

Considered: _____

WATER PERMIT NO. 5289-3

HAP No. same 267-4121

Name of Applicant D.A. Olson & Sons

Post Office Address Box 81, Meckling SD 57044

Amount of Water Claimed 2.25 cfs Total Acres 160

Source of Water Supply groundwater - 1 well

Water to be used for irrigation County Clay

About 1/2 miles E of Meckling

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

F.F. & C.L. Adopted _____ Not Approved _____ Deferred _____

PRIORITY _____ Date Received Jan 23, 1989 Fee \$250⁰⁰ Remarks _____

Corrected Application Received _____ Period of Annual Use April - Nov 1

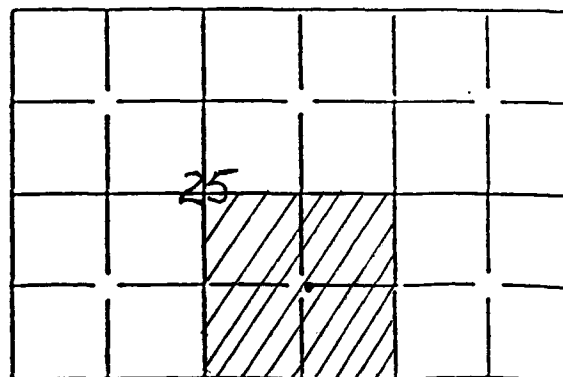
WATER QUALITY APPROVAL RECEIVED _____ APPROVED CONDITIONAL (Circle one)

WI-1 Description same as Application YES ☒ NO _____ REMARKS _____

Diversion Point near the center of

SE 1/4 Section 25, T93N, R53W

Land to be Irrigated SE 1/4 Section 25, T93N, R53W



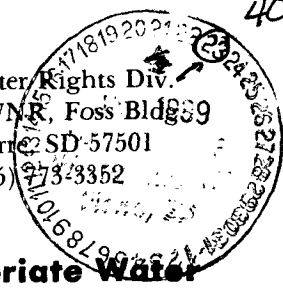
Well Log: Driller Wetmore Drilling Licensed YES ☒ NO _____

Depth of Well 112' REMARKS test hole log

Type of Map aerial photo PREPARED BY Danny Mercher Reviewed and the Number assigned on March 8, 1989 By Steven A. Bowers

(See instructions)

No. 5289-3 Hydrologic Unit 10170102
Basin Vermillion R
Newspaper Vermillion Plain Talk Box 256 57069
(Wed)



Application For Soil/Water Compatibility Permit and Permit To Appropriate Water

Type of Application: ☒ New ☐ Vested Right ☐ Amend Permit No. _____
☐ Change Acreage ☐ Change diversion point(s) ☐ Add diversion point(s)
☐ Add Acreage ☐ Increase diversion rate ☐ Other _____

1. Name of Applicant D A Olson Sons Phone No. 605 2674121

Post Office Address RR 1 Box 81 Meckling State SD Zip Code 57044
(Street, RR or Box) (City)

2. Amount of water claimed (c.f.s.) 2.25 Total acres irrigated 140A

3. Source of Water supply Well - groundwater

4. Location of point of diversion from SE corner of SE 1/4 of section
25-T93-R53, 45 degree North of well 1900 ft
near the center of the SE 1/4 Sec 25-T93N-R53W County Clay

5. Counties where water will be used Clay

6. Annual period during which water is to be used Apr 1 - Nov 1

7. 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.
<u>SE 1/4 SE 1/4 25 93 53</u>	<u>40</u>
<u>SW 1/4 SE 1/4 25-93-53</u>	<u>40</u>
<u>NW 1/4 SE 1/4 25 93 53</u>	<u>40</u>
<u>NE 1/4 SE 1/4 25 93 53</u>	<u>40</u>

Land Description	No. Acres Irr.

Attach sheet if more space is needed

8. Type of Irrigation: Gravity: _____ Towline: _____ Center Pivot: ☒ Gun: _____ Other: _____
(Specify)

9. Crops to be Irrigated: Corn - Beans - alfalfa - Oats

10. Give a description of proposed project. (Attach sheet if more space is needed)

Well pivot type system
groundwater

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach maps, soils information and any other technical information.

STATE OF SOUTH DAKOTA)
County of Clay ss

I, D A Olson the applicant, certify that I have read this application and examined the attached maps, that the water sample, if needed, has been taken by the required procedures and has not been adulterated or tampered with and is truly representative of the water to be used, and that the matters stated in this application are true and correct.

Signed D A Olson

Subscribed and sworn to before me this 19th day of January 19 89

Donna Schmidt
Notary Public

Notary Public

487 This Commission expires 3-10-89

**SOUTH DAKOTA
WATER PERMIT No. 5289-3 FOR IRRIGATION**

Date of first receipt of application January 23, 1989.

Date Soil/Water Compatibility Permit received March 13, 1989.

The Water Management Board approved Water Permit Application No. 5289-3 on May 10, 1989 for D. A. Olson & Sons, RR #1 Box 81, Meckling, SD 57044 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 5289-3 appropriates 2.25 cubic feet of water per second from one well (Missouri Aquifer) approximately 100 feet deep to irrigate 160 acres. The well is to be located near the center of the SE1/4 and the acreage to be irrigated is in the SE1/4; all in Section 25, T93N, R53W.
2. The amount of the appropriation may not exceed 2 acre feet per acre per year or one-seventieth (1/70) cubic feet of water per second for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 to November 1.
3. The date from which applicant may claim right is January 23, 1989.
4. One-fifth of the construction is to be completed on or before November 10, 1991.
5. All construction is to be completed on or before May 10, 1994.
6. Water is to be put to beneficial use on or before May 10, 1998.
7. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

- 1) The well authorized pursuant to this permit shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04.
- 2) The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- 3) This permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: John Hatch
Chief Engineer, Water Rights Division
Department of Water and Natural Resources

SEP 12 1989

(date)

Department of Agriculture
WI#1
5/87

SOIL/WATER COMPATIBILITY PERMIT
Division of Conservation



Office Use Only

4337

WR#

OWNERS NAME: D.A. Olson Sons

OWNERS ADDRESS: RR 1, Box 81

Meckling, SD 57044

COUNTY LAND LOCATED IN: Clay

PHONE: 267-4121

LEGAL DESCRIPTION:

☒ Well

☐ Surface

1. LOCATION SE $\frac{1}{4}$ (near center of) Sec. 25-T93N-R53W

Depth: _____

Legal Description	Acres	Legal Description	Acres
SE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec. 25-T93N-R53W	40		
SW $\frac{1}{4}$ SE $\frac{1}{4}$ " "	40		
NW $\frac{1}{4}$ SE $\frac{1}{4}$ " "	40		
NE $\frac{1}{4}$ SE $\frac{1}{4}$ " "	40		
TOTAL ACRES =			160

2. TYPE OF IRRIGATION: GRAVITY: _____ TOWLINE: _____ CENTER PIVOT: ☒ GUN: _____ OTHER: _____ (Specify) _____

3. CROPS TO BE IRRIGATED: corn, beans, alfalfa, oats

WATER QUALITY:

4. WATER SAMPLE NUMBER: 89-0024

7. ADJUSTED (SAR): 4.94

5. SALINITY (EC X 10⁶): 1750

8. PERCENT SODIUM: 22.78

6. SODIUM (SAR): 1.71

Requirements: Blencoe soils are moderately well drained to somewhat poorly drained. This soil tends to have a drainage problem, which may be enhanced under irrigation. This problem may be addressed through an intense water management plan, but it is likely that artificial drainage, ie. tile drainage, may be required on the long term.

Please be advised that we do not consider Swampbuster in developing our recommendations and you should contact your local conservation district before undertaking this project.

[Signature]
Director, Division of Conservation

Date

3/9/89

☒ APPROVED

☐ DISAPPROVED

☐ WAIVER

☒ REQUIREMENTS

Soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.

CONSERVATION COMMISSION MEETING

DATE: March 9, 1989

Page 1 - APPROVED WITH REQUIREMENTS

NAME: D.A. Olson Sons

WATER QUALITY: 89-0024

ADDRESS: RR 1, Box 81

SALINITY: 1750

ADDRESS: Meckling, SD 57044

SAR: 1.71

SODIUM: 22.78

COUNTY: Clay

ADJ SAR: 4.94

LEGAL DESCRIPTION: SE1/4 Sec. 25-T93N-R53W = 160 acres

APPLICATION #: 4337

TYPE OF IRRIGATION: Center pivot

WATER SOURCE: Ground

REQUIREMENTS:

Blencoe soils are moderately well drained to somewhat poorly drained. This soil tends to have a drainage problem, which may be enhanced under irrigation. This problem may be addressed through an intense water management plan, but it is likely that artificial drainage, ie. tile drainage, may be required on the long term.

Please be advised that we do not consider Swampbuster in developing our recommendations and you should contact your local conservation district before undertaking this project.

MANAGEMENT RECOMMENDATIONS:

We recommend a form of conservation tillage to reduce erosion and conserve soil moisture.

TYPE OF PERMIT GRANTED AND REASON:

The approved with requirements recommendation is based on the total salt load of the water and the clay contents of the soils of the area.



WETMORE DRILLING

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



Jan. 16, 1989

Duane Olson
Rt.1 Box 81
Meckling, SD 57044

TEST HOLE LOG:

Center of SE ⁹³ 1/4 sec 25 T-~~33~~⁹³-N R-53W Meckling township Clay Co. South
Dakota

0 - 3'
3 - 36'
36 - 67'
67 - 112'

Topsoil
clay
fine sand
coarse sand & gravel

James Wetmore

James Wetmore
Wetmore Drilling
PO Box 577
Elk Point, SD 57025

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

411596

Pierre, January 23, 1989

RECEIVED OF D.A. Olson & Sons, Box 81 Meckling, SD 57044

the following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. <u>5289-3</u> to Appropriate Water, to construct works and to put water to beneficial use _____	250	00
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	250 00

By John Hetch / msa
Chief Engineer

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5289-3, D.A. Olson & Sons

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 5289-3, D. A. Olson & Sons, Box 81, Meckling SD.

The Chief Engineer is recommending APPROVAL of Application No. 5289-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) in the public interest with the following qualifications:

1. The well authorized by this permit shall be constructed by a licensed well driller and construction shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04.
2. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
3. This permit is approved subject to the irrigation water use questionnaire being submitted each year.

See the attached report for additional information.



JOHN HATCH, Chief Engineer
April 3, 1989

REPORT ON APPLICATION NO. 5289-3
D A OLSON & SONS
April 3, 1989

This application proposes to appropriate 2.25 cfs from one well approximately 100 feet deep to irrigate 160 acres. The well is to be located near the center of SE 1/4 and the acreage to be irrigated is the SE 1/4 of Section 25, T93N, R53W, in Clay County.

Aquifer - Missouri-Elk Point (M-EP)

The Missouri-Elk Point is an alluvium mantled glacial outwash (sand and gravel) which is predominantly under water table conditions but is artesian at this site. The test hole log submitted with the application indicates at least 76 feet of saturated sand and gravels with a static level about 18 feet below land surface. The M-EP aquifer underlies 74,500 acres and contains 1.1 million acre feet of recoverable water in Clay County (Hedges, 1982). The M-EP is hydraulically connected to the Upper Vermillion Missouri Aquifer in Clay County and the M-EP aquifer in Yankton and Union Counties. Also the Missouri and Vermillion Rivers are hydraulically connected to the aquifer.

The Division of Water Rights monitors 5 wells in the M-EP Unit in Clay County. Well CL-80A is approximately 3 miles north of this application. Water levels in these wells tend to mirror climatic conditions. That is, rising during wet periods and declining during dry periods (Water Rights, 1989). Recharge to the aquifer is easily maintaining the existing withdrawals.

Review of Existing Water Permits

There are two existing diversion points (wells) within 1 mile of this application. These are Permit Nos. 3475-3, (4689-3 and 475-3). The later are combined because 1 well serves both permits. Interference should not be a problem. Water levels in the observation wells do not fluctuate very much in response to pumping. This would indicate drawdowns are not significant even in areas where the aquifer is under artesian conditions.

Conclusions

1. Water is available from the M-EP Aquifer.
2. Interference is not expected to be a problem. Observation well records indicate drawdowns due to pumping are not significant.
3. This well must be constructed in accordance with SD Well Construction Standards.


James A Goodman, P.E.
Hydrologist

Bibliography

Hedges, L.S., Etal., 1982, Evaluation of Ground Water Resources Eastern South Dakota and Upper Big Sioux River SD and Iowa, for US Army Corps of Engineers, DWNR, SDGS, Vermillion SD 57069.

Water Rights, 1989, Observation Well Records for M-EP Aquifer In Clay County, SD DWNR, Div of Water Rights, Joe Foss Building, Pierre SD 57501.

**Department of
Water & Natural Resources**

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

April 4, 1989

**NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.**

D.A. Olson & Sons
Box 81
Meckling SD 57044

Dear Sirs:

Your Application No. 5289-3 for a permit to appropriate water for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of your intent to appropriate water has been sent to the Publisher of the Vermillion Plain Talk printed at Vermillion SD. For your information, a copy of the notice is enclosed. The recommendation of the Chief Engineer and a report on the application will be sent later. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Intent to Appropriate Water and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. We must receive Proof of Publication before the application can be considered by the Water Management Board.

Sincerely,



Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures





Department of Water & Natural Resources

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

April 4, 1989

Vermillion Plain Talk
Box 256
Vermillion SD 57069

Dear Sir:

Enclosed is a Notice of Hearing on Application No. 5289-3 to be published twice. Please publish the first notice on or before April 12, 1989 with the second publication 7 days later.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make the first publication. Please BILL the APPLICANT for the cost of publication. The APPLICANT is D. A. Olson & Sons, Box 81, Meckling SD 57044.

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. The permit application cannot be considered by the Water Management Board until proof of publication has been received.

Sincerely,

Ron Duvall
Natural Resources Engineer
605 773-3352

enclosures

-----CUT HERE-----

FIRST TRANSMITTAL NOTICE

TO: Ron Duvall
Water Rights Division
Joe Foss Building
Pierre SD 57501-3181

No. _____

Date _____

We are in receipt of your letter of _____ enclosing Notice of Hearing to
Appropriate Water by Application No. _____ which was first published in our issue
of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

Name

Newspaper



Instruction to Newspaper - Publish first Notice on or before April 12, 1989 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5289-3 to Appropriate Water

Notice is given that D. A. Olson & Sons, Box 81, Meckling SD 57044 has filed an application for a water permit to appropriate 2.25 cubic feet of water per second from one well (Missouri Aquifer) approximately 100 feet deep to irrigate 160 acres. The well is to be located near the center of the SE 1/4 and the acreage to be irrigated in the SE 1/4; all in Section 25, T93N, R53W.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5289-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water and 4) it is in the public interest. This application will be considered by the Water Management Board in Room 216, Joe Foss Building, 523 E Capitol, Pierre SD on May 10, 1989 at 10:00 am. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer or 4) deny this application based on the facts presented at the public hearing.

Any interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by April 28, 1989. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)". The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application and the signature and mailing address of the petitioner or legal counsel if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.

This hearing is an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by April 28, 1989.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15.

No. _____



PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)

County CLAY)

ss. Joan E. Willroth

Commission Expires
April 17, 1987

I, CRYSTAL WILLROTH hereby

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

Water was taken from the 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 _____

PITY of VERMILION

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

APRIL 13, 1989

APRIL 20, 1989

Crystal J. Willroth
(Signature)

Bookkeeper
(Title)

4-20-89
(Date Signed)

Cost of Printing: 34.24

NOTICE OF HEARING
on Application No. _____
to Appropriate Water

Notice is given that D.A. Olson & Sons,
Box 81, Meckling, SD 57044 has filed an
application for a water permit to appro-
priate 2.25 cubic feet of water per second
from one well (Missouri Aquifer) approx-
imately 100 feet deep to irrigate 160 acres.
The well is to be located near the center
of the SE 1/4 and the acreage to be ir-
rigated in the SE 1/4; all in Section 25
T93N, R53W.

Pursuant to SDCL 46-2A-2, the Chief
Engineer of the Water Rights Division
recommends APPROVAL of Application
No. 5289-3 because 1) inappropriate
water is available, 2) existing rights will
not be unlawfully impaired, 3) it is a bene-
ficial use of water and 4) it is in the public
interest. This application will be consid-
ered by the Water Management Board in
Room 216, Joe Foss Building, 523 E.
Capitol, Pierre, SD, on May 10, 1989, at
10:00 a.m. The Chief Engineer's recom-
mendation is not final or binding upon the
Board. The Board is authorized to 1) ap-
prove, 2) approve with qualifications,
3) defer or 4) deny this application based

on the facts presented at the public
hearing.

Any interested person that intends to
participate in the hearing before the
Board by presenting evidence or cross-
examining witnesses according to SDCL
1-26, must file a written petition with
BOTH the applicant and Chief Engineer
by April 28, 1989. The Chief Engineer's
address is "Water Rights Division, Foss
Building, 523 E. Capitol, Pierre, SD 57501
(605 773-3352)." The petition may be in-
formal, but must include a statement
describing the petitioner's interest in the
application, the petitioner's reasons for
opposing or supporting the application
and the signature and mailing address of
the petitioner or legal counsel if legal
counsel is obtained. The applicant need
not file a petition. Contact the Water
Rights Division to request information on
this application or to assure access to the
hearing by the handicapped.

This hearing is an adversary pro-
ceeding. Any person filing a petition
and/or the applicant have the right to be
represented by a lawyer. These and other
due process rights will be forfeited if not
exercised. Decisions of the Board may be
appealed to the Circuit Court and State
Supreme Court as provided by law. The
time of the hearing will also be auto-
matically delayed for at least twenty days
upon written request to the Chief Engi-
neer from the applicant or a petitioner.
The request for a delay must be received
by April 28, 1989.

This application is made pursuant to
SDCL 46-1-1 thru 46-1-9, 46-1-12 thru
46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13,
46-2-17; 46-2A-1 thru 46-2A-10, 46-2A-12,
46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11,
46-5-13 thru 46-5-15, 46-5-24, 46-5-25,
46-5-30.2, 46-5-30.4, 46-5-31; 46-6-3,
46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14;
and Board Rules ARSD 74:02:01:01 thru
74:02:01:15.

Printed: April 13 & 20, 1989

 **Department of
Water & Natural Resources**

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

May 4, 1989

D.A. Olson & Sons
Box 81
Meckling SD 57044

Dear Sirs:

Enclosed is the Report and the Recommendation of the Chief Engineer for Water Permit Application No. 5289-3 which will be considered at the May 10, 1989 Water Management Board Meeting.

Sincerely,



KAREN SCHLAAK
Senior Secretary
605 773-3352

enclosures



 **Department of
Water & Natural Resources**

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

SEP 12 1989

D.A. Olson & Sons
RR #1 Box 81
Meckling, SD 57044

Dear Mr. Olson:

Enclosed is Water Permit No. 5289-3 as approved by the Water Management Board authorizing you to construct your water diversion system and put the water to beneficial use, not exceeding the limits as specified in the Water Permit.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,



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

enclosures

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period - i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.



10-27-92

DA Olson & Sons
name of the farm
so permit still in
this name.

DA Olson passed
away last year

SOUTH DAKOTA WATER WELL COMPLETION REPORT

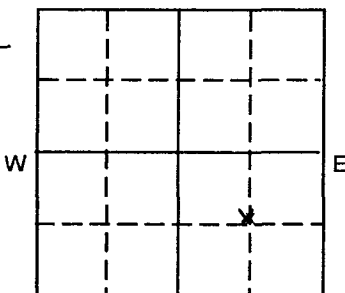
11-02

Location nw $\frac{1}{4}$ se $\frac{1}{4}$ Sec 25 Twp 93n Rg 53w

County

Clay

North

Please mark well
location with an "X"

Well Completion Date

6/15/2008

1 Mile

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? 1,550.0 ft. from septic tank (identify source)

PROPOSED USE:

☐ Domestic/Stock ☐ Municipal ☐ Business ☐ Test Holes
☒ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well

METHOD OF DRILLING:

Direct Rotary

CASING DATA:

If other describe

☐ Steel ☒ Plastic ☐ Other

PIPEWEIGHT LB/FT	DIAMETER IN	FROM FT	TO FT	HOLE DIAMETER IN
	<u>16.00</u>	<u>0.0</u>	<u>56.0</u>	<u>22.00</u>

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight Lb/gal	From Ft	To Ft
<u>bent grt</u>	<u>19</u>	<u>9.5</u>	<u>0.0</u>	<u>50.0</u>

Describe grouting procedure
tremie

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16.00 Inches Length 50.0 FeetMaterial pvcSlot Size 0.080 Set From 56.0 Feet to 106.0 Feet

Other information

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? HTH tablets
☐ No, Why Not?
Lab sample sent to for
water quality analysisWell Owner: D. A. Olson

Business Name:

Address: 31729 455th AveCity, State, Zip: Meckling SD 57044

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Clay, brown silty, pebbly	<u>0</u>	<u>7</u>
silt, gray, sandy	<u>7</u>	<u>51</u>
gravel, med to coarse, sandy	<u>51</u>	<u>110</u>

STATIC WATER LEVEL 18.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:☐ Bailed☐ Other

Pumping Level Below Land Surface

31.0 Ft. After 1.0 Hrs. pumped 700.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: _____ GPM

REMARKS

RECEIVED

FEB - 2 2009

WATER RIGHTS
PROGRAMThis well was drilled under license # 666

And this report is true and accurate.

Drilling firm: Hammond Wetmore Drilling

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date:

12/10/08

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 5289-3

I have this day, ¹¹⁻⁶⁻²⁰¹⁵~~January 23, 1989~~, made a thorough examination of the water use system constructed by D A Olson & Sons, 31725 455th Ave, Meckling, SD 57069 of Permit No. 5289-3, bearing the priority of January 23, 1989 authorizing the diversion of 2.25 cu. ft. per second of the waters of Missouri:Elk Point Aquifer for irrigation purposes, in Clay County.

Inspection contact & relationship to permit holder, if applicable: **Dale Olson-son, D A Olson & Sons-permit holder**

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Hammond-Wetmore Drilling, LLC
- 2) No. of Wells 1
- 3) Depth(s) 106 feet
- 4) Well log is available Yes, for replacement well

Comments: Replacement well was completed in 2008.

Casing:

- 1) Diameter 16 inches
- 2) Length 56 feet
- 3) Type PVC

Screen:

- 1) Type PVC Manufactured
- 2) Length 50 feet
- 3) Static water level 18 feet

Pump:

- 1) Make Grundfos Submersible
- 2) Model 625S300
- 3) Capacity 800 GPM

Motor:

- 1) Make Grundfos
- 2) Model No. Submersible
- 3) Horsepower rating 30 hp

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Lindsay
- 2) Overall length 1300 feet
- 3) Number of towers 7
- 4) End gun Yes
- 5) Capacity 800 GPM

Comments: Water Permit 5289-3 appropriated 2.25 cfs or 1012 gpm, however only 1.78 cfs or 800 gpm were developed.

Chemigation Equipment:

- 1) Does chemigate No

D. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Yes
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Yes, began irrigating in 1992.

List any extended period of nonuse: Did not use in 1993, 1999, 2009-2011 due to adequate rainfall.

- 3) Exceptions to compliance are: None

E. Condition and Location:

1. The system is in good condition with the point(s) of diversion located as follows: West 1340', North 1350' from SE Corner of Sec 25-T93N-R53W; Lat 42.84089/Long -97.04741; approximate center of SE ¼ Sec 25-T93N-R53W.
2. The works are capable of diverting and conveying to the place of use 1.78 cfs or 800 gpm of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:
All land is located in Sec 25-T93N-R53W.

<u>NW ¼ SE ¼ - 34 ac</u>	<u>NE ¼ SE ¼ - 33 ac</u>
<u>SW ¼ SE ¼ - 21 ac</u>	<u>SE ¼ SE ¼ - 28 ac</u>

comprising a total of 116 acres of land and the license should be issued for 1.78 cfs or 800 gpm.

*1.66 is statutory limit
for acreage developed.*

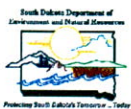
3. All structures, wells and lands on map **Yes**

Harold Holoch

Harold Holoch, PE
Engineer Water Rights Inspector
DENR, Water Rights Program

Date report completed: **March 14, 2016**

5289-3



Harold Holoch
Harold Holoch, PE
Water Rights Inspector
January 5, 2016



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.state.sd.gov

April 8, 2016

5289-3

D A Olson & Sons
31725 455th Ave
Meckling SD 57069

Dear Mr. Olson:

On November 6, 2015 the investigation of your water use system, including the extent of application of water to beneficial use, as developed under Water Permit No. 5289-3, was completed by Harold Holoch, a staff engineer with our program. Your final water right document, the water license, can now be issued.

State law requires that we charge a \$50.00 fee for the investigation and issuance of the water license. Upon receipt of the \$50.00 fee from you, we will complete processing your water license. The check or money order for the fee should be made payable to the "Water Rights Program".

Your licensed water right will be similar to a property right that cannot be lost as long as the water use continues and you abide by the permit requirements.

If you have any questions regarding the water permit, investigation of your water use system or payment of the fee, please contact me.

Sincerely,

Genny McMath
Water Rights Program
(605) 773-3352

Note: The remaining permits Mr. Holoch inspected for you are new enough they already have license fees paid. No. 5289-3 was approved prior to the time license fees were assessed with the application.

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 4/15, 20 16

RECEIVED OF D A Olson Sons LLC 31725 455th Ave Meckling SD 57069

The following amount in fees for services rendered as provided for by law:

Fee for Application for Permit No. _____ to Appropriate Water, to construct and to put water to beneficial use	50	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>5289-3</u>		
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	50 00

No. **07822**

By Jeanne Goodman
Chief Engineer



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

MAY 03 2016

5289-3

Dale Olson
D A Olson & Sons
31725 455th Ave
Meckling SD 57069

Dear Mr. Olson:

Enclosed is Water License No. 5289-3. This is the final water right document completing your process of obtaining a Water Right. Included with your license is a map prepared by the staff engineer who conducted the field investigation.

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. 5289-3, 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.

Sincerely,

Jeanne Goodman, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

NOTE: The investigation found your irrigation system is capable of diverting 1.78 cubic feet of water per second (cfs) which is equivalent to approximately 800 gallons per minute. The statutory limit for 116 acres is 1.66 cfs (equivalent to approximately 745 gpm). Diversion of water under this water license is limited to 1.66 cfs.

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 5289-3**

(1) D A Olson & Sons, 31725 455th Ave, Meckling SD 57069 made Application No. 5289-3, January 23, 1989 for a water permit to divert 2.25 cubic feet of water per second from ground water (one well, Missouri Elk Point Aquifer), Clay County, South Dakota for irrigation purposes. Permit No. 5289-3, with a priority date of January 23, 1989 was approved May 10, 1989 and issued to the applicants for diversion of water with construction of the described water supply system to be completed on or before May 10, 1994 and for the application to beneficial use of said water on or before May 10, 1998.

(2) It is certified that the permit holders have complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.66 cubic feet of water per second for beneficial use. The location of the diversion point is 1,340 feet west and 1,350 feet north of the SE corner of Section 25, T93N, R53W (approximate center of the SE ¼).

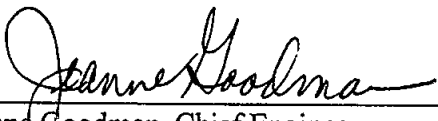
(3) The permit holders have complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

T93N, R53W Section 25	NW ¼ SE ¼	34 acres
	NE ¼ SE ¼	33 acres
	SW ¼ SE ¼	21 acres
	SE ¼ SE ¼	28 acres
	Total	116 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 D A Olson & Sons, 31725 455th Ave, Meckling SD 57069 the holders and/or owners of Water Right No. 5289-3 are issued a license to appropriate water, the right to use 1.66 cubic feet of water per second from ground water (one well – Missouri Elk Point Aquifer) with a priority date of January 23, 1989 from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 5289-3 and subject to the following qualifications:

- The well authorized pursuant to this permit shall be constructed by a licensed well driller and construction shall comply with the Water Management Board Well Construction Rules, Chapter 74:02:04.
- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.



Jeanne Goodman, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAY 03 2016

date

