

Considered: _____

WATER PERMIT NO. 4990-3

MAP No. 4990-3

Name of Applicant Sioux Rural Water System

Post Office Address R.R. 4, Watertown, SD 57201

Amount of Water Claimed ^{1.00 cfs} 720 ac feet annually Total Acres -

Source of Water Supply ground water (3 wells)

Water to be used for RWS County Hamlin, Codington, Deuel and Clark

About _____ miles _____ of _____

PROOF OF PUBLICATION: Received ^{Watertown 1-13-84} Hamlin Co 1-13-84 ^{Clear Lake 1-16-84} Clark Co. 2-7-84 Not Received _____

APPLICATION: Approved Feb. 15, 1984 Subject to Delete SE⁴ Sec. 15 T115N-R52W

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

PRIORITY _____ Date Received 12/19/83 Fee _____ Remarks _____

12/19/83

Corrected Application Received _____ Period of Annual Use 1/1 to 12/31

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

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

not required

Diversion Points SE¹/₄, Section 15, 115N-52W

SW¹/₄, Section 27-115N-52W and SW¹/₄ Sec. 34-115N-52W

Land to be Irrigated _____

Well Log: Test wells drilled by SD Geological Survey Driller _____ Licensed YES _____ NO _____

Depth of Well 30' + REMARKS _____

Type of Map drawn DeWild Grand Reckert and Associates Co PREPARED BY _____ Reviewed and the Number _____

assigned on 12/23/83 By B.J. Westlund *BW*

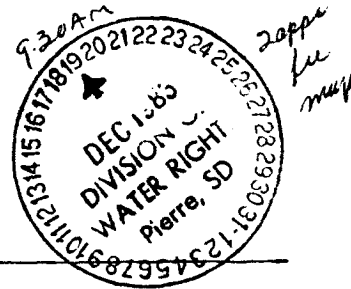
Total fee not received as this date are sending before publication will be sent out.

No. 4990-3 Hydrologic Unit 10170202
 Map No. 4990-3 Basin BIG SIOUX RIVER
 Newspaper HAMLIN CO REPUBLICAN-CASTLEWOOD-CLARK CO COURIER-JACK
PUBLIC OPINION-WATERTOWN-A COURIER-CLEARLAKE

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

Check use of water: Industrial ☐ Commercial ☐ Municipal ☐ Other Common Distribution System ☐
 Rural Water System ☒ Suburban Housing ☐ Geothermal Heat ☐ Institutional ☐ Recreational ☐
 Domestic ☐ (above 18gpm) Other ☐

Type of Application: Check one or more of the following

New ☒ Vested Right ☐ Future Use ☐ Change Use ☐☐ Amend Permit No. _____ with old priority date retainedChange diversion point(s) ☐ Add diversion point(s) ☐ Other ☐☐ Application to: Change diversion point(s) ☐ Add diversion point(s) ☐ on Permit No. _____☐ Construction to use water reserved by Future Use Permit No. _____

- Name of Applicant Sioux Rural Water System Phone No. 882-1321
 Post Office Address R. R. 4 Watertown, State South Dakota 57201
(Street, RR or Box) Zip Code
- Amount of water claimed (c.f.s) 1 cfs = 720 AF/yr
- Source of water supply Ground water-Big Sioux Aquifer
- Location of point of diversion SE $\frac{1}{4}$ Section 15 T115N R52W,
SW $\frac{1}{4}$ Sec. 27 T115N R52W, and SW $\frac{1}{4}$ Sec. 34 T115N R52W
 _____ County Hamlin
- Counties where water will be used Hamlin, Codington, Deuel, Clark
- Annual period during which water is to be used Jan. 1 - Dec. 31

- Give a brief description of proposed project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)
 Well(s) will supply rural residents of counties noted and the communities of Hayti, Hazel, Vienna, Bryant and Naples. Existing supply wells show significant quality deterioration, limiting production of the Hayti well site. Total capacity of any one new well will not exceed 1.0 cfs nor will the total production of one or more wells exceed 720 acre ft./year.

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

STATE OF SOUTH DAKOTA)
 County of HAMLIN)^{ss}

I, EDWIN E. DAVIS the applicant, certify that I have read the foregoing application, 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 Edwin E. Davis
Manager
 Subscribed and sworn to before me this 15th day of DECEMBER 1983
Arthur B. deStet

WATER PERMIT

The Water Management Board hereby approves Water Permit Application No. 4990-3
Sioux Rural Water System RT. 4 Watertown
(Applicant) (Post Office Address)
South Dakota 57201 With the following qualifications.
(State) (Zip Code)

The wells approved under this Permit are located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit, shall control his withdrawals so there is not a reduction of needed water supplies in adequate wells having prior water rights.

Upon approval of Water Permit No. 4990-3 the Water Management Board deleted the SE 1/4 Section 15, T115N, R52W as a potential well site.

Date of first receipt of application December 19, 1983.

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

Date of receipt of corrected application _____, 19____. Approved February 15, 1984.

The Water Management Board hereby approves this Water Permit No. 4990-3 authorizing the construction of the water use system and the placing of water to beneficial use as stated in the Application and as qualified in the Water Permit approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is December 19, 1983.
2. The equivalent of at least one-fifth of the specified work is to be completed on or before August 15, 1986.
3. The whole of said work is to be completed on or before February 15, 1989.
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is February 15, 1993.
5. The water appropriated shall be used for the purpose of Rural Water System
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be unlawfully impaired by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 1.0 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 to which water is actually and beneficially applied for Rural Water System use on or before February 15, 1993; said water to be used during the following described annual period: January 1 thru December 31

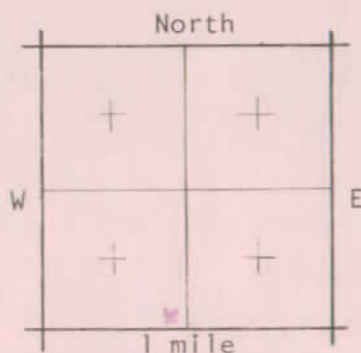
WATER MANAGEMENT BOARD

By: John Hated
Chief Engineer
 Division of Water Rights
 Dept. of Water and Natural Resources

Location SE 1/4 SW 1/4 Sec 34 Twp 15-N Rg 52-W

County _____

Please mark well location with an "X"

Well Completion Date 7-17-84

PROPOSED USE:

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

Method of Drilling:

False casing

WELL CONSTRUCTION:

Diameter of hole 20 inches Depth 38 feetCasing: ☒ Steel ☐ Plastic ☐ OtherSpecify 12" std pipePipe Weight Diameter From To
_____ lb/ft _____ inches +2 feet 26 feet

_____ lb/ft _____ inches _____ feet _____ feet

Was a well screen used? ☒ Yes ☐ No

If Not Specify _____

Screen Type SS Slot Size 100Length 12' Diameter 12"Was Casing left open end? ☐ Yes ☐ NoWas a Packer or seal used? ☐ Yes ☐ No

If so what material? _____

Was well gravel packed? ☒ Yes ☐ NoWas well grouted? ☒ Yes ☐ NoDescribe grouting procedure Cementedup last 5'To what depth? 5' Feet

What was grouting material? _____

If cement, how many sacks? 18

Location of packer(s) and screen or perforated pipe _____

WAS WELL PLUGGED OR ABANDONED ☐ Yes ☐ No
If so how and with what material? _____

Well Owner:

Name Sioax RWSAddress Box 810, Brookings, SD

Well Log:

Depth

Formation	From	To
<u>Gumbo</u>	<u>0</u>	<u>4</u>
<u>Y Clay</u>	<u>4</u>	<u>5</u>
<u>Coarse Gravel</u>	<u>5</u>	<u>19</u>
<u>Clay lens</u>	<u>19</u>	<u>20</u>
<u>Coarse Brown Gravel</u>	<u>20</u>	<u>36</u>
<u>Gravel route</u>	<u>36</u>	<u>38</u>

STATIC WATER LEVEL 3 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 off? _____

WELL TEST DATA:

☒ Pumped☐ Bailed☐ Other

Describe: _____

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

Remarks:

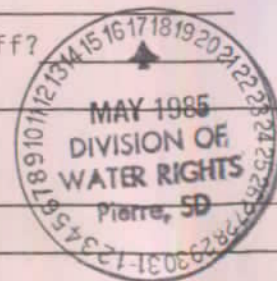
pumped about 500
gpm for 2 days
stayed above screen

This well was drilled under license # 111

and this report is true and accurate.

Drilling Firm Lance Well Drilling, Inc. / DayDate 5-15-85

Signed by _____



SOUTH DAKOTA GEOLOGICAL SURVEY

Location

Location 119N-53W-6ccc

Section:

L.

R.

Test Hole: R2-83-196

Well:

Land Owner:

County: Hamilton

Date: 10-19-83

Elevation: 1685 (ft)

E-Log: *No*

Samples: 2-70
20-30
30-38

Drilling Company: SDGS

Project: Turner-McCook RWS

Geologist: D. Holly LONG. 97° 08' 51"
LAT. 44° 38' 14"

Rotary:

Auger:

Driller: M. Janett.

Thickness	Lithologic Description	From - to Feet
0-2	Silt, grayish-black sandy (topsoil)	
2-19	Sand and gravel ^{sand} medium to very ^{fine} coarse gravel; mostly subrounded quartz. Carbonate and anisic dark crystalline rock fragments	
19-38	Sand and gravel medium sand to ^{fine} gravel. Mostly same medium gravel below 30 feet; mostly ^{sub} angular to subrounded carbonate and black crystalline rock fragments and quartz	
38-40	Clay, medium dark gray, silty, sandy gravelly; unoxidized calcareous, (LCP)	
Total casing & screen 38'		
5' sandpoint and 5' hookline		
5' slots above.		
Development cost 850		
M.P. 2.4'		
H.L. 17.2 10-20-83		
GWA 1670	W.L. 17.1	11-3-83
	Cost 800	HSX-83 and HSX-83

Cond 400 11-9-83

114N-52W-35DBAB 09 27 37 292.50 0 21 119 6.9 0.07 0.05 1.3 3.9 0 0 0 0.658683 0 0 0 0 0 550.835 4.44112 1.17442

CBS MG_MEQ FE_MEQ MN_MEQ K_MEQ HCO3_MEQ CO3_MEQ CL_MEQ F_MEQ NO3_MEQ SO4_MEQ CATIONS ANIONS SUM PER_DIFF

1 3.04276 0.00179083 0.00254623 0.176471 4.79449 0 0.592334 0.0684211 0.278373 2.47762 8.83911 8.21124 462.437 3.68248

Hardness (Ca, Mg) = 375

SAMPLENO=HSX006

CBS LOC CA NA MG HCO3 CO3 CL SO4 K 121 7.1 0.46 0.07 0.13 0 0 0 0.678466 0 0 0 0 450.678 4.09182 0.565463

2 115N-52W-35DBAB 82 13 32 243.8 0 9 121 7.1 0.46 0.07 0.13 0 0 0 0.678466 0 0 0 0 450.678 4.09182 0.565463

CBS MG_MEQ FE_MEQ MN_MEQ K_MEQ HCO3_MEQ CO3_MEQ CL_MEQ F_MEQ NO3_MEQ SO4_MEQ CATIONS ANIONS SUM PER_DIFF

2 2.63158 0.00250716 0.0167455 0.181586 3.99541 0 0.253857 0.00684211 0 2.51926 7.4897 6.77537 384.636 5.00753

Hardness (Ca, Mg) = 336

SAMPLENO=HSX007

Preliminary Report

Hardness (Ca, Mg) = 329

3 114N-52W-03BAAA 87 17 26 255.99 0 6 101 4.04 0.07 0.05 0.27 2.4 0 0 0 0.703428 0 0 0 0 472.671 4.34132 0.739452

CBS L OC C CN MG HCO3 CO3 CL SO4 K 101 4.04 0.07 0.05 0.27 2.4 0 0 0 0.703428 0 0 0 0 472.671 4.34132 0.739452

PER_DIFF

3 2.13816 0.00179083 0.00254623 0.176471 4.79449 0 0.592334 0.0684211 0.278373 2.47762 8.83911 8.21124 462.437 3.68248

SAMPLENO=HSX008

CBS LOC CA NA MG HCO3 CO3 CL SO4 K 101 4.04 0.07 0.05 0.27 2.4 0 0 0 0.703428 0 0 0 0 472.671 4.34132 0.739452

PER_DIFF

4 114N-52W-04AAAA 91 21 34 280.37 0 5 95 2.3 0.08 0.31 0.28 4.9 0 0 0 0.69599 0 0 0 0 538.773 4.54092 0.913441

CBS MG_MEQ FE_MEQ MN_MEQ K_MEQ HCO3_MEQ CO3_MEQ CL_MEQ F_MEQ NO3_MEQ SO4_MEQ CATIONS ANIONS SUM PER_DIFF

44° 45' 58"

Location

T.

Land Owner:

Date: 7-27-83

Elevation: 1685(T)

Samples: 5-15
15-21

Drilling Company: SDGS

Geologist: D. Holly

Auger:

Driller: S. Mitchell

[illegible]

SAS

9:34 TUESDAY, SEPTEMBER 13, 1983

3.53518 0.00179083 0.00182017 0.0409207 4.59472 0 0.169238 0.0157895 1.07066 2.7691 8.64095 8.61952 493.263 0.12418

SAMPLEND=HSX023

Preliminary Report

Hardness (Ca, Mg) = 271

1 115N-52W-150CCC 64 13 27 255.99 0 11 74 2.5 0.13 0.05 0.21 5.7 0 0 0 0.66787 0 0 0 0 370 554 3.19361 0.565463

PERIODIC

2.22039 0.00179083 0.00473244 0.0639386 4.19518 0 0.31027 0.0110526 0.406852 1.5407 6.04993 6.46406 342.994 -3.3093

SAMPLEND=HSX024

Hardness (Ca, Mg) = 509

1 114N-53W-230AAA 128 23 46 316.94 0 12 502 4.3 0.78 0.05 0.22 0.23 0 0 0 0.768116 0 0 0 0 742 966 6.38723 1.00043

coded

Drilling log

115N-52W-27c666

SOUTH DAKOTA GEOLOGICAL SURVEY

#2A - up gravel at 1/2 mi. on E side.
Location
Preliminary Report
R.

Location 115N-52W-27c666

Section:

T.

Test Hole: CO-83-102

Well: CO-83-102

Land Owner:

County: HAMLIN

Date: 7-20-83

Lat: 44 44 20
Elevation: 1685 (f) Long: 97 04 02

E-Log: No

Samples: 2-12
12-31

Drilling Company: SDGS

Project: HAYTI-STEAK RWS

Geologist: A. J. - M. PALM

Rotary: ✓

Auger:

Driller: Stu (#1) Mitchell

Thickness	Lithologic Description	From - to Feet
0-2	SILT, BROWN, SANDY, CLAYEY (TOP SOIL)	
2-7	GRAVEL; FINE, SANDY, Assorted BLACK ^{CRYSTALLINE} ROCK FRAGMENTS with some carbonate and quartz fragments.	
7-12	GRAVEL - MEDIUM TO COARSE, SANDY, MISCELLANEOUS BLACK CRYSTALLINE ROCK FRAGMENTS WITH SOME CARBONATES.	
12-31	GRAVEL MEDIUM SAND, FINE GRAVEL TO VERY COARSE SAND, MISCELLANEOUS BLACK CRYSTALLINE ROCK FRAGMENTS WITH CARBONATE ROCK FRAGMENTS AND SOME QUARTZ	
31-56	Clay with SAND AND GRAVEL, FINE GRAVEL TO COARSE SAND, CLAYEY MISCELLANEOUS BLACK CRYSTALLINE FRAGMENTS and some CARBONATE and QUARTZ FRAGMENTS.	
TOTAL DEPTH 56'		
TOTAL CASING AND SCREEN - 33'		
5' sand pt. 5' slotted above screen		
gravel packed well. 1.2' stick up		
2" PK SCH. 50		
0-2 Top soil	W.L. 9.8 7-26-83	
2-7 FINE GRAVEL		
7-12 MED GRAV		
12-31 FINE GRAV		
31-56 FINE GRAV - COARSE SAND CLAYEY		
0-2 Top soil		
2-31 Sand and gravel		
5-56 Clay, medium dark gray		
W.L. 10.2 11-4-83	12-31	HSX-83-48
Cand 600 11-4-83	31-56	and HSX-83-13
		GWA 1676

SAMPLENO=HSX012

$$\text{Hardness (Co, Mg)} = 839$$

I U O M
 Σ 3
 Z 4
 U 4
 J U U
 O B V

339999

[illegible]

CATIONS
 SO4 12.50
 NO3 12.50
 F 12.50
 Cl 12.50
 CO3 12.50
 IO3 12.50
 X 12.50
 Zn 12.50
 Fe 12.50
 Cu 12.50
 0.00

8 0.33224 0.00823782 0.00946487 0

SAMPLENC=HSX013

Saint-Lo

[illegible][illegible]

	0	1	2	3	4	5	6	7	8	9
0	0.451302	0.0126316	0.00356888	2.83156	8.54884	8.09356	454.393	2.73567		

$$\text{Hardness } (C_{a, M_5}) = 314$$

SAMPLENO=HSX014

$$\text{Hardness (Ca, Mg)} = 357$$

S O F
C L
C O M

I C O S

Σ U
Z A
C A

J O U

O . B . S

Table with 12 columns: OBS N, LOC, CA, NA, MG, HCO3, CO3, CL, SO4, K, MN, FE, F, NO3_N, AS, CD, MO, B, C_COND, CR, ZN, PB, HG, SE, TDS, COND, CA_MEQ. Includes handwritten notes like '428 BAP 12/2' and circled values.

Table with 13 columns: OBS N, LOC, CA, NA, MG, HCO3, CO3, CL, SO4, K, MN, FE, F, NO3_N, AS, CD, MO, B, C_COND, CR, ZN, PB, HG, SE, TDS, COND, CA_MEQ. Includes handwritten note 'Data OK 12/5/83 mce' and circled values.

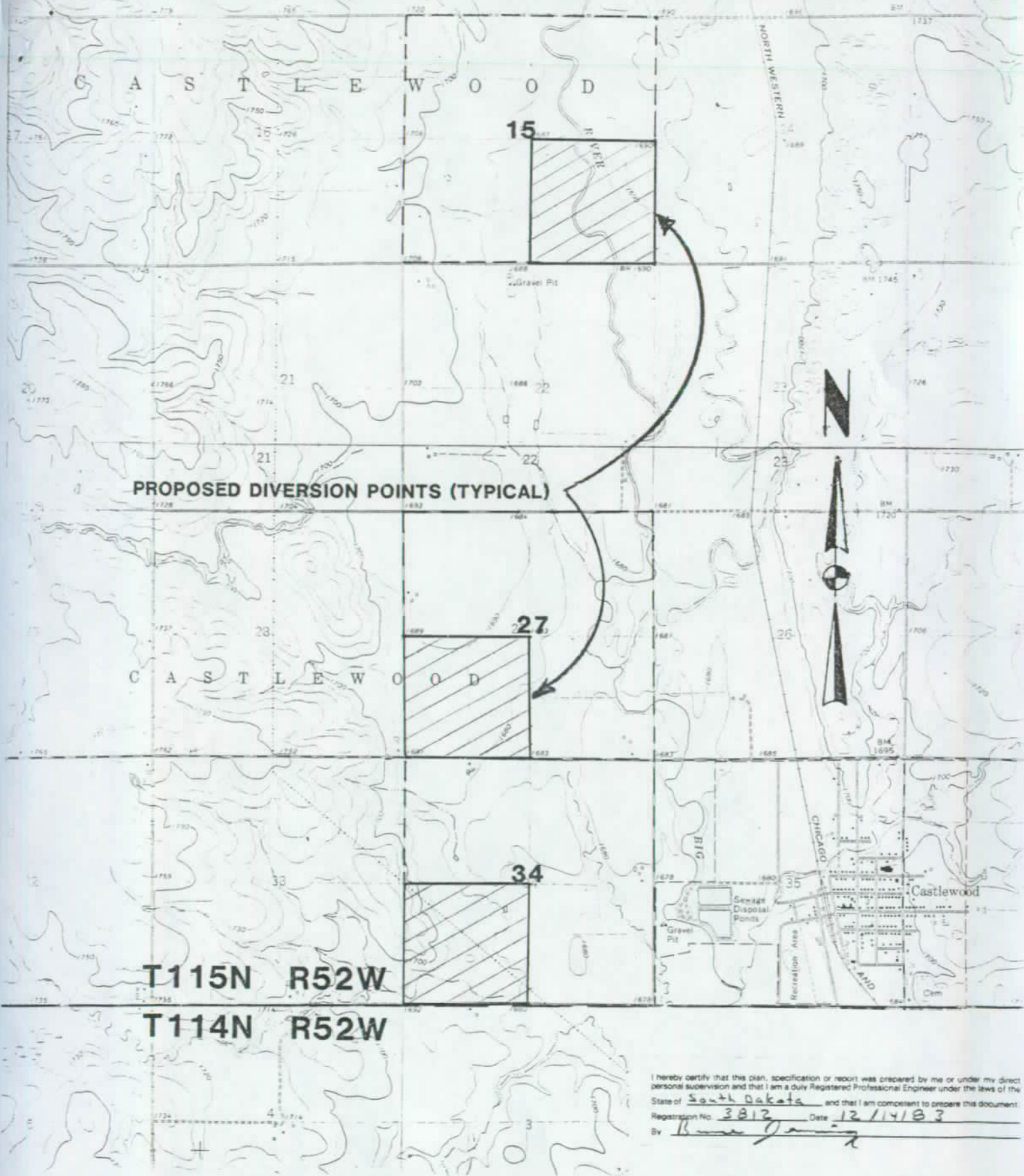
Table with 14 columns: OBS N, LOC, CA, NA, MG, HCO3, CO3, CL, SO4, K, MN, FE, F, NO3_N, AS, CD, MO, B, C_COND, CR, ZN, PB, HG, SE, TDS, COND, CA_MEQ. Includes handwritten note 'Data OK 12/5/83 mce' and circled values.

Table with 15 columns: OBS N, LOC, CA, NA, MG, HCO3, CO3, CL, SO4, K, MN, FE, F, NO3_N, AS, CD, MO, B, C_COND, CR, ZN, PB, HG, SE, TDS, COND, CA_MEQ. Includes handwritten note 'Data OK 12/5/83 mce' and circled values.

Preliminary Report

Table with 16 columns: OBS N, LOC, CA, NA, MG, HCO3, CO3, CL, SO4, K, MN, FE, F, NO3_N, AS, CD, MO, B, C_COND, CR, ZN, PB, HG, SE, TDS, COND, CA_MEQ. Includes handwritten note 'Data OK 12/5/83 mce' and circled values.

Table with 17 columns: OBS N, LOC, CA, NA, MG, HCO3, CO3, CL, SO4, K, MN, FE, F, NO3_N, AS, CD, MO, B, C_COND, CR, ZN, PB, HG, SE, TDS, COND, CA_MEQ. Includes handwritten note 'Data OK 12/5/83 mce' and circled values.



I hereby certify that this plan, specification or report was prepared by me or under my direct personal supervision and that I am a duly Registered Professional Engineer under the laws of the State of South Dakota and that I am competent to prepare this document.
Registration No. 3812 Date 12/14/83
By Bruce J. Janning



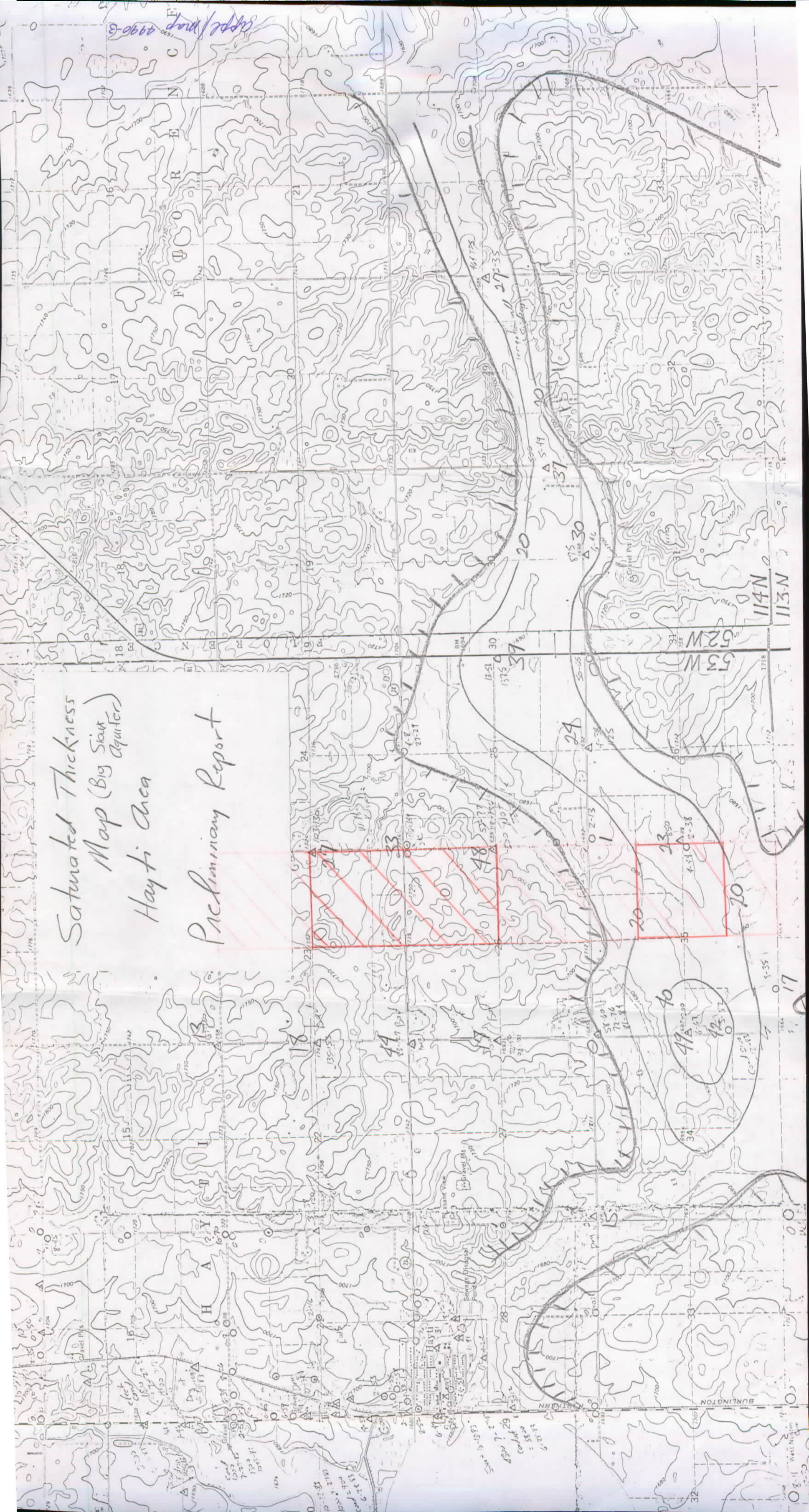
DeWitt Grant Reckert & Associates Co.
Architecture Engineering Planning
Rock Rapids, Iowa
Sioux City, Iowa
Sioux Falls, South Dakota

Date 12/14/83
Drawn By DPH
Approved
Revised

SIoux RURAL WATER SYSTEM

Saturated Thickness
Map (Big Slat
Aquifer)
Hayti Area
Preliminary Report

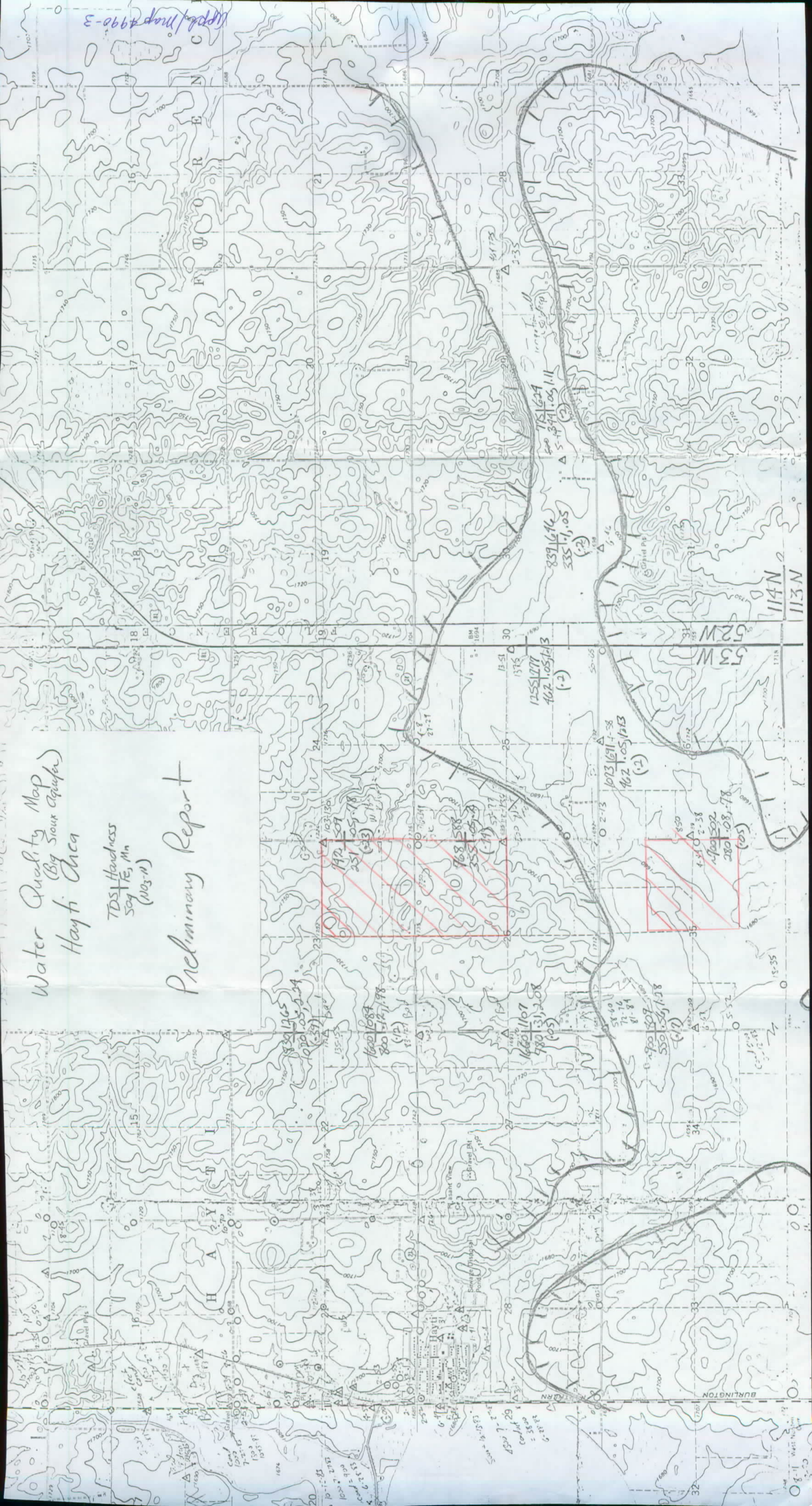
Apple Map 4990-3



Water Quality Map
(Big Sioux Aquifer)
Hayti Area

TDS Hardness
Sog Fe, Mn
(NO₃-N)

Preliminary Report



USGS Map 490-3

114N
113N

53W
52W

142.507
251.05.18
(.23)

168.588
355.05.14
(.14)

103.691.4.38
462.05.12.13
(.2)

1400.502
280.08.17
(.05)

166.1107
480.31.2.08
(.05)

190.809
550.56.1.38
(.2)

168.200
6.67
5.52

839.1265
1020.05.2.14
(.59)

1600.1084
800.12.1.98
(.12)

166.1107
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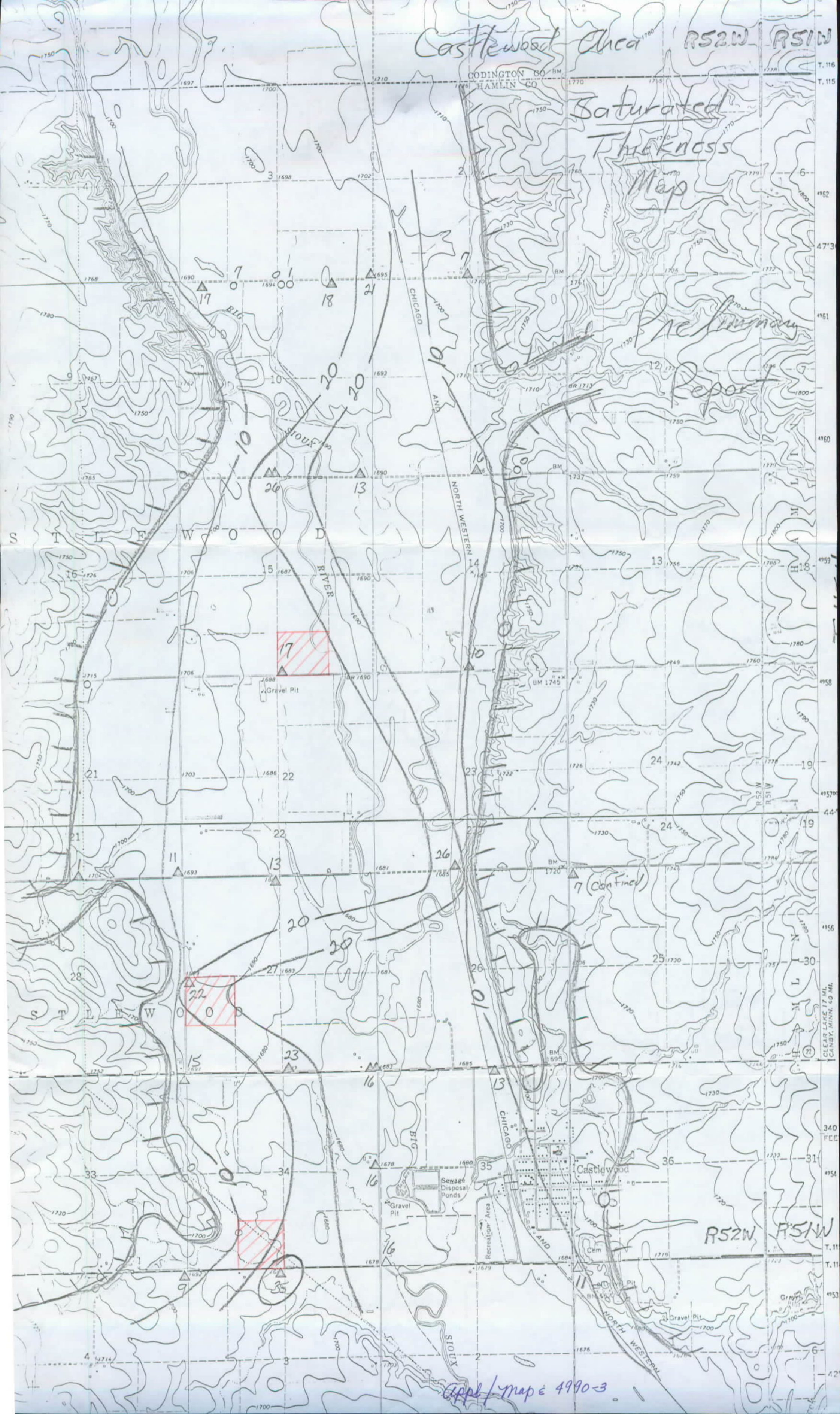
Castlewood Area

R52W R51W

CODINGTON CO. ILM
HAMLIN CO.

Saturated
Thickness
Map

Preliminary
Report



RECEIPT

Division of Water Rights

No 4 9447

South Dakota Department of Water and Natural Resources

Pierre, December 21, 1983, 19

RECEIVED OF Sioux Rural Water System, BOX 888, RR #4, Watertown, SD 57201

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

Fee for Application for Permit No. 4990-3 to Appropriate Water, to construct works and to put water to beneficial use	275	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	275 00

By

Chief Engineer

JOHN HATCH/ms

RECEIPT

Division of Water Rights

No 4 9467

South Dakota Department of Water and Natural Resources

Pierre, January 3, 1984

RECEIVED OF Sioux Rural Water System, RR #4, Watertown, SD 57201

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

Fee for Application for Permit No. 4990-3 to Appropriate Water, to construct works and to put water to beneficial use	50	00
Fee for Application for Permit No. to Appropriate Water for Future Use		
Fee to retain Future Use Permit No. after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No.		
Fee for Filing Transfer Form		
Fee for Filing Extension Request		
Fee for Certified Copy of		
Fee for Print Copy of Map		
Fee for Certifying		
Fee for		
(Any Other Work Provided by Law)	Total	50 00

By

Chief Engineer

JOHN HATCH/ms

DeWild Grant Reckert & Associates Co.

Architecture Engineering Planning

315 First Avenue
Rock Rapids, IA 51246
Telephone 712 472 2531

11111



December 14, 1983

Division of Water Rights
Department of Water & Natural Resources
Joe Foss Office Building
Pierre, South Dakota 57501

Attention: John Hatch

Re: Sioux Rural Water System

Dear John:

Please find enclosed completed applications for the Sioux Rural Water System for a new well field near Castlewood, South Dakota. This water source location was identified by the South Dakota Geologic Survey during their recent study of the Hayti area.

Please contact me if you have any questions relative to this application.

Sincerely,

DEWILD GRANT RECKERT
& ASSOCIATES COMPANY


Bruce A. Jennings, P. E.

BAJ:mrw
Enclosure

cc: Ed Davis

50
add in
file

DEPARTMENT OF WATER AND NATURAL RESOURCES
SOUTH DAKOTA GEOLOGICAL SURVEY
Science Center, USD
Vermillion, SD 57069
(605) 624-4471

December 15, 1983

Mr. Jonn Hatch
Division of Water Rights
Department of Water and Natural
Resources
Joe Foss Building
Pierre, SD 57501



Dear John:

At the request of John Madden, DeWild Grant Reckert & Associates, Rock Rapids, Iowa (engineer for the Sioux Rural water System), I am forwarding some preliminary findings from the Hayti-Sioux Rural water System ground-water study conducted by our office. Most of the field work for the study was completed by the first week of November of this year. Presently the data are being edited and prepared for final analysis and interpretation.

The preliminary findings, which I have discussed with John Madden via the telephone, are summarized below. I have enclosed copies of the field data, preliminary water quality data, saturated thickness maps and water quality maps for the areas discovered.

Please keep in mind that the analysis of all of the data is not complete and the preliminary reports enclosed may be subjected to change, modification and re-interpretation.

Preliminary data indicate three general areas where aquifers would probably satisfy quantity and quality requirements for the Sioux Rural water System.

1. Big Sioux Aquifer (North Management Unit) west and north of Castlewood:

The areas recommended are T115N-R52W-15dc, T115N-R52W-27cb, and T115N-52W-34cd (see enclosed data and maps). A typical well developed in the unconfined aquifer in these areas might be 30 feet deep with the lower 20 feet being saturated sand and gravel. The expected water quality would be in the neighborhood of: total dissolved solids 480 mg/l; hardness 300 mg/l; sulfate 110 mg/l; iron 0.5 mg/l; and manganese 0.4 mg/l. (See water quality map for site specific values.) The areas recommended were selected because of the slightly better water quality than the rest of the area tested during this investigation. Also, this water is of better quality than the water presently being pumped from the

Hayti well field. It should be noted also that poorer quality ground water does exist in the area (see water quality map). Also please note the anomalously high nitrate-nitrogen value (59 mg/l) in observation well T115N-R52W-34addd which is located approximately one-half mile northeast from one of the areas recommended. The proximity of the areas recommended to existing irrigation wells is now being reviewed.

2. Big Sioux Aquifer (Brookings Management Unit) southeast of Hayti:

The area recommended is T114N-R53W-35 central portion of E 1/2 (see enclosed data and maps). A typical well developed in this unconfined aquifer might be 40 feet deep with the lower 25 feet being saturated sand and gravel. However, it should be noted that this area is collapsed outwash and rapid changes in the thickness of sand and gravel is likely. The expected water quality would be in the neighborhood of: total dissolved solids 750 mg/l; hardness 530 mg/l; sulfate 300 mg/l, iron 0.05 mg/l (probably higher); and manganese 0.60 mg/l. (See water quality map for site specific values.) It should be noted again in this area that poorer quality ground water does exist in the area.

3. Prairie Coteau Aquifer east of Hayti:

The areas recommended are: T114N-R53W-23d and T114N-R53W-26 a (see enclosed data and maps). A typical well developed in this confined aquifer might be 150 feet deep and the thickness of the aquifer 25 feet. The expected water quality would be similar to that shown above for the Big Sioux Aquifer southeast of Hayti. Again poorer quality ground water exists in the vicinity (see water quality map). It is worth noting that the ground-water quality of the recommended areas in the Big Sioux Aquifers (Brookings Management Unit) and Prairie Coteau Aquifer are similar to the quality of water presently being pumped from the Hayti well field of the Sioux Rural Water System.

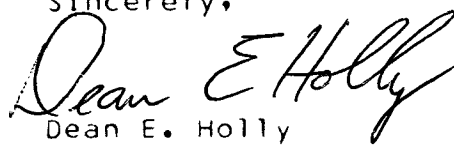
If the Rural Water System should decide to develop a well field in any of the above areas, it is recommended that an aquifer test be conducted to determine the hydro-geologic characteristics of the aquifer. Recommendations on the pumping rate and future well spacing will be based on the results of the aquifer test. Water samples should also be collected during the aquifer test for complete

Mr. John Hatch
December 15, 1983
Page 3

chemical analysis. The South Dakota Geological Survey will provide technical assistance and work closely with the engineering firm in conducting the test and analyzing the aquifer test data.

If you have any questions regarding any of the above, please let Assad or me know.

Sincerely,



Dean E. Holly
Hydrogeologist

For the State Geologist

DEH:co
cc: John Madden
Harold Walkin
Jim Drake

Conversation or File Documentation

NAME OF PERSON OR FILE: Sioux Rural Water SystemADDRESS: RT. 4 COUNTY HamlinDATE: 12-21-83 TELEPHONE 605-692-9600RE: Additional \$50⁰⁰ fee

COMMENTS:

Talked to Larry Kiefler about the additional \$50⁰⁰ needed for this application. The correct fee for 720 acft is \$325⁰⁰. He said they would send it.

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

NAME:

Kevin C. Larson

REPORT ON WATER PERMIT APPLICATION
NO. 4990-3, Sioux Rural Water System
December 29, 1983

Water Permit Application No. 4990-3 requests 1.0 cfs from three 30 foot deep wells in the Big Sioux-North Water Management Unit for rural water system use. The applicant has proposed the following well locations in Hamlin County: SE $\frac{1}{4}$ Sec 15-115-52, SW $\frac{1}{4}$ Sec 27-115-52 and SW $\frac{1}{4}$ Sec 34-115-52.

Discussion

Water quality deterioration in the Hayti well field of the Sioux RWS has made it necessary to locate a new water source. The Hayti well field is in the Big Sioux-Brookings management unit in Section 21, T114N, R53W.

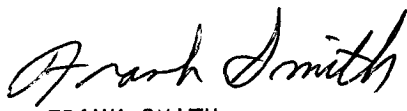
Based on preliminary findings of the Hayti-Sioux RWS Study by Dean Holly of SDGS, the water quality of the Big Sioux-North Management Unit at the three proposed well locations is satisfactory. The Big Sioux-North Management Unit is a glacial aquifer which is under water table conditions in the vicinity of this application. The study indicates that the saturated thickness of the aquifer at the proposed well locations is about 20 feet and occurs from 10 feet to 30 feet below land surface. A pump test has not yet been conducted to determine potential well yield and aquifer characteristics at the proposed sites.

The Big Sioux-North Management Unit underlies 83,400 acres in Codington, Grant, Hamlin and Roberts Counties contains 187,880 acre feet of recoverable water in storage¹. 25,153 acre feet of water are appropriated, which is 13.4% of the estimated recoverable water². Average annual water use is approximately 4,000 acre feet (includes estimates for the City of Watertown and existing wells of Sioux RWS), which is 2.1% of the estimated recoverable water³. Annual use of water from this management unit is only 16% of the annual appropriation, and is probably a more realistic figure to use for determining water availability.

Water level records of six Water Rights observation wells in the Big Sioux aquifer in this area indicates that the aquifer is subject to seasonal fluctuations; but the water supply in the aquifer is not being depleted⁴.

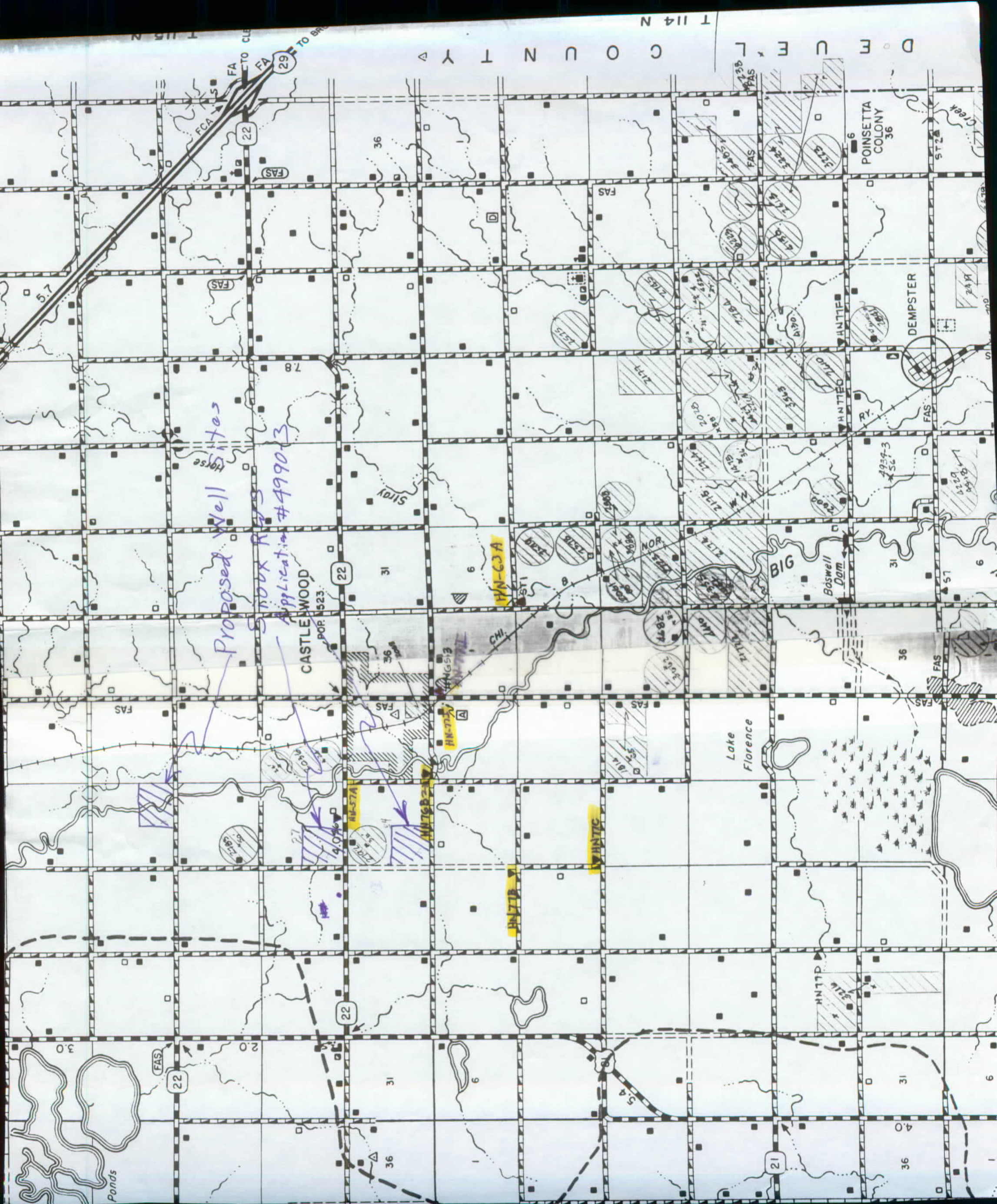
Conclusions

1. Unappropriated water is available for Water Permit Application No. 4990-3.
2. The Big Sioux Aquifer is under water table conditions in the area of Application No. 4990-3. Completion of the proposed wells should not cause interference problems with existing permits and domestic wells.
3. The proposed well locations for Application No. 4990-3 are based on the preliminary recommendation of SDGS, following a groundwater study of the area.


FRANK SMITH
Water Resources Engineer

References

1. Hedges, Burch, Iles, Barari, Schoon, Evaluation of Ground Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, SDGS, Vermillion SD, 1982.
2. Water Rights Files, Division of Water Rights, Pierre SD, 1983.
3. Irrigation Questionnaire File, Division of Water Rights, Pierre SD, 1983.
4. Observation Well File, Division of Water Rights, Pierre SD, 1983.
5. Holly, Dean, Preliminary Report on Hayti-Sioux RWS Groundwater Study, SDGS, Vermillion SD, 1983.



Proposed Well Sites
Shook Rd
Application #4990-3

HN-C3A

HN-72A

HN-72B

HN-77B

HN-77C

POINSETTA COLONY 36

DEMPSTER

BIG

Boswell Dam

Lake Florence

Ponds

DEUEL COUNTY

T 114 N

R 115 W

Additional Qualification:

Upon approval of Water Permit 4990-3
The Water Management Board
deleted the SE⁴ sec. 15-T115N-R52W
as a potential well site.

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT APPLICATION

NO. 4990-3, Sioux Rural Water System

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. 4990-3, Sioux Rural Water System, RR 4, Watertown SD.

The Chief Engineer is recommending APPROVAL of Application No. 4990-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) that the proposed diversion can be developed without unlawful impairment of existing rights, 3) that the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

The wells approved under this Permit are located near domestic wells and other wells which may obtain water from the same aquifer. The well owner, under this Permit, shall control his withdrawals so there is not a reduction of needed water supplies in adequate wells having prior water rights.

The attached report is a part of this recommendation.

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

JOHN HATCH, Chief Engineer
December 29, 1983



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

605 773-3352
Water Rights Division

No. 4990-3

December 29, 1983

Clark County Courier
117 1 E
Clark, South Dakota 57225

Dear Editor:

Enclosed is a Notice of Intent to Appropriate Water by Sioux Rural Water System
Application No. 4990-3, in Clark County, South Dakota. Please
publish this notice once each week for two consecutive weeks in your paper. The first
publication should be on, or before January 4, 1984.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make
the first publication. The applicant is to pay the cost of publication and should
make the necessary arrangements with you to pay these costs.

Please receipt for this notice IMMEDIATELY after first publication attaching thereto
a copy of the first publication so that it may be compared with the records. For
your convenience, you may use the printed form below for this purpose.

After final publication please complete and mail to this office, the enclosed Form
8 to furnish Proof of Publication. The permit to appropriate water cannot be con-
sidered by the Water Management Board until proof of publication has been received.

Very truly yours,

KCL:ms

enclosures

cc: applicant

Kevin C. Larson
Water Resources Engineer

NO. _____

Date _____

TO: Water Rights Division
Joe Foss Building
Pierre SD 57501

We are in receipt of your letter of _____, 19____ enclosing Notice of Proposed
Appropriation of Water, as proposed in Application No. _____ which was first
published in our issue of _____, 19____. ENCLOSED IS A COPY OF THIS FIRST
PUBLICATION.

NAME _____

NEWSPAPER _____

WNR-807-4/83



No. 4990-3

Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

605 773-3352
Water Rights Division

December 29, 1983

Watertown Public Opinion
POB 10
Watertown, South Dakota 57201

Dear Editor:

Enclosed is a Notice of Intent to Appropriate Water by Sioux Rural Water System
Application No. 4990-3, in Codington County, South Dakota. Please
publish this notice once each week for two consecutive weeks in your paper. The first
publication should be on, or before January 5, 1984.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make
the first publication. The applicant is to pay the cost of publication and should
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your convenience, you may use the printed form below for this purpose.

After final publication please complete and mail to this office, the enclosed Form
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sidered by the Water Management Board until proof of publication has been received.

Very truly yours,

KCL:ms

enclosures

Kevin C. Larson
Water Resources Engineer

cc: applicant

NO. _____

Date _____

TO: Water Rights Division
Joe Foss Building
Pierre SD 57501

We are in receipt of your letter of _____, 19____ enclosing Notice of Proposed
Appropriation of Water, as proposed in Application No. _____ which was first
published in our issue of _____, 19____. ENCLOSED IS A COPY OF THIS FIRST
PUBLICATION.

NAME _____

NEWSPAPER _____

WNR-807-4/83



No. 4990-3

Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

605 773-3352
Water Rights Division

December 29, 1983

The Courier
Box 277
Clear Lake, South Dakota 57226

Dear Editor:

Enclosed is a Notice of Intent to Appropriate Water by Sioux Rural Water System
Application No. 4990-3, in Deuel County, South Dakota. Please
publish this notice once each week for two consecutive weeks in your paper. The first
publication should be on, or before January 5, 1984.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make
the first publication. The applicant is to pay the cost of publication and should
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Please receipt for this notice IMMEDIATELY after first publication attaching thereto
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sidered by the Water Management Board until proof of publication has been received.

Very truly yours,

KCL:ms

enclosures

cc: applicant

Kevin C. Larson
Water Resources Engineer

NO. _____

Date _____

TO: Water Rights Division
Joe Foss Building
Pierre SD 57501

We are in receipt of your letter of _____, 19____ enclosing Notice of Proposed
Appropriation of Water, as proposed in Application No. _____ which was first
published in our issue of _____, 19____. ENCLOSED IS A COPY OF THIS FIRST
PUBLICATION.

NAME _____

NEWSPAPER _____

WNR-807-4/83



No. 4990-3

Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

605 773-3352
Water Rights Division

December 29, 1983

Hamlin County Republican
Box 38
Castlewood, South Dakota 57223

Dear Editor:

Enclosed is a Notice of Intent to Appropriate Water by Sioux Rural Water System
Application No. 4990-3, in Hamlin County, South Dakota. Please
publish this notice once each week for two consecutive weeks in your paper. The first
publication should be on, or before January 5, 1984.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make
the first publication. The applicant is to pay the cost of publication and should
make the necessary arrangements with you to pay these costs.

Please receipt for this notice IMMEDIATELY after first publication attaching thereto
a copy of the first publication so that it may be compared with the records. For
your convenience, you may use the printed form below for this purpose.

After final publication please complete and mail to this office, the enclosed Form
8 to furnish Proof of Publication. The permit to appropriate water cannot be con-
sidered by the Water Management Board until proof of publication has been received.

Very truly yours,

KCL:ms

enclosures

cc: applicant

Kevin C. Larson
Water Resources Engineer

NO. _____

Date _____

TO: Water Rights Division
Joe Foss Building
Pierre SD 57501

We are in receipt of your letter of _____, 19____ enclosing Notice of Proposed
Appropriation of Water, as proposed in Application No. _____ which was first
published in our issue of _____, 19____. ENCLOSED IS A COPY OF THIS FIRST
PUBLICATION.

NAME _____

NEWSPAPER _____

WNR-807-4/83

Instruction to Newspaper - Publish first publication of the following Notice on or before January 5, 1984 with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 4990-3 to Appropriate Water
and/or to Amend Water Permit or Water Rights No. _____

Notice is hereby given that Sioux Rural Water System whose mailing address is
RR#4, Watertown,, South Dakota has made an application for a permit

to appropriate 1.00 cubic feet per second from groundwater, 3 wells 30 feet deep in the Big Sioux Aquifer North Management Unit, the points of diversion to be located in the SE $\frac{1}{4}$, Section 15; SW $\frac{1}{4}$ Section 27; and SW $\frac{1}{4}$ Section 34 all in T-115N, R-52W. Said water to be used for the purpose of providing water for a rural water system.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends
Approval of Application No. 4990-3 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at the Civil Defense Room, basement State Capitol Building, Pierre, SD, February 15 19 84 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by February 3, 1984. The petition may be informal, but it must include a statement describing the petitioners interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; (ground) 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; (future use) 46-5-38 thru 46-5-40; (transfer lands) 46-5-30.4, 46-5-33 thru 46-5-35; (10,000 AFA) 46-5-20.1, 46-5-8.1; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; (future use) 74:02:01:24 thru 74:02:01:25; (10,000 AFA) 74:02:01:15:02 thru 74:02:01:15:05.

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

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWRN, Joe Foss Bldg, Pierre SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by February 3, 1984.

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Clark) ss.

I, Bert Moritz hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Clark County Courier

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

State _____ of S. Dak.

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

January 5, 1984

January 12, 1984

Bert Moritz
(Signature)

(Title)

(Date Signed)



Cost of Printing: 89 lines

2 times

\$36.85

**NOTICE OF HEARING on
Application No. 4990-3 to
Appropriate Water**

Notice is hereby given that Sioux Rural Water System whose mailing address is RR No. 4, Watertown, South Dakota has made an application for a permit to appropriate 1.00 cubic feet per second from groundwater 3 wells 30 feet deep in the Big Sioux Aquifer North Management Unit, the points of diversion to be located in the SE¼, Section 15; SW¼, Section 27; and SW¼, Section 34 all in T-115N, R-52W. Said water to be used for the purpose of providing water for a rural water system.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends Approval of Application No. 4990-3 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at the Civil Defense Room, basement, Capitol Building, Pierre, SD, February 15, 1984 at 10:00 a.m.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by February 3, 1984. The petition may be informal, but it must include a statement describing the petitioners interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-

2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16
46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-
thru 46-2A-10, 46-2A-12; 46-6-3, 46-
3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14
and Board Rules ARSD 74:02:01:0
thru 74:02:01:15.

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

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWR, Joe Foss Bldg., Pierre SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by February 3, 1984.

1-5-2t

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Codington) ss.

I, John R. Lowrie hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Watertown Public Opinion

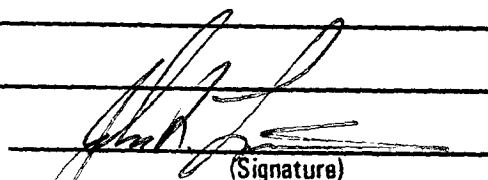
A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the _____

_____ city _____ of _____ Watertown _____

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

January 4th, 1984

January 11th, 1984



(Signature)

General Manager

(Title)

January 11th, 1984

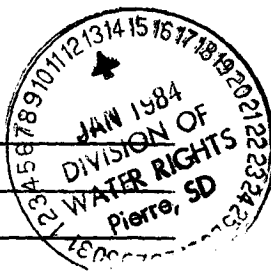
(Date Signed)

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(Jan. 4, 11, 1984)

10" @ 3.30 X 2 = 66.00

Cost of Printing: \$66.00



PUBLIC NOTICE

NOTICE OF HEARING
on Application No. 4990-3 to
Appropriate Water

Notice is hereby given that Sioux Rural Water System whose mailing address is RR #4, Watertown, South Dakota has made an application for a permit to appropriate 1.00 cubic feet per second from groundwater, 3 wells 30 feet deep in the Big Sioux Aquifer North Management Unit, the points of diversion to be located in the SE 1/4, Section 15; SW 1/4, Section 27; and SW 1/4, Section 34 all in T-115N, R-52W. Said water to be used for the purpose of providing water for a rural water system.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends Approval of Application No. 4990-3 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at the Civil Defense Room, basement Capitol Building, Pierre, SD, February 15, 1984 at 10:00 a.m.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by February 3, 1984. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

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

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Deuel) ss.

I, Gary DeJong hereby

certify that the annexed printed copy of Notice of Intent to Appropriate

Water was taken from the Clear Lake Courier

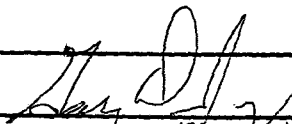
A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the city

_____ of Clear Lake

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

Jan 5, 1984

Jan 12, 1984


(Signature)

Editor and Publisher

(Title)

1-13-84

(Date Signed)

Cost of Printing: 39.97

**NOTICE OF HEARING
ON APPLICATION NO. 4990-3
TO APPROPRIATE WATER**

Notice is hereby given that Sioux Rural Water System whose mailing address is RR#4, Watertown, South Dakota has made an application for a permit to appropriate 1.00 cubic feet per second from groundwater, 3 wells 30 feet deep in the Big Sioux Aquifer North Management Unit, the points of diversion to be located in the SE¼, Section 15; SW¼, Section 27; and SW¼, Section 34 all in T-115N, R-54W. Said water to be used for the purpose of providing water for a rural water system.

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends Approval of Application No. 4990-3 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at the Civil Defense Room, basement Capitol Building, Pierre, SD, February 15, 1984 at 10:00 a.m.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by February 3, 1984. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15, 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10; 46-2A-12; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14) and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.



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

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNR, Joe Foss Bldg, Pierre SD (605-773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by February 3, 1984.
Jan. 5 & 12

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Hamlin) ss.

I, Jack Dorman hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Hamlin County Republican

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

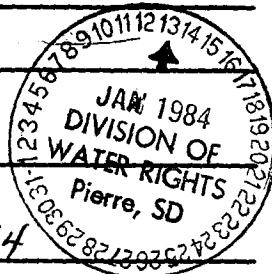
City Castlewood of _____
County of Hamlin and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:

Jan. 5, 1984
Jan. 12, 1984

Jack Dorman
(Signature)

Publisher
(Title)

Jan. 12, 1984
(Date Signed)



Cost of Printing: 102 lines @ 43¢

\$43.86

**PUBLIC
NOTICES**

**Public Notice
Advertising
Protects Your
Right to
Know**

NOTICE OF HEARING
NOTICE OF HEARING on Appli-
cation No. 4990-3 to Appropriate
Water

Notice is hereby given that Sioux
Rural Water System, whose mail-
ing address is RR #4, Watertown,
South Dakota has made an applica-
tion for a permit to appropriate
1.00 cubic feet per second from
groundwater, 3 wells 30 feet deep
in the Big Sioux Aquifer North
Management Unit, the points of
diversion to be located in the
SE 1/4, Section 15; SW 1/4 Sec-
tion 27; and SW 1/4 Section 34 all
in T-115N, R-52W. Said water to
be used for the purpose of providi-
ng water for a rural water system.

Pursuant to SDCL 46-2A-2 the
Chief Engineer of the Water Rights
Division recommends Approval of
Application No. 4990-3 because
1) unappropriated water is avail-
able, 2) will be no unlawful im-
pairment of existing rights, 3) is
beneficial use of water and 4) is
in the public interest.

This application will be consid-
ered by the Water Management
Board at the Civil Defense Room,
basement State Capitol Building,
Pierre, SD, February 15, 1984 at
10:00 a.m.

The recommendation of the
Chief Engineer is not final or
binding upon the Board and the
Board is authorized to make a de-
termination on this application af-
ter it reaches a conclusion based
upon facts presented at the public
hearing. Any interested person
who may be affected by a Board
decision and who intends to parti-
cipate in the hearing before the

Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by February 3, 1984. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-

1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

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

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNR, Joe Foss Bldg., Pierre SD (605-773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by February 3, 1984.
(an. 5,12)

FRANKLIN W. SCHLUETER

OFFICE PHONE 605-352-5121

ATTORNEY AT LAW

HOME PHONE 605-352-6127

FARMERS & MERCHANTS BANK BLDG.

HURON, SOUTH DAKOTA 57350

February 3, 1984

Chief Engineer
Water Rights Division
Water Management Board
DWNR
Joe Foss Building
Pierre, South Dakota, 57501

IN RE: Raymond Zirbes, Castlewood, South Dakota

Dear Sir:

Enclosed herewith is original Petition To Water Rights Division, State of South Dakota, regarding Raymond Zirbes, of Castlewood, South Dakota. This is intended as service upon you by mail.

Cordially yours,

Franklin W. Schlueter
bmt

Franklin W. Schlueter
Attorney At Law
Suite 301 F & M Bank Bldg.
Huron, South Dakota, 57350

FWS/bmt

Enclosure

cc: Raymond Zirbes w/enclosure



STATE OF SOUTH DAKOTA,)
COUNTY OF BEADLE.)

SS:

PETITION TO WATER RIGHTS DIVISION,
STATE OF SOUTH DAKOTA

* * * * *

COMES NOW, Franklin W. Schlueter, as the Attorney for Raymond Zirbes, of Castlewood, South Dakota, and respectfully requests an opportunity for Raymond Zirbes to be heard at the hearing to be held in the Civil Defense Room, Basement, State Capitol Building, Pierre, South Dakota, on February 15, 1984, at 10:00 o'clock A.M.; and, to presently inform the Water Rights Division, of the State of South Dakota, that he objects to any approval of any application dealing or encroaching upon water right as it affects the Southeast Quarter (SE $\frac{1}{4}$) of Section Fifteen (15), in Township One Hundred Fifteen North (115 N), Range Fifty-Two (52), West, inasmuch as he is the owner of such land, and no person on behalf of the Sioux Rural Water System, whose mail address is Rural Rte. #4, Watertown, South Dakota, 57201, or anyone else has made any approach, or have had any discussion with him, as to their Application 4990-3 to appropriate water, naming his land as the source to appropriate water from; and, if anyone does wish to have an application dealing with water rights upon the above described property, and especially as it affects three (3) wells thirty feet (30') deep in the Big Sioux Aquifer North Management unit, with any approval of such Application should be with certain restrictions and conditions that are protective to the land.

That he is aware of such Application, solely as a result of his reading the Notice To the Public, as found in the Castlewood paper, of Castlewood, South Dakota, that he first saw on Thursday, January 5, 1984.

That thereafter, he had visited with his Attorney, Franklin W. Schlueter, Attorney At Law, Suite 301 F & M Bank Bldg., 50 Third Street S. W., Huron, South Dakota, 57350, Phone: (605) 352-5121, who informed him that he had called the Office of Water Rights Division, State Government, Pierre, South Dakota, at their phone number 773-3352, in order to be more fully informed as to the purpose of Application; and, on Wednesday, February 1, 1984,

he was contacted for the first time by, after the call made by the attorney, a person involved with Sioux Rural Water System. Raymond Zirbes is the owner of the land affected, as hereinabove stated. He does not want any person to dig any wells upon his land, without first making arrangements or securing consent from himself as the owner, that such consent be as the result of discussion between himself and the party wishing to dig, and not as a result of reading a public notice in the paper, and any consent that he would give would be conditioned upon certain restrictions, and understandings and agreements as to protection of the land.

Petitioner knows that where wells are dug for water systems, inevitably there are pipes that must be extended from the well site to delivery points of the water in the water system making application. That he has already met various pipeline companies, has previously given consent to others to dig across his land, and after such digging is completed it is his impression that the only interest that those parties had in crossing his land, was to see how much of the land could be destroyed; and, before he would give consent for another digging operation, or pipeline operation across this land, he would insist and request this Board to require as conditions of permits to be given, that all matters affecting or preserving top soil, native grass, elimination of rock picking, restoration of land, having designated and specified rights of and locations of entry, access to and from such wells, and any pipelines laid, with reasonable formula such as severance of top soil, with digging, excavating to be completed and restoration of top soil in its original location, control of noxious weeds, removal of rocks, reasonable tilling or plowing of ground where compaction may occur; and, until such applicant makes provision or agrees with this Board for this owner, in order to provide protection for the land and its soil, this owner respectfully requests that this Petition of the Applicant be denied.

Further, your Petitioner requests that any hearing to be had relating to this, be had within a reasonable distance of Castlewood, South Dakota; Watertown, South Dakota; or Clear Lake, South Dakota; for the convenience of witnesses, together with their evidence and testimony might be conveniently taken for the convenience of the witnesses who would attend such hearing. This Petition

FRANKLIN W.
SCHLUETER

ATTORNEY AT LAW

SUITE 301

FARMERS & MERCHANTS

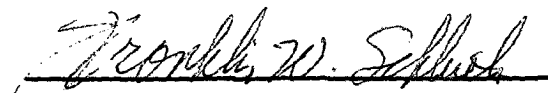
BANK BLDG.

HURON, S. D. 57350

PHONE 605-352-5121

is filed with the Chief Engineer of the Water Rights Division,
the Water Management Board, at the address given in the public
notice as published, as being Water Rights Division, DWNR,
Joe Foss Building, Pierre, South Dakota, 57501.

Dated at Huron, Beadle County, South Dakota, this 3rd
day of February, 1984.


Franklin W. Schlueter
Attorney for the Petitioner
Suite 301 F & M Bank Bldg.
50 Third Street S. W.
Huron, South Dakota, 57350
Phone: (605) 352-5121

FRANKLIN W.
SCHLUETER

ATTORNEY AT LAW

SUITE 301

FARMERS & MERCHANTS

BANK BLDG.

HURON, S. D. 57350

PHONE 605-352-5121

WATER RIGHTS DIVISION
(605) 773-3352

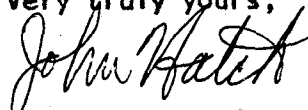
February 6, 1984

Edwin E. Davis, Manager
Sioux Rural Water System
Rural Route #4
Watertown, South Dakota 57201

Dear Mr. Davis:

Enclosed is a copy of a petition received from Raymond Zirbes concerning Water Permit Application No. 4990-3. It is unfortunate that Mr. Zirbes was not contacted by the Rural Water System prior to advertising of Application No. 4990-3. It may have been possible to avoid the time and expense of attending the hearing now necessary February 15. Applications without protest petitions are usually approved without the applicant being present.

Very truly yours,



John Hatch, Chief Engineer
Water Rights Division

JH:ms

Enc.

cc: John Madden, DeWild, Grant, Reckert & Assoc.



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

March 12, 1984

Sioux Rural Water System
Edwin E Davis, Manager
RR 4
Watertown SD 57201

Dear Mr. Davis:

Enclosed herewith is your Water Permit No. 4990-3 as approved by the Water Management Board authorizing you to construct your water diversion system and the water to beneficial use, not exceeding the limits as specified in said Water Permit No. 4990-3.

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

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division

JH: ks

enclosure

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

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

WNR-809-5/83

Instructions for Approval

1. Prior to construction of this project, the Department shall be notified in order that our personnel may be on-site to observe the installation of materials, soils encountered and related items concerning environmental matters. When notifying, please phone (805) 775-5734. Failure to comply with this condition will nullify this approval.

Very truly yours,

Raymond F. Bunker, P.E.

Raymond F. Bunker, P.E.

Chief Engineer

Department of Water and Natural Resources

San Diego County, California

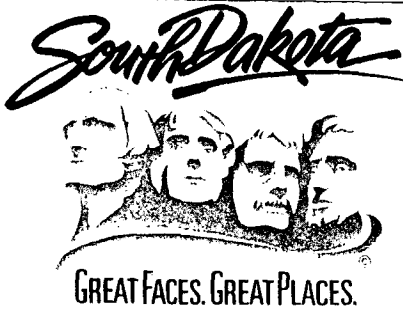
San Diego, California

Environmental Impact Statement

San Diego County, California

San Diego

San Diego



AUG 18 1992

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

5098-3

Sioux Rural Water System, Inc.
RR 4, Box 162
Watertown, SD 57201

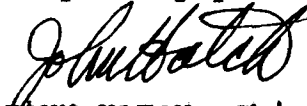
Dear Sirs:

Enclosed is Water License No. 5098-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413353 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. 5098-3, 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

enclosures

NOTE: The applicable portions of Water Permit No. 4990-3 are incorporated into this Water License No. 5098-3.