

4-17-75
C/

2-27-81

Well 103' 16' Drilling 10' Below for 10' Depth
Santana Mine 8' Pump 3-17-81
Proceeding by 7540 to E. Electric Motor
Well 35' 5' 3' center of River
8' down line to River

Well 103' 16' Drilling 20' Below
Wilson's Pump Co 8'
7540 to E. Electric Motor
8' Pump PUC 8' E. 3' 30' Power

2-13 True Valley Water Line

E. Paper 800

W. Paper 900

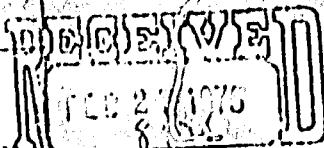
7-13-75

2223-3

1. Considered 3-19, 1975
2. Name of Applicant DAVID GIRONBERG
3. Post Office Address SOUTH SHORE
4. Amount of water claimed 1.2
5. Source of water supply GROUND WATER
6. Water to be used for IRRIGATION
- Acres to be irrigated 296
7. Water to be diverted and used in CODINGTON county
about 2 1/2 N miles of SOUTH SHORE.
8. Proof of Publication Received 3-17-75
Not received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action deferred _____

10. Remarks:

2223-3



APPLICATION FOR PERMIT
STATE WATER RIGHTS COMM.
PERMIT, SOUTH DAKOTA

To Appropriate Water within the State of South Dakota

(NOTE--Draw a line through items not applicable)

1. Name of Applicant David G. Gronberg
Postoffice address South Shore State South Dakota 57263
If a corporation show date and place of incorporation N. H.
2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract & Direct Labor
3. Name of diversion work David Gronberg Irrigation Project #1
4. Amount of water claimed (cubic feet per second) 4.2
5. Source of water supply well
6. Location of point of diversion 1850' N 135° E at NW corner of
NW corner of Sec 2-119-51

County Redington

7. Annual period or periods during which water is to be used May 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 296

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 NE 1/4 of Sec 3-119-51	39	NW 1/4 of NW 1/4 Sec 2-119-51	30
NE 1/4 of NE 1/4 of Sec 3	32	NE 1/4 of NW 1/4 Sec 2	39
SW 1/4 of NE 1/4 of Sec 3	40	SW 1/4 of NW 1/4 Sec 2	37
SE 1/4 of NE 1/4 of Sec 3	39	SE 1/4 of NW 1/4 Sec 2	40

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 thru years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Watertown Public Opinion
12. Principal Features of the Proposed Water Supply System.

A. Works proposed to divert water from its natural source.
well with deep well turbine

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

C. Works proposed to apply water to beneficial use.
center pivot irrigation machine

Estimated Total Cost \$ 40,000

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

STATE OF SOUTH DAKOTA

County of Brookings

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

Signed David Gronberg

Subscribed and sworn to before me this 25th day of February 1975

W. H. C.
Notary Public for other qualified persons

WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 2223-3
DAVID GRONEBERG SOUTH SHORE
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57263 With the following modifications:
 (State)

The irrigation well approved under this Permit will be located near domestic wells and other irrigation 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 irrigation wells having prior water rights.

Date of first receipt of application FEBRUARY 27, 19 75
 Date of return to applicant for correction, amendments or changes required _____, 19 ____
 Date of receipt of corrected application MARCH 5, 19 75
 Approved MARCH 19, 19 75, Recorded in Book 13 Page 238
 WATER RIGHT PERMIT NO. 2223-3

The Water Resources Commission hereby grants and issues this Water Right Permit No. 2223-3 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 FEBRUARY 27, 19 75
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 30, 19 77
3. The whole of said work is to be completed on or before MARCH 30, 19 80
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 30, 19 83
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 4.2 cubic feet per second; neither shall it exceed the capacity of the above described water supply system, nor shall it exceed the amount of water needed for beneficial uses served, and if for the irrigation purposes said appropriation must be limited to not more than 3 acre feet per acre per year and be limited to not more than one-seventieth (1/70) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before MARCH 30, 19 83; said water to be used during the following described annual period: MAY THRU OCTOBER, 19 79

Witness my hand this 24TH day of MARCH, 19 75

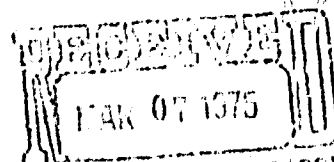
WATER RESOURCES COMMISSION

By:

Donald W. Russell
 Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 ____

Water License Issued _____, 19 ____



STATE WATER RIGHTS COMMISSION
SIOUX FALLS, SOUTH DAKOTA

March 4, 1975

Mr. David Groneberg
South Shore, S.D. 57263

Dear Mr. Groneberg:

Enclosed please find the report of analysis of sample #75-118 received here about a week ago. Also you will find a copy of Extension Circular 654 denoting the approximate quality of this water for irrigation purposes in a nationally used quality diagram. This is on the outside back cover of this circular.

The water is satisfactory for irrigation in this part of the state and should cause no build-up of salts in the soil or exchangeable sodium on clays, so that you should have no chemically-caused difficulties with it. However, I note that a lot of the soils you have to irrigate in these two quarters are Renshaw-Sioux complex and a portion is a Terrace escarpment. Both of these soil areas are in Class IV for irrigation. That is, their water holding capacity is so limited that it is difficult to keep sufficient water in the root zone to make satisfactory growth of crops. Shallow-rooted crops such as grasses would be better than deep-rooted crops such as corn and alfalfa. The Fordville silt loam is fairly satisfactory for irrigation having approximately 30 inches of fairly good top soil over sand and gravel. The Forman loam is also in Class II for irrigation purposes.

The water quality is very good, having an electrical conductivity of only 422 and a very low sodium adsorption ratio. Therefore there should be no chemically-caused difficulties in irrigating these soils with this water.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOP:MRB

Enclosures

cc: State Conservation Commission
Fred Morris, Codington County Agent
Darrel Pahl

Irrigation System: _____

Water Quality: _____

Soils Capability: _____

Approved: [Signature] 3/5/55

Disapproved: _____

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION

FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED

(This Form Required for Proposed Well Irrigation Only)

NAME: David Gronenberg
ADDRESS: South Shore S. Dakota - 57263
COUNTY: Codington

LEGAL DESCRIPTION

1. WELL LOCATION: 1850' N 135° E of NW corner of Sec 2 - 119-51
2. AREA TO BE IRRIGATED: NE 1/4 of sec 3 & NW 1/4 of sec 2 - 119-51

TYPE OF IRRIGATION

3. GRAVITY _____ SPRINKLER (Indicate Type): center pivot
4. CROPS TO BE IRRIGATED: corn & alfalfa

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: Nearly level to 1 1/2 %
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: Fairbault s. lo - Class II for irrig
Parkman - silt loam - Class III for irrig
Terrace escarpment: Class II (in NE 1/4 Sec 3); Farmen loam - Class II

WATER QUALITY (To Be Completed by Commission)

7. SAMPLE NO: 75-118
8. SALINITY: EC = 422 (low - medium)
9. SODIUM: Sod Ads. Ratio = 0.05 (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

and:

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

David Gronberg

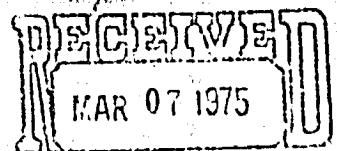
Subscribed and sworn before me this

26th day of February 1975.

Green E. Wood

Notary Public

(Title)



STATE WATER RIGHTS COMM.
PIERRE, SOUTH DAKOTA

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

Submitted by: David Groneberg
Address: Rt. 1, Box 7
South Shore, SD 57263

Date Rec'd February 26, 1975
Sample No. 75-118
Identification #2 Well-105'
NW 1/4, Sec. 2, T 119N, R 51W

WATER ANALYSIS

Calcium (Ca)	58	ppm*	2.90	me/l**
Magnesium (Mg)	23	ppm	1.89	me/l
Sodium (Na)	2	ppm	0.08	me/l
Potassium (K)	2	ppm	0.06	me/l
Sulfate (SO ₄)	18	ppm	0.38	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	1	ppm	0.01	me/l
Bicarbonate (HCO ₃)	273	ppm	4.48	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)	224	ppm (as CaCO ₃)		
Alkalinity (Penolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	422	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.05			
Sodium	1.62	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.38			
Others:				

*ppm=parts per million

**me/l=milliequivalents per liter

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

COMMENTS: Total cations 4.93 me/l
Total anions 4.87 me/l

By: Shirley Mittan

Service Performed

Amount Due

Irrigation analysis

\$6.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No.

Amount Enclosed \$

Signed

12. Principal Features of the Proposed Water Supply System (continued.)

D. Well Information or Estimates

- (1) Drill Hole, Diameter 22", Depth 105'
- (2) Casing, Type Steel Diameter 12" Thickness 1/4"
(wood, concrete, steel, etc)
- (3) Perforated Screen.
Type Continuous 5/16", Diameter 12", Length 10' + 10' - 5' around at the bottom - 10' long
- (4) Gravel Pack, Thickness 5", Length of gravel pack 10'

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 0-17' Sand and gravel top soil;
17'-25' clay; 25'-56' sand and gravel;
56'-85' clay; 85'-105' gravel; 105' - clay

Depth to top of water bearing material 25'

Depth to bottom of water bearing material 105'

Thickness of water bearing material 55'

Depth to water (ground surface to water level) 25'

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

On same owner's property 105' rds. On property owned by others 240 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.

Daniel S. Lonsberry
Signature of Applicant

Form 5 - Notice of Intent to Appropriate Water

No. 2223-3

Publish first publication, on or before March 11, 1975

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

March 5, 1975

Notice is hereby given that David Groneberg

whose post office address is South Shore, 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

4.2 cubic feet of water per second of time from the ground water through the Groneberg Irrigation Project #1, the point of diversion of which is to be located in the

NE 1/4 NW 1/4
of Section 2, Twp. 119N, Range 51W. Said water to be used for the purpose of providing irrigation on the following described land:

NW 1/4, Section 2, and NE 1/4, Section 3, T119N, R51W

This application No. 2223-3 will be considered by the Water Rights Commission at its office at Pierre upon the 19th day of March, 1975, at 2:30 P.M. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON P. JONES
Water Rights Specialist

DEJ:b

cc: David Groneberg, South Shore, S.D. 57263

STATE OF SOUTH DAKOTA)
) ss.
County Codington)

John H. Lowrie

Whereby

Water was taken from the Watertown Public Opinion.

City _____ of Watertown

March 7, 1975

March 14, 1975


(Signature)
General Manager

(Title)

March 11, 1975

(Date Signed)

PUBLIC NOTICE

NO. 2223-1

**NOTICE INTENT TO
APPROPRIATE WATER**

Pierre, South Dakota 57501

March 5, 1975

March 3, 1975
Notice is hereby given that David Gronberg whose post office address is South Shore, 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 4.2 cubic feet of water per second of time from ground water through the Gronberg Irrigation Project No. 1, the point of diversion of which is to be located in the NW¼, NW¼ of Section 2, Twp. 119N, Range 51W. Said water to be used for the purpose of providing irrigation on portions of the following described land: NW¼, Section 2, and NE¼, Section 3, T119N, R51W.

This application No. 2223-3 will be considered by the Water Rights Commission at its office at Pierre upon the 19th day of March, 1975, at 2:30 P.M. All interested persons may appear and be heard.

WATER RIGHTS
COMMISSION

By: Burton F. Jones
Water Rights Specialist
(March 7, 14, 1975)

$$3\frac{1}{4} \text{ @ } 2.25 \times 2 = 14.62$$

17 1975

2478-3
3781-3

WATER RIGHTS DIVISION (605) 773-3352

May 21, 1982

David Groneberg
South Shore, South Dakota 57263

Dear Mr. Groneberg:

This letter is in regard to the status of Permit Nos. 2478-3 and 3781-3 listed in your name.

The inspection of the water use systems covered under Permit Nos. 2478-3, 3781-3 and 2223-3 was completed August 27, 1981. You were notified at that time that a \$50.00 fee was required before the permits could be issued a License. A fee for Permit No. 2223-3 will not be required as it is to be incorporated into Water License 3781-3.

You indicated at the time of inspection that the land had been sold, and as soon as the deal was completed, you would either notify this office as to the new owner(s) or would forward the transfer forms to the new owner. As of this date, we have not heard from you on this matter.

If the land sale has been completed, please notify this office as to who purchased the land. The new owners could then be contacted concerning the transfer and fees for inspection and issuance of the Water License.

Your assistance in this matter would be appreciated. Please advise.

Sincerely,

Genny Young
Water Rights Specialist

GY:ms

 **Department of
Water & Natural Resources**

Joe Foss Building Water Rights Division
Pierre, South Dakota 57501

(605) 773-3352

July 7, 1982

Wiese Brothers
RR #1
Twin Brooks SD 57269

Gentlemen:

Enclosed herewith are, Water License No. 3781-3 and Certificate of Construction.

Water License No. 3781-3 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: ks

enclosures

NOTE: The applicable portions of Permit No. 2223-2 have been incorporated into this Water License. Our records now show you as owner of this Permit.

cc: David Gronberg
& copy of receipt for \$50

NOT TO SCALE

2223
3781

279-1082

Trans.
to
Grant Co.

2

119-51

95

279-1082

NOT TO SCALE

2223
3781

279-108 L

Trans.

to

Grant Co.

Transferred to

Grant Co.

3

75.1

19.6

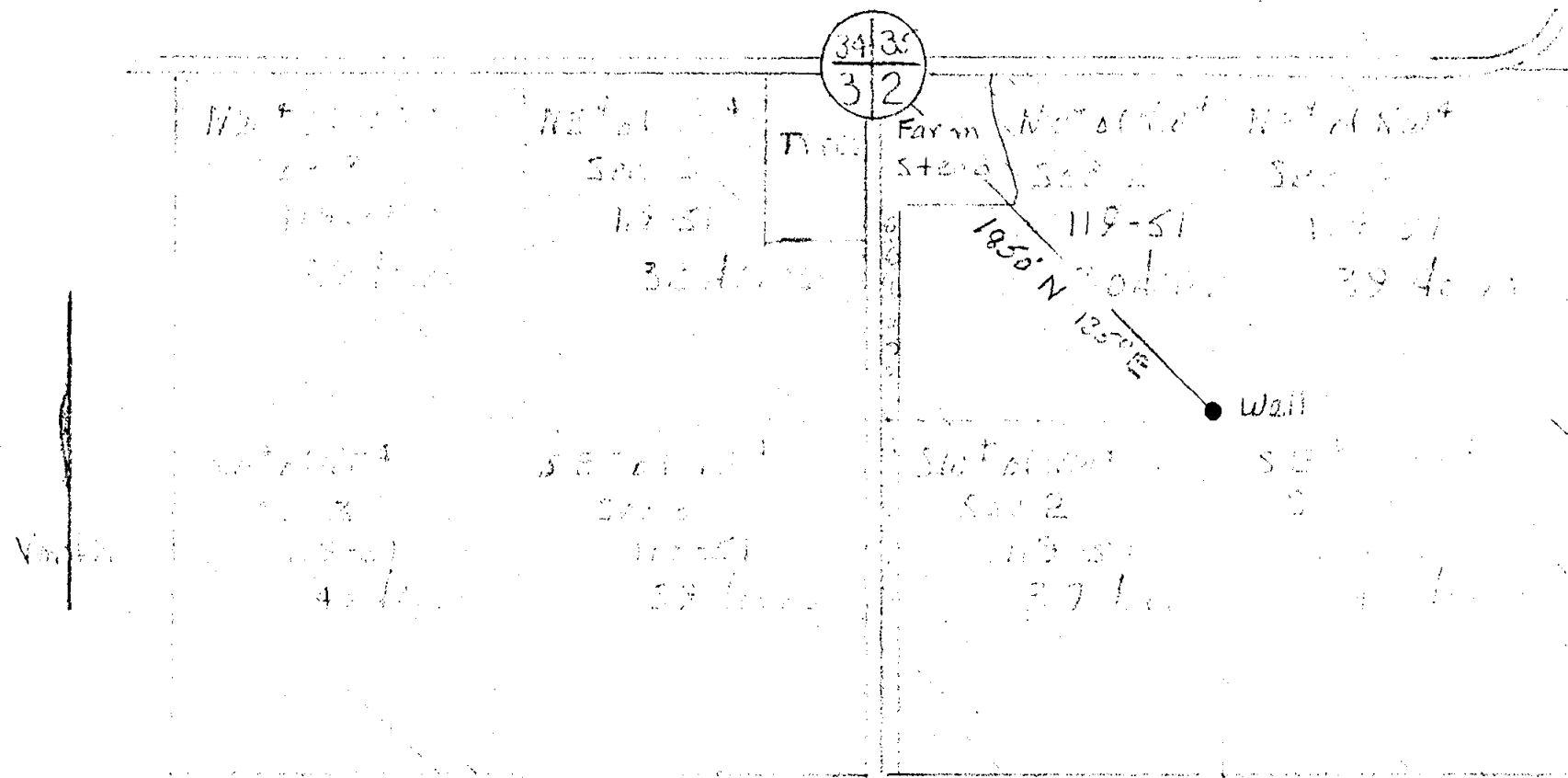
124.8

117-51

593

95.4

277-108 L



DAVID GRONEBERG
IRRIGATION PROJECT # 1
South Shore South Dakota
57263
Codington County

Water Claimed - 4.2 cfs

Point of Beginning
1850' N 105° E at corner
of Sec 2, 18-51

200' E. 100' N. 100' E. 100' N.

Scale 5" = 1 Mile

Area to be irrigated
NE 1/4 of Sec 1 - 18-51 35
NW 1/4 of Sec 2
SE 1/4 of Sec 2
SW 1/4 of Sec 2

NE 1/4 of Sec 1 - 18-51 35
NW 1/4 of Sec 2
SE 1/4 of Sec 2
SW 1/4 of Sec 2

18-51 35

SURVEYOR'S CERTIFICATE

I, John L. Wieseman, do hereby certify
that this map identifies a survey
actual record of the land of:

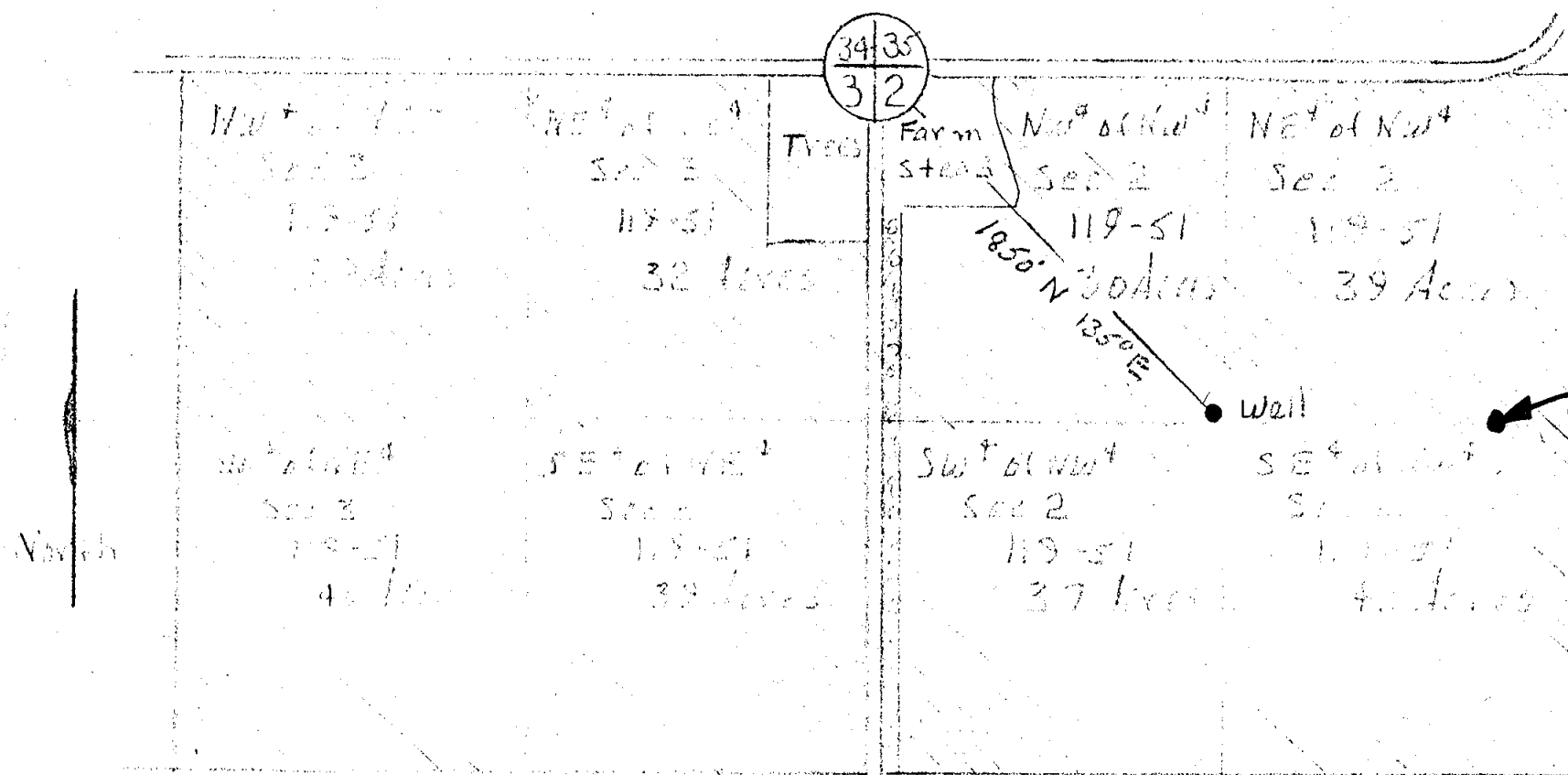
David Groneberg

South Shore
Codington County,
Dakota

South Dakota
Feb. 2, 1970
P. S. # 1816

John L. Wieseman

MAP # 10493 APPL NO 2223-3



DAVID GRONEBERG IRRIGATION PROJECT # 1

South Shore South Dakota

57263

3781-3 Codington County

Water Claimed - 4.2 cfs

Point of Beginning
1850' N 135° E of NW corner
of Sec 2 - 119-51

Area to be irrigated - 119-51

Scale 5" = 1 Mile

Area to be irrigated - 119-51
NW¹ of NE¹ Sec 2 - 119-51 38
NE¹ of NE¹ Sec 2 32
SW¹ of NE¹ Sec 2 40
SE¹ of NE¹ Sec 2 38

NW¹ of NW¹ Sec 2 - 119-51 37
NE¹ of NW¹ Sec 2 30
SW¹ of NW¹ Sec 2 37
SE¹ of NW¹ Sec 2 40

Area to be irrigated - 119-51

Surveyor's Certificate

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

David Groneberg

South Shore
Codington County

Drawn by J.L.W.

John L. Wiersma

South Dakota

Feb. 25, 75

P.E. # 1916

Brookings

MAP NO 1619-3 APP NO 2223-3