

Map No.

1540-3

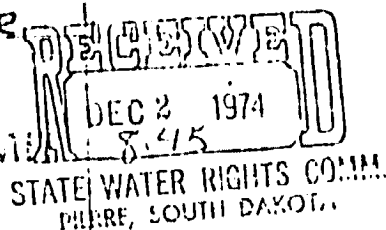
Water Diversion No.

3

BIG SIOUX RIVER

(Check to be filled in by the applicant)

APPLICATION FOR PERMIT



To Appropriate Water within the State of South Dakota

(NOTE: Draw a line through items not applicable)

1. Name of Applicant Harold Lentgen
 Postoffice address Estelline State South Dakota
 If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) Employment of others
3. Name of diversion work Irrigation Project #1
4. Amount of water claimed (cubic feet per second) 3.1 unapprop. R
5. Source of water supply well 4345-3
6. Location of point of diversion 1390' N 30° W of the SE corner of
Section 26 - 113 - 51
 County Hamlin
7. Annual period or periods during which water is to be used March through October
8. Use to be made of water (irrigation, industrial, municipal, commercial, recreation, etc.) irrigation
9. For irrigation use: Total number of acres to be irrigated 221

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

Land Description	No. Acres Irr.	Land Description	No. Acres Irr.
NW 1/4 of SW 1/4 Sec 26	7	NW 1/4 of SE 1/4 Sec 26	40
NE 1/4 of SW 1/4 Sec 26	3.7	NE 1/4 of SE 1/4 Sec 26	39
SW 1/4 of SW 1/4 Sec 26	2	SW 1/4 of SE 1/4 Sec 26	39
SE 1/4 of SW 1/4 Sec 26	24	SE 1/4 of SE 1/4 Sec 26	39

Attach sheet if more space is needed

10. Time required to complete construction of water supply system Five years. Additional time required to complete application of water to the proposed beneficial use three years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Herald Enterprise
12. Principal Features of the Proposed Water Supply System:

A. Works proposed to divert water from its natural source: well with turbine powered by electric motor

B. Works proposed to transport water to place of use: closed conduit aluminum pipe

C. Work proposed to apply water to beneficial use: F-2 Rain Hose with machine with hydraulic sprinkler

Estimated Total Cost \$ 20,000

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

STATE OF SOUTH DAKOTA

County of Brookings

I, Harold Lentgen, the applicant, certify that I have read the foregoing application and have examined the attached map and that the matters therein stated are true, and that I intend, and am able to complete the necessary construction

Subscribed and sworn to before me this

36thday of November, 1974

Sharon G. Grier
 Notary Public in and for the State of South Dakota

WATER RIGHT PERMIT - APPROVAL

The Water Resources Commission hereby approves the Water Right Application No. 2146-3
HAROLD LANTSEN ESTELLINE
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57231
 (State)

With the following modifications:

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

**INCORPORATED INTO
 WATER LICENSE NO.**

4345-3

8/5/81

#4345-3

Date of first receipt of application _____
 Date of return to applicant for correction, amendments or changes required _____
 Date of receipt of corrected application _____
 Approved JANUARY 23 1975, Recorded in Book 13 Page 150
 WATER RIGHT PERMIT NO. 2146.3

The Water Resources Commission hereby grants and issues this Water Right Permit No. 2146.3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as modified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is DECEMBER 2 1974
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JULY 23 1977
3. The whole of said work is to be completed on or before JANUARY 23 1980
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JANUARY 23 1983
5. The water appropriated shall be used for the purpose of IRRIGATION
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be injuriously affected by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 3.1 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 use served, and if for the irrigation purpose, said appropriation must be limited to not more than 3 acre feet per acre per year and be limited to not more than one acre foot of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before JANUARY 23 1983; said water to be used during the following described period: MARCH 12 OCTOBER

Witness my hand this 24TH day of JANUARY 19 75

WATER RESOURCES COMMISSION

By: Donald Kinnell
 Chief Engineer, Executive Officer

Certificate of Construction Fee _____
 Water License Fee _____

17. Proposed Features of the Proposed Water Supply System (continued.)

D. Well Information or Estimates

(1) Drill Hole, Diameter 30", Depth 40'
 (2) Casing, Type Steel, Diameter 12", Thickness 1/2"
 (3) Perforated Screen, Type Schlosser Turbine, Diameter 12", Length 10'
 (4) Gravel Pack, Thickness 3", Length of gravel pack 15'

E. Dugout Information or Estimates.

(1) Surface dimensions , Depth

F. Fill out for Either a Well or a Dugout.

(1) Water Bearing Materials. (Please attach a copy to test well log if available.)

Character of Water bearing materials Coarse gravel under top soil with blue clay at 40' depth

Depth to top of water bearing material 12'
 Depth to bottom of water bearing material 40'
 Thickness of water bearing material 28'
 Depth to water (ground surface to water level) 12'

(2) Distance to nearest existing household or livestock watering wells.

On same owner's property 80 rds. On property owned by others 160 rds.

G. Water Storage Dams.

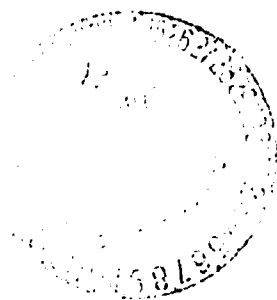
If the proposed water use system contains one or more water storage dams, please show in the space below, the height, maximum water depth, surface area and storage capacity of each storage dam. The location of each water storage dam should be shown on the water right map.

David L. Lange
 Signature of Applicant

RECEIVED

JAN 25 1974

DEPT. OF AGRICULTURE
WASHINGTON, D.C. 20250



January 15, 1974

Mr. Harold A. Lantgen
Espellina, South Dakota 57234

Dear Mr. Lantgen:

Your water sample received January 11 has been analyzed. The results are reported on the attached sheet "Report of Analysis".

The quality of the water which you have in this well is very good and should present no problems to you for irrigation of the soils as indicated on your VI-1 form. The quality is designated by the encircled red cross on the back cover of Extension Circular 57 enclosed for your use.

A copy of this letter, the water analysis, and the VI-1 form are being forwarded this date to the State Conservation Commission for action and recommendation to the State Water Resources Commission.

Sincerely yours,

L. O. Fine

Lawrence O. Fine
Water Quality Lab

LOF:l'm

Enclo 3res

cc: State Conservation Commission
Harold Campbell, Hamlin County Agent
Lorel Pahl

Irrigation System: _____

Water Quality: _____

Soils Capability: _____

Approved: [Signature] WGA

Disapproved: _____

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SECL 46-6-3 AS AMENDED
(This Form Required for Proposed Well Irrigation Only)

NAME: Laurence Gratz--Owner
Harold A. Lantgen--Operator

ADDRESS: Estelline, S.Dak. 57234

COUNTY: Hamlin

LEGAL DESCRIPTION

1. WELL LOCATION: Center of SE¹ of Section 26--113-51
2. AREA TO BE IRRIGATED: About 120 acres

TYPE OF IRRIGATION

3. GRAVITY SPRINKLER (Indicate Type): Valley --Center Pivot
4. CROPS TO BE IRRIGATED: Alfalfa and Corn

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: 0 to 2%
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: The conservation soil survey indicates the entire area proposed is Frailville, however recent intensive surveys would indicate inclusion of Roubidoux & Slick, Lena & H. Lewis, etc.

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: 74-008
8. SALINITY: EC = 625 micromhos/cm. (Medium)
9. SODIUM: SAR = 0.16 (Low)

I do hereby certify that a chemical analysis of the ground water to be
acquired for irrigation from South Dakota State University and:
the land capability for irrigation information has been acquired from
Soil Conservation Service

and:

that the legal description for the location of the well and land to be
irrigated is true and correct.

Harold Lintgen

Subscribed and sworn before me this

12 day of Jan 1977.

Laurence Gratz

LAURENCE GRATZ
Notary Public, Hamlin County, S. D.
My Comm. Exp. Dec. 17, 1978

(Title)

REPORT OF ANALYSIS
 Water Quality Laboratory
 Water Resources Research Institute
 South Dakota State University
 Brookings, South Dakota 57006

Submitted by: **Harold Bantgen** Date Rec'd **January 11, 1974**
 Address: **Estelline, South Dakota** Sample No. **74-008**
57234 Identification **Well-**
BE1, Sec. 26, T 113N, R 51W

WATER ANALYSIS

Calcium (Ca)	67	ppm*	3.35	me/l**
Magnesium (Mg)	28	ppm	2.30	me/l
Sodium (Na)	6.3	ppm	0.27	me/l
Potassium (K)	2.4	ppm	0.06	me/l
Sulfate (SO ₄)	57	ppm	1.19	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	3	ppm	0.08	me/l
Bicarbonate (HCO ₃)	293	ppm	4.80	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	240	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	625	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.16			
Sodium	4.51	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.31			
Others:				

*ppm=parts per million

**me/l=milliequivalents per liter

***g.p.g.=grains per gallon

COMMENTS: **Total cations** **5.98** **me/l**
Total anions **6.07** **me/l**

By: **Shirley Mitten**

Service Performed	Amount Due
Irrigation analysis	\$6.00

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. **74-008** Amount Enclosed \$

Signed

**SOUTH Dakota Department of
Water & Natural Resources**

Joe Foss Building Water Rights Division
Pierre, South Dakota 57501

August 6, 1981

(605) 773-3352

No. 4345-3

2146-3

Laurence Gratz
Estelline, SD 57234

Dear Mr. Gratz:

Enclosed herewith are, Water License No. 4345-3 and Certificate of Construction.

Water License No. 4345-3 is the final water right document completing your process of obtaining a water right.

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.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division

JH:

enclosures

NOTE: The applicable portions of Permit No. 2146-3 have been incorporated into this Water License No. 4345-3

No. 2146-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County Hamlin) ss.

I, Garry P. Anderson hereby

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

Water was taken from the Harold Enterprise

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

Office of Hamlin

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

December 12, 1974

December 17, 1974

Garry P. Anderson
(Signature)

Garry P. Anderson
(Title)

December 27, 1974
(Date Signed)

Notice

INTENT TO APPROPRIATE
WATER

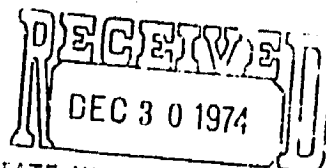
Hamlin, South Dakota 57501
December 2, 1974

Notice is hereby given that
Harold Langen, whose post
office address is Hamlin, South
Dakota, has made an application
in accordance with the provi-
sions of the water laws of
South Dakota for a permit to
appropriate for beneficial use
3.1 cubic feet of water per second
of a time from ground water
through the Gratz Irrigation Pro-
ject # 1, the point of diversion
of which is to be located in the
SE1/4 SE1/4 of Section 26, Twp.
113N, Range 51W. Said water
to be used for the purpose of
providing irrigation on portions
of the following described land:
SE1/4 and SW1/4, Section 26,
113N, R51W.

This application No. 2146-3
will be considered by the Water
Rights Commission at its office
at Hamlin upon the 22nd day of
January, 1975, at 2:30 P.M. All
interested persons may appear
and be heard.

WATER RIGHTS COMMISSION

By: Burton F. Jones
Water Rights Specialist 8-9



STATE WATER RIGHTS COMMISSION
HAMLIN, SOUTH DAKOTA

No. 2146-3Publish first publication, on or before January 8, 1975NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

December 2, 1974

Notice is hereby given that Harold Lentgen
whose post office address is Estelline, South Dakota, has made an application in accordance
with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use
3.1 cubic feet of water per second of time from the ground water through the
Gratz Irrigation Project #1, the point of diversion of which is to be located in the _____

SE 1/4 SE 1/4

of Section 26, Twp. 113N Range 5W. Said water to be used for the purpose
of providing irrigation on ^{portions of} the following described land.

SE 1/4 and SW 1/4, section 26, T113N, R51W

This application No. 2146-3 will be considered by the Water Rights Commission at its office at
Pierre upon the 22nd day of January, 1975, at 2:30 p. M. All interested
persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON P. JONES

Water Rights Specialist

BPJ/bw

cc: Harold Lentgen, Estelline, S.D. 57234

Friday the 13th

Water Rights Commission

You will find enclosed applications for town water permits. Checks for the \$8.00 fee are enclosed in this envelope. A bit of explanation is in order. The fee for the Howard and Wendell Skulstad permits are included in one \$16.00 check made out by Wendell. The four permits for the Pansett Hutterian Brethren Ass'n are included in one \$36.00 check. This is \$4.00 more than what is needed. However you will not find a check for the Zemlicka permit. I am including a personal check for \$4.00. This \$4.00 and the \$4.00 extra on the Hutterian check are to cover Zemlicka.

I hope you do not object to my method of handling the map for the Hutterians. I have all four on one map. However I have included two copies for each application. The reason for making four permits for them is because they will develop in steps. I doubt if they have a well for permit #5 - at least I have not seen it.

You will also find enclosed new maps for three applications you received about three weeks ago. There has been some changes made and are as follows:

S 77 located SE $\frac{1}{4}$ of sec 9 - 99 - 53 Turner County
Point of division is 2500' N 62° W at SW corner of 9
The old map had this distance as 2400'

Raymond Lines located NE $\frac{1}{4}$ sec 20 - 112 - 50 - Brookings County
Points of division are 2975' N 101° W + 3170' N 127° W
The old map had the distance as 2575' + 2970'
The distances perhaps are important here because the wells are adjacent to a neighboring farmstead.

James Black Her located NW 1/4 sec 12 - 113 - 51 Brookings Co.

The point of diversion is 3470' N 135° E at NW corner
of section 12. instead of 3460.

Perhaps you would also make these changes on
on the Form 2.

I hope everything is in order. I could imagine
you will soon be assessing the number of applications
in the Sioux aquifer between Castledale & Bruce.

Yours truly,

John Lawrence

Box R RR #2

Brookings S.D.

57006

NOTICE OF COMPLETION OF WORKS AND/OR APPLICATION OF WATER TO BENEFICIAL USE

Post Office Crestline, SDak
Date _____

TO: **WATER RIGHTS COMMISSION**
State Office Building No. 2
Pierre, South Dakota 57501

Dear Sirs:

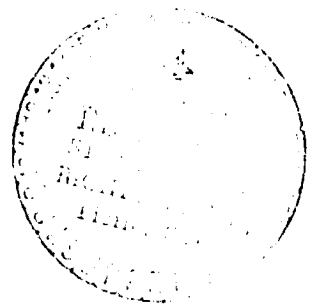
This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to the maximum extent it is going to be used, not exceeding the amounts as specified in Water Right Permit No. 2146-3

Water Right Permit No. 2146-3 states that the diversion system is to be constructed by _____, 19____ and that the water is to be put to beneficial use by _____, 19____.

The diversion system was completed on May, 1975. Applying the water to beneficial use was completed on June, 1975.

You may schedule an inspection so that the Certificate of Construction and/or the Water License may be issued, thus completing my acquisition of a water right.

Harold Lantgens
(Signature)



NOT TO SCALE

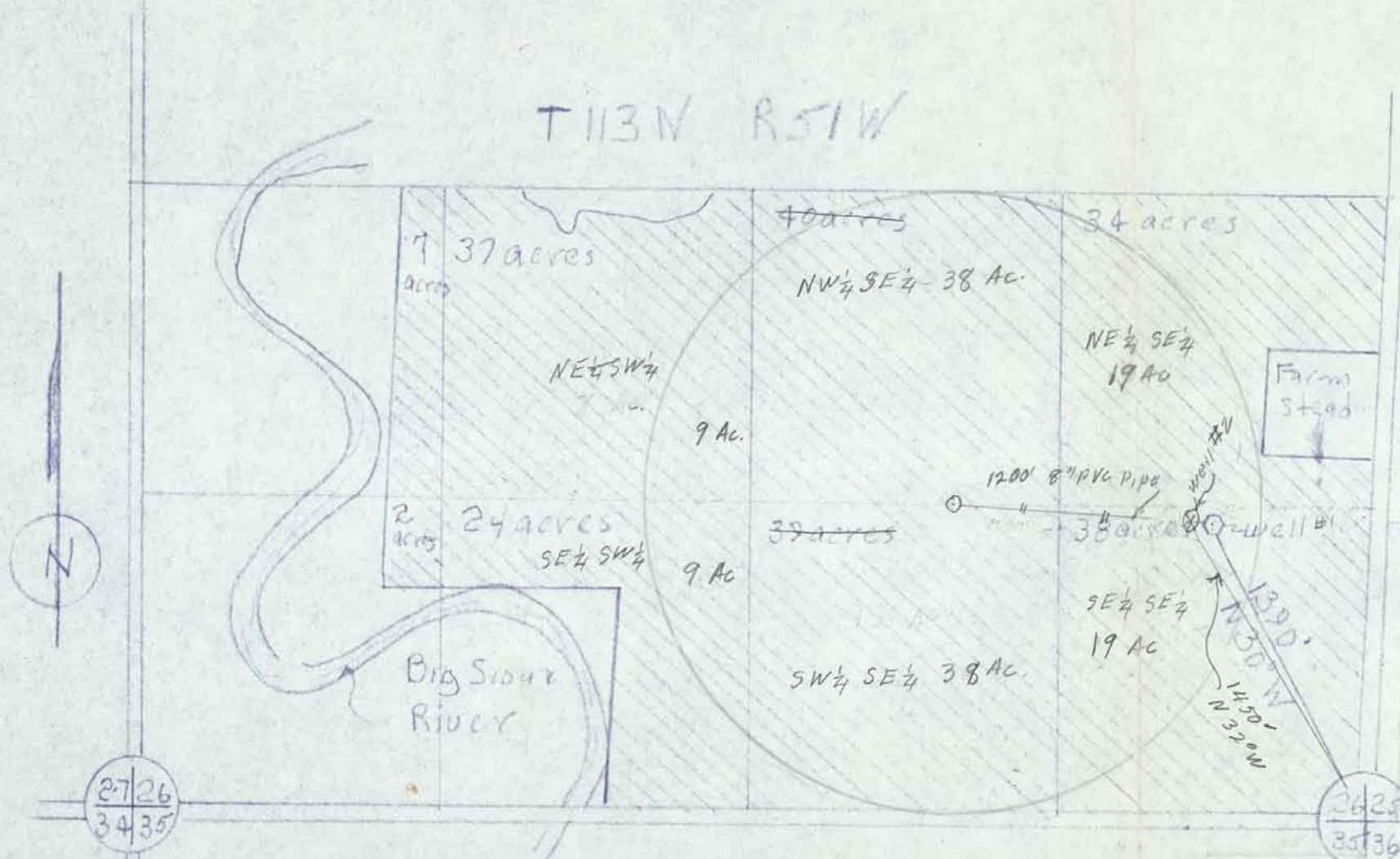


LAURENCE GRATZ

Irrigation Project # 1
Estelline South Dakota
Hamlin County

Land owned by
Laurence Gratz
Application for Permit made by
Harold Lantgen - Lessee
Estelline, S. Dakota

Water claimed - 3.1 cfs



Cross hatch indicates
Irrigated area

Point of Diversion

1390' N 30° W of the
S.E. corner of Sec 26
113-51

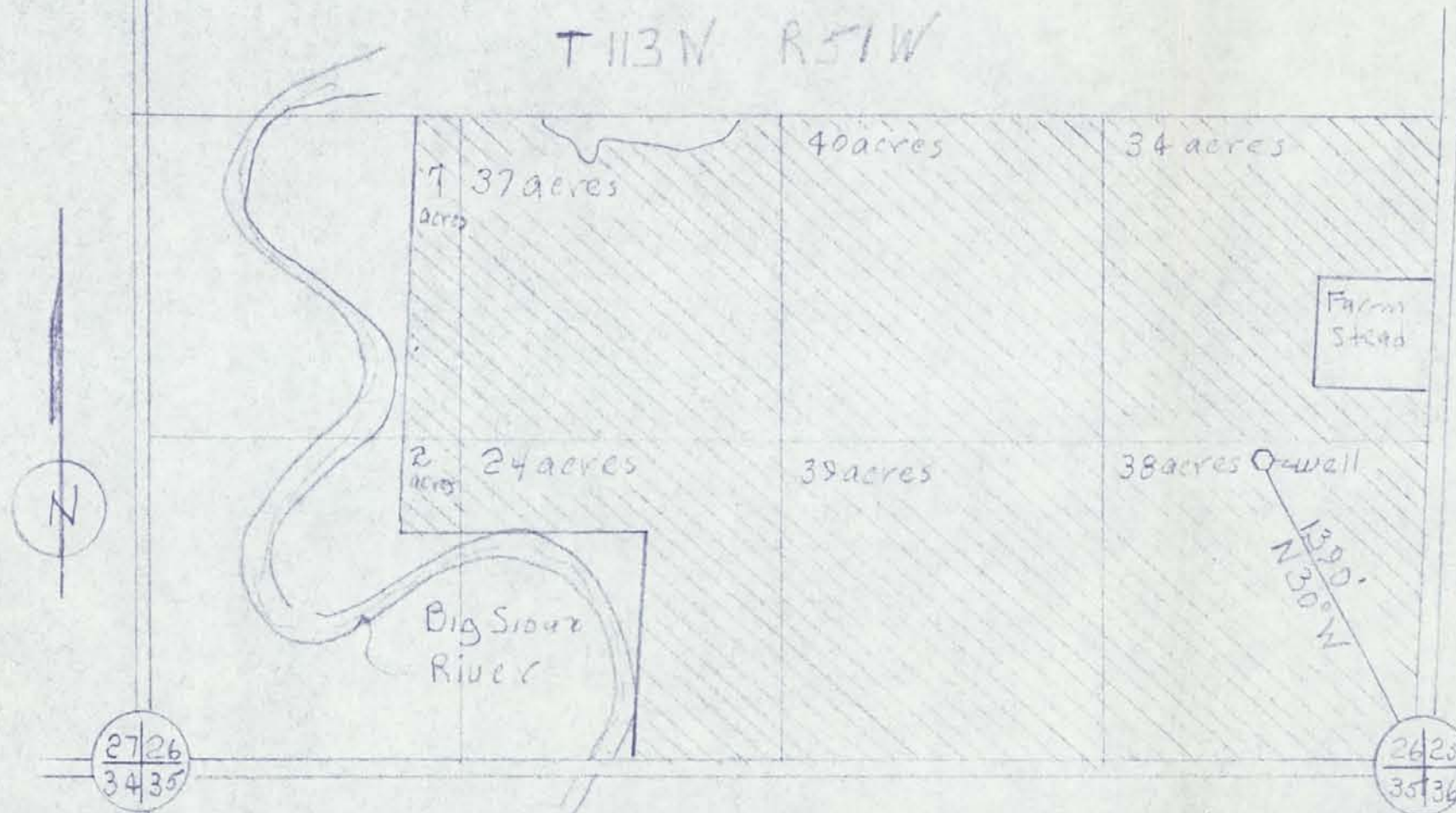
Scale 8" = 1 Mile

Land Description	Acres Irrigated
NW 1/4 of SW 1/4 Sec 26 - 113-51	7
NE 1/4 of SW 1/4 Sec 26	37 9
SW 1/4 of SW 1/4 Sec 26	2
SE 1/4 of SW 1/4 Sec 26	24 9
NW 1/4 of SE 1/4 Sec 26	40 38
NE 1/4 of SE 1/4 Sec 26	34 19
SW 1/4 of SE 1/4 Sec 26	39 38
SE 1/4 of SE 1/4 Sec 26	38 19
Total Acres	221

Surveyor's Certificate

I, John L. Wiersma, do hereby certify that
this map identifies a reasonably accurate
record of the land of:

Laurence Gratz
Estelline, South Dakota Hamlin County
Drawn by J.L.W. 11-22-74
John L. Wiersma PE # 1416
Brookings, South Dakota



LAURENCE GRATZ
Irrigation Project # 1
Estelline South Dakota
Hamlin County

Land owned by
Laurence Gratz
Application for Permit made by
Harold Lantgen - Lessee
Estelline, S. Dakota

Water claimed - 3.1 cfs

Cross hatch indicates
Irrigated area

Point of Diversion

1390' N 30° W of the
SE corner of Sec 26
113 - 51

Land Description	Acres Irrigated
NW 1/4 of SW 1/4 Sec 26 - 113-51	7
NE 1/4 of SW 1/4 Sec 26	37
SW 1/4 of SW 1/4 Sec 26	2
SE 1/4 of SW 1/4 Sec 26	24
NW 1/4 of SE 1/4 Sec 26	40
NE 1/4 of SE 1/4 Sec 26	34
SW 1/4 of SE 1/4 Sec 26	39
SE 1/4 of SE 1/4 Sec 26	38
Total Acres	221

Scale 8" = 1 Mile

Surveyor's Certificate

I, John L. Wiersma, do hereby certify that
this map identifies a reasonably accurate
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Laurence Gratz

Estelline, South Dakota Hamlin County

Drawn by J.L.W.

John L. Wiersma

Brookings, South Dakota

11-22-74

PE # 1916

MAP NO 1546-3 APP NO 2146-3