

Water Right Number 955-1

1. Considered MAY 17, 19 72
2. Name of Applicant RAYMOND W. MEYER
3. Post Office Address SORUM, S.D.
4. Amount of water claimed 2.10
5. Source of water supply DRY DRAWS
6. Water to be used for IRRIGATION

Acres to be irrigated 148

7. Water to be diverted and used in PERKINS County
about 2-3 Miles N of SORUM

8. Proof of Publication Received 5-5-72

Not received _____

9. Application Approved _____

Subject to _____

Not approved _____

Action deferred _____

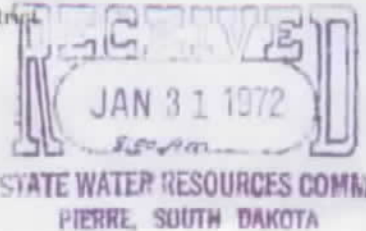
10. Remarks:



866-4924 Meyers ~~274-3801~~ 866-4424
866-4611 Asberg ~~274-3297~~ 866-4611

No. 955-1Map No. 786-1 Water Division No. 1 MOREAU 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 Raymond Meyer
Postoffice address Sorum 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) Contract & Direct Labor
3. Name of diversion work Raymond Meyer Irrigation Project #1
4. Amount of water claimed (cubic feet per second) 2.1 cubic feet per second
5. Source of water supply Dry Draw
6. Location of point of diversion See attached sheet. BETWEEN POINTS 1900' W AND 1750' S OF THE NE CORNER, SECTION 31, T18N, R10E
County PERKINS
7. Annual period or periods during which water is to be used when available
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 118 ac.

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.
Subdivided into		<u>SW¹/4 NE¹/4</u>	<u>16</u>
<u>ALL IN SECTION 31, T18N, R10E</u>		<u>SE¹/4 NE¹/4</u>	<u>40</u>
<u>NW¹/4 NE¹/4</u>	<u>33</u>	<u>NW¹/4 SE¹/4</u>	<u>10</u>
<u>NE¹/4 NE¹/4</u>	<u>40</u>	<u>NE¹/4 SE¹/4</u>	<u>9</u>

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 5 years. Additional time required to complete application of water to the proposed beneficial use 14 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication Bison Courier
12. Principal Features of the Proposed Water Supply System:

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

Earth Dam

B. Works proposed to transport water to place of use:

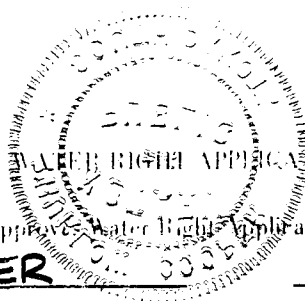
Irrigation Pump

C. Works proposed to apply water to beneficial use:

GravityEstimated Total Cost \$ 2000.00Attachments: 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 PerkinsI, RAYMOND W 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 Raymond W MeyerSubscribed and sworn to before me this 27th day of January 1972Richard Cooper
Notary Public (or other qualified officer)



The Water Resources Commission hereby approves Water Right Application No. 955-1
RAYMOND MEYER Sorum
(Applicant) (Post Office Address)
SOUTH DAKOTA With the following modifications:
(State)

THE DAM CONSTRUCTED UNDER THIS PERMIT SHALL HAVE A LOW LEVEL GATED OUTLET TUBE, AND WATER AS NEEDED FOR DOWNSTREAM DOMESTIC USE AND PRIOR WATER RIGHTS DOWNSTREAM MUST BE BY-PASSED.

APPROVAL OF THIS PERMIT AUTHORIZES STORAGE OF 64 ACRE FEET OF WATER ANNUALLY

Date of first receipt of application JANUARY 31 19 72
Date of return to applicant for correction, amendments or changes required FEBRUARY 11 19 72
Date of receipt of corrected application FEBRUARY 23 19 72
Approved NOVEMBER 8 19 72 Recorded in Book 12 Page 166

WATER RIGHT PERMIT NO. 955-1

The Water Resources Commission hereby grants and issues this Water Right Permit No. 955-1 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 JANUARY 31 19 72
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before MAY 8 19 75
3. The whole of said work is to be completed on or before NOVEMBER 8 19 77
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is NOVEMBER 8 19 77
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 NOVEMBER 8 19 77; said water to be used during the following described annual period: WHEN AVAILABLE

Witness my hand this 6TH day of DECEMBER 19 72

WATER RESOURCES COMMISSION

By:

[Signature]
Chief Engineer, Executive Officer

Certificate of Construction Issued _____, 19 _____

Water License Issued _____, 19 _____

No. 955-1

Map No. 786-1 Water Division No. 1 MOREAU 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 Raymond Meyer
 Postoffice address Sorum 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) Contract and Direct Labor
 3. Name of diversion work Raymond Meyer Irrigation Project No. 4
 4. Amount of water claimed (cubic feet per second) 2.1 cubic feet per second
 5. Source of water supply Dry Draws
 6. Location of point of diversion see attached sheet. Between points 1900 feet West and 1750 feet South of the NE Corner, Section 31, T18N, R10E
 _____ County Perkins
 7. Annual period or periods during which water is to be used when available
 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 148

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.
All in Section 31, T18N, R10E		SE $\frac{1}{4}$ NE $\frac{1}{4}$	40
NW $\frac{1}{4}$ NE $\frac{1}{4}$	33	NW $\frac{1}{4}$ SE $\frac{1}{4}$	10
NE $\frac{1}{4}$ NE $\frac{1}{4}$	40	NE $\frac{1}{4}$ SE $\frac{1}{4}$	9
SW $\frac{1}{4}$ NE $\frac{1}{4}$	16		

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 5 years. Additional time required to complete application of water to the proposed beneficial use 4 years.
 11. Choice of newspaper for Notice of Intent to Appropriate Water publication Bison Courier, Bison, S.D.
 12. Principal Features of the Proposed Water Supply System:
 A. Works proposed to divert water from its natural source:
Earth Dam
 B. Works proposed to transport water to place of use:
Irrigation pump
 C. Works proposed to apply water to beneficial use:
Gravity

Estimated Total Cost \$ 2,000.00

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 _____

I, _____ 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 _____
 The original Water Right Application was signed by Raymond W. Meyer, before a _____
 Notary Public on January 27, 1972.

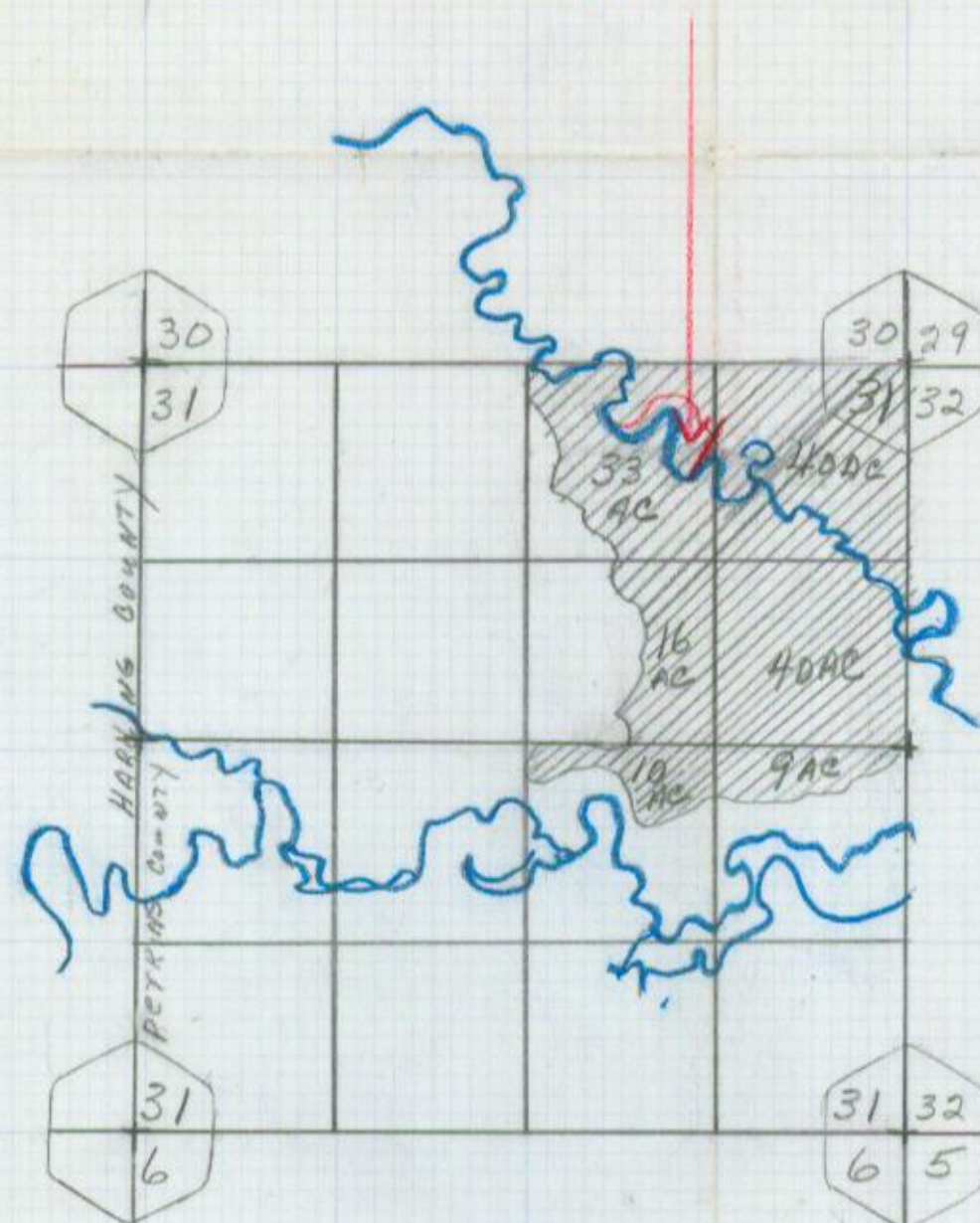
Notary Public (or other qualified officer)

 LAND TO be IRRIGATED

 DRAWS

ACRES	LEGAL DESCRIPTION
33 AC.	NW $\frac{1}{4}$ OF NE $\frac{1}{4}$ SEC-31-T-18-R-10
40 AC.	NE $\frac{1}{4}$ OF NE $\frac{1}{4}$ SEC-31-T-18-R-10
16 AC.	SW $\frac{1}{4}$ OF NE $\frac{1}{4}$ SEC-31-T-18-R-10
40 AC.	SE $\frac{1}{4}$ OF NE $\frac{1}{4}$ SEC-31-T-18-R-10
10 AC.	NW $\frac{1}{4}$ OF SE $\frac{1}{4}$ SEC-31-T-18-R-10
9 AC.	NE $\frac{1}{4}$ OF SE $\frac{1}{4}$ SEC-31-T-18-R-10
TOTAL	148 AC.

IRRIGATION STORAGE DAM LOCATION NW-NE SEC 31-T-18-R-10



POINTS DIVERSION

POINT #1 1900 FT WEST OF THE NE CORNER OF SECTION 31-T-18-R-10

POINT #2 1750 FT SOUTH OF THE NE CORNER OF SECTION 31-T-18-R-10 + ANYWHERE IN BETWEEN THESE 2 POINTS

RAYMOND MEYER

SOURM SO. DAK

IRRIGATION PROJECT #4

MAPS PREPARED BY EIMER BOSCHKE
SOIL CONSERVATION SERVICE

BISON SO. DAK AS PART OF IRRIGATION PLAN

This Water Permit No. 955-1 replaces Water Permit No. 955-1 originally approved by the Water Resources Commission on November 8, 1972 and issued on December 6, 1972.

WATER RIGHT APPLICATION APPROVAL

The Water Resources Commission hereby approves Water Right Application No. 955-1

Raymond Meyer

(Applicant)

Sorum

(Post Office Address)

South Dakota

(State)

With the following modifications:

The State Water Resources Commission on May 23, 1973 moved and passed a motion that Water Permit No. 955-1, as approved on November 8, 1972, be changed so the authorized construction of a dam on the dry draw and the storage of up to 64 acre-feet of water annually be rescinded and that such dam construction and water storage is not authorized.

The Commission further confirmed that water as needed for downstream domestic use, including livestock watering, and prior water right use, specifically for Water Permit No. 455-1, must be by-passed.

Date of first receipt of application January 31, 19 72
Date of return to applicant for correction, amendments or changes required February 11, 19 72
Date of receipt of corrected application February 23, 19 72
Approved November 8, 19 72, Recorded in Book 12 Page 166

WATER RIGHT PERMIT NO. 955-1

The Water Resources Commission hereby grants and issues this Water Right Permit No. 955-1 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 January 31, 19 72
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before May 8, 19 75
3. The whole of said work is to be completed on or before November 8, 19 77
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is November 8, 19 81
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 November 8, 19 77; said water to be used during the following described annual period: when available

Witness my hand this 29th day of May, 19 73

WATER RESOURCES COMMISSION

By:

Chief Engineer, Executive Officer J.W. GRIME S

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 _____, Depth _____

(2) Casing, Type _____ Diameter _____ Thickness _____
(wood, concrete, steel, etc.)

(3) Perforated Screen.

Type _____, Diameter _____, Length _____

(4) Gravel Pack. Thickness _____, Length of gravel pack _____

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 _____

Depth to top of water bearing material _____

Depth to bottom of water bearing material _____

Thickness of water bearing material _____

Depth to water (ground surface to water level) _____

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

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

DAM HEIGHT = 23 FT

WATER DEPTH = 30 FT

SURFACE AREA = 8 AC

STORAGE CAPACITY = 64.8 AC FT

Raymond W. Meyer
Signature of Applicant

No. 955-1

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Perkins) ss.

I, Adria B. Sudlow hereby

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

Water was taken from the Bison 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 Bison

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

April 13, 1972

April 20, 1972

April 27, 1972

May 4, 1972

Adria B. Sudlow
(Signature)

Business Mgr. & Editor
(Title)

May 4, 1972
(Date Signed)

NOTICE OF INTENT
TO APPROPRIATE WATER

Notice is hereby given that RAYMOND W. MEYER, whose post office address is Sorum, 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 dry draws through the Meyer Irrigation Project No. 4, the point of diversion of which is to be located between points in the NW 1/4, NE 1/4, and in the SE 1/4 NE 1/4 of Section 31, Twp. 18 N, Range 10E. Said water to be used for the purpose of providing irrigation on portions of the following described land:

NE 1/4 and N 1/2 SE 1/4, Section 31, T 18, R 10E.

This application No. 955-1 will be considered by the Water Resources Commission at their office at Pierre upon the 17th day of May, 1972, at 2:00 P.M. All interested persons may appear and be heard.

WATER RESOURCES COMMISSION
By BURTON F. JONES,
Water Rights Specialist

RECEIVED
MAY 5 1972

STATE WATER RESOURCES COMM.
PIERRE, SOUTH DAKOTA

Publish first publication, on or before April 20, 1972 ~~19~~NOTICE
INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

March 22, 19 72Notice is hereby given that Raymond W. Meyerwhose post office address is Sorum, 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 use2.1 cubic feet of water per second of time from ~~the~~ dry draws through the Meyer Irrigation Project #4, the point of diversion of which is to be located in ~~the~~ between points in the NW $\frac{1}{4}$ NE $\frac{1}{4}$ and in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 31, Twp. 18N, Range 10E. Said water to be used for the purpose of providing irrigation of ~~the~~ portions of the following described land:NE $\frac{1}{4}$ and N $\frac{1}{2}$ SE $\frac{1}{4}$, Section 31, T18N, R10EThis application No. 955-1 will be considered by the Water Resources Commission at their office at Pierre upon the 17th day of May, 19 72, at 2:00P. M. All interested persons may appear and be heard.

WATER RESOURCES COMMISSION

By:

BURTON F. JONES, Water Rights Specialist

BFJ/bw

EHEI

cc: Mr. Raymond W. Meyer, Sorum, South Dakota 57654

At its May, 1972 Commission meeting, the Commission considered the application of Raymond Meyer to pump irrigate on a maximum of 148 acres of land from a dam to be constructed on a tributary of Gap Creek. The proposed dam was to have a capacity of 64 acre-feet and a maximum surface area of 8 acres. Mr. Lester Aaberg appeared and expressed his concern that the proposed irrigation system might adversely affect his downstream spreader irrigation system (Water Right 455-1). The Commission deferred action on the application pending an investigation by the Commission Staff.

A sketch map has been prepared to aid in explaining the situation. No. 955-1 shows the location of the proposed dam. This location is about 23 miles west and 3 miles south of Bison.

As far as the Commission Staff can determine, a conservative estimate of ordinary annual run-off for the area after normal stock water dam development has occurred is 0.3 inches, or a run-off of 16 acre-feet of water from a section of land. This run-off amount can be greatly exceeded during higher run-off years. Under these conditions, the Commission Staff understands modern controlled spreader systems in this area need a minimum of 40 acres of drainage area for each acre to be irrigated.

No. 955-1 represents the proposed dam and pump irrigation. It is located on a tributary of Gap Creek designated as NW Tributary. The drainage area above the 955-1 dam is about nineteen sections. Using the 0.3 inch estimate, this would produce an ordinary annual run-off of about 305 acre-feet.

Upstream from this proposed irrigation is a very old dam, designated by the symbol B. This dam was originally built as a source of irrigation water, but the irrigation has been abandoned for many years. This dam has a surface area of about 28 acres. Either through seepage or spillway leakage, the Commission Staff believes this dam allows over 100 acre-feet of its stored water to flow downstream during an ordinary year. This leakage is not enough to have any value in a downstream spreader system, but a portion of this water might be impounded by the proposed 955-1 dam.

Using the water permit map and from field inspection, the Commission Staff estimates that about 35 acres of land under Water License 455-1 is irrigated with run-off from the tributaries designated by NW and N. This estimated 35 acres is not a controlled spreader system, but the Commission Staff considers it as quite an efficient system. On the N Tributary, there is a large dam indicated by the symbol A. The Commission Staff does not believe the drainage area above this dam would contribute in any degree to the 455-1 irrigation. The remaining drainage area in the N Tributary is about five sections. This provides a drainage area of about 91 acres for each of the estimated 35 acres irrigated in 455-1 with run-off from the NW and N Tributary drainages.

The Commission Staff has some question that the remaining drainage area for the discussed 35 acres of spreader irrigation is ample. Therefore, the Staff recommends that Water Right Application No. 955-1 be approved, containing the qualification that the dam shall have a low level gated outlet tube and that water as needed for downstream domestic use and prior water rights downstream be by-passed.

On the sketch map the uncolored portion of 455-1 and 32-1, 447-1 and 868-1 indicate irrigation developments on the main Gap Creek drainage.

WATER RIGHT APPLICATION 955-1

SKETCH MAP

Rabbit Creek

South Fork Rabbit Creek

Sorum Dam

455-1

955-1

447-1

868-1

ANDY CREEK
Drainage Area
6 Sections ±

N. TRIBUTARY
Drainage area
8 Sections ±

PERKINS COUNTY

HARDING COUNTY

GAP CREEK
Drainage Area
29 Sections ±
NW. TRIBUTARY
Drainage Area
20 Sections ±

