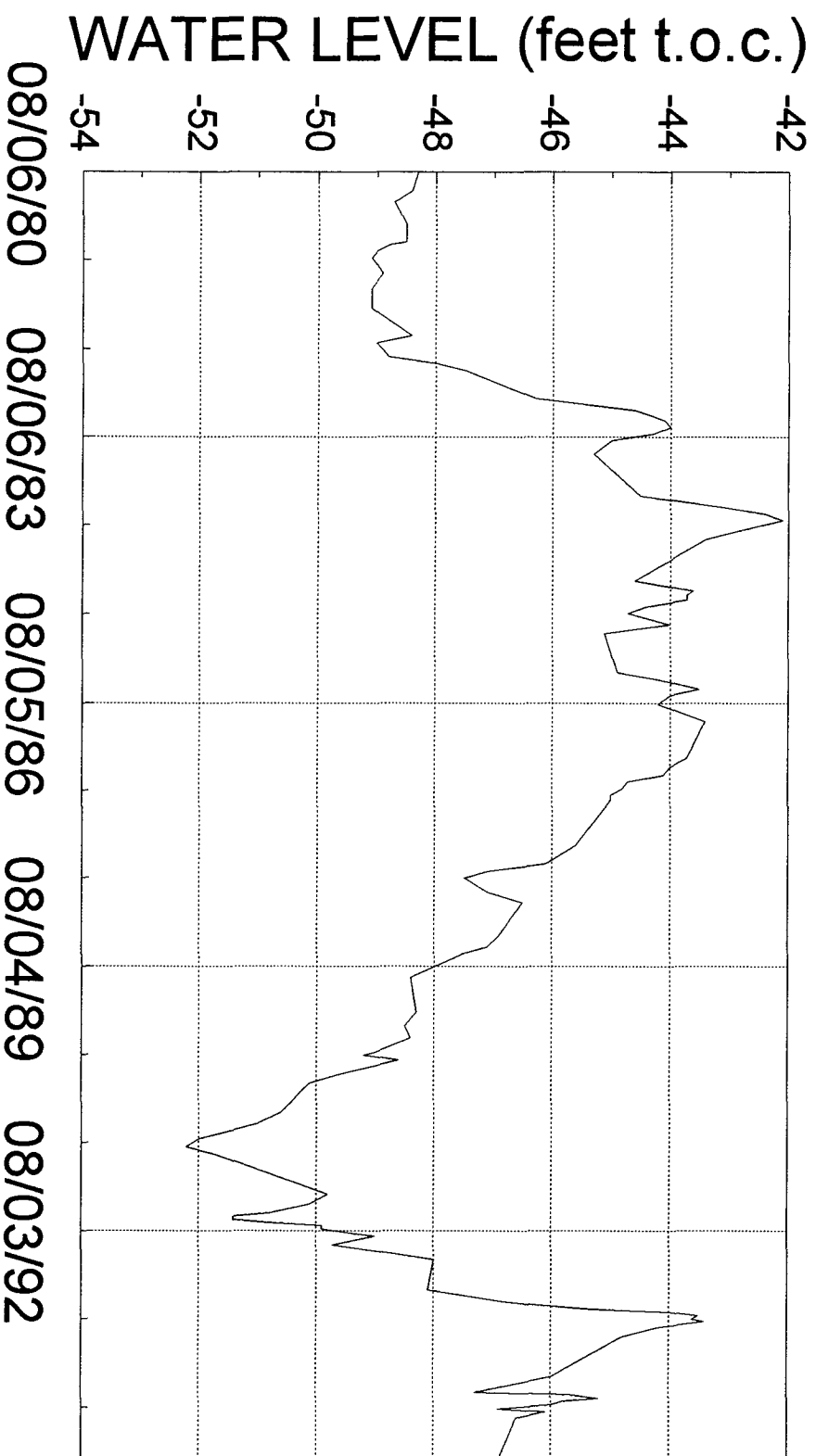
WATER RIGHTS OBSERVATION WELL

MA-80BA



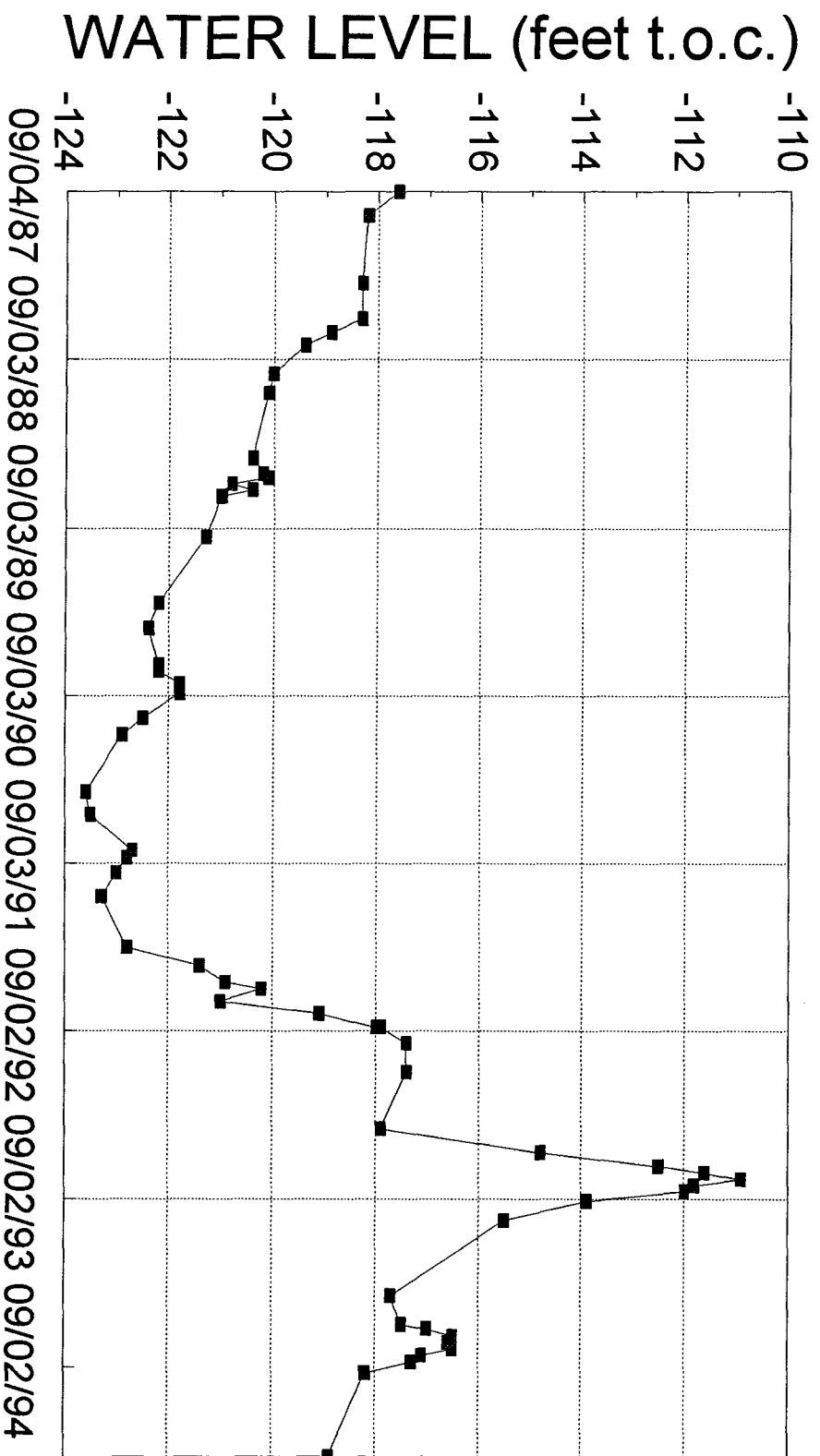
WATER RIGHTS OBSERVATION WELL

MA-80Z



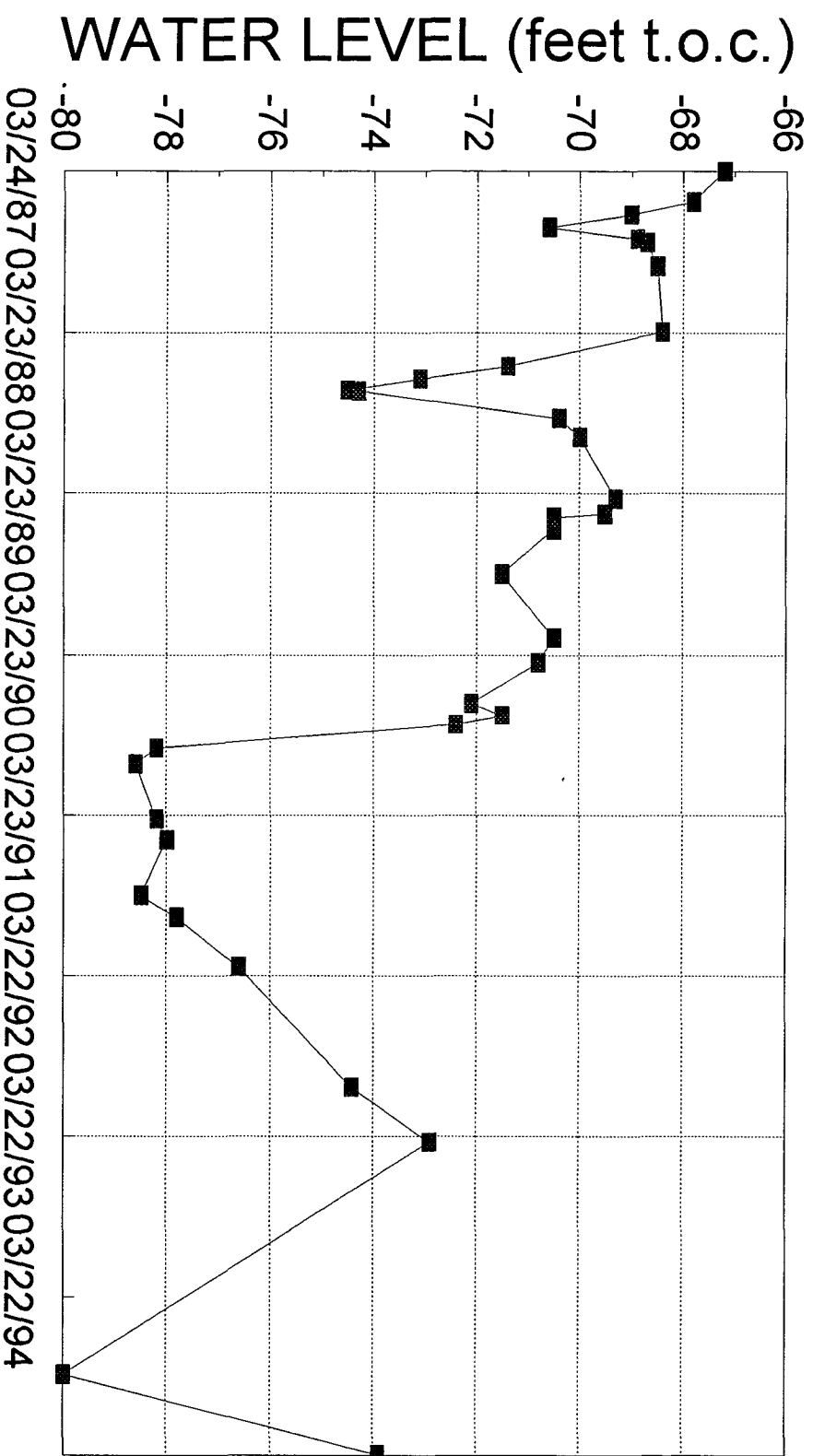
WATER RIGHTS OBSERVATION WELL

MA-87C



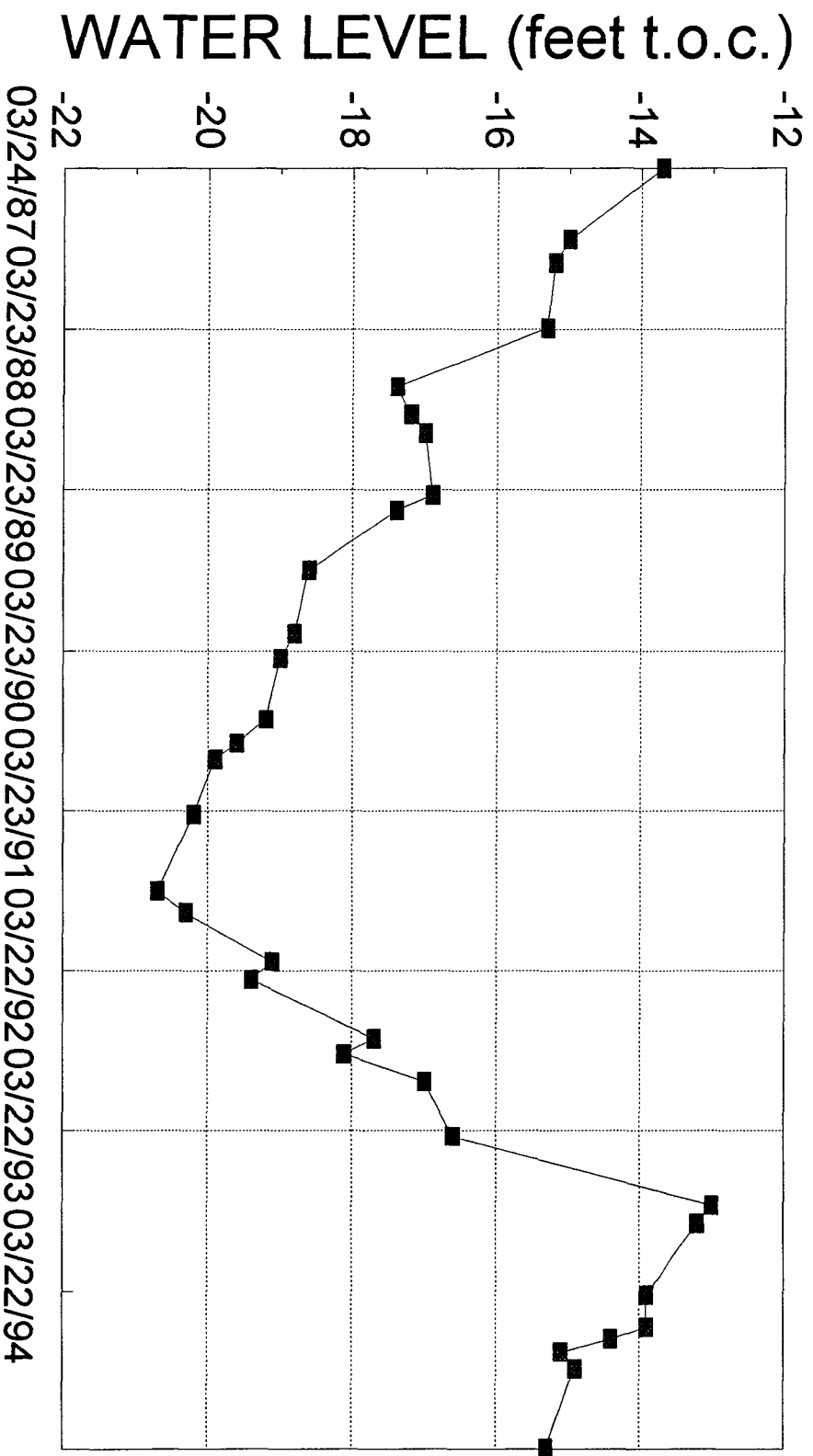
WATER RIGHTS OBSERVATION WELL

MA-87D



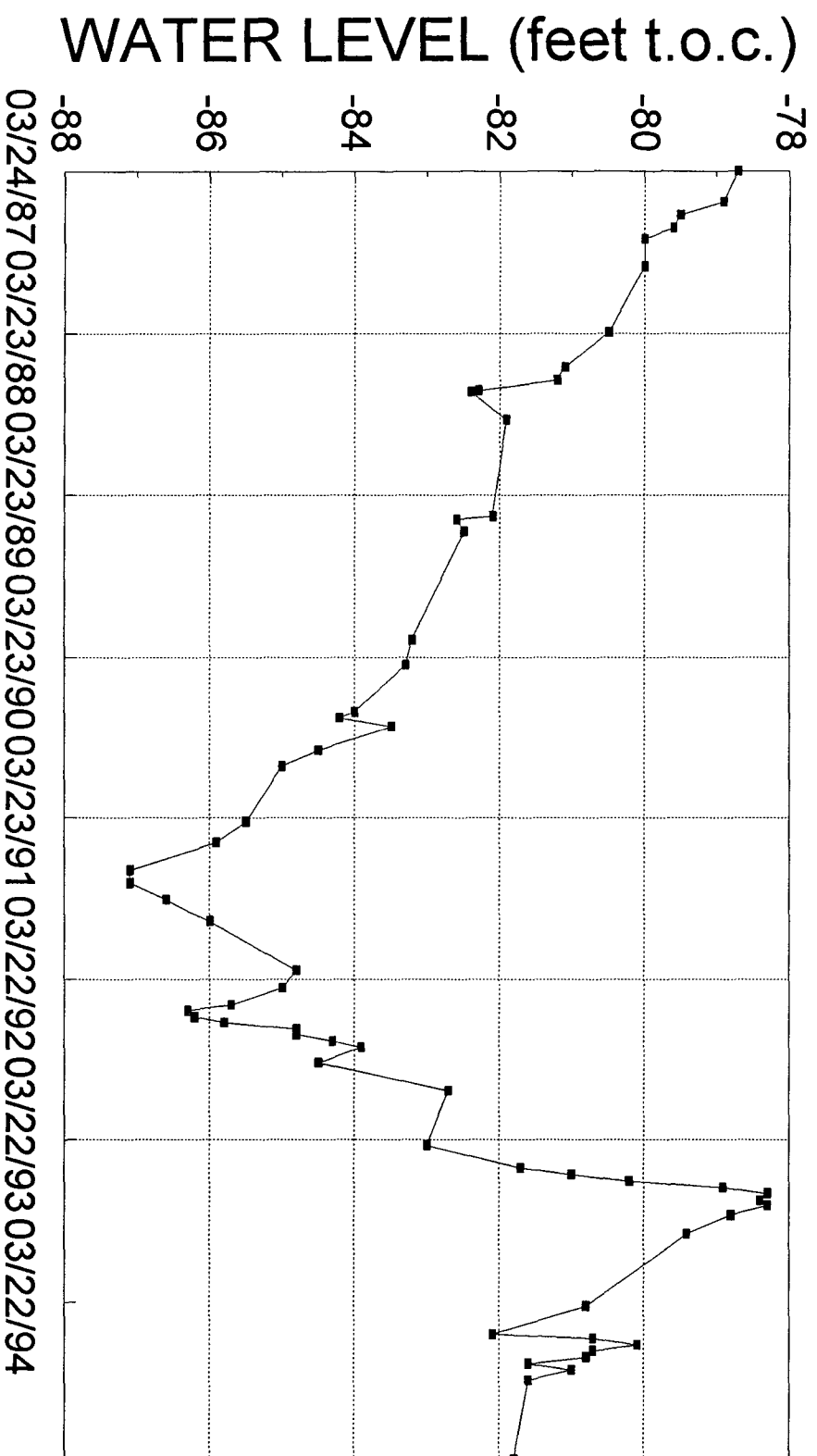
WATER RIGHTS OBSERVATION WELL

MA-87E

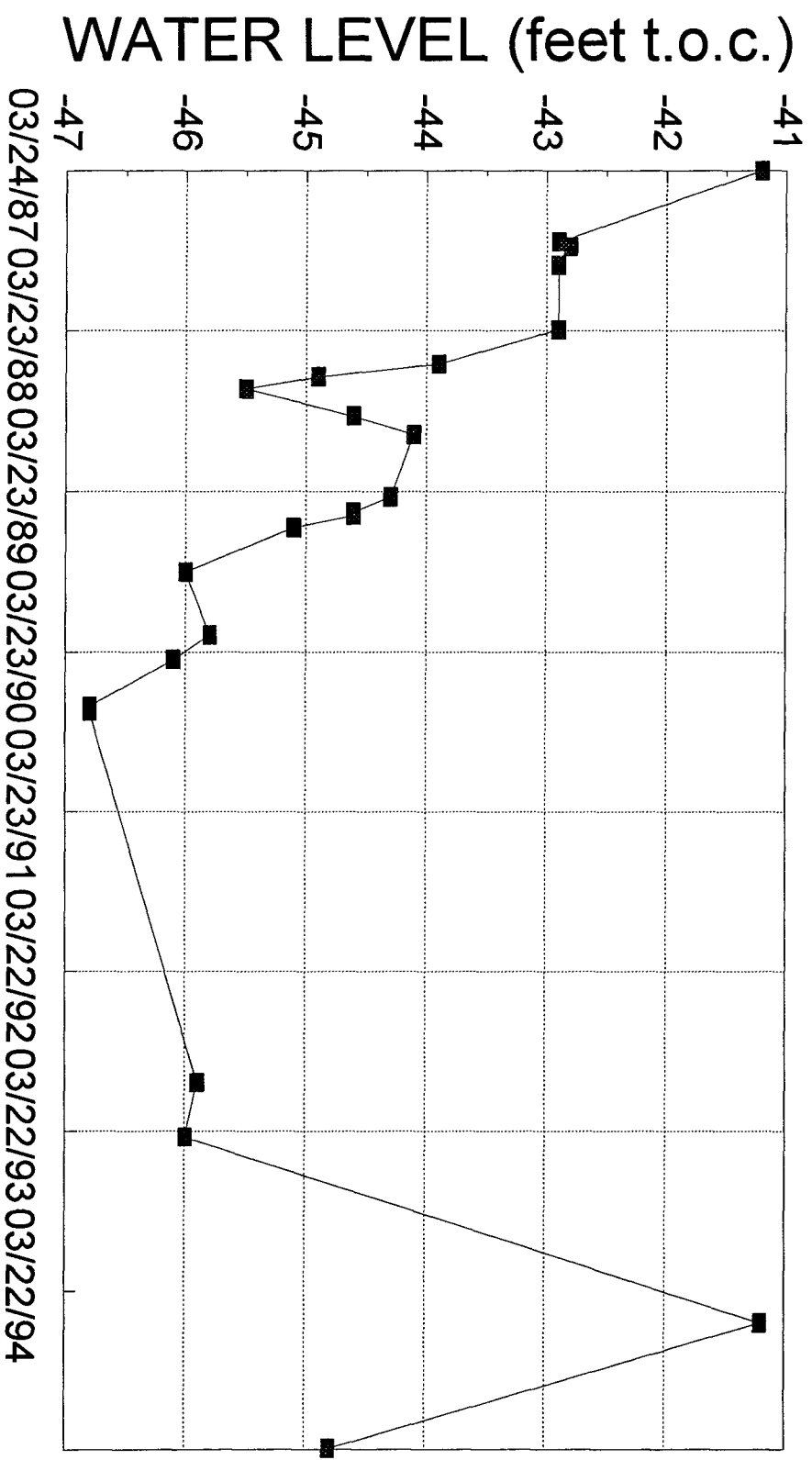


WATER RIGHTS OBSERVATION WELL

MA-87F

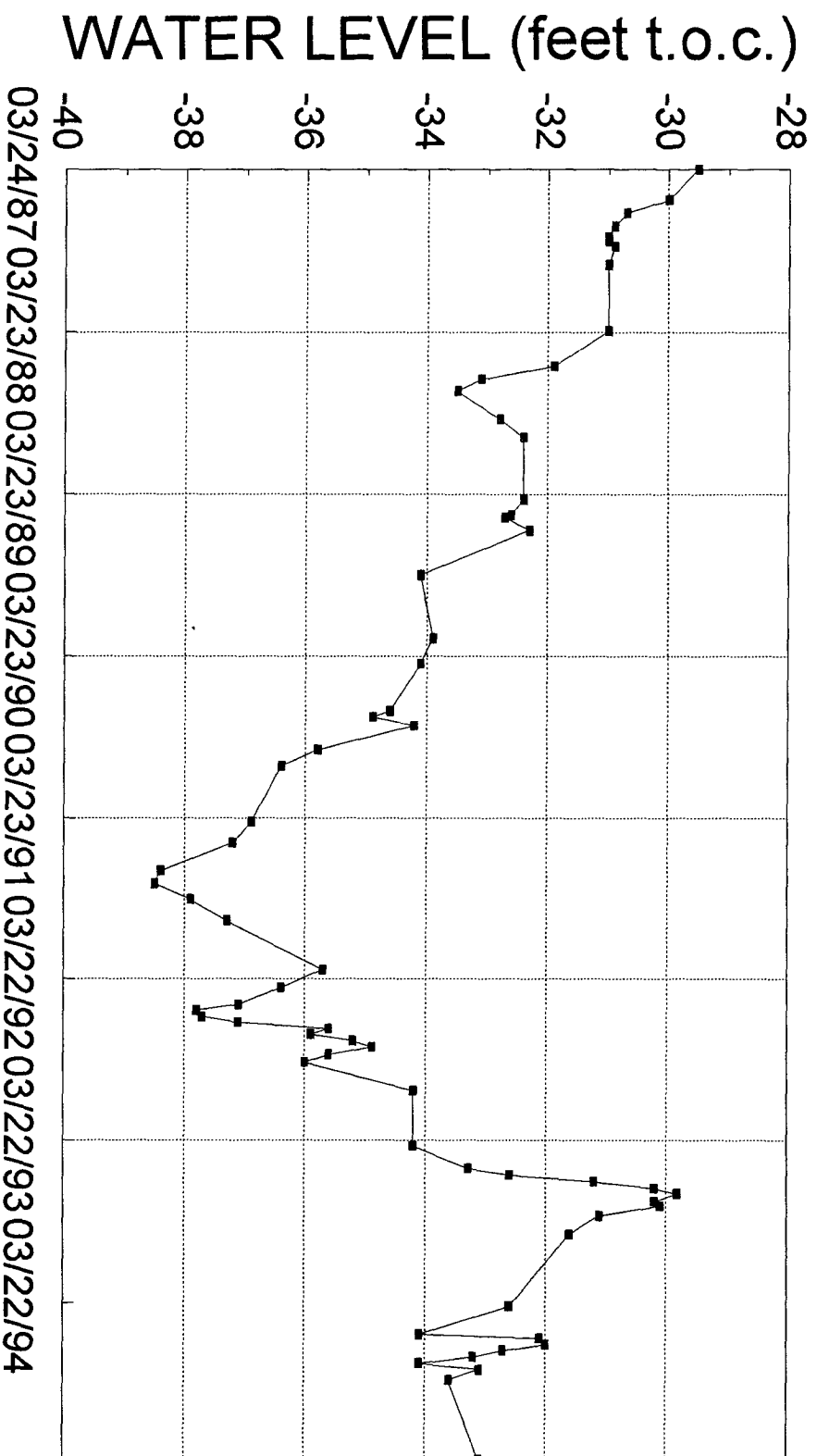


MA-87H



WATER RIGHTS OBSERVATION WELL

MA-871



ALL PERMITS FOR GROUNDWATER

05/25/1995

SRKC AQUIFER

Permit_no	Priordate	County_1	Aquifer	Status	Last_name	Diversion	Use Type	Cfs	Acres
1138-3	11/20/1984	MA	SRKC	LC	VALLEY SPRINGS First Name: TOWN OF	Div-1 GROUNDWATER Div-2 SEE ALSO 2113-3 Div-3	Use 1: MUN Use 2: Use 3:	Per_cfs: 0.33 Lic_cfs: 0.33	Per-Acre: 0.00 Lic-Acre: 0.00
2113-3	09/18/1974	MA	SRKC	LC	VALLEY SPRINGS First Name: CITY OF	Div-1 GROUNDWATER Div-2 SEE ALSO 1138-3 Div-3	Use 1: MUN Use 2: Use 3:	Per_cfs: 0.33 Lic_cfs: 0.33	Per-Acre: 0.00 Lic-Acre: 0.00
4928-3	01/01/1950	MA	SRKC	LC	CORSON VILLAGE WATER First Name:	Div-1 GROUNDWATER Div-2 Div-3	Use 1: MUN Use 2: Use 3:	Per_cfs: 0.01 Lic_cfs: 0.01	Per-Acre: 0.00 Lic-Acre: 0.00
4929-3	10/04/1982	MA	SRKC	PE	CORSON VILLAGE WATER First Name:	Div-1 GROUNDWATER Div-2 Div-3	Use 1: SHD Use 2: Use 3:	Per_cfs: 0.05 Lic_cfs: 0.00	Per-Acre: 0.00 Lic-Acre: 0.00
4974A-3	08/26/1986	MA	SRKC	LC	PINELAKE HILLS HOMEOWNERS First Name:	Div-1 GROUNDWATER Div-2 INC'S 4974-3 Div-3	Use 1: SHD Use 2: Use 3:	Per_cfs: 0.06 Lic_cfs: 0.30	Per-Acre: 0.00 Lic-Acre: 0.00
5213-3	08/18/1988	MA	SRKC	PE	SIOUX FALLS First Name: CITY OF	Div-1 GROUNDWATER Div-2 Div-3	Use 1: MUN Use 2: Use 3:	Per_cfs: 6.70 Lic_cfs: 0.00	Per-Acre: 0.00 Lic-Acre: 0.00
5276-3	01/19/1989	MA	SRKC	PE	BRANDON WOOD PRESERVING First Name:	Div-1 GROUNDWATER Div-2 Div-3	Use 1: IND Use 2: Use 3:	Per_cfs: 0.10 Lic_cfs: 0.00	Per-Acre: 0.00 Lic-Acre: 0.00
5296-3	03/22/1989	MA	SRKC	PE	BRANDON First Name: CITY OF	Div-1 GROUNDWATER Div-2 Div-3	Use 1: MUN Use 2: Use 3:	Per_cfs: 0.33 Lic_cfs: 0.00	Per-Acre: 0.00 Lic-Acre: 0.00
5372-3	10/16/1989	MA	SRKC	CA	SWENSON First Name: TED & NANCY	Div-1 GROUNDWATER Div-2 Div-3	Use 1: IRR Use 2: Use 3:	Per_cfs: 0.06 Lic_cfs: 0.00	Per-Acre: 31.00 Lic-Acre: 0.00
5395-3	03/08/1990	MA	SRKC	PE	BRANDON First Name: CITY OF	Div-1 GROUNDWATER Div-2 Div-3	Use 1: MUN Use 2: Use 3:	Per_cfs: 0.43 Lic_cfs: 0.00	Per-Acre: 0.00 Lic-Acre: 0.00
5444-3	05/02/1990	MA	SRKC	PE	VALLEY SPRINGS First Name: CITY OF	Div-1 GROUNDWATER Div-2 Div-3	Use 1: MUN Use 2: Use 3:	Per_cfs: 0.00 Lic_cfs: 0.00	Per-Acre: 0.00 Lic-Acre: 0.00

Permit no	Priordate	County_1	Aquifer	Status	Last_name	Diversion	Use Type	Cfs	Acres
5463-3	10/04/1982	MA	SRKC	PE	CORSON VILLAGE WATER	Div-1 GROUNDWATER	Use 1: MUN	Per_cfs: 0.04	Per-Acre: 0.00
SEC-TWN-RNG: SEC37-TWN 102N - RNG 48W					First Name:	Div-2 FROM F/U 4929-3	Use 2:	Lic_cfs: 0.00	Lic-Acre: 0.00
						Div-3	Use 3:		
						Div-1 GROUNDWATER	Use 1: MUN	Per_cfs: 0.05	Per-Acre: 0.00
5507-3	01/28/1991	MA	SRKC	LC	BRANDON	Div-2	Use 2:	Lic_cfs: 0.05	Lic-Acre: 0.00
SEC-TWN-RNG: SEC35-TWN 102N - RNG 48W					First Name: CITY OF	Div-3	Use 3:		
						Div-1 GROUNDWATER	Use 1: IND	Per_cfs: 1.18	Per-Acre: 0.00
						Div-2 AMENDS 561-3	Use 2:	Lic_cfs: 0.00	Lic-Acre: 0.00
5596-3	10/03/1991	MA	SRKC	PE	NORTHERN STATES POWER CO	Div-3	Use 3:		
SEC-TWN-RNG: SEC32-TWN 102N - RNG 48W					First Name:	Div-1 GROUNDWATER	Use 1: IND	Per_cfs: 0.22	Per-Acre: 0.00
						Div-2 AMENDS 742-3	Use 2:	Lic_cfs: 0.00	Lic-Acre: 0.00
						Div-3	Use 3:		
5597-3	10/03/1991	MA	SRKC	PE	NORTHERN STATES POWER CO	Div-1 GROUNDWATER	Use 1: IND	Per_cfs: 0.22	Per-Acre: 0.00
SEC-TWN-RNG: SEC31-TWN 102N - RNG 48W					First Name:	Div-2	Use 2:	Lic_cfs: 0.00	Lic-Acre: 0.00
						Div-3	Use 3:		
						Div-1 GROUNDWATER	Use 1: IND	Per_cfs: 1.77	Per-Acre: 0.00
561-3	12/18/1958	MA	SRKC	LC	NORTHERN STATES POWER CO	Div-2	Use 2:	Lic_cfs: 1.77	Lic-Acre: 0.00
SEC-TWN-RNG: SEC32-TWN 102N - RNG 48W					First Name:	Div-3	Use 3:		
						Div-1 GROUNDWATER	Use 1: IRR	Per_cfs: 2.10	Per-Acre: 150.00
						Div-2	Use 2:	Lic_cfs: 0.00	Lic-Acre: 0.00
5773-3	05/05/1993	MA	SRKC	PE	ROLLING HILLS GOLF CLUB	Div-3	Use 3:		
SEC-TWN-RNG: SEC01-TWN 101N - RNG 50W					First Name:	Div-1 GROUNDWATER	Use 1: IND	Per_cfs: 0.33	Per-Acre: 0.00
						Div-2	Use 2:	Lic_cfs: 0.33	Lic-Acre: 0.00
						Div-3	Use 3:		
742-3	09/17/1960	MA	SRKC	LC	NORTHERN STATES POWER CO	Div-1 GROUNDWATER	Use 1: IND	Per_cfs: 0.33	Per-Acre: 0.00
SEC-TWN-RNG: SEC31-TWN 102N - RNG 48W					First Name:	Div-2	Use 2:	Lic_cfs: 0.33	Lic-Acre: 0.00
						Div-3	Use 3:		
						Div-1 GROUNDWATER	Use 1: IND	Per_cfs: 0.33	Per-Acre: 0.00

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5861-3, Northern States Power Company**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Environment and Natural Resources concerning Water Permit Application No. 5861-3, Northern States Power Company, c/o Thomas A. Hay, 414 Nicollet Mall, Minneapolis, MN 55401-1927.

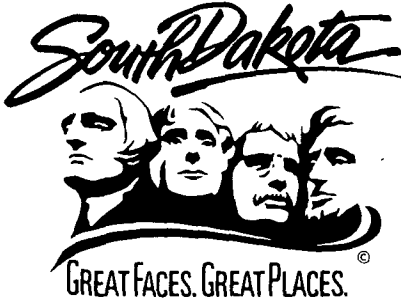
The Chief Engineer is recommending APPROVAL of Application No. 5861-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use 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. The well authorized by Permit No. 5861-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.
3. That Northern States Power Company shall report to the chief engineer annually the amount of water withdrawn each year from the Split Rock Creek Aquifer.

See report on application for additional information.



JOHN HATCH, Chief Engineer
June 2, 1995



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

June 6, 1995

Thomas A. Hay
Northern States Power Company
414 Nicollet Mall
Minneapolis, MN 55401-1927

Dear Mr. Hay:

Water Permit Application No. 5861-3 for industrial use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Argus Leader printed at Sioux Falls, SD (Ph # 605-331-2200). For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

A handwritten signature in cursive script that reads "Eric Gronlund".

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

June 6, 1995

Argus Leader
PO Box 5034
Sioux Falls, SD 57117-5034

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 5861-3 to be published twice. Please publish the first notice on June 13, 1995, with the second publication 7 days later.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make the first publication. Please BILL the APPLICANT for the cost of publication. The APPLICANT is Northern States Power Company, c/o Thomas A. Hay, 414 Nicollet Mall, Minneapolis, MN 55401-1927 (Ph # 612-330-5500).

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. No action may be taken on the permit application 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 Division
Joe Foss Building
Pierre SD 57501-3181

No. _____

Date _____

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

Name

Newspaper

Water Rights Division - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: WP Application No. 5861-3, NSP

ADDRESS: COUNTY:

DATE: 6/16/95

TELEPHONE: 612 255-8661

RE: Call from Tom Hay

COMMENTS:

Mr. Hay called regarding the notice of hearing. Said he just got my June 6, 1995 letter. The notice did not get published on June 13, 1995. Notice will now be published June 20 and 27, 1995 with the date to intervene of July 10, 1995.

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:

_____

Instruction to Newspaper - Publish first Notice on June 30, 1995, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 5861-3 to Appropriate Water
and Amend Water Permit Nos. 742-3 and 5597-3

Notice is given that Northern States Power Company, 414 Nicollet Mall, Minneapolis, MN 55401-1927 has filed an application for a water permit to appropriate 1.44 cubic feet of water per second by increasing the diversion rate authorized by Water Permit Nos. 742-3 and 5597-3. Water Permit Nos. 742-3 and 5597-3, combined, appropriate 0.33 cubic feet of water per second (cfs) from one well located in the NE 1/4 NE 1/4 Section 31-T102N-R48W. This application proposes to drill a replacement well approximately 222 feet deep (Split Rock Creek Aquifer) located in the NW 1/4 Section 32-T102N-R48W and to increase the water appropriation from 0.33 cfs to 1.77 cfs. Water is to be used for industrial purposes as the power plant's sanitary source of water and as a backup water supply for main plant operations.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 5861-3 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. 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 July 17, 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 Division 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 Minnehaha)



I, D. Reicher

certify that the attached printed Notice was

taken from the Argus Leader

printed and published in City of

Sioux Falls
 County of Minnehaha and State of

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

June 30, 1995

July 7, 1995

Cost of Printing: \$85.48

D Reicher
 (Signature) MB

Assistant Controller
 (Title)

7/7/95
 (Date Signed)

NOTICE OF APPLICATION
 NO. 5861-3 to Appropriate Water
 and Amend Water Permit
 Nos. 742-3 and 5597-3.
 Notice is given that Northern
 States Power Company, 414 Ni
 collet Mall, Minneapolis, MN
 55401-1927 has filed an application
 for a water permit to appropriate
 1.44 cubic feet of water per second
 by increasing the diversion rate
 authorized by Water Permits Nos.
 742-3 and 5597-3. Water Permit
 Nos. 742-3 and 5597-3, combined,
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 located in the NE 1/4 NE 1/4
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 plication proposes to drill a replace-
 ment well approximately 222 feet
 deep (Split Rock Creek Aquifer)
 located in the NW 1/4 Section
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 the water appropriation from 0.33
 cfs to 1.77 cfs. Water is to be used
 for industrial purposes as the power
 plant's sanitary source of water and
 as a backup water supply for main
 plant operations.
 Pursuant to SDCL 46-2A-2, the
 Chief Engineer recommends AP-
 PROVAL of Application No. 5861-3
 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. 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 con-
 testing the chief engineer's recom-
 mendation. If a petition opposing
 the application or contesting the
 recommendation is filed, then a
 hearing will be scheduled and the
 Water Management Board will con-
 sider the application. Notice of the
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 ommendation. The Chief Engi-
 neer'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 July 17, 1995.
 The petition may be informal, but
 must include a statement de-
 scribing the petitioner's interest in
 the application, the petitioner's rea-
 sons 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 Division address to request
 copies of information pertaining to
 this application. Nettie H. Myers,
 Secretary, Department of Environ-
 ment and Natural Resources,
 2597 June 30, July 7, 1995



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

SEP 5 1995

Thomas A. Hay
Northern States Power Company
414 Nicollet Mall
Minneapolis, MN 55401-1927

Dear Mr. Hay:

Enclosed is Water Permit No. 5861-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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 Program
605 773-3352

enclosures

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

Water Rights Division - DENR

Conversation or File Documentation

Name of Person: Kevin Korn, NSP File No. 5597-3 and 5861-3
Address: Pathfinder Site, Sioux Falls, SD County: Minnehaha
Date: 7-21-97 Telephone: (605)331-1212
RE: New well to be drilled.

Comments:

The new well to be drilled under 5861-3 is under contract but has not been drilled yet.
Permit Nos. 5597-3 and 5861-3 need to be inspected when 5861-3 is completed. The well
under 5861-3 is a replacement for 5597-3.



Lynn Beck
Natural Resources Engineer

well log received 10/8/97

**NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE**Date 1/12/98

TO: Water Rights Division, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM: STEVE R. CHAPMAN 7100 E RICE ST.
(name) (address)
SIoux FALLS SD 57110 605-331-1210
(city) (state) (zip) (phone)

I have completed the construction of the water diversion system and I have put the water to beneficial use to the maximum extent it is going to be used. I have not exceeded the amounts specified in Water Permit No. 5861-3.

Water Permit No. 5861-3 states that the diversion system is to be constructed by JULY 17, 2000, and that the water is put to beneficial use by JULY 17, 2004.
(date) (date)

The diversion system was completed on SEPT. 30, 1997.
(date)

Applying the water to beneficial use was completed on JAN. 8, 1998.
(date)

You may schedule an inspection so that the Water License may be issued.

Steve R. Chapman
(signature)



Northern States Power Company

7100 East Rice Street
Sioux Falls, SD 57103
Telephone (605) 331-1210



February 3, 1998

Ron Duvall
Natural Resources Engineer
South Dakota Dept of Environment and Natural Resources
Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

Dear Mr. Duvall

In response to your request letter of January 5, 1998, the Angus Anson Generating Site submits the following information for your review:

Process water through reverse osmosis unit (metered)	10,136,412 gal
Domestic water (not metered, estimated)	<u>144,000 gal</u>
Total water pumped from S.R. aquifer during 1997	10,280,412 gal

In the future please send the letter requesting the information directly to the plant. If you have any questions, or need further information, please contact me at (605) 331-1212.

Sincerely,

Marvin Van Kekerix
Lead Plant Equipment Operator

c: c: plant file: Water Rights

31.6 aqft



414 Nicollet Mall
Minneapolis, MN 55401
Telephone (612) 330-6625



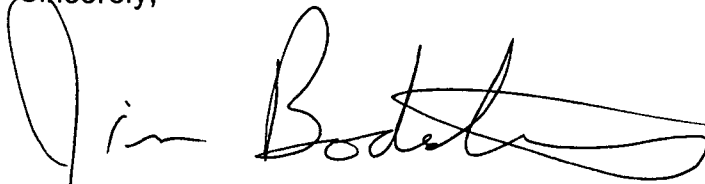
Mr. John Hatch, Chief Engineer
Water Rights Program
South Dakota Department of Environment and Natural Resources
Joe Foss Building
523 East Capitol Avenue
Pierre, South Dakota 57501-3181

Angus Anson Site and Pathfinder Generating Plant
Water Rights #561-3 and #742-3
Water Permits/Licenses #5596-3, 5597-3 and 5861-3
Reverse Osmosis (RO) System Flow Update

For your information and review, Northern States Power Company is planning to install and operate a second RO (reverse osmosis) system at the Angus Anson Site and Pathfinder Generating Plant. As with the existing RO system, the water supply to the second system will be provided by the existing two well system under water right #561-3/water license #5596-3 (well A) and water right #742-3/water permits #5597-3 & #5861-3 (well B). Flows are anticipated to be on the same order as those for the existing RO system. The purified water from the RO system will be used for air inlet fogging on the existing combustion turbines (units 4 and 5) to improve generating efficiency during summer months. Please note that flows for a second RO system have been accounted for during previous water rights permitting and licensing in anticipation of air quality control supply needs for possible future units 6 and 7. However, new air quality control technology for any future combustion turbine units will likely not require water injection for NOx control, but rather will require some other best available control technology. Therefore no substantial increases beyond the presently planned two RO systems and their associated water flows are anticipated.

Thanks for your review of this information. If there are any questions or concerns, please call me at 612-330-6625. Once you have reviewed the information, a letter of confirmation would be appreciated for our files. Thanks again.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Bodensteiner". The signature is fluid and cursive, with a large initial "J" and a long, sweeping underline.

Jim Bodensteiner
Sr. Environmental Scientist

encl:

c: ERAD Records Center
Marv VanKekerix
Chuck Donkers
John Chelstrom
Terry Coss



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3181
www.state.sd.us/denr

March 7, 2000

Jim Bodensteiner
Northern States Power Company
414 Nicollet Mall
Minneapolis, MN 55401

Dear Mr. Bodensteiner:

I am writing in response to your February 23rd letter to John Hatch regarding water use at the Angus Anson Site and Pathfinder Generating Plant. Northern States Power (NSP) intends to install and operate a second reverse osmosis system. We have reviewed NSP's water rights to determine whether any water right permitting may be necessary.

Northern States Power holds a number of water rights from ground water for industrial uses at the plant. All these water rights are associated with two wells developed into the Split Rock Creek Aquifer. The following table provides a summary of these water rights.

Water Right (Permits)	Total Appropriation	Well Location
561-3 5596-3	1.11 cfs (498 gpm)	SW¼ NW¼ Sect. 32, T102N, R48W
742-3 5597-3 5861-3	1.77 cfs (794 gpm)	NW¼ Sect. 32, T102N, R48W

The submitted information indicates the peak diversion rates will not exceed the combined authorized quantities of 1,292 gpm listed in the table. If this is indeed true, no additional water right permit will be necessary. However, if peak diversion rates exceed the amounts shown in the table, a new water right permit will need to be obtained for the additional quantity of water being diverted.

If you have any questions, please contact Eric Gronlund 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

November 12, 2003

5861-3

Northern States Power Company
c/o Timothy Brown
7100 E Rice St
Sioux Falls SD 57110

Dear Mr. Brown:

On October 14, 2003 the investigation of the water use system, including the extent of application of water to beneficial use, as developed under Water Permit No. 5861-3, was completed by Lynn Beck, a staff engineer with our program. The final water right document, the water license, can now be issued.

State law requires that we charge a \$50.00 fee for the investigation and issuance of the water license. Upon receipt of the \$50.00 fee, we will complete processing the water license. The check or money order for the fee should be made payable to the "Water Rights Program".

A licensed water right will be similar to a property right that can not be lost as long as the water use continues and you abide by the permit requirements.

If you have any questions regarding the water permit, investigation of the water use system or payment of the fee, please contact Genny McMath with our program at (605) 773-3352.

Sincerely,

Karen Schlaak

Karen Schlaak
Water Rights Program
(605) 773-3352

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Energy

Date December 23, 2003

RECEIVED OF XCEL ~~ENERGY~~ Northern States Power Co., 414 Nicollet Mall, Minneapolis MN

554C1

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>5861-3</u>		
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	50.00

No.

000004

By

David Erbe
Chief Engineer

Permit Nos. 5597-3 and 5861-3

Big Sioux River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

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

I have this day, **October 14, 2003**, made a thorough examination of the water use system constructed by **Northern States Power Company** of **414 Nicollet Mall, Minneapolis MN 55401-1927** holder of Permit Nos. **5597-3 and 5861-3**, bearing the priority of **October 3, 1991 and September 17, 1995** authorizing the diversion of **0.22 and 1.44** cu. ft. per second of the waters of **Split Rock Creek aquifer** for **industrial** purposes, in **Minnehaha** County.

Inspection contact & relationship **Tim Brown, Plant Superintendent**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: **Huron Well Drilling**
- 2) No. of Wells **1**
- 3) Depth(s) **177** feet
- 4) Well log is available **yes**
- 5) Comment:

Casing:

- 1) Diameter **12** inches
- 2) Length **147** feet
- 3) Type **steel**

Screen:

- 1) Type **stainless steel**
- 2) Length **30** feet
- 3) Static water level **60** feet

Pump:

- 1) Make **Fairbanks Morse submersible**
- 2) Model **10M8**
- 3) Size
- 4) Capacity **500** GPM

Motor:

- 1) Make Fairbanks Morse submersible
- 2) Model No.
- 3) Horsepower rating 60 hp

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

- 1) Type steel
- 2) Size 6 inches
- 3) Length 3900 feet

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by yes
- 2) Exceptions to compliance are: none

The system is in good condition with the point of diversion located as follows: 1240' S and 50' E of the NW corner of Section 32, T102N, R48W. The works are capable of diverting and conveying to the place of use 1.11 cu. ft. per second of water which is to be used for industrial purposes. Water has been put to beneficial use to the maximum extent as follows:

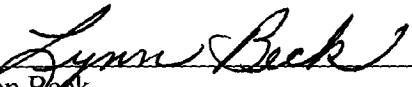
Power plants sanitary source of water and as a back-up water supply for main plant operations.

The license should be issued for a combined 1.11 cfs.

All structures, wells and lands on map yes

Comments or other permit(s) associated with the project:

License No. 742-3 authorizes 0.11 cfs from one well, priority date 9-17-60; Permit No. 5597-3 authorizes 0.22 cfs from the same well, priority date 10-3-91; Permit No. 5861-3 authorizes 1.44 cfs and a replacement well for 742-3 and 5597-3, priority date 4-13-95; for a total combined diversion of 1.77 cfs. 742-3 and 5597-3 should be incorporated with 5861-3 when licensed for a combined diversion rate of 1.11 cfs.



Lynn Beck

Natural Resources Engineer Specialist
DENR, Water Rights Program

Date report completed: November 7, 2003

SINCE 1911

HURON DRILLING, INC.

All Types Well Drilling & Repairing

P.O. BOX 1422

HURON, SOUTH DAKOTA 57350

605-352-8538 • 1-800-332-9355 • FAX 605-352-8571

PUMP DATA - WELL COMPLETED SEPTEMBER 1997

12" Monitor pitless 6' bury - 6" drop pipe - 6" discharge water tight cap.

60 HP Fairbanks Morse submersible pump - 460 volt 3 phase 1800 RPM - 500 GPM - 380 TDH

Pump model 10 M 8 stage Ser # T462-465404
Motor Ser # M96 G 8925901H

6" steel drop pipe 10' lengths ~~epoxy~~^{PVC} coated inside and out

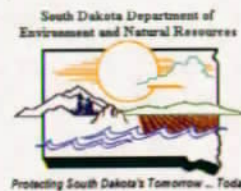
No. 4 flat wire rubber jacketed cable fastened with stainless steel bands

Pump 14' long top to bottom - 6" line ck flowmatic

Water Right No. 5597-3 and 5861-3 Northern States Power Company



Lynn Beck
Lynn Beck
Natural Resources Engineering Specialist
DENR, Water Rights Program
November 7, 2003



STATE OF SOUTH DAKOTA

WATER LICENSE NO. 5861-3

(1) Northern States Power Company, 414 Nicollet Mall, Minneapolis MN 55401-1927 made Application No. 5861-3, December 23, 1994 for a water permit to divert an additional 1.44 cubic feet of water per second (cfs) from groundwater (one well), Minnehaha County, South Dakota for industrial purposes. Permit No. 5861-3, with a priority date of April 13, 1995 was approved July 17, 1995 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 17, 2000 and for the application to beneficial use of water on or before July 17, 2004.

The permit holder submitted a *Notice of Completion of Works and Application of Water to Beneficial Use* on February 6, 1998. The *Notice* stated the diversion system was completed on September 30, 1997 and the water placed to beneficial use on January 8, 1998.

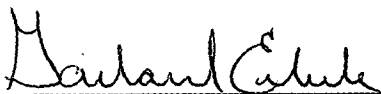
Water Right No. 742-3, with a priority date of September 17, 1960 authorized diversion of 0.11 cfs and Water Permit No. 5597-3, with a priority date of October 3, 1991 authorized diversion of an additional 0.22 cfs; both from the same well as authorized by Permit No. 5861-3. The applicable portions of Water Right No. 742-3 and Water Permit No. 5597-3 are incorporated into No. 5861-3.

(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, the holder and/or owner of Incorporated Water Right No. 5861-3 is issued a license, bearing priority dates of October 3, 1991 (0.11 cfs), September 17, 1960 (0.22 cfs) and April 13, 1995 (0.78 cfs) to appropriate 1.11 cubic feet of water per second from groundwater (one well) for industrial purposes.

The diversion point is located: 1,240 feet south and 50 feet east of the northwest corner of Section 32-T102N-R48W (NW ¼ NW ¼).

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 5861-3 including the following now applicable 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.
- The well authorized by Permit No. 5861-3 shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28.
- That Northern States Power Company shall report to the chief engineer annually the amount of water withdrawn each year from the Split Rock Creek Aquifer.



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

APR 23 2004

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

APR 23 2004

5861-3

Northern States Power Company
414 Nicollet Mall
Minneapolis MN 55401-1927

Dear Sir:

Enclosed is Water License No. 5861-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 001004 in the amount of \$50.00 which you paid for the investigation and issuance of the Water License.

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