

Water Right Number 3135-3

1. Considered 11-17, 1975
2. Name of Applicant ROGER M^c CULLOUGH
3. Post Office Address BIG STONE CITY
4. Amount of water claimed 3.0
5. Source of water supply DUGOUT & GRAVEL PIT
6. Water to be used for IRRIGATION
Acres to be irrigated 225
7. Water to be diverted and used in GRANT County
about 2E 4N Miles 1ST of MILBANK
8. Proof of Publication
Received 1ST
Not received _____
9. Application
Approved _____
Subject to _____
Not approved _____
Action deferred _____

10. Remarks:

Incorporated 11/10/81 See 3954-3

No. 3135-3Map No. 2476-3 Water Division No. 3 WHETSTONE CREEK 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 ROGER McCulloch
 Postoffice address BIG STONE CITY, State SD
 If a corporation show date and place of incorporation _____
2. Method of accomplishing work (contract, employment of others, or by direct labor) CONTRACT
3. Name of diversion work McCulloch #1
4. Amount of water claimed (cubic feet per second) 3.0 CFS
5. Source of water supply DUGOUT
6. Location of point of diversion 900 FT WEST, 250 FT NORTH FROM THE CENTER OF SECTION 20 121-47
SE 1/4 of NW 1/4 - 20-121-47 County GRANT
7. Annual period or periods during which water is to be used MAY thru Oct.
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 225

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.
(SEE ATTACHED LIST)			

Attach sheet if more space is needed

10. Time required to complete construction of water supply system 2 years. Additional time required to complete application of water to the proposed beneficial use 0 years.
11. Choice of newspaper for Notice of Intent to Appropriate Water publication GRANT COUNTY REVIEW
12. Principal Features of the Proposed Water Supply System.

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

pump + motor

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

PIPE

C. Works proposed to apply water to beneficial use.

TRAVELLING SPRINKLEREstimated Total Cost \$ 45000.00Attachments: 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

I, Roger McCulloch, 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 Roger McCullochSubscribed and sworn to before me this 12th day of OCTOBER, 1976William E. Hooper
Notary Public (or other qualified officer)WILLIAM E. HOOPER
Notary Public, South Dakota

My Commission Expires Sept. 24, 1980

WATER RIGHT APPLICATION APPROVAL

The Water Rights Commission hereby approves Water Right Application No. 3135-3ROGER McCULLOUGH
(Applicant)BIG STONE CITY
(Post Office Address)SOUTH DAKOTA 57216
(State)

With the following modifications.

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.

**INCORPORATED INTO
WATER LICENSE NO.**

3954-3
11/10/81

Date of first receipt of application OCTOBER 14, 1976

Date of return to applicant for correction, amendments or changes required _____ 19 ____

Date of receipt of corrected application OCTOBER 31, 1976Approved NOVEMBER 18, 1976 Recorded in Book 16 Page 220WATER RIGHT PERMIT NO. 3135-3

The Water Rights Commission hereby grants and issues this Water Right Permit No. 3135-3 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 OCTOBER 14, 1976
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before NOVEMBER 18, 1977
3. The whole of said work is to be completed on or before NOVEMBER 18, 1978
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is NOVEMBER 18, 1981
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 3.0 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 18, 1981; said water to be used during the following described annual period: MAY THRU OCTOBER

Witness my hand this 21ST day of DECEMBER 19 76

WATER RIGHTS COMMISSION

By:

John H. Hahn
Chief Engineer, Executive Officer

Certificate of Construction issued _____, 19 ____

Water License Issued _____, 19 ____

DESCRIPTION OF LANDS TO BE IRRIGATED

NE $\frac{1}{4}$ of SW $\frac{1}{4}$	20-121-47	30
N $\frac{1}{2}$ of SE $\frac{1}{4}$ of SW $\frac{1}{4}$	20-121-47	18
NW $\frac{1}{4}$ of NE $\frac{1}{4}$	20-121-47	25
NE $\frac{1}{4}$ of NE $\frac{1}{4}$	20-121-47	40
SE $\frac{1}{4}$ of NE $\frac{1}{4}$	20-121-47	35
SW $\frac{1}{4}$ of NE $\frac{1}{4}$	20-121-47	35
NE $\frac{1}{4}$ of NW $\frac{1}{4}$	20-121-47	20
SE $\frac{1}{4}$ of NW $\frac{1}{4}$	20-121-47	22
		225

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

D Well Information or Estimates NOT Applicable

(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 1 ACRE, Depth 18 FT.

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 GRAVEL PIT

Depth to top of water bearing material 5 FT

Depth to bottom of water bearing material UNKNOWN

Thickness of water bearing material -

Depth to water (ground surface to water level) 5 FT

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

On same owner's property 40 rds. On property owned by others 135 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.

CLOSEST NEIGHBOR IS ALSO IRRIGATING FROM
THE SAME MATERIAL.

Roger McCall
Signature of Applicant

Dear Sir,

My plans are to use
No. #1 dugout for my main source
of water which is located 900 ft. west
250 ft. north from the center of section 20-121-47.

If for some reason I need more
water source I would be going to source
No. #2 located on the NE $\frac{1}{4}$ of NE $\frac{1}{4}$ -
20-121-47 about 600 ft. west and
200 ft. north of south edge of NE $\frac{1}{4}$ of NE $\frac{1}{4}$ - 20-
121-47.

Sincerely
Roger W. Cullock.

No. 3125-3

Publish first publication, on or before

November 5, 1976

NOTICE OF INTENT TO APPROPRIATE WATER

Pierre, South Dakota 57501

October 28, 1976

Notice is hereby given that

Roger McCulloch

whose post office address is Pierre, South Dakota, 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 1.25 cubic feet of water per

second of time from the Big Stone River through the

McCulloch, the point of diversion of which is to

be located in the Big Stone River

of Section 20, Twp. 121N, Range 47W. Said water to be used for the purpose of providing irrigation on the following described land:

1.25 ac. of land, Section 20, 4121N, 147W

This application No. 3125-3 will be considered by the Water Rights

Commission at The Marvin Hughitt Hotel in Pierre, South Dakota

upon the 17th day of November, 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: Roger McCulloch, Big Stone City, SD 57216

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Grant) ss.

I, Clarence Justice hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Grant County Review

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 Milbank

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

Nov. 2, 1976

Nov. 10, 1976

Clarence Justice
(Signature)

Foreman

(Title)

11-10-76

(Date Signed)

NOTICE OF INTENT TO
APPROPRIATE WATER
Pierre, South Dakota 57501
October 28, 1976

Notice is hereby given that
Roger McCulloch, whose post
office address is Big Stone City,
South Dakota, has made an ap-
plication in accordance with the
provisions of the water laws of
South Dakota for a permit to
appropriate for beneficial use 3.0
cubic feet of water per second of
time from a dugout and gravel pit
through the McCulloch No. 1, the
points of diversion of which are to
be located in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ and
NE $\frac{1}{4}$ NE $\frac{1}{4}$ of Section 20, Twp.
121N, Range 47W. Said water to
be used for the purpose of provid-
ing irrigation of the following
described land: NE $\frac{1}{4}$ and E $\frac{1}{2}$
W $\frac{1}{2}$, Section 20, T121N, R47W.

This application No. 3135-3 will
be considered by the Water
Rights Commission at the Marvin

Hughitt Hotel in Huron, South
Dakota, upon the 17th day of
November, 1976, at 10:00 a.m. All
interested persons may appear
and be heard.

Water Rights Commission
By: Burton F. Jones,
Water Rights Specialist

Nov. 3

Nov. 10



March 21, 1980

Robert Lien
Milbank, SD 57252

Dear Mr. Lien:

Per our telephone conversation of this date, I had stated that since Water Permit No. 3135-3 in the name of Roger McCullough is owned by you, it should be transferred.

However, in talking with another member of our staff concerning this permit, it was indicated that since Mr. McCullough farms the land, and therefore would handle all the correspondence concerning this water permit, that it would be satisfactory to have the permit remain in his name.

If you have any questions, please contact this office.

Sincerely,

GENNY YOUNG
Staff Assistant

gy

March 25, 1980

Mr. Lien called, apparently there was a mix-up on the permit name. Mr. McCullough does own this one. Mr. Lien is on the land. Mr. McCullough does farm some of Mr. Lien's land though.

Genny



MAP N-247-3 APRIL 23/53

H.O.
O.K.
Ardi Jackson

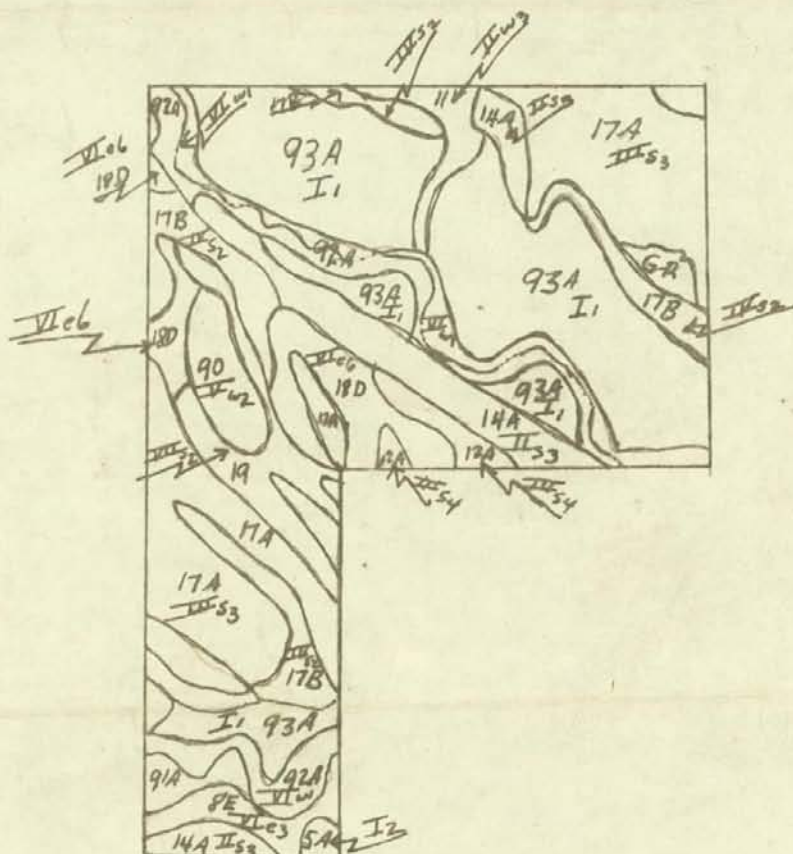
Balance These
fields on 110B

3440
-090-04

Ardi Jackson
Grant to ASOS

SOIL AND CAPABILITY MAP

GRANT COUNTY Conservation District and
 Rodger Mc Culloch Cooperating
 Owner Rodger Mc Culloch Operator SAME
 County GRANT State S. Dak Photo No. _____
 Date prepared 9-21-76 Scale: 4" = 1 mile Acreage 320
 Approximate Approximate



IRRIGATION SURVEY REPORT - Roger McCulloch

Location: Grant County

Mapping unit 5A - This unit consists of Heimdal-Svea loams, 0 to 2 percent slopes. Heimdal soils are deep, well drained, moderately permeable soils formed in calcareous loamy and silty glacial till. Available water capacity is high. Heimdal soils are in the 1.0 intake family and have a moderate water intake rate. Svea soils are deep, moderately well drained soils formed in loamy glacial till. They have moderate permeability in the surface layer and subsoil and moderately slow permeability in the underlying material. Available water capacity is high. They have a moderately slow water intake rate and are in the 0.5 intake family.

Mapping unit 8E - This unit consists of Sisseton loam, 15 to 40 percent slopes. Sisseton soils are deep, well drained calcareous soils formed in loamy and silty glacial drift. Permeability is moderate and available water capacity is moderate or high. Sisseton soils are in the 1.0 intake family and have a moderate water intake rate. This unit would have a severe erosion hazard.

M

Mapping unit 11 - This mapping unit consists of Marysland loam and are poorly drained nearly level soils on glacial outwash plains. Permeability is moderately rapid, the available water capacity is low to moderate. A fluctuating water table is at depths of 1 to 4 feet. Surface runoff is slow.

Mapping unit 14A - This unit consists of Fordville loam, 0 to 2 percent slopes. These are moderately deep, well drained soils formed in loamy alluvium underlain by sand and gravel at depths of 20 to 40 inches. Permeability is moderate in the soil and rapid in the underlying sand and gravel. The available water capacity is moderate to high depending on depth to the underlying sand and gravel. Fordville soils are in the 1.0 intake family and have a moderate water intake rate. This soil is well suited for irrigation in regard to available water capacity and internal drainage.

Mapping unit 17A - This unit consists of Renshaw loam, 0 to 2 percent slopes. These are shallow, somewhat excessively drained soils formed in loamy alluvium underlain by sand and gravel at depths of 10 to 20 inches. Renshaw soils have moderately rapid permeability in the upper part and rapid permeability in the sand and gravel. Available water capacity is low, averaging between 4.50 to 5.50 in the 5 foot depth with the majority being in the portion above the sand and gravel. These soils have a fast water intake rate and are in the 2.0 intake family. Renshaw soils are suited to irrigation, but are considered droughty and normally require frequent periods of irrigation to realize the maximum benefit.

Mapping unit 17B - This unit consists of Renshaw loam, 2 to 6 percent slopes. The soils in this unit are like those described in mapping unit 17A except for slopes. This unit would have a moderate water erosion hazard.

Mapping unit 18D - This unit consists of Renshaw-Sioux loams, 6 to 15 percent slopes. The Renshaw soils, except for slope are like those described in the 17B mapping unit. The Sioux soils are excessively drained soils that are underlain by sand and gravel at depths of 10 inches or less. The available water capacity is very low. Permeability is rapid. The Sioux soil is not suited for cultivation.

Mapping unit 91A - This unit consists of Playmoor silty clay loam with slopes from 0 to 2 percent. This is deep, nearly level, poorly drained soils on flat bottomlands and flood plains. Permeability is moderately slow, surface runoff is very slow and available water capacity is high. This soil is subject to flooding and a water table is at depths of 1 to 3 feet during part of the growing season.

Mapping unit 92A - This unit consists of LaDelle soils, channeled.

Mapping unit 93A - This unit consists of LaDelle silt loam, 0 to 2 percent slope. Available water capacity is high and permeability is moderate. It is subject to periods of wetness because of flooding by heavy runoff and a water table is at a depth of 4 to 5 feet during part of the growing season. It is in the 0.5 intake family.