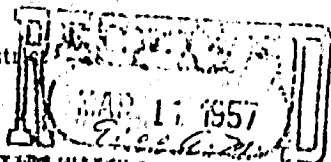


1. Considered May 15, 1957
2. Name of Applicant Donald E. Mayroy # 430-3
3. Post Office Address Appleton, Wis. DNR,
4. Amount of water claimed 1.71 cfs
5. Source of water supply Ground water
6. Water to be used for Irrigation
Acres to be irrigated 129
7. Water to be diverted and used in Clay County about
9 miles west of Vermillion.
8. Proof of Publication Received ✓
Not Received
9. Application Approved ✓
Subject to
Not approved
Action deferred

10. Remarks:

No. 430-3Water Division No. 3 Vermillion 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 DONALD E. MYRON MILO C. GILBERTSON
Postoffice address Meckling, County CLAY, State So. Dak.

~~I. If a corporation~~

- (a) Name of same _____
(b) Date and place of incorporation _____
(c) Amount of capital stock _____
(d) Amount paid in _____
(e) Names and addresses of directors _____

(NOTE—A certified copy of articles of incorporation must accompany the application.)

II. Method of accomplishing the work and financial resources of the applicant:

(a) Method of accomplishing work (Whether by contract, employment of others, or by direct labor)

CONTRACT

(b) Cash on hand, \$ _____ (c) Treasury stock, \$ _____

(d) Bonds to be issued, \$ _____ (e) Other resources, \$ _____

2. Name of diversion work DONALD E. MYRON Irrigation Project No. 13. Amount of water claimed 1.71 cubic feet per second4. Source of water supply well5. Location of point of diversion 295 feet S 17° 41' E NW quarter corner
NR 4 Sec. 15 - T. 2 - S. 3 on _____ bank CLAY County.6. Annual period or periods during which water is to be used April 1 To Nov. 30

7. To be used for:

I. Irrigation or domestic use: Gravity, overhead sprinkling or combination system? gated pipe(a) Number of acres to be irrigated 129 acres.(b) Legal subdivisions to be irrigated NE 1/4 NW 1/4 Sec. 15, + SW 1/4 + SE 1/4 NW 1/4
(NOTE—A list of lands to be irrigated, giving each subdivision and fraction with acreage thereof, should be written here, or may be appended as a part of this application. Same must also be shown on accompanying map.) 10-42-53(c) Statement as to domestic use (giving location, etc.) NONE~~II. Stockwatering, mining, milling, power, fish culture, fire protection and public recreation:~~(a) Nature of use _____
Name any of the above uses claimed

(b) Amount of power to be generated _____ horse power.

Amount claimed for engine cooling _____

(c) Location of plant _____

(d) Method of developing power _____

(e) Point where water will be returned to stream _____ rods. On property owned by others 80 rods

Map No. 327-3

8. Estimated cost of work:

(a) Head Gates, \$-----

(c) Fluming, \$-----

(e) Other structures *galv. pipe*-----

(d) Canal-earth, \$-----

\$ *2900.00*(b) Pumping plant, \$ *1200.00*

Rock, \$-----

Total, \$ *4100.00*

D. Description of diversion works:

I. Nature of works: (Reservoir, dam, ditch, flume, pumping plant, etc.)

2000 feet 6" galv. pipe

II. Dimensions of works:

(a) Dam: Height-----feet; length at bottom-----feet; length at top-----

-----feet; thickness at bottom-----feet; thickness at top-----

feet; slope at front water face-----; slope at back face-----

material used in construction-----

(b) Reservoir: Capacity when full-----acre feet. Surface area at highwater mark-----acre.

DEPTH AT OUTLET-FEET	SURFACE AREA AT EACH DEPTH AT OUTLET--ACRES	FEET	ACRE-FOOT CAPACITY

(c)* Head gate: Width-----feet; height-----feet;

Material-----

(d) Canal: Total length-----miles.

LOCATION BELOW HEADGATE	DEPTH	BOTTOM WIDTH	WIDTH AT WATER-LINE	GRADE PER MILE
At ----- Mile	----- feet	----- feet	----- feet	----- feet
At ----- Mile	----- feet	----- feet	----- feet	----- feet
At ----- Mile	----- feet	----- feet	----- feet	----- feet
At ----- Mile	----- feet	----- feet	----- feet	----- feet
At ----- Mile	----- feet	----- feet	----- feet	----- feet
At ----- Mile	----- feet	----- feet	----- feet	----- feet

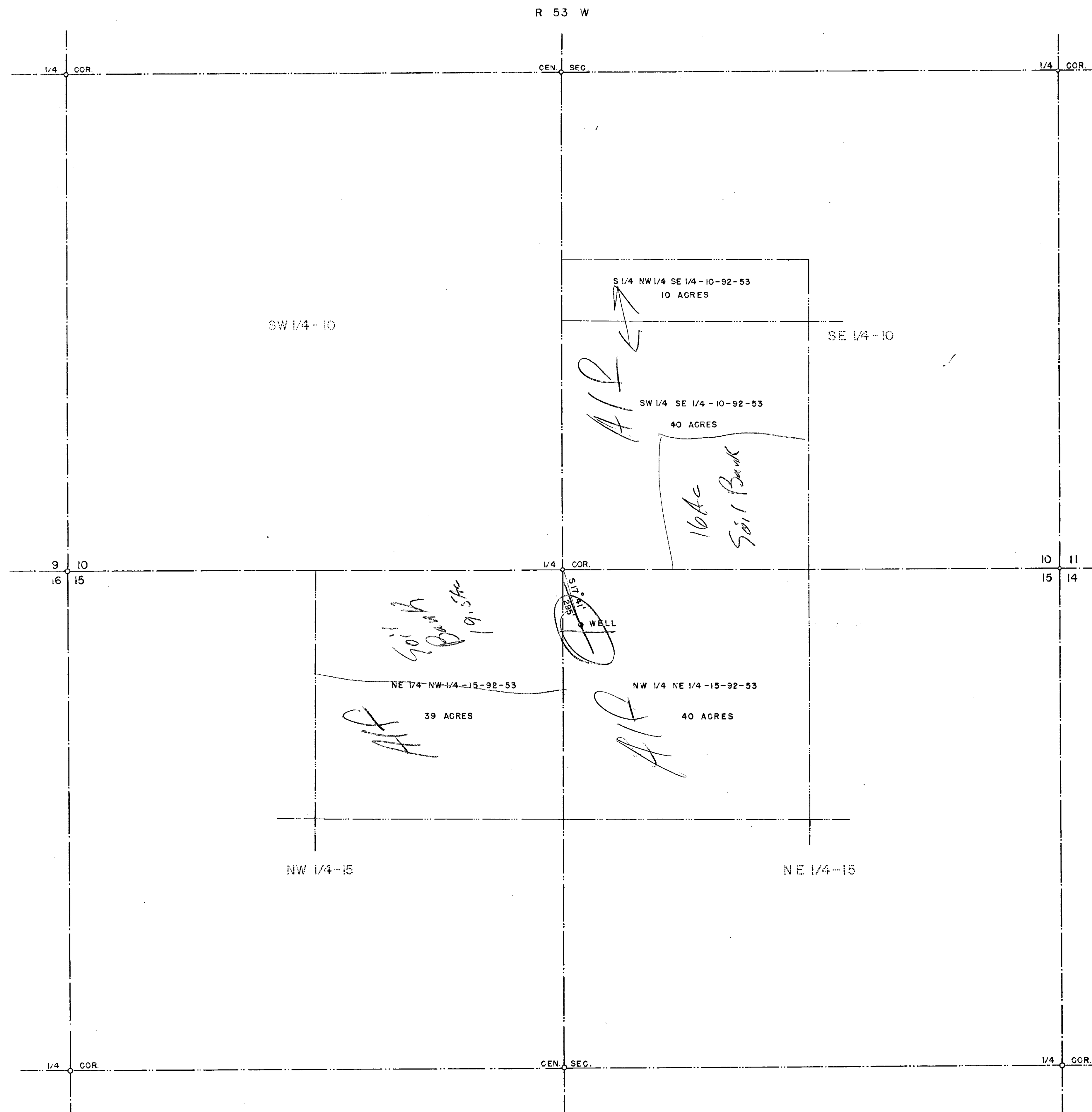
(Give dimensions where reductions in size are made.)

10. Time required for completion of work *3*-----years.11. Time required for complete application of water to the proposed beneficial use *2*-----years.12. Choice of newspaper for publication of notice of intention to appropriate *Vermillion Press-Talk*
Vermillion, S. DAK.

STATE OF SOUTH DAKOTA

County of *Yankton* } ss.I, *Donald E. Myron*, being first duly sworn on my oath depose and say: That my relation to the above described undertaking is that of owner, that I have read the above foregoing statement, examined the map accompanying the same, and that I know of my own personal knowledge that the matters therein stated and shown are true.Signed *Donald E. Myron*Subscribed and sworn to before me this *8th* day of *March* 19*57**Anna S. Olson*
Notary Public (or other qualified officer.)

*Each diversion must have a headgate or measuring device.



DONALD E. MYRON IRRIGATION PROJECT NO. 1

CLAY COUNTY, S. DAK.

SCALE: 1" = 300'

SURVEYOR'S CERTIFICATE

I, MARVIN R. HECK, A DULY LICENSED LAND SURVEYOR IN AND FOR THE STATE OF SOUTH DAKOTA, DO HEREBY CERTIFY THAT UNDER MY SUPERVISION, A CAREFUL SURVEY OF THE DONALD E. MYRON IRRIGATION PROJECT NO. 1 WAS MADE AND THAT THE ACCOMPANYING MAP HEREON IS A TRUE AND CORRECT REPRESENTATION OF THE SAME.

IN WITNESS WHEREOF I HAVE HEREUNTO SET MY HAND AND OFFICIAL SEAL THIS 4th DAY OF MARCH, 1957.

Marvin R. Heck
REGISTERED LAND SURVEYOR

STATE OF SOUTH DAKOTA) SS
COUNTY OF DAVISON)

ON THIS 4th DAY OF MARCH, 1957, BEFORE ME, THE UNDERSIGNED OFFICER, PERSONALLY APPEARED MARVIN R. HECK, KNOWN TO ME TO BE THE PERSON WHOSE NAME IS SUBSCRIBED TO THE WITHIN INSTRUMENT AND HE ACKNOWLEDGED TO ME THAT HE EXECUTED THE SAME FOR THE PURPOSE CONTAINED THEREIN.

IN WITNESS WHEREOF I HAVE HEREUNTO SET MY HAND AND OFFICIAL SEAL.

Margaret Galus
NOTARY PUBLIC

MY COMMISSION EXPIRES: Aug. 27, 1960

Map No. 327-3
(Appt No. 430-3)

Remarks by State Water Resources Commission:

STATE OF SOUTH DAKOTA
County of Hughes } ss.

Pierre, South Dakota, March 26, 1957

This is to certify that the foregoing application was received by the Commission at 9:00 o'clock
9 a.m. upon the 11 day of March, 1957

State Water Resources Commission

By:

John R. Miller
Chief Engineer, Executive Officer

Number of permit 430-3

Date of first receipt of application March 11, 1957

Date of return to applicant for correction, amendments or changes required as follows: —, 19—

Date of receipt of corrected application —, 19—

Date from which applicant may claim right March 11, 1957

Approved May 15, 1957, Recorded in Book 4 Page 100

This is to certify that we have examined the foregoing application for a permit to appropriate water of the State of South Dakota, and we hereby grant the same as stated herein, subject, however, to the following limitations and conditions:

1st. The equivalent of at least one-fifth of the work above specified is to be completed on or before November 15, 1958

2nd. The whole of said work is to be completed on or before May 15, 1960

3rd. The limit of time for proof of beneficial use of water appropriated in accordance herewith is

May 15, 1962

4th. The water appropriated shall be used for the purpose of irrigation

5th. 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.

6th. The amount of the appropriation herein granted shall not exceed 1.71 cubic feet per second; neither shall it exceed the capacity of the above described system of diversion works, nor the least amount of water that experience may hereafter indicate as necessary for the production of crops in the exercise of the best husbandry; and further, said appropriation must 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 May 15, 1962; said water to be used during the following described annual period:

April to November inclusive

Witness my hand this 19 day of June, 1957

State Water Resources Commission

By:

John R. Miller
Chief Engineer, Executive Officer

Certificate of Construction Issued September 28, 1957

Water License Issued September 28, 1957

9. (Continued)

III. Well Specifications

(a) Hole and casing

Size of drill hole or excavation 32 inch, Depth 116 feet

Type of casing steel
(wood, concrete, steel, etc.)

Size of casing 18 inch, Thickness of casing 12 ga

Length of casing 86, If collection gallery, length, size and depth of gallery

(b) Screens

Type of perforated screen punched steel

Size of perforated screen 18 inch, 30 feet
(diameter) (length)

Thickness of gravel pack 7 inch, length of gravel pack 116 feet

(c) Water Bearing Materials

Distance to water 15 feet, Character of water bearing materials
fine sand to very coarse sand

Thickness of water bearing material 31 feet

(d) Pump and Motor

Type of pump Turbine
(centrifugal, propeller, mixed flow, etc.)

Name of pump Western Land Roller, size 10 inch

Kind of motor Tractor
(gasoline, electric, diesel, etc.)

Horsepower 40 HP, Name of Motor John Deere 60

(e) Complete well

Capacity 1000 at drawdown of 40 feet, Estimated cost 1500⁰⁰

(f) Owner of land upon which well is located Donald E. Myron,
Name

Meckling, S. DAK
Address

(g) Distance to nearest existing wells

On same owner's property 20 rods. On property owned by others 80 rods

Permit No. 430-3VermillionWater Division No. 3River Water District**Certificate of Completion of Works**

TO ALL WHOM IT MAY CONCERN:

This is to Certify, That Donald E. Myron

of Mackling, County of Clay, and State of South Dakota, the holder of Permit No. 430-3, issued upon Application No. 430-3, bearing date of priority of March 11, 1957, authorizing the diversion of 1.71 cu. ft. per second of the waters of ground water County of Clay, State of South Dakota, at 295 feet S 17° 41' E of the N $\frac{1}{2}$ Cor., Sec. 15, T 92 N, R 53 W for irrigation

purposes, has fully complied with the provisions of the laws of the State of South Dakota relating to proof of completion of the works of diversion set out and described in said Permit; that said works are found in satisfactory condition for diverting and conveying to the place of intended use 1.71 cu. ft. per second of water; and that the lands proposed to be irrigated by the use of said water are described as follows,

to-wit: NE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 15, T 92 N, R 53 W - - - - - 39 acres

NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 15, T 92 N, R 53 W - - - - - 40 acres

SW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 10, T 92 N, R 53 W - - - - - 40 acres

S $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 10, T 92 N, R 53 W - - - - - 10 acres

Total 129 acres

Witness my hand is 28th day of September A. D. 1957

State Water Resources Commission

By:

J. W. GRIMES, Chief Engineer, Executive Officer

STATE OF SOUTH DAKOTA

WATER LICENSE No. 430-3

WHEREAS, On the 11th day of March A. D. 1957

Donald E. Myron

of Meckling County of Clay and State of South Dakota duly made application (No. 430-3) to us for a permit to use 1.71 cubic feet per second of the waters of ground water County of Clay, State of South Dakota, for irrigation purposes; and

WHEREAS, On the 19th day of June A. D. 1957

Permit No. 430-3 was issued to said applicant for the diversion of said water, and providing for the completion of the works of diversion therein described on or before the 15th day of May A. D. 1960 and for the application to beneficial use of said water on or before the 15th day of May A. D. 1962 and,

WHEREAS, On the 1st day of August A. D. 1957

the holder of said permit duly made proof of the completion of adequate works for the diversion of 1.71 cubic feet per second of said waters, as evidenced by our Certificate No. 430-3 dated September 28, 1957 confirming the completion of works of sufficient capacity for diverting and conveying to the place of intended use 1.71 cubic feet per second of water, with date of priority of March 11, 1957 and,

WHEREAS, On the 1st day of August A. D. 1957

proof was duly made of the application to beneficial use of 1.71 cubic feet per second of said water; on 129 acres located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ and NW $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 15; SW $\frac{1}{4}$ SE $\frac{1}{4}$ and S $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 10; all in T 92 N, R 53 W

NOW, THEREFORE, by the virtue of the authority vested in us by the laws of the State of South Dakota,

We hereby grant and confirm to Ronald E. Myron

of Meckling, South Dakota the holder and owner of said permit No. 430-3

a water right, dating from March 11, 1957 to the use of 1.71

cubic feet per second of the waters of ground water

in the County of Clay and State of South Dakota, or so much thereof as may be

necessary for the purposes hereinafter mentioned, to be diverted at 225 feet, S 17°41' E of the

N 1/2 Cor., Sec. 15, T 92 N, R 53 W

and conducted to and upon the NE 1/4 NW 1/4 and NW 1/4 NE 1/4 Sec. 15; SW 1/4 SE 1/4 and

S 1/4 NW 1/4 SE 1/4 Sec. 10; all in T 92 N, R 53 W

for the purpose of irrigation

subject, however, to the laws of the State of South Dakota applicable to a license for the use of the waters of the State, and subject, also to the local or community customs, rules and regulations which have been or may be adopted from time to time by a majority of the users from a common source of supply, canal or lateral from which such water may be taken, when such rules and regulations have for their object the economical use of such water.

WITNESS, My hand and seal of our office at Pierre, South Dakota,
this 28th day of September A. D. Nineteen

Hundred and Fifty-seven

State Water Resources Commission

By:

J. W. GRIMES, Chief Engineer, Executive Officer

STATE OF SOUTH DAKOTA

Water License No. _____

To _____

Source of Supply _____

County _____

Am't _____ c. f. s.

Point of Diversion _____

Place of Use _____

Purpose _____

Date of Priority _____

Recorded _____

In Book _____ of _____ Page _____

(First Publication before April 19, 1957)

APPROPRIATION OF WATER

Office of State Water Resources Commission,

Pierre, S. Dak., March 26, 1957

Notice is hereby given that Donald E. Myron whose postoffice address is Meckling S. Dak., has made an application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 1.71 cubic feet of water per second of time from ~~the~~ ground water through the Donald E. Myron Irrigation Project #1, the point of diversion of which is to be located ~~where~~ in the NW 1/4 of the NE 1/4 of Section 15 Twp. 92 N Range 53 W. Said water to be used for the purpose of providing irrigation on the following described land:

NW 1/4 NE 1/4 and NE 1/4 NW 1/4 Sec 15 and part of the SE 1/4 Sec. 10 all in T 92 N, R 53 W

~~XXXXXX~~ ~~XXXXXX~~

This application will be taken up by the State Water Resources Commission at their office at Pierre for consideration upon the 15th day of May, 1957, at 2:00p.m. All interested persons may appear and be heard.

Appropriate action will be taken by the Water Resources Commission after suitable time has elapsed for the consideration of any or all information presented.

State Water Resources Commission

By:

J. W. GRIMES, Chief Engineer, Executive Officer

cc William S. Gibson, Publisher
The Vermillion Plain Talk
Vermillion, South Dakota

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA }
County of Clay } ss.

Bernice A. Schooley being duly sworn, deposes and says the annexed printed copy of Notice of Intention to appropriate Water was taken from the Vermillion Plain Talk 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 Vermillion County of Clay and State of South Dakota; that the said notice was published in said newspaper on the following dates:

April 4, 1957April 11, 1957April 18, 1957April 25, 1957

In each and every issue of the full number thereof, the first publication being made on the 4th day of April 1957 and the last publication on the 25th day of April 1957, upon which days or times of publication aforesaid the newspaper was regularly published, and that during the whole time of said publication he was Advertising Mgr the printer and publisher of the said newspaper.

Bernice A. SchooleySubscribed and sworn to before me this 26 day of April A. D. 1957Lawrence J. GibsonNotary Public Clay County, S. D.

MY TERM EXPIRES SEPT. 17, 1961

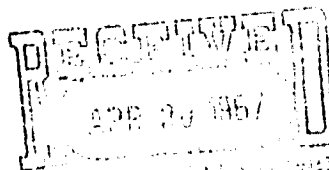
APPROPRIATION OF WATER

Office of State Water Resources Commission, Pierre, S. Dak., March 29, 1957.

Notice is hereby given that Donald E. Myron, whose postoffice address is Hocking, S. Dak., has made application in accordance with the provisions of the water laws of South Dakota for a permit to appropriate for beneficial use 1.71 cubic feet of water per second of time from ground water through the Donald E. Myron Irrigation Project No. 1, the point of diversion of which is to be located in the NW 1/4 of the NE 1/4 of Section 15, Twp. 92 N., Range 53 W. Said water to be used for the purpose of providing irrigation on the following described land: NW 1/4 NE 1/4 and NE 1/4 NW 1/4 Sec. 15 and part of the SE 1/4 Sec. 10 all in T. 92 N. R. 53 W.

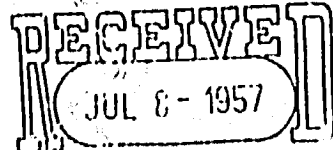
This application will be taken up by the State Water Resources Commission at their office at Pierre for consideration upon the 15th day of May, 1957, at 2:00 p.m. All interested persons may appear and be heard. Appropriate action will be taken by the Water Resources Commission after suitable time has elapsed for the consideration of any or all information presented.

State Water Resources Commission
By: J. W. GRIMES,
Chief Engineer, Executive Officer
(Apr. 4, 11, 18, 25)

STATE WATER RESOURCES COMMISSION
PIERRE, SOUTH DAKOTA

Permit No.

Water Division No. Wa

WATER RESOURCES COM.
PIERRE, SOUTH DAKOTA

Notice of Application of Water to Beneficial Use

(This blank must be filled out by holder of permit and forwarded to the State Water Resources Commission at least sixty days before the time set for application of water.)

(P. O.)

Meckling, L. D.

(Date)

July 7, 1957

TO THE STATE WATER RESOURCES COMMISSION OF SOUTH DAKOTA, PIERRE:

DEAR SIR: Notice is hereby given that on the

7

day of

July

1957, at

County of

Clay

State of South Dakota,

before

(Examining Engineer or Officer)

proof will be submitted of the application to beneficial use

of

1.71

cubic feet per second of the waters of

Donald E. Myron

Irrigation Project No. 1

in accordance with the terms and conditions of Permit No.

430-3

heretofore issued by the Water Resources Commission of South Dakota.

1. The name and postoffice address of the person or corporation holding said permit are

Donald E. Myron
Meckling, L. D.

2. The use to which said water has been applied is

Irrigation

3. The amount applied to beneficial use is

4. The place where said water is used is (If for irrigation, give full and accurate description of the lands irrigated)

NE 1/4 NW 1/4 + NW 1/4 NE 1/4 SEC 15,
+ SW 1/4 SE 1/4 + SW 1/4 NW 1/4 SEC 10-92-33

5. The name of the canal or ditch or other works by which said water is conducted to such place of use is

6. The right to take the water from such works is based upon permit No.

430-3

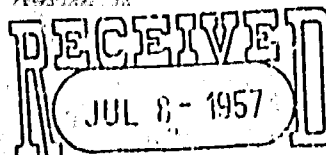
7. The source of supply from which such water is diverted is

8. The date of priority which said user is prepared to establish is

March 11, 1957

(Sign)

Donald E. Myron



Permit No. _____

STATE WATER RESOURCES COMM.
PIERRE, SOUTH DAKOTA

Water Division No. _____

Water District _____

NOTICE OF COMPLETION OF WORKS

This blank must be filled out by the holder of permit and forwarded to the Executive Officer at least 60 days before the time set for completion of work.

(P. O.) _____

(Date) _____

TO THE STATE WATER RESOURCES COMMISSION
OF SOUTH DAKOTA, PIERRE:

DEAR SIR: Notice is hereby given of the completion of the works for the diversion of _____

_____ cu. ft. per second of the waters of the state from ground
through the Donald E. Myron Irrigation Project No. 1
for irrigation purposes

_____ In accordance with the terms and conditions of a certain permit heretofore issued by the Water Resources Commission of the State of South Dakota.

1. The name of the person or corporation holding said permit is Donald E. Myron

2. The postoffice address of such person or the place of business of such corporation is Meckling
County of Cloy State of S.D.

3. The number of such permit is 430-3 and the date set for the completion of such work is

4. Said water to be used for irrigation purposes.

5. Said works of diversion will be fully completed on the date set for such completion, and the amount of water which said works are capable of conducting to the place of intended use, in accordance with the plans accompanying the application for such permit, is 1.71 cubic feet per second.

6. The amount of land for which said water is available is 129 acres,
particularly described as follows: NE 1/4 NW 1/4 & NW 1/4 NE 1/4 SEC. 15,
& SW 1/4 SE 1/4 S 1/4 NW 1/4 SEC. 10 - 92-53

I hereby certify that the facts set forth in the above notice are true.

Donald E. Myron

(Signature of Owners)

Permit No. 430-3Vermillion
River... Water DistrictWater Division No. 3

Certificate of Examination of Works

Report of Examining Engineer

To the State Water Resources Commission, Pierre, South Dakota:

Dear Sirs: I hereby certify that in accordance with your ~~xxxx~~ authorization ~~xxxx~~
on August 1, 1957~~xxxx~~, I have ~~xxxx~~ made a thorough examination of the diversion works constructed byDonald E. Myron

of

MecklingClayCounty, South Dakota, holder of Permit No. 430-3, issuedupon Application No. 430-3, hearing date of priority of March 11, 1957, authorizing thediversion of 1.71 cu. ft. per second of the waters of ground water for irrigation

purposes. I have to report on the condition of the same as follows:

The diversion works comprise: Ford V-8 Industrial Engine; Western Land Roller
Pump, Serial #957405, Head No's 6M and 4-10H; U.S. Gear Drive,
#1102868; 2230 feet of 6 inch mainline pipe; a Sioux Model-C, Boom
type irrigator; and a pressure gauge on the irrigator and pump.and the system is in the following condition: excellentThe point of diversion is located 295 feet, S 17° 41'E of the N½ Cor., Sec. 15,
T 92 N, R 53 WThe works are capable of diverting and conveying to the place of use 1.71 cu. ft. per second of water,
which is to be used for irrigationThe legal sub-divisions to be irrigated are: NE¼NW¼ and NW¼NE¼, Sec. 15; SW¼SE¼ and S¼NW¼SE¼
Sec. 10; all in T 92 N, R 53 Wcomprising a total of 129 acres of land.
The domestic use intended comprises

The utilization for power, mining, or other beneficial uses comprises:

Witness my hand, this 4th day of September, A. D. 1957.

--SEAL--

Les Wyborny

Water Rights Engineer

Examining Engineer.

NOTICE OF TRANSFER OF WATER PERMIT

TO: **WATER RIGHTS COMMISSION**
 State Office Building No. 2
 Pierre, South Dakota 57501

March 15, 1976

Date

This is to notify you that title to the lands described as follows:

Portions of NE $\frac{1}{4}$ NW $\frac{1}{4}$ & NW $\frac{1}{4}$ NE $\frac{1}{4}$, Sec. 15 and SW $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$,

Sec. 10, T92N, R53W, described in Permit No. 430-3

formerly owned by Donald E. Myron, Meckling, S.D.

has been transferred to Milo C. Gilbertson, Meckling, S.D.

together with any rights to the beneficial use of water thereon as evidenced by Water Right Permit No. 430-3 as provided for in Section 61.0127 of the 1960 Supplement to the South Dakota Code of 1939.

You are therefore hereby requested to file this "Notice of Transfer of Water Permit" in its appropriate file at the Office of Water Resources Commission in evidence of the change of ownership.

A fee of one dollar is hereto attached to cover filing fees as required under Section 61.0159 of the 1960 Supplement to the South Dakota Code of 1939.

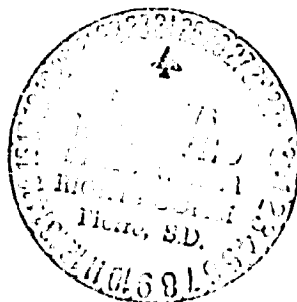
STATE OF SOUTH DAKOTA)
 County of Clay) ss.

I, Milo C. Gilbertson being first duly sworn on my oath depose and say: That my relation to the above described undertaking is that of Owner, that I have read the above foregoing statement, and I know of my own personal knowledge that the information herein stated is true.

Milo C. Gilbertson
 (Signed)

Suscribed and sworn to before me this 17th day of March, 19 76

Nora Erickson
 (Notary Public)



Observations during the Field Inspection on August 1, 1957 of the Donald E. Myron Project relative to Application #430-3.

Mr. Donald Myron accompanied me on this inspection and was very helpful and cooperative in furnishing information and answering questions so that I might complete my work.

This project consisted of 129 acres $\pm$ divided into 10-80 acre fields of Soil Bank land and alfalfa. The operator had irrigated the Soil Bank land before signing it up. The well was located about 20 rods SSE of the 1/4 Cor Sec's 10/15, T92N, R53W. The locations of the lands and well compared to those shown on the Map #327-3.

The well was about 112 feet deep w/ the static water level @ 15 feet. I was told that it was test pumped @ 1200 gpm w/ a 7 foot drawdown.

Equipment consisted of a Ford V-8, 100 Hp Industrial Engine for power, a Western Land Pump, Serial #957405, Head No's 6M and 4-10-H. This is a 6" pump with an estimated capacity of 900-950 gpm. A U. S. Gear drive, #1102858, 1936 rpm driver speed and 1760 rpm pump speed was installed on the pump.

Under normal conditions it was estimated that 1660 rpm's would produce a 65# pressure on the sprinkler. Other equipment consisted of 2230 feet of 6 inch aluminum main line pipe and a Sioux, Model-C, Boom Type Irrigator. See attached computations (maximum estimated 945-950 gpm).

The system was not in operation at the time of the inspection but was completely set up and had been operating the night before as evidenced by moisture in the field.

The area to be irrigated and the capacity of the works or equipment to convey water to the place of use corresponded to the conditions as set forth in the Permit.

September 4, 1957

Les Wyborny

Water Rights Engineer

Equipment was new and in excellent condition.

Computations for Estimate of Capacity of Model C, Sioux
Boom Type Irrigator.

Assume a 500 ft. diameter circle of coverage as noted on the
manufacturer's folder, this would give the following area of spread:

$$\frac{250 \times 250 \times 3.1416 \times .50}{43560} = 2.26 \text{ acres}$$

allowing for a 50% overlap on moves.

$$\frac{250 \times 250 \times 3.1416 \times .60}{43560} = 2.71 \text{ acres}$$

allowing for a 40% overlap on moves.

The manufacturer states that the boom nozzles will put down
from 1/4 - 1 inch of water in 1 hour covering up to a little over
2 acres. On this basis the average capacity would be between
1.13 - 1.35 acre-inches/hr. or 508.5 - 607.5 gpm.

I was told that it is a general practice to remove the
nozzles and use the tapped holes in the pipe in order to flood
irrigate and soak the land in the fall in order to have good
sub-soil moisture when going into the winter.

As closely as could be determined this would give us 6
openings 3/4 inch in diameter and 1 opening 1 1/2 inches in diameter.

Using a table on the theoretical discharge of nozzles as the
nearest base for estimating purposes that we have, the following
estimated capacities will be arrived at. A comparison was made
w/ the tables on Rainbird nozzles but we could not use the Rainbird
charts as the particular orifice sizes we have were not noted.
Average conversion factors were arrived at by comparing other
orifice sizes.

I believe that it is reasonable that the permit holder
could maintain an estimated 30-35# pressure with these openings
as he stated that he has pumped at 85# maximum pressure at times
but not during the extended normal operation.

On the basis of the above assumption the following estimated
maximum capacities would result.

@ 35#		@ 30#	
6 x 99.5	= 597.0	6 x 92.0 gpm	= 552.0
1 x 398	= 398	1 x 358.0 gpm	= 358.0
	995.0 gpm total		920.0 gpm total

The conversion factors varied in a reduction of 4-11 % for
the representative range of sizes checked.

Since these openings would be in the larger diameter range we
will assume a 95% discharge factor. The resulting estimated
maximum capacities would be 920. gpm x .95 or 874 gpm @ 30# and
995 gpm x .95 or 945.25 gpm @ 35#.

On the basis of the above information I would say, that estimated capacities for this sprinkler could be taken as a maximum of 607 gpm w/ the nozzles and a maximum of 945-950 gpm after the nozzles are removed. Under normal operation this unit will conservatively produce 450 gpm or 1/2" of water per hour over 2 acres.

 **Department of
Water & Natural Resources**

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181

SEP 14 1989

Milo C. Gilbertson
RR #1, Box 88
Meckling, SD 57044

Dear Mr. Gilbertson:

Enclosed is Water License No. 4214-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 411510 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

For your information SDCL 46-6-27 requires that if the owner of an existing well, such as the well authorized by Water Right No. 4214-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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. If you have any questions, please contact our office.

Very truly yours,



JOHN HATCH, Chief Engineer
Water Rights Division
(605) 773-3352

enclosures

Note: The applicable portions of Water Right No. 430-3 have been incorporated into this Water License No. 4214-3.

