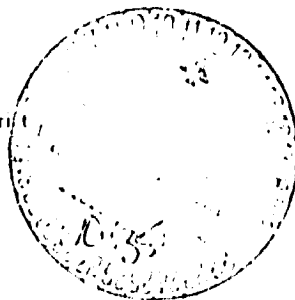


2562-3

1. Considered 3.17.1976
2. Name of Applicant MATTEW SIEBRANDS
3. Post Office Address WILLOW LAKE
4. Amount of water claimed 2.2
5. Source of water supply GROUND WATER (2-26' WELLS)
6. Water to be used for IRRIGATION
Acres to be irrigated 156
7. Water to be diverted and used in CLARK county
about 4.5 miles of WILLOW LAKE
8. Proof of Publication Received 3-18-76
Not received _____
9. Application Approved _____
Subject to _____
Not Approved _____
Action deferred _____
10. Remarks:

No. 2562-3
 Map No. 1933-3 Water Division No. 3 JAMES RIVER District 1
 (Blanks to be filled by the Engineer for the W. R. C.)


APPLICATION FOR PERMIT

To Appropriate Water within the State of South Dakota

(NOTE - Draw a line through items not applicable)

1. Name of Applicant MATTHEW SICHBANDS
 Postoffice address Willow Lake State SO DAK 57278
 If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) Contract & Direct Labor
3. Name of diversion work Matthew Sichbands Irrigation Project #1
4. Amount of water claimed (cubic feet per second) 2.2
5. Source of water supply Two wells
6. Location of point of diversion 3240' N 144° W & 3240' N 148° W of NE corner section 26-113-57
 County Clark
7. Annual period or periods during which water is to be used April 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 456

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 Sec 26-113-57	39		
NE 1/4 " " " "	38		
SW 1/4 " " " "	40		
SE 1/4 " " " "	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 Clark County Courier
12. Principal Features of the Proposed Water Supply System.

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

Two interconnected wells with electrically driven deep well turbines

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 \$ 45,000

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, Matthew Sichbands 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 Matthew SichbandsSubscribed and sworn to before me this 3 day of Feb 19 76

John Sedgewick
 Notary Public (or other qualified officer)

P.E. 11916

WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 2562-3
MATTHEW SIERRANDS WILLOW LAKE
 (Applicant) (Post Office Address)
SOUTH DAKOTA 57276 With the following modifications:
 (State)

The irrigation wells 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 12 19 76
 Date of return to applicant for correction, amendments or changes required — 19 —
 Date of receipt of corrected application FEBRUARY 23 19 76
 Approved MARCH 17 19 76, Recorded in Book 14 Page 340

WATER RIGHT PERMIT NO. 2562-3

The Water Resources Commission hereby grants and issues this Water Right Permit No. 2562-3 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 12 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before SEPTEMBER 17 19 78
3. The whole of said work is to be completed on or before MARCH 17 19 81
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is MARCH 17 19 84
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 2.2 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 17 19 84; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 23RD day of MARCH 19 76

WATER RESOURCES COMMISSION

By:

John Martin
 Chief Engineer, Executive Officer

Certificate of Construction Issued — 19 —

Water License Issued — 19 —

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 2 4", Depth 26'
- (2) Casing, Type Steel (wood, concrete, steel, etc.) Diameter 1 9" Thickness 3/16"
- (3) Perforated Screen, Type Continuous Slit, Diameter 1 4", Length 5'
- (4) Gravel Pack, Thickness 5", Length of gravel pack 15'

E. Dugout Information or Estimates

- (1) Surface dimensions NA., Depth 14'

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 See enclosed log

Depth to top of water bearing material 3'

Depth to bottom of water bearing material 26'

Thickness of water bearing material 2-3'

Depth to water (ground surface to water level) 3'

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

On same owner's property No buildings rds. On property owned by others 180 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.

two identical wells

Matthew L. L. L.
Signature of Applicant



February 13, 1976

Mr. Matthew Siebrands
Willow Lake, SD 57276

Dear Mr. Siebrands:

I am enclosing herewith the original copy of the report of analysis of your water sample #76-064 received here about a week ago. We have now received the completed WL-1 form and the soils information are very good indeed as to completeness and detail.

The water which you have is quite good in quality and should cause in itself, no chemically-induced difficulty with the soils you have to irrigate. The electrical conductance of only 495 micromhos/cm is medium and the sodium content is low.

However, as you I am sure are well aware, some of the soils in the northeast quarter of section 26 are not well suited to irrigation. I refer specifically to the Tetonka loam and silt loam area marked 2kg up in the northeastern part of the quarter and the area marked 1ch, which is Parnell loam and clay loam down in the western part of the quarter. Both of these areas tend to accumulate water and have very low permeability rates, thus you should avoid irrigating the area marked Parnell in the southwest corner until you have devised a way to drain it. The area which is Tetonka in the northeast 40 is likewise apt to give you trouble, and if you can possibly figure out a way to prevent surface water from standing on it, you probably will get fairly satisfactory performance of crops. However, because of the very low permeability of this soil, too, any excess water that runs off the surrounding land will cause standing water to stay on the land which is Tetonka soil for several days, and very likely will kill out such crops as corn and alfalfa. The rest of the soils in the quarter are fairly well suited to irrigation except that the extreme rapid drainage of the Renshaw and Sioux over on the west side of the quarter will cause drought problems there before the crops on the Kranzburg will have any water stress, so you might want to figure out a way to irrigate that northwestern and western part of the quarter some way without irrigating the main Kranzburg area. This also pertains, of course, to the area of Renshaw, Sioux loam which is in the southeastern quarter. This is a difficult thing to do but you should be aware that these soil areas will be much more droughty than the main mass of the quarter.

The water quality which you have, which I mentioned above, is good and I have plotted the approximate utility of this water for irrigation by means of a red cross on the outside back cover of extension circular 654. You should hang on to the water report and the circular for future reference.

Mr. Siebrands
February 13, 1976
Page 2

I am sending a copy of this letter, and the water analysis, and the WI-1 form on to the State Conservation Commission for their action.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ckb

Enclosures

cc: State Conservation Commission

D. Pahl

George Schanck, County Extension Agent



CONSERVATION
COMMISSION
FORM W1 #1

STATE CONSERVATION COMMISSION
SUPPORTING INFORMATION
FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED
(THIS FORM REQUIRED FOR PROPOSED GROUND WATER IRRIGATION)



NAME Matthew Siebrand
ADDRESS Willow Lake South Dakota 57278
COUNTY Clark

LEGAL DESCRIPTION

1. WELL LOCATION: Sec 4 T47N R10E Sec 26-113-57
2. LOCATION OF AREA TO BE IRRIGATED NE 1/4 Sec 26-113-57

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT _____ GUN _____
4. CROPS TO BE IRRIGATED corn & alfalfa

WATER QUALITY

5. SAMPLE NUMBER 76-069
6. SALINITY (EC X 10⁶) 495 (medium)
7. SODIUM (SAR) 0.19 (low)
8. RESIDUAL SODIUM CARBONATE (meq/l.) none

I do hereby certify that a chemical analysis of the ground water representative of that used to irrigate shall be acquired from South Dakota State University and:
the soils information has been acquired from _____ Conservation District,
County Extension office or Soil Conservation Service.
and:
that the legal description for the location of the well and land to be irrigated is true
and correct.

Matthew Siebrand
APPLICANT'S SIGNATURE

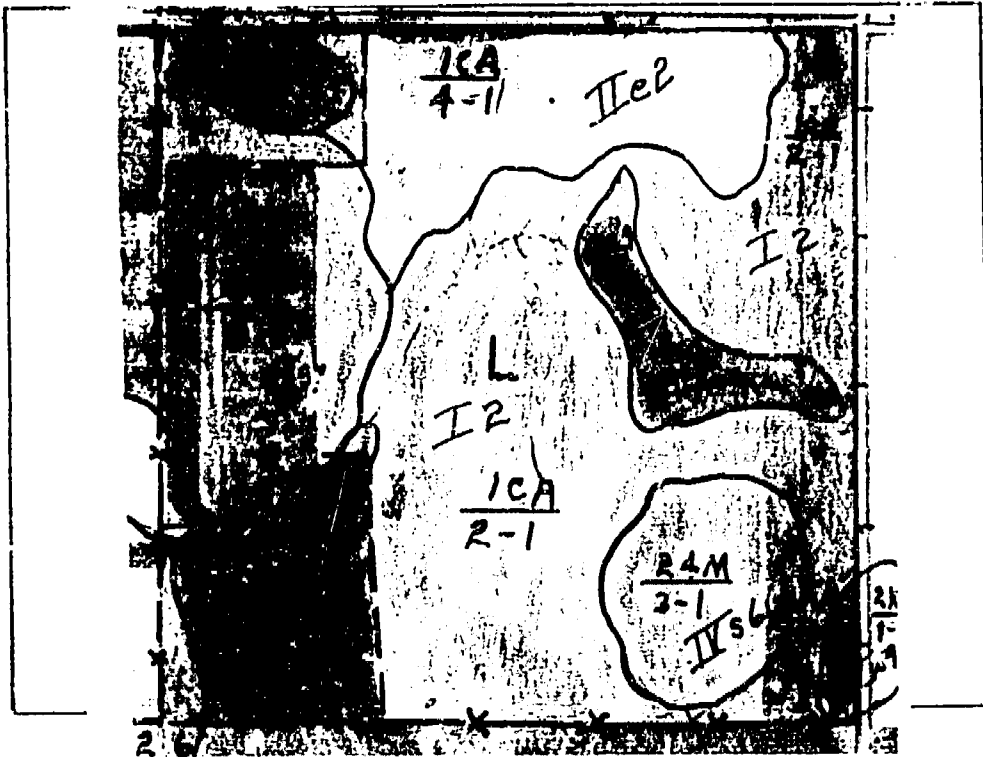
SUBSCRIBED AND SWORN BEFORE ME THIS
12 DAY OF Feb 19 76.

John Deacon
(TITLE OR SEAL)

Albert J. Hoff
APPROVED/NOT APPROVED

(SOILS INFORMATION ON REVERSE SIDE)

MAP



NARRATIVE

- 1CA
2-1 - Kranzburg loam and silt loam 2 to 4 slopes. Deep, well drained soil having silty mantle underlain by clay loam below 20 inch inches. The surface layers are silt loam underlain by silty clay loam and clay loam. Permeability is moderately slow. Underlain by loam or clay loam till. Soil capability unit = 11e3 0.3 intake family from irrigation guide for South Dakota.
- 1CA
4-1 - Kranzburg loam and silt loam 3 to 6 slopes. Deep, well drained soil having silty mantle underlain by clay loam below 20 inch inches. The surface layers are silt loam underlain by silty clay loam and clay loam. Permeability is moderately slow. Underlain by loam or clay loam till. Soil capability unit = 11e3 0.3 intake family from irrigation guide for South Dakota.
- 24M
3-1 - Renshaw-Sioux loam 2 to 4 slopes. Renshaw - Well drain 3 fine sandy loam soils having sand and gravel with 20 inches. Moderately rapid to rapid permeability in upper part and lower part. Soil Capability unit = 11e2 2.0 intake family from irrigation guide for S. Dak.
- Sioux - Shallow, calcareous, gravelly loam soils with thin gravelly layers with gravel at depths less than 20 inches from the surface. Soil Capability unit = 11e3 Intake family not listed in irrigation guide for S. Dak.
- 24M
1-1 - Tetonka loam and silt loam (depressional) Deep, loam to clayey. Poorly or poorly drained soils with slow permeability or that are ponded. They occupy nearly level to flat slopes or depressions. Choice of crops and time of tillage is limited by seasonal wetness. These soils should be artificially drained if feasible. Soil Capability unit = 11u2 if feasible to drain or 11u2 if drainage is not feasible. Intake family not listed in irrigation guide for S. Dak.
- 24M
1-1 - Pernell loam - clay loam. Deep, black clayey soils that are poorly drained. They occupy floors of enclosed depressions and are poorly drained. Part of the vegetation may be of marsh type.

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

Submitted by: Matthew Siebrands
Address: Willow Lake, SD 57278

Date Rec'd February 3, 1976
Sample No. 76-064
Identification Well-24
NE1, Sec. 26, T 113N, R 57W

WATER ANALYSIS

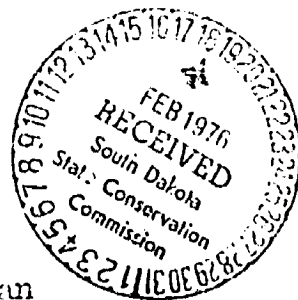
Calcium (Ca)	72	ppm*	3.60	me/l**
Magnesium (Mg)	26	ppm	2.13	me/l
Sodium (Na)	8	ppm	0.33	me/l
Potassium (K)	8	ppm	0.20	me/l
Sulfate (SO ₄)	40	ppm	0.83	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	5	ppm	0.14	me/l
Bicarbonate (HCO ₃)	281	ppm	4.60	me/l
Carbonate (CO ₃)		ppm		me/l
Iron (Fe)		ppm		me/l
Fluoride (F)		ppm		me/l
Hardness (EDTA as CaCO ₃)		ppm		g.p.g.***
Alkalinity (Methyl Orange)	230	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	495	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.19			
Sodium	5.27%	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.10			
Others:				

*ppm=parts per million

**me/l=millequivalents per liter

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

COMMENTS: Total cations 6.26 me/l
Total anions 5.57 me/l



By: Shirley Litten

Service Performed	Amount Due
Irrigation analysis	\$9.00 L.I.D

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-064

Amount Enclosed \$ _____

Signed _____

Form 6 - Notice of Intent to Appropriate Water

No. 2562-3

Publish first publication, on or before March 4, 1976

NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

February 24, 1976

Notice is hereby given that Matthew Siebrands
whose post office address is Willow Lake, 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
2.2 cubic feet of water per second of time from the ground water through the
Siebrands Project No. 1, the point of diversion of which is to be located in the _____

SW 1/4 NE 1/4

of Section 26, Twp. 113N, Range 57W. Said water to be used for the purpose
of providing irrigation on ^{portions of} the following described land:

NE 1/4, Section 26, T113N, R57W

This application No. 2562-3 will be considered by the Water Rights Commission at their office at
Pierre upon the 17th day of March, 1976, at 1:00 P.M. All interested
persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES
Water Rights Specialist

BFJ/bw
cc: Matthew Siebrands
Willow Lake, SD 57276

No. 2562-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
County Clark)

I, David 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 _____

City _____ of Clark

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

March 4, 1976

March 11, 1976

David Moritz
(Signature)

Co-Publisher
(Title)

3/13/76
(Date Signed)

No. 2562-3
**NOTICE INTENT TO
APPROPRIATE WATER**
Pierre, South Dakota 57501
February 24, 1976
Notice is hereby given that
Matthew Siebrandt whose post
office address is Willow Lake,
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 2.2
cubic feet of water per second of
time from the ground water
through the Siebrands Project
No. 1, the point of diversion of
which is to be located in the
SW 1/4 of Section 26, Twp.
113N, Range 57W. Said water to
be used for the purpose of
providing irrigation on portions
of the following described land:
NE 1/4, Section 26, T113N, R57W.
This application No. 2562-3 will
be considered by the Water
Rights Commission at their office
at Pierre upon the 17th day of
March, 1976, at 1:00 P.M. All
interested persons may appear
and be heard.

**WATER RESOURCES
COMMISSIONER**
By: Burton F. Jones
Water Rights Specialist
3-4-21



**Department of
Water & Natural Resources**

Joe Foss Building Water Rights Division

Pierre, South Dakota 57501

November 1, 1982

(605) 773-3352

Matthew Siebrands
RR #1, Box 52
Willow Lake SD 57278

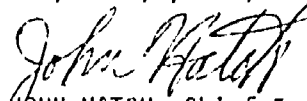
Dear Mr. Siebrands:

Enclosed herewith are, Water License No. 3296-3 and Certificate of Construction.

Water License No. 3296-3 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

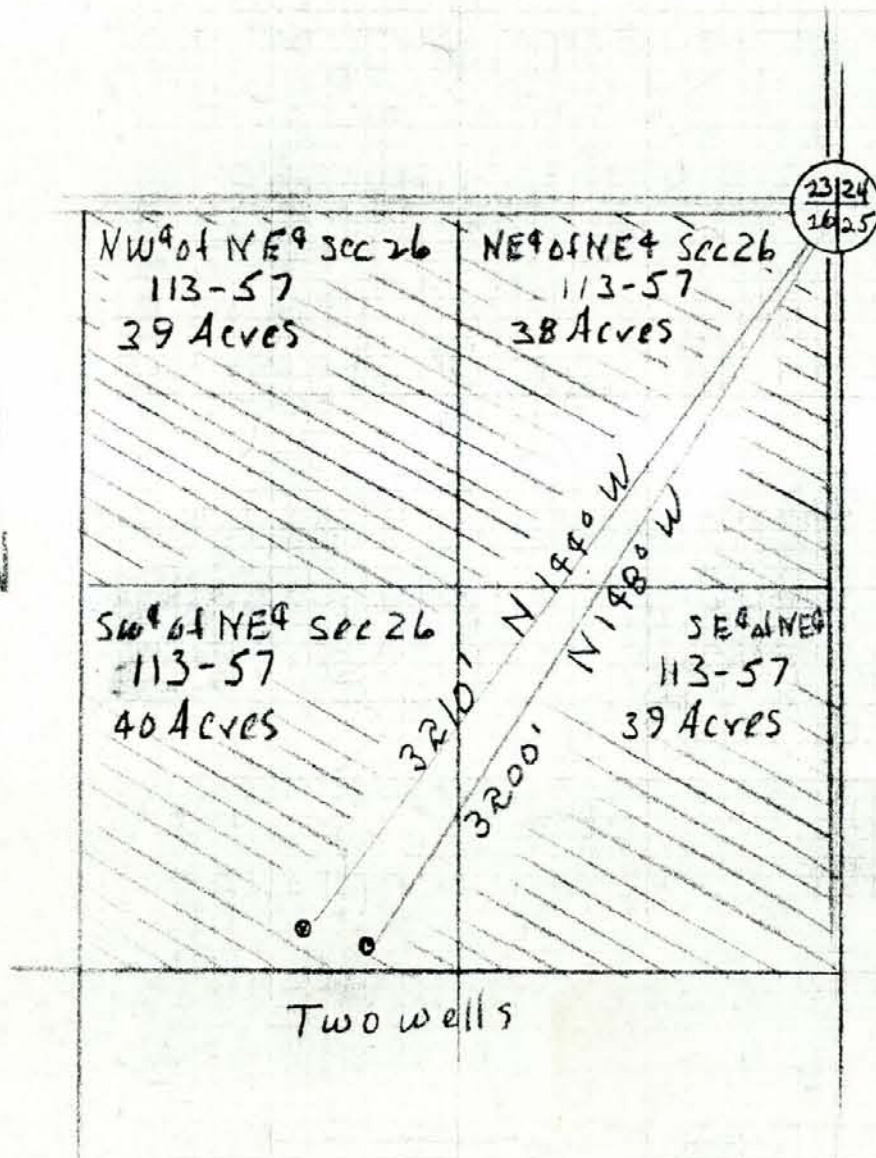
JH: ks

enclosures

NOTE: Applicable portions of Permit No. 2562-3 have been incorporated into this Water License No. 3296-3

MATTHEW SIEBRANDS

Irrigation Project #1
Willow Lake 57278 S. Dakota
Hamlin County



Acres Irrigated - 156
Water claimed - 2.2 cfs
Points of Diversion:
3210' N 144° W
3200' N 148° W
of NE Corner Sec 26
113-57

Scale - 8" = 1 Mile

Surveyor's Certificate

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

Matthew Siebrands
Willow Lake South Dakota
2-9-76 Hamlin County
Dakota Survey P. E. #1916
John L. Wiersma Bookings

~~MAINS 1955-3~~ APPLN-2562-3