

1. Considered January 28 19 81

2. Name of Applicant D.A. Olson and Son

3. Post Office Address R.R. 1, Box 81, Meckling

4. Amount of Water Claimed 2.24

5. Source of Water Supply 104' deep well

6. Water to be used for IRR

7. Acres to be irrigated 157 maximum acre feet

8. Water to be diverted and used in Yankton County
about 1W, 2 miles North of Gayville

9. PROOF OF PUBLICATION Received 1-20-81
Not Received

APPLICATION Approved 1/29/81
Subject to WI - TQ
Not Approved
Action deferred

Priority Date Received 12/5/80 Application Complete yes x no FEE 250.00

Remarks

WATER
QUALITY

Date information and/or fee or corrected Application received

Period of Annual use April 1 to November 1st

Received yes 1/8/81 no APPROVED/CONDITIONAL (Circle one)

Wi-1 Description same as application yes no Remarks

Disapproved Returned

				X	
			34		35

Diversion Point
SW 1/4 NW 1/4 35-94-54

Lands to be irrigated
W 1/2 NW 1/4 Sec. 35 and E 1/2 NE 1/4
Sec. 34-94-54

WELL
LOG

Remarks

Driller Wetmore Drilling Licensed yes no

Depth 104 feet deep

Water Right No. 4613-3

MAP Map No. 383C-3 Map located in Water Right x Map file _____
 Type of Map Aerial Prepared by Vane Miller, County Agent

+++++

REVIEWED This Application was reviewed within 30 days of date received, accepted as complete, Number assigned and written up for advertisement before the Board on 1/28/81.

Betty M. Williams
 (Signed)

+++++

PROTESTS Letters/Petitions in File - yes _____ no _____ Remarks _____

REMARKS Date
 F.F. & C Final Decision, including F.F. & C of Law were adopted _____
 OF LAW, Date
 FINAL Final Decision mailed to parties and/or parties notified that Final Decision
 DECISIONS was adopted _____
 ETC. _____

Remarks _____

No. 4613-3

Map No. 3830-3 Water Division No. 3 VERMILLION RIVER District
Above for Office Use 10170102



10:25 am
11 apps
map
fee
\$225.00

APPLICATION FOR PERMIT To Appropriate Water within the State of South Dakota

Check one of the following

New ☒ Vested Right ☐ Future Use ☐

Change in Diversion ☐ Additional Diversion ☐

Change in Acreage ☐ Additional Acreage ☐

1. Name of Applicant D.A. OLSON & SON Phone No. 267-2525
Post Office Address MECKLING, RRI Box 81 State S.D. 57044
(Street, RR, or Box) (Town) (Zip Code)
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 D.A. OLSON & SON Well No. 2

4. Amount of water claimed (cubic feet per second) 2.25

5. Source of water supply WELL

6. Location of point of diversion WELL LOCATION - W 1/4 of S 1/2 of W 1/2 of NW 1/4 35-94

County YANKTON

7. Annual period or periods during which water is to be used APRIL 1 - NOV. 1

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 157

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>W 1/2 NW 1/4 35-94-54</u>	<u>78.5</u>		
<u>E 1/2 NE 1/4 34-94-54</u>	<u>78.5</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 _____ years.

11. Choice of county newspaper for publication of Notice of Intent to Appropriate Water GAYVILLE OBSERVER

12. Principal Features of the Proposer Water Supply System

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

WELL

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

Pipe

C. Works proposed to apply water to beneficial use.

Pivot Type System

Estimated Total Cost \$ 50,000

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)
) ss.
County of Yankton

I, Duane A Olson 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 Duane A Olson

Subscribed and sworn to before me this 19 day of November, 1980.

Elaine Lysman
County Public (other qualified officer)

WATER RIGHT APPLICATION APPROVAL

The Water Management Board hereby approves Water Right Application No. 4613-3

D. A. Olson and Son

RR 1, Box 81, Meckling

(Applicant)

(Post Office Address)

South Dakota 57044

(State)

With the following qualifications

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 adequate domestic wells or in irrigation wells having prior water rights.

The Permit is approved subject to the irrigation water use questionnaire being submitted each year.

Date of first receipt of application December 5, 1980
Date of return to applicant for correction, amendments or changes required December 5, 1980
Date of receipt of corrected application January 8, 1981
Approved January 29, 1981, Recorded in Book 22 Page 26

WATER RIGHT PERMIT NO. 4613-3

The Water Management Board hereby grants and issues this Water Right Permit No. 4613-3 authorizing the construction of the water use system and the putting of water to beneficial use as stated in the Application and as qualified in the Water Right Application approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is December 5, 1980
2. The equivalent of at least one-fifth of the work above specified is to be completed on or before July 29, 1983
3. The whole of said work is to be completed on or before January 29, 1986
4. The limit of time from proof of beneficial use of water appropriated in accordance herewith is January 29, 1986
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 2.24 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 irrigation purposes said appropriation must be limited to not more than 2 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 January 29, 1986; said water to be used during the following described annual period: April 1st to November 1st

Witness my hand this 12th day of March, 1981

THE WATER MANAGEMENT BOARD

By:

John Hatch
Chief Engineer, Water Rights

JOHN HATCH

Certificate of Construction Issued _____, 19____

Water License Issued _____, 19____

WETMORE DRILLING

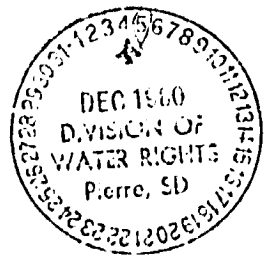
P.O. BOX 577 - ELK POINT, SOUTH DAKOTA 57025 - (605) 356-3272



Test Log for Duane Olson November 28, 1980

0 - 2'	Top Soil
2 - 26'	Clay, some fine sand
26 - 72'	Fine sand
72 - 104'	Coarse sand & gravel
104 - 108'	Shale

James A. Wetmore



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

D. Well Information or Estimates

- (1) Drill Hole, Diameter 2 3/4" - 3 1/2", Depth 108'
- (2) Casing, Type PVC Diameter 2 1/2" Thickness 1/2"
(wood, concrete, steel, etc)
- (3) Perforated Screen.
Type slotted, Diameter 2 1/2", Length 20'
- (4) Gravel Pack, Thickness 7", Length of gravel pack 108'

E. Dugout Information or Estimates.

- (1) Surface dimensions _____, Depth _____

F. Fill out for Either a Well or a Dugout.

- (1) Water Bearing Materials millstone (Please attach a copy to test well log if available.)

Character of Water bearing materials _____

Depth to top of water bearing material 26'
Depth to bottom of water bearing material 108'
Thickness of water bearing material 82'
Depth to water (ground surface to water level) 12'

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

On same owner's property 12 miles 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.

Guane A Olson
Signature of Applicant

STATE CONSERVATION COMMISSION
SOUTH DAKOTA DEPARTMENT OF AGRICULTURE

OWNERS NAME: DA. OLSON AND SON OWNERS ADDRESS: MECKLING, RR1, S.D.
COUNTY LAND LOCATED IN: YANKTON Co PHONE: 267-2525 Box 81 57044
TENANT'S NAME AND ADDRESS: (If Other Than Owner) _____

In accordance with State Law SDCL 46-5-6.5, if a water right is granted with a conditional permit (Soil/Water Compatibility), a copy of such conditional permit must be filed with the County Register of Deeds.
This action must be taken by the holder of a water right within 6 months of receipt of such water right.

LEGAL DESCRIPTION: (Show Legal Description to Nearest 10 Acres.)

1. WELL LOCATION OR DIVERSION POINT: W 1/4 S 1/2 of NW 1/4 35-94-54
2. SURFACE WATER SOURCE: WELL ONLY
3. LOCATION OF AREA TO BE IRRIGATED: W 1/2 NW 1/4 35-94-54 AND E 1/2 NE 1/4 34-94-54
4. INDICATE NON-IRRIGATED AREAS AND (APPROX.) ACRES ON MAP: (Farmstead, shelterbelts, wetlands, etc.)

TYPE OF IRRIGATION: (Show approximate acres under each type of system)

5. GRAVITY _____ TOWLINE _____ CENTER PIVOT ☒ GUN _____ OTHER (Specify) _____
6. CROPS TO BE IRRIGATED: CORN - SOY BEAN - ALFALFA - OATS
7. SHOW ANY PORTION OF LAND THAT PRESENTLY HOLDS AN IRRIGATION PERMIT: YEAR OBTAINED:
LAND: NONE
IN WHAT NAME: _____

WATER QUALITY: (TO BE COMPLETED BY SDSU WATER QUALITY LABORATORY)

8. SAMPLE NUMBER: 80-1100
9. SALINITY (EC X 10⁶) 1480
10. SODIUM (SAR) 1.55 ADJUSTED (SAR) 4.50 3.15

RECEIVED

DEC 22 1980

South Dakota
Division of Conservation

I hereby certify that I personally obtained or that I personally observed the taking of a sample of the water to be used in irrigating the above-described land. I also hereby certify that the required procedures for the taking of the sample (see back) were followed, and that the sample was taken at _____ A.M./P.M., on _____, 19 80, at the following location: W 1/4 of S 1/2 of NW 1/4 32-94 by DA. OLSON & SON (individual who took sample if other than applicant). I also hereby certify that the water sample taken has NOT been adulterated or tampered with in any manner, and is TRULY REPRESENTATIVE of the water which will be used in irrigating the above-described land.

I also hereby certify that a chemical analysis of the irrigation water representative of that used to irrigate shall be acquired from South Dakota State University and the soils information has been acquired from YANKTON COUNTY Conservation District, County Extension Office or Soil Conservation Service; and further, that the legal description for the location of the well and land to be irrigated is true and correct.

I understand that the Division of Conservation or agents thereof may obtain another water sample for the purpose of validating the water sample analysis taken at the time of application (SDCL 46-5-6.4).

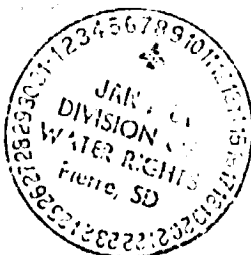
SUBSCRIBED AND SWORN BEFORE ME THIS
19 DAY OF November, 19 80.

Elaine Rypner
(NOTARY PUBLIC)

Dennis P. Olson
APPLICANT'S SIGNATURE

Frank M. C. Field
Director, Division of Conservation

APPROVED _____
DISAPPROVED _____
☒ CONDITIONALLY APPROVED



IMPORTANT

No. 4613-3

Publish first publication, on or before January 16, 1981

NOTICE OF HEARING ON
APPLICATION TO APPROPRIATE WATER

Pierre, South Dakota 57501

January 9, 1981

Notice is hereby given that D A Olson & Son whose post office

address is Meckling, South Dakota, has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-14; 46-2-9 thru 46-2-11, 46-2-13; 46-5-1 thru 46-5-8; 46-5-10 thru 46-5-22, 46-5-41; 46-6-3, 46-6-3.1, 46-6-5, 46-6-6.1, 46-6-10, 46-6-14 and Board Rules ARSD 52:01:01:01 thru 52:01:01:13, for a permit to appropriate for beneficial use 2.24 cubic feet of water per second of time from ground water

(one well) through the D A Olson & Son Well #2, the point~~(s)~~ of diversion of which is ~~(are)~~ to be located in the SW $\frac{1}{4}$ NW $\frac{1}{4}$

of Section 35, Twp. 94N, Range 54W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

W $\frac{1}{2}$ NW $\frac{1}{4}$, Section 35 and E $\frac{1}{2}$ NE $\frac{1}{4}$, Section 34 both in T94N, R54W

This Application No. 4613-3 will be considered by the Water Management Board at Meeting Room #1, Kneip Building upon the 28th day of January, 1981
Church & Illinois, Pierre, SD

at 10 A.M. The Board is authorized to make a determination on this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Board decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Board in writing prior to the hearing or orally at the hearing.

This hearing is an adversary proceeding. Any person has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised at the hearing. Decisions of the Board may be appealed to the Courts as provided by law.

Any handicapped person wishing to attend this hearing can contact the Water Rights Division, DWMR, Joe Foss Building, Pierre SD, prior to the hearing date for assistance to assure access to the hearing.

WATER MANAGEMENT BOARD

cc: D A Olson & Son,
Meckling, SD 57044

BETTY WESTLIND
Water Rights Specialist

No. _____

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Yankton) ss.

I, Bernie Hunhoff Jr. hereby

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

Water was taken from the Observer

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 Gayville

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

Jan. 16, 1981

Jan. 23, 1981

Bernie Hunhoff Jr.
(Signature)

Publisher.
(Title)

Jan. 19, 1981
(Date Signed)

Public Notice

NOTICE OF HEARING ON
APPLICATION TO
APPROPRIATE WATER

Pierre, South Dakota 57501
January 9, 1981

Notice is hereby given that D.A. Olson & Son whose post office address is Meckling, South Dakota, has made an application in accordance with the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-14; 46-2-9 thru 46-2-11, 46-2-13; 46-5-1 thru 46-5-8; 46-5-10 thru 46-5-22, 46-5-41; 46-6-3, 46-6-1, 46-6-5, 46-6-6.1, 46-6-10, 46-6-14 and Board Rules ARSD 52:01:01:01 thru 52:01:01:13, for a permit to appropriate for beneficial use 2.24 cubic feet of water per second of time from ground water (one well) through the D.A. Olson & Son Well #2, the point of diversion which is to be located in the SW $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 35, Twp. 94N, Range 54W. Said water to be used for the purpose of providing irrigation on portions of the following described land:

W $\frac{1}{2}$ NW $\frac{1}{4}$, Section 35 and E $\frac{1}{2}$ NE $\frac{1}{4}$, Section 34 both in T94N, R54W.

This Application No. 4613-5 will be considered by the Water Management Board at Meeting Room #1, Kneip Building, Church & Illinois, Pierre, S.D. upon the 26th day of January, 1981 at 10 A.M. The Board is authorized to make a determination on this application at the hearing. All interested persons may appear and be heard. Any person who may be affected by a Board decision who desires to present evidence or cross-examine witnesses according to SDCL 1-26 may notify the Board in writing prior to the hearing or orally at the hearing.

This hearing is an adversary proceeding. Any person has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised at the hearing. Decisions of the Board may be appealed to the Courts as provided by law.

Any handicapped person wishing to attend this hearing can contact the Water Rights Division, DWNIT, Joe Foss Building, Pierre, S.D., prior to the hearing date for assistance to assure access to the hearing.

WATER MANAGEMENT BOARD

Betty Westlund

Water Rights Specialist

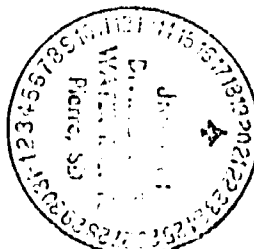
cc: D.A. Olson & Son,

Meckling, S.D. 57044

WNR-806A-7/79

GROUNDWATER

Publish Jan. 16 and 23



NOTICE OF COMPLETION OF WORKS AND/OR
APPLICATION OF WATER TO BENEFICIAL USEPost Office Meckling SD
Date 4-20-81TO: Water Rights Commission
Joe Foss Building
Pierre, South Dakota 57501

Dear Sirs:

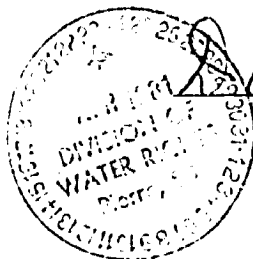
This is to inform you that I have completed the construction of the water diversion system and/or that I have put the water to beneficial use to maximum extent it is going to be used, not exceeding the amounts as specified in Water Right No.

4613-3

Water Right Permit No. 4613-3 states that the diversion system is to be constructed by 1-29-86, and that the water is put to beneficial use by 1-29-86.

The diversion system was completed on 4-20-81. Applying the water to beneficial use was completed on 4-20-81.

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.

R. Olson
(Signature)

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 8585

PIERRE, December 14, 1981

RECEIVED OF D. A. Olson & Son, RR 1, Box 81, Meckling, SD 57044
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit to Appropriate Water No. (examination, processing, recording and filing)		
Fee for Inspecting Construction, and Issuing Cert. of Construction No. 4612-2	50	00
Fee for Inspecting Beneficial Use, and Issuing Water License No. 4613-3		
Fee for Issuing Location Certificate-Dry Draw No.		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for (any other work as provided by law)		
TOTAL	50.	00

WATER RIGHTS COMMISSION

By *(John Hatch)*
Chief Engineer, Executive Officer
JOHN HATCH / (b)

RECEIPT

WATER RIGHTS COMMISSION

State of South Dakota

No 4 7809

PIERRE, December 9, 1980

RECEIVED OF D.A. Olson & Son, Meckling SD 57044
the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit to Appropriate Water No. 4613-3 (examination, processing, recording and filing)	250	00
Fee for Inspecting Construction, and Issuing Cert. of Construction No.		
Fee for Inspecting Beneficial Use, and Issuing Water License No.		
Fee for Issuing Location Certificate-Dry Draw No.		
Fee for filing		
Fee for certified copy of		
Fee for Print copy of map		
Fee for Certifying		
Fee for (any other work as provided by law)		
TOTAL	250	00

WATER RIGHTS COMMISSION

By *(John Hatch)*
Chief Engineer, Executive Officer

Permit No. 4613-3Water Division 3 Vermillion River Water District

REPORT OF EXAMINATION OF WORKS AND/OR APPLICATION OF WATER TO BENEFICIAL USE

TO: WATER RIGHTS, WATER MANAGEMENT BOARD / FGSS BLDG., PIERRE, SOUTH DAKOTA 57501

I have this day made a thorough examination of the water use system constructed by D.A. OLSEN & SON of MECKLING holder of Permit No. 4613-3, bearing date of priority of DECEMBER 5, 1980, authorizing the diversion of 2.24 cu. ft. per second of the waters of GROUNDEWATER for IRRIGATION purposes, in YANKTON County.

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

The Water Use System consists of,

- A. Works used to divert the water:
108' DEEP WELL WITH 22" PLASTIC CASING - 20' SLOTTED SCREEN
FAIRBANKS MORSE 8" PUMP - 4 1/2 HP
POWERED BY 50HP GE ELECTRIC MOTOR
- B. Works used to transport water to place of use,
15' OF 8" ALUMINUM LINE TO CENTER OF PLOT
- C. Works used to apply water to beneficial use.
7 TOWER ZIMMATIC CORNER SYSTEM - MODEL 301 4.0
WITH NELSON 1" 200 END GUN

The system is in the following condition. NEWThe point of diversion is located 1305'S OF THE NE CORNER, SECTION 34, T94N, R54WThe works are capable of diverting and conveying to the place of use 2.0 (900 GPM) cu. ft. per second of water which is to be used for IRRIGATION

Water has been put to beneficial use to the maximum extent as follows:

FOR IRRIGATING A 148 ACRE "CIRCLE" IN THE E²NE¹
SECTION 34, AND IN THE W²NW⁴, SECTION 35, T94N, R54W

comprising a total of 148 acres of land.

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 4613-3

(1) WHEREAS, On the 5th day of December A. D. 19 80

D.A. Olson & Son

made Water Right Application No. 4613-3 for a permit to use 2.24 cubic feet per second of the water of groundwater (one well)

County of Yankton, State of South Dakota, for irrigation

purposes, and

(2) WHEREAS, On the 29th day of January A. D. 19 81

Permit No. 4613-3, with a date of priority of December 5, 1980

was issued to said applicant 8 for the diversion of said water, and provided for the completion of construction of the water supply system therein described on or before the 29th day of January A. D. 19 86 and for the application to beneficial use of said water on or before the 29th day of January A. D. 19 86

and:

(3) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to completion of the construction of the water supply system and is entitled to divert 2.0 cubic feet per second of water for beneficial use and,

(4) WHEREAS, It is hereby certified that the applicant has complied with the provisions of the laws of the State of South Dakota relating to the application of water to beneficial use of the following extent,

for irrigating a 148 acre "circle" in the E 1/2 NE 1/4 Section 34, and in the
W 1/2 NW 1/4 Section 35, T94N, R54W

(.) 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 D.A. Olson and Son

_____ of Neckling, South Dakota
the holder B and owner B of said permit No. 4613-3 a water right, dating from December 5, 1980
_____ to use of 2.0 cubic feet per second of the waters
of groundwater (one well)

in the County of Yankton and State of South Dakota, or so much thereof as may be necessary for the
purposes hereinbelow mentioned, to be diverted at a point 1305'S of the NE corner, Section 34,
T94N, R54W

and conducted to and upon a 143 acre "circle" in the E 1/2 NE 1/4, Section 34
and in the W 1/2 NW 1/4, Section 35, T94N, R54W

for the purpose of irrigation

Subject to any limitations listed in Water Right Permit No. 4613-3 and subject to the laws of the State of South Dakota.

WITNESS, My hand and seal of our office at Pierre, South Dakota
this 10th day of May A. D.
Nineteen Hundred and Eighty - two

WATER MANAGEMENT BOARD

By:

John Hatch
Chief Engineer, Executive Officer
JOHN HATCH

Permit No. 4613-3

Water Diversion No. 3 Vermillion River Water District

CERTIFICATE OF CONSTRUCTION

This is to Certify, That D.A. Olson & Son

_____ the holder _____ of
Permit No. 4613-3, issued upon Application No. 4613-3, bearing date of priority of December 5,
1980 authorizing the diversion of 2.24 cu. ft. per second of the waters of _____
groundwater (1 well) County of Yankton, State of South Dakota at _____
a point 1305'S of the NE corner, Section 24, T94N, R54W
_____, for irrigation

_____ purposes, have _____ 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 2.0 cu. ft. per second of water.

Date May 10, 1982



JOHN HATCH, Chief Engineer
Water Rights Division

SOUTH DAKOTA
Department of
Water & Natural Resources

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

WATER RIGHTS DIVISION
(605) 773-3352

3475-3
4700-3
4613-3
4625-3
2158-3

November 17, 1987

Duane Olson
RR 1, Box 81
Meckling, South Dakota 57044

Dear Mr. Olson:

I am returning your 1987 Irrigation Water Use Questionnaires. As stated in the October 8th letter, Water Management Board Rules or water permit qualifications require questionnaires to be submitted each year.

Your questionnaires as returned do not provide the data that is required. I am unable to determine the monthly acre-feet of water that was used by a certain crop from your questionnaires. The questionnaires will have to be completed and returned by December 15, 1987.

If you have any questions, please contact me.

Sincerely,

Delvin D. Brosz, P.E.
Hydrologist

DDB:ms
Enc.

#4413-3
#4700-3

 **Department of
Water & Natural Resources**

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

February 17, 1989

D A Olson & Son
RR 1, Box 81
Meckling, SD 57044

Dear Mr. Olson:

On October 6, 1988, the Water Management Board adopted rules to implement a 1988 law for application of chemicals through irrigation systems. The rules establish equipment standards, performance standards and installation requirements for irrigation systems that apply chemicals (fertilizers, insecticides, or herbicides) with irrigation water.

You have indicated on your 1988 Water Management Board Irrigation Questionnaire that you do apply chemicals with irrigation water. A copy of the new rules for chemigation are enclosed for your information.

The new standards include:

- * a check valve between the irrigation pump and the point of chemical injection;
- * a vacuum relief valve on top of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a low-pressure drain on the bottom of the pipeline between the irrigation pump and the irrigation pipeline check valve;
- * a chemical injection line check valve between the chemical injection pump and the point at which the chemical is injected into the irrigation line; a second check valve is required if the chemical injection pump is not a positive displacement pump;
- * an interlock system which ensures that the chemical injection pump will stop whenever the irrigation pump stops;
- * an inspection port between the irrigation pump and the check valve on the irrigation line;

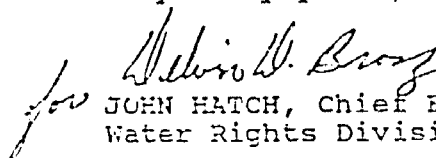


Each of these equipment requirements are discussed more thoroughly in Sections 74:02:09:05 through 74:02:09:10 of the enclosed rules. Appendix A contains diagrams of the arrangements of these anti-pollution devices.

The equipment must be installed according to the manufacturer's specifications, calibrated, and maintained in good working condition. All chemical product labels must be followed and warning signs must be posted. These rules also require reporting of all spills, accidents, and system malfunctions. A 24-hour telephone number is provided.

The chemigation rules contain notification and record keeping requirements. Prior to using chemigation, notification must be given to the Chief Engineer on the enclosed Form 1C. Information that must be provided in this notification includes the water permit or right number, the name, address, and telephone number of the water permit or right holder and of the system operator, and the legal description of the lands on which the system is located. A record of the name, quantity, dates and hours of each chemical applied must be provided to the Chief Engineer on Form 2C. A copy of this form is also enclosed for your information. It will be mailed with the annual irrigation questionnaire and must be returned with the questionnaire by the date specified. If you have any questions regarding these rules or need additional copies of the forms, please contact Susan Bowar, Water Rights Engineer (605-773-3352).

Very truly yours,


JOHN HATCH, Chief Engineer
Water Rights Division

SCALE

NOT TO

94-54

193

69.5

157.3

R-48

34

35

Well Location
To Be Irrigated
By Dan P. Miller
County Extension Dept.

39.6

34

80.4

80

61.2

94-54

~~APPL. 4613-3~~
APPL. 4613-3