

1. Considered 7-21, 1976 2804-3
2. Name of Applicant WILLIS E. MEYER
3. Post Office Address BUSHNELL
4. Amount of water claimed 2.10
5. Source of water supply 55' DEEP WELL
6. Water to be used for IRRIGATION
- Acres to be irrigated 153
7. Water to be diverted and used in BROOKINGS county
about 3N, 2E miles of AURORA
8. Proof of Publication Received 7-19-76
 Not Received
9. Application Approved
 Subject to
 Not Approved
 Action deferred
10. Remarks:

No. 2804-3
 Map No. 2160-3 Water Division No. 3 Big Sioux River District
 (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 Willis E. Meyer
 Postoffice address Bushnell, State S. Dakota
 If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) Direct labor & Contract
3. Name of diversion work Willis E. Meyer Irrigation Project #1
4. Amount of water claimed (cubic feet per second) 2.1
5. Source of water supply Well
6. Location of point of diversion N 1270' - 1980' - of NE corner of Section 18-110-98
 _____ County Brookings
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 153

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.
<u>N 1/4 of NE 1/4 Sec 18-110-98</u>	<u>40</u>		
<u>NE 1/4 " " " " "</u>	<u>39</u>		
<u>SE 1/4 " " " " "</u>	<u>40</u>		
<u>SW 1/4 " " " " "</u>	<u>34</u>		

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 Brookings Register
12. Principal Features of the Proposed Water Supply System.
- A. Works proposed to divert water from its natural source. Well with electrically driven 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, Willis E. Meyer 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 Willis E. MeyerSubscribed and sworn to before me this 2 day of June 1976

John L. Williams
 Notary Public (or other qualified officer)
 P. E. # 1716

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 2804-3WILLIS E. MEYER
(Applicant)BUSHNELL
(Post Office Address)SOUTH DAKOTA 57011
(State)

With the following modifications:

The irrigation well approved under this Permit is located near 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.

Date of first receipt of application JUNE 9, 19 76Date of return to applicant for correction, amendments or changes required —, 19 —Date of receipt of corrected application JUNE 30, 19 76Approved JULY 22, 19 76, Recorded in Book 15, Page 269WATER RIGHT PERMIT NO. 2804-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 2804-3 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 JUNE 9, 19 76
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before JANUARY 22, 19 79
3. The whole of said work is to be completed on or before JULY 22, 19 81
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is JULY 22, 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 2.1 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 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 JULY 22, 19 84; said water to be used during the following described annual period: APRIL THRU OCTOBER

Witness my hand this 2ND day of AUGUST, 19 76

WATER RIGHTS COMMISSION

By:

John Hatch
Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 _____

Water License Issued _____, 19 _____

Form 2A - Wells, Dugouts or Water Storage Dams (Supplement to form 2)

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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 30", Depth 55'
- (2) Casing Type Steel Diameter 16" Thickness 3/16"
(wood, concrete, steel, etc.)
- (3) Perforated Screen.
Type Perforated Steel, Diameter 16", Length 15'
- (4) Gravel Pack, Thickness 6", Length of gravel pack 30'

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' to 3' - top soil; 3' to 7' mixed
silt and sand; 7' to 55' very coarse sand and
gravel mixed; over 55' is clay

Depth to top of water bearing material 7'

Depth to bottom of water bearing material 55'

Thickness of water bearing material 48'

Depth to water (ground surface to water level) 7'

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

On same owner's property 90 rds. On property owned by others 90 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.

Willis E. Meyer
Signature of Applicant

2804-2

June 22, 1976

Mr. Willio E. Meyer
Bushnell, SD 57011



Dear Mr. Meyer:

On June 10 we sent you the original copy of the report of analysis on water sample #76-577 submitted by you June 2. I have now in my possession a complete WI-1 form with the soils information and will be sending it to the State Conservation Commission, along with a copy of this letter and of the water analysis.

There is no significant problem in connection with the use of this water as I anticipate it. The total salinity is only medium and there is a very low sodium content in the water, so you should have no difficulty either with salt accumulation or sodium-induced dispersion of soil aggregates. I am enclosing a copy of AES publication #13 for your use and I have plotted the quality of this water by means of a red cross in the chart on the outside back cover. You will be hearing from the Conservation Commission as to their action.

Sincerely yours,

L. O. Fine

L. O. Fine
Water Quality Lab

LOF:ckb

Enclosures

cc: State Conservation Commission

D. Pahl

Donald Boone, 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 Willis E. Meyer
ADDRESS Bushnell South Dakota
COUNTY Brookings

LEGAL DESCRIPTION

1. WELL LOCATION SE corner of NW 1/4 of NE 1/4 of Section 18-110-48
2. LOCATION OF AREA TO BE IRRIGATED NW 1/4 of Sec 18-110-48

TYPE OF IRRIGATION

3. GRAVITY TOWLINE ✓ CENTER PIVOT GUN ✓
4. CROPS TO BE IRRIGATED Corn & Alfalfa

WATER QUALITY

5. SAMPLE NUMBER 76-577
6. SALINITY (EC X 10⁶) 72.9 (medium)
7. SODIUM (SAR) 0.20 (low)
8. RESIDUAL SODIUM CARBONATE (meq/l.) 0

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.

Willis E. Meyer
APPLICANT'S SIGNATURE

by John L. Loomis

SUBSCRIBED AND SWORN BEFORE ME THIS
2 DAY OF June 19 76.

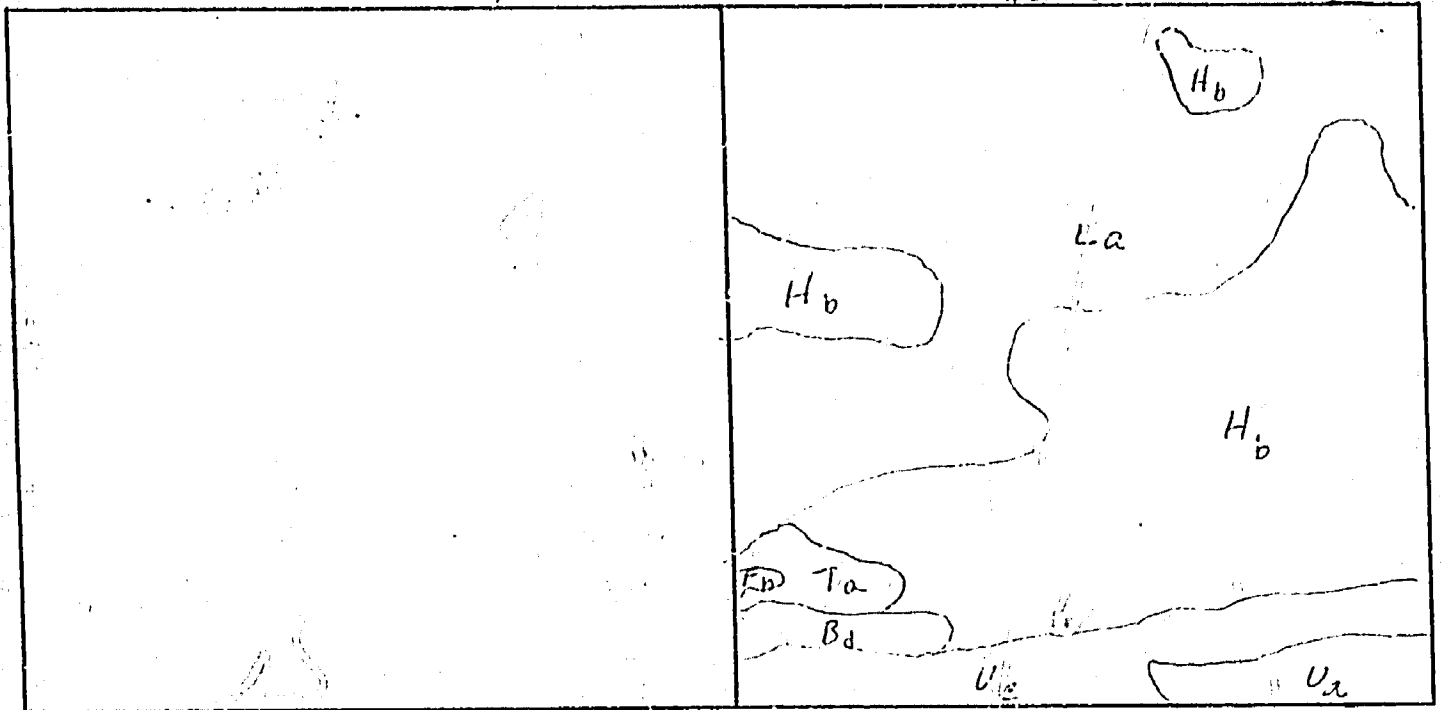
John L. Loomis
(TITLE OR SEAL)

John L. Loomis
APPROVED/DISAPPROVED

(SOILS INFORMATION ON REVERSE SIDE)

MAP

N 21° 52' 18" - 110° 48'



NARRATIVE

- B_d - Base complex Rolling
- F_b - Flaniville loam
- H_p - Hocla Sandy Loam
- L_a - Lamoure silty clay loam
- V_a - Vienna loam nearly level
- V_e - Vienna loam sloping

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 ONLY)



NAME Willis E Meyer
ADDRESS Bushnell
COUNTY Brookings

LEGAL DESCRIPTION

1. WELL LOCATION NE 1/4 18-110-48
2. LOCATION OF AREA TO BE IRRIGATED _____

TYPE OF IRRIGATION

3. GRAVITY _____ TOWLINE _____ CENTER PIVOT ☒ GUN _____
4. CROPS TO BE IRRIGATED Corn - alfalfa - possible pasture

WATER QUALITY

5. SAMPLE NUMBER _____
6. SALINITY (EC X 10⁶) _____
7. SODIUM (SAR) _____
8. RESIDUAL SODIUM CARBONATE (meq/l.) _____

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.

Willis E Meyer
APPLICANT'S SIGNATURE

SUBSCRIBED AND SWORN BEFORE ME THIS
2 DAY OF June 19 76.

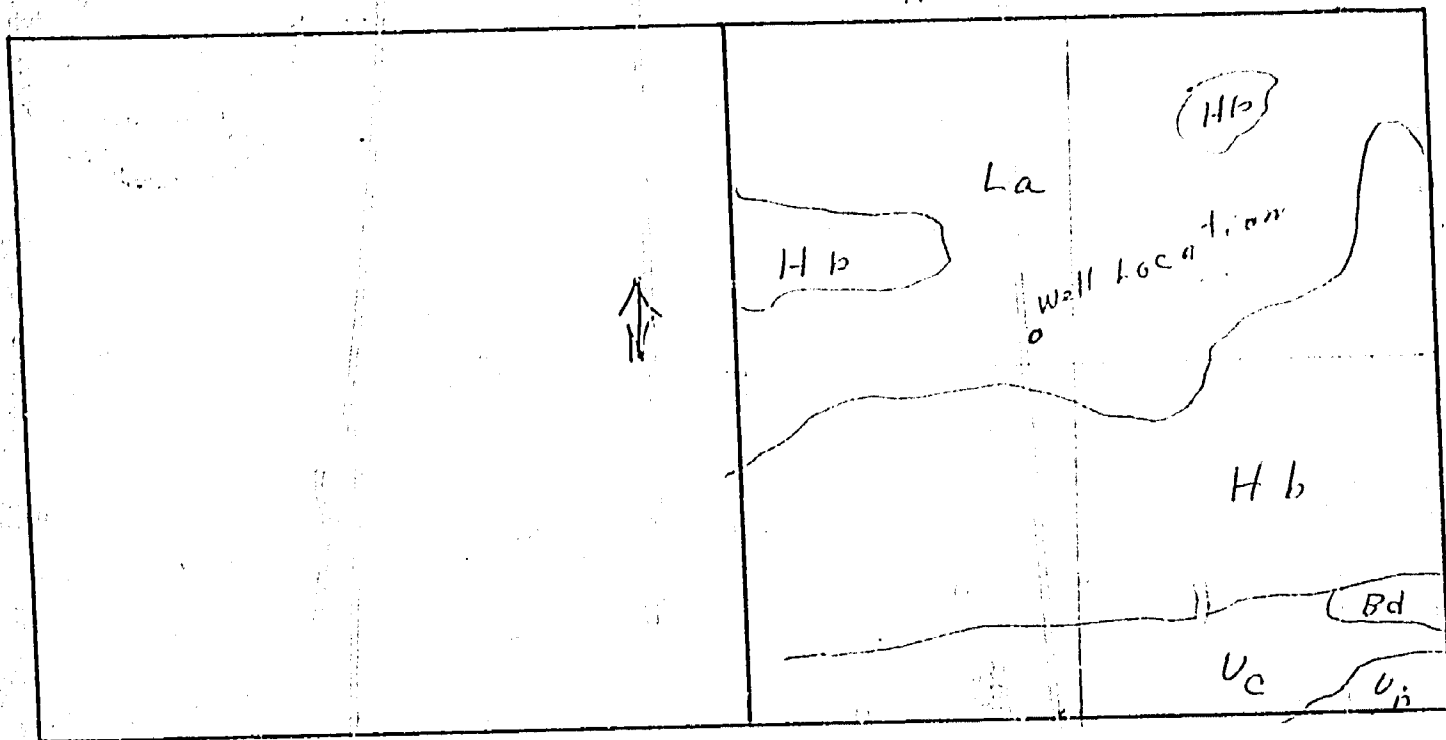
John L. Williams
(TITLE OR SEAL)

APPROVED/DISAPPROVED

(SOILS INFORMATION ON REVERSE SIDE)

MAP

NE⁴ Sec 18 - 110 - 48



NARRATIVE

- Hb - Hecla sandy loam - nearly level
- Vb - Vienna sandy loam - undulating
- La - Lamoine silty clay loam
- Vc - Vienna loam - sloping

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

Submitted by: Willis Hoyer
 Address: Richmell, SD 57011

Date Rec'd: June 2, 1976
 Sample No. 76-577
 Identification Well-55'
NW, Sec. 18, T 110N, R 48W

WATER ANALYSIS

Calcium (Ca)	110	ppm*	5.50	me/l**
Magnesium (Mg)	46	ppm	3.77	me/l
Sodium (Na)	10	ppm	0.43	me/l
Potassium (K)	4	ppm	0.12	me/l
Sulfate (SO ₄)	145	ppm	3.02	me/l
Nitrate (as N)		ppm		me/l
Chloride (Cl)	3	ppm	0.09	me/l
Bicarbonate (HCO ₃)	346	ppm	5.68	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)	284	ppm (as CaCO ₃)		
Alkalinity (Phenolphthalein)	0	ppm (as CaCO ₃)		
Electrical Conductivity	729	micromhos per cm at 25° C.		
Sodium Adsorption Ratio	0.20			
Sodium	4.37	% of cations		
Residual sodium carbonate	0.00	me/l		
pH	7.78			

*ppm=parts per million

**me/l=millequivalents per liter

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



COMMENTS: Total cations 9.82 me/l
 Total anions 8.79 me/l

By: Shirley Witten

Service Performed

Amount Due

Irrigation analysis

8.00 PAID

Make checks payable to: Water Quality Laboratory

Cut along dotted line and return the lower portion with payment

Sample No. 76-577

Amount Enclosed \$

Signed

Form 6. - Notice of Intent to Appropriate Water

No. 2804-3

Publish first publication, on or before
July 3, 1976

NOTICE OF INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

July 1, 1976

Notice is hereby given that Willis E. Meyer

whose post office address is Bushnell, 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 2.1 cubic feet of water per second of time from the ground water through the

Meyer Project #1, the point of diversion of which is to be located in the

NW 1/4 NE 1/4

of Section 18, Twp. 110N, Range 48W. Said water to be used for the purpose of providing irrigation on the following described land:

NE 1/4, Section 18, T110N, R48W

This application No. 2804-3 will be considered by the Water Rights Commission at the Court House at Winner, South Dakota upon the 21st day of July, 1976 at 10:00 A. .M. All interested persons may appear and be heard.

WATER RIGHTS COMMISSION

By:

BURTON F. JONES, Water Rights Specialist

BFJ/bw
cc:

Willis E. Meyer, Bushnell, S.D. 57011

No. 2804-3

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
) ss.
County Brookings)

I, James M. McLellan Jr. hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Breelings Daily Register

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 Baltimore

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

July 8, 1976

July 15, 1976

(Signature)
(Signature)
Editor, General Manager

Editor-General Manager
(Title)

7-15-76

(Date Signed)

Legal No. 330 -- July 8 & 15
**NOTICE OF INTENT TO
 APPROPRIATE WATER**
 Notice is hereby given that Willis F. Meyer whose post office address is Bushnell, 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 2.1 cubic feet of water per second of time from ground water through the Meyer Project No. 1, the point of diversion of which is to be located in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 18, Twp. 110N, Range 48W. Said water to be used for the purpose of providing irrigation on the following described land: NE $\frac{1}{4}$, Section 18, T110N, R48W. This application No. 2804-3 will be considered by the Water Rights Commission at the Court House at Winner, South Dakota upon the 21st day of July, 1976 at 10:00 A.M. All interested persons may appear and be heard.
 By:
**WATER RIGHTS COMMISSION
 BURTON F. JONES,
 Water Rights Specialist**



RECEIVED
JUL 19 1976
DEPT. OF NATURAL
RESOURCE DEVELOPMENT

Form 10.

No. 2804-3



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

Post Office Bushnell SD 57011
Date Aug 13, 1976

TO: Water Rights Commission
Joe Foss Building
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. 2804-3

Water Right Permit No. 2804-3 states that the diversion system is to be constructed by Jan 22, 19 79 and that the water is to be put to beneficial use by July 22, 19 84.

The diversion system was completed on July 12, 19 76.
Applying the water to beneficial use was completed on July 22, 19 76.

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.

Willis E. Meyer
(Signature)



Department of Water & Natural Resources

Joe Foss Building
623 East Capitol
Pierre, South Dakota 57501

WATER RIGHTS DIVISION
Phone (605) 773-3352

No. 3347-3

2804-3

August 11, 1983

Willis E. Meyer
RR#2, Box 115
White, South Dakota 57276

Dear Mr. Meyer:

Enclosed herewith is, Water License No. 3347-3. This 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: ms

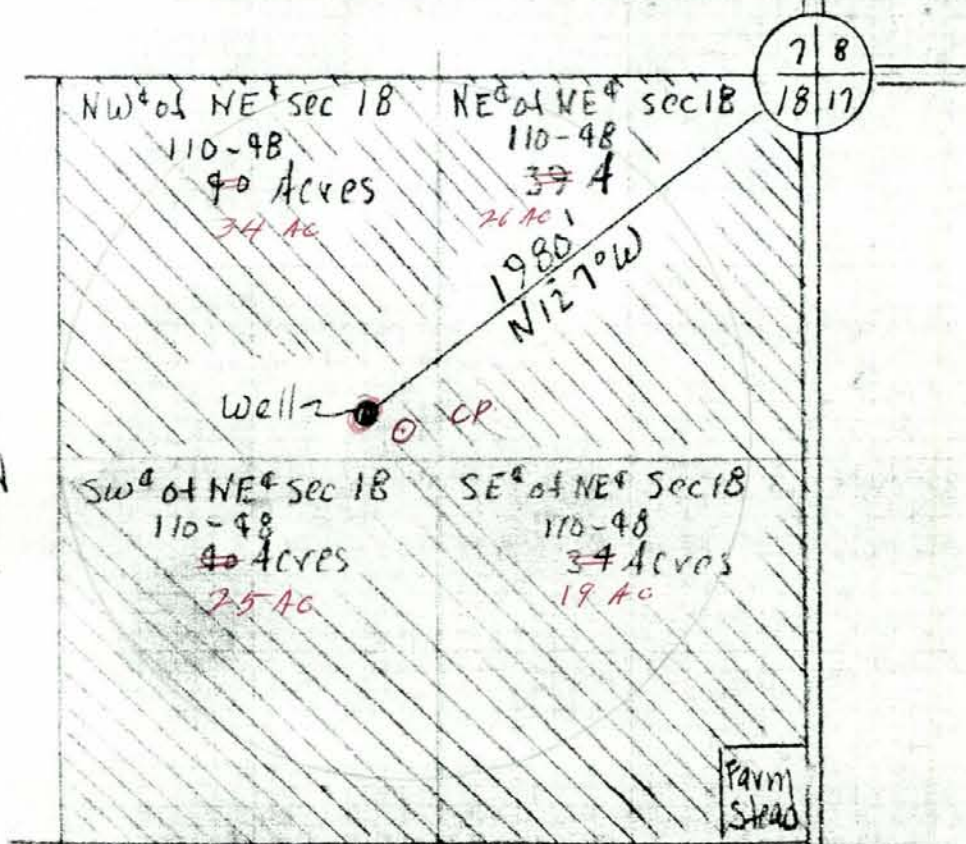
Enclosures

Applicable portions of Water Permit No. 2804-3 have been incorporated into this Water License No. 3347-3

WNR-817 3/83

Transmittal of Water License

Point of Diversion - 1980' N 127°W
of NE corner of Sec 18-110-48



Scale 8" = 1 Mile

WILLIS E. MEYER
Irrigation Project # 1
Bushnell S. Dakota
Brookings Co

Acres Irrigated - 153
Water Claimed - 2.1 cfs

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

Willis E Meyer

Bushnell
Brookings County
Drawn by John
John L. Wiersma

South Dakota
5-2-76
P.E. # 1916
Brookings
S.D.

MAP NO 2160-3 APPL NO 2804-3

NOT TO SCALE

2804-3

3347-3

