

WATER PERMIT NO. 6783-3

Name of Applicant: **D A Olson & Sons LLC**

Address: **31725 455th Ave, Meckling SD 57069-4423**

Phone: **605 267-4121**

Amount of Water Claimed: **2.0 cfs**

Total Acres: **140**

Source of Water Supply: **groundwater (one well)**

Water to be used for: **irrigation**

County: **Clay**

Type of Waste Disposal System:

Location: **1 mile southeast of Meckling**

PRIORITY

Date Received: **12-6-06**

Application/License Fee: **\$300**

Corrected Application Received: **12-11-06**

Period of Annual Use: **April 1 - October**

Remarks:

Diversion Point: **center SE ¼ Sec 34-T93N-R53W**

Land to be Irrigated: **SE ¼ Sec 34-T93N-R53W**

Depth of Well: **115 feet deep**

Well Driller:

Remarks:

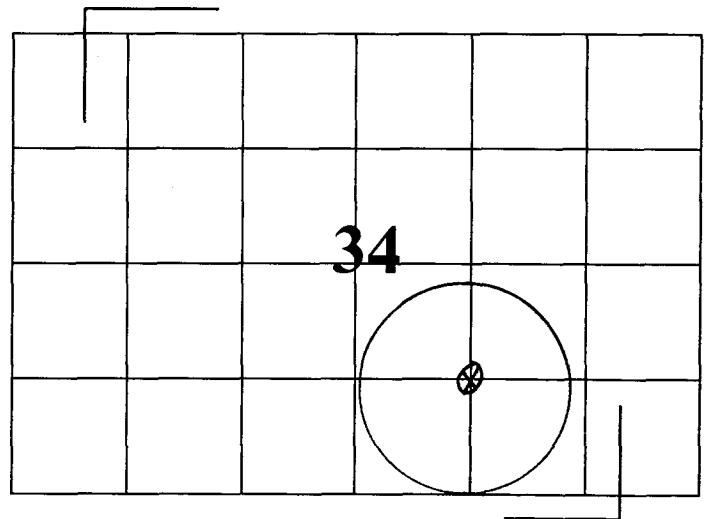
Type of Map: **aerial**

Prepared by: **Richard Hammond**

Reviewed and the Number Assigned on: **12-12-06**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6783-3</u>	(office use only) Hydrologic Unit <u>10170101</u>
	Basin <u>Missouri River</u>	
	Newspaper <u>PLAIN TALK Vermillion SD</u>	
	<u>605-624-2695</u>	<u>57069</u>

RECEIVED
DEC - 6 2006
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)
Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

- Name of Applicant D.A. Olson & Sons L.L.C. Phone 605-267-4121
(check one) ☐ Owner ☐ Tenant/leasee
Mailing Address 31725 455th AV Meckling State SD 57069-4423
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 2.0 *CFS or 900 **GPM ***AF Total Acreage 140
(*Cubic Feet per Second) (**Gallons per Minute) (***) Acre Foot - storage capacity of dam/dugout or annual use if applicable
- Source of water supply groundwater
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Clay
SE 1/4 of Section 34-093-53 (approximate center)
- County or counties where water will be used Clay
- Annual period during which water is to be used April 1 through October 31
- List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
(Attach sheet if more space is needed)

Land Description	Acres	Land Description	Acres
NW Qtr of SE Qtr	35		
NE Qtr of SE Qtr	35		
SW Qtr of SE Qtr	35		
SE Qtr of SE Qtr	35		

8. Give a description of the project. (Attach sheet if more space is needed)
Drill a new well at the center point of the SE Qtr of Section 34, Irrigate cropland with a center Pivot machine, Would like to drill Irrigation well in January.

STATE OF SOUTH DAKOTA
County of Clay

Attachments: Attach Form 2A if diversion is from a well or dugout, or if storage of water is proposed. Attach map and any other technical information. (see instructions)

I, Dale G. Olson, the applicant, certify that I have read this application, have examined the attached map and that the matters stated are true and that I intend, and am able to complete the necessary construction.

Applicant's signature Dale G. Olson

Subscribed and sworn to before me this 4th day of December 20 06

[Signature]
Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 6783-3**

Date of first receipt of application December 6, 2006.

Date of return to applicant for corrections, amendments or changes December 6, 2006.

Date of receipt of corrected application December 11, 2006.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6783-3 to D A Olson & Sons, LLC, c/o Dale G Olson, 31725 455th Ave, Meckling SD 57069-4423 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. 6783-3 appropriates 2.0 cubic feet of water per second from one well to be completed into the Missouri:Elk Point Aquifer (approximately 115 feet deep) located in the center of the SE ¼ Section 34 to irrigate 140 acres located in the SE ¼ Section 34; all in T93N-R53W.
2. The amount of the appropriation may not exceed 2 acre feet annually 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- October 31.
3. The date from which applicant may claim right is December 6, 2006.
4. The date of approval of Permit No. 6783-3 is January 29, 2007.
5. One-fifth of the construction is to be completed on or before July 29, 2009.
6. All construction is to be completed on or before January 29, 2012.
7. Water is to be put to beneficial use on or before January 29, 2016.
8. 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 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.
2. The well authorized by Permit No. 6783-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: Garland Erbele
Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

APR 20 2007

date



(type or print in ink)

1. Well Information - Proposed Construction

No well or test hole drilled

- a) Drill Hole Diameter 24" Depth 115'
- b) Casing Type PVC Diameter 16" Thickness 1"
- c) Screen Type PVC Diameter 16" Thickness 1"
- d) Gravel Pack 1/4 - 1/8" pea gravel Length of Gravel Pack 60'
- e) Depth to Top of Water Bearing Material 50'
- f) Depth to Water (ground surface to water level) 22'
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others 1700'

2. Wastewater Disposal System Information

- a) Type of System (i.e. septic tank, drain field) _____
- b) System Capacity (gallons) _____ Year Constructed _____
- c) Connected to the City of _____ Sanitary System

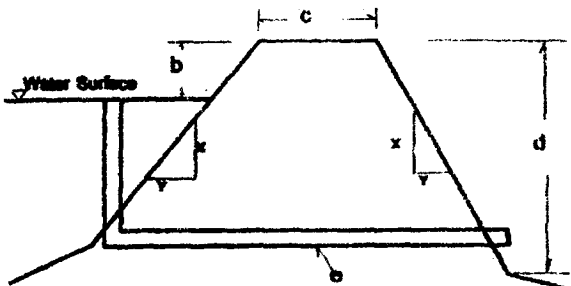
3. Dugout Information

- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

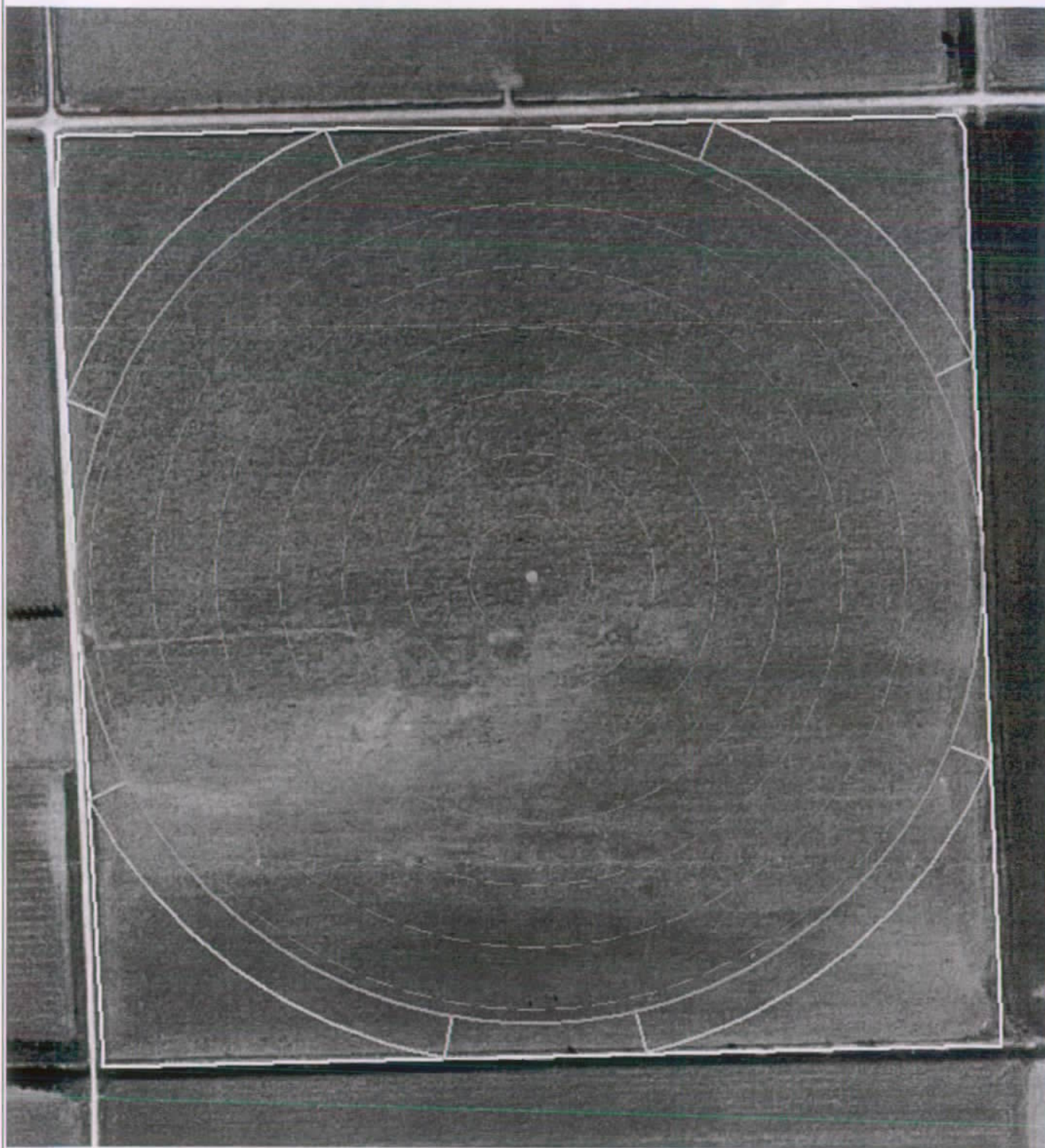
4. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below for each dam. The locations of the dams need to be shown on the map submitted with the application.

- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:



- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres



Clay County
Sec - Twp - Rng: 34-93N-53W
SE $\frac{1}{4}$

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date December 6, 2006

RECEIVED OF D A Olson & Sons LLC, 31725 455th Avenue, Meckling SD 57069

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

Fee for Application for Permit No. <u>6783-3</u> to Appropriate Water, to construct 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. <u>6783-3</u>	50	00
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	300.00

No.

02660

By

Darland Ebel
Chief Engineer *gm*



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

December 6, 2006

D A Olson & Sons LLC
c/o Dale G Olson
31725 455th Ave
Meckling SD 57069-4423

Dear Mr. Olson:

Thank you for submitting the *Application for a Permit to Appropriate Water* for irrigation. In order to complete the application the following is required.

- Enclosed is the map submitted with the application. On the map, mark the proposed well location with an "X".
- The map must be signed by one of the following: Registered Land Surveyor, Registered Professional Engineer or by any other government employee who normally prepares maps as a part of his assigned duties (i.e. local NRCS office).
- Please complete and return Form 2A regarding No. 1 Well Information – Proposed Construction. Since a test hole log was not submitted with the application, at the very least we need to know the proposed well depth.

If you have any questions, please contact me.

Sincerely,

Karen Schlaak
Water Rights Program
605 773-3352
karen.schlaak@state.sd.us

enclosure



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6783-3, D. A. Olson & Sons, LLC**

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Program, Department of Environment and Natural Resources concerning Water Permit Application No. 6783-3. D. A. Olson & Sons, LLC, 31725 455th Avenue, Meckling SD 57069-4423.

The Chief Engineer is recommending APPROVAL of Application No. 6783-3 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) it is in the public interest with the following qualifications:

1. 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.
2. The well authorized by Permit No. 6783-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28.
3. This Permit is approved subject to the irrigation water use questionnaire being submitted each year.

See report on application for additional information.

Garland Erbele, Chief Engineer
January 2, 2007

REPORT ON WATER PERMIT 6783-3
For D.A. Olson & Sons LLC
December 28, 2006

Application No. 6783-3 proposes to appropriate 2.0 cfs (900 gpm) from one well approximately 115 feet deep located in the center of the SE $\frac{1}{4}$ of section 34 to irrigate 140 acres located in the SE $\frac{1}{4}$ of section 34; all in T93N R53W in Clay County.

AQUIFER – MISSOURI ELK POINT (M-EP)

The Missouri Elk Point is an alluvium mantled outwash (sand and gravel) that is under predominantly water table conditions in this area. At this site the aquifer appears to be under confined conditions, however the water level record behaves more like a water table situation. The aquifer underlies 74,500 acres and contains an estimated 1.1175 million acre-feet of recoverable water in storage in Clay County (Hedges, 1982). The aquifer extends into Union County to the east, into Yankton County to the west, blends into the Upper Vermillion Missouri aquifer to the north, and is hydraulically connected to the Vermillion and Missouri Rivers to the east and south. In portions of Clay County the Missouri Elk Point aquifer lies directly upon the Dakota aquifer and is hydraulically connected to that aquifer also. Ground water movement is from northwest to southeast across Clay County and towards the Missouri River (Stephens, 1967).

No test well was drilled for this application. However, there is sufficient information available from the county study, domestic and irrigation wells in the area, and observation wells to evaluate this application. A nearby irrigation well located about one-half mile north of this application indicates gravel beginning at a depth of 55 feet to 72 feet, medium sand from 72 feet to 84 feet, and rock and gravel from 84 to 100 feet below land surface. This information fits well with other data for the area.

The Water Rights Program monitors an observation well CL-80B completed into the Missouri Elk Point aquifer and located about two miles southwest of the well for this application. Water levels for these wells show good response to climatic conditions that is rising water levels during wet years (recharge) and gradually declining water levels during dry years. In general, the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2006). A hydrograph for this observation well is included with this report. Note the effects of entrenching of the Missouri River causing the gradual decline in water levels for the observation well CL-80B. This phenomenon shows up in observation wells located near the Missouri River but seems to disappear as the distance from the river increases.

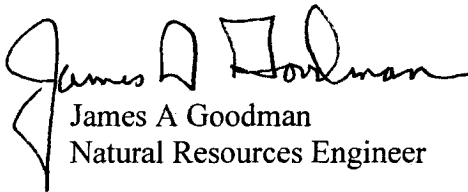
REVIEW OF EXISTING WATER PERMITS/RIGHTS

There is one existing water right No. 2584-3 (3.74 cfs, 262 acres) that obtains water from the Missouri Elk Point aquifer and is immediately adjacent to this application. That right is for two wells one located about one half mile to the north and one located about one-half mile east of the well for this application. At this distance between production wells

interference is not a concern. Drawdown is not significant at this distance. This is confirmed by the observation well hydrograph.

CONCLUSIONS

1. Water is available from the Missouri Elk Point aquifer.
2. Interference is not expected to be a concern. There will be drawdown created by this pumping rate but this is not expected to be significant nor cause any adverse effects on existing users.
3. This well must be constructed in accordance with SD Well Construction Standards.



James A Goodman
Natural Resources Engineer

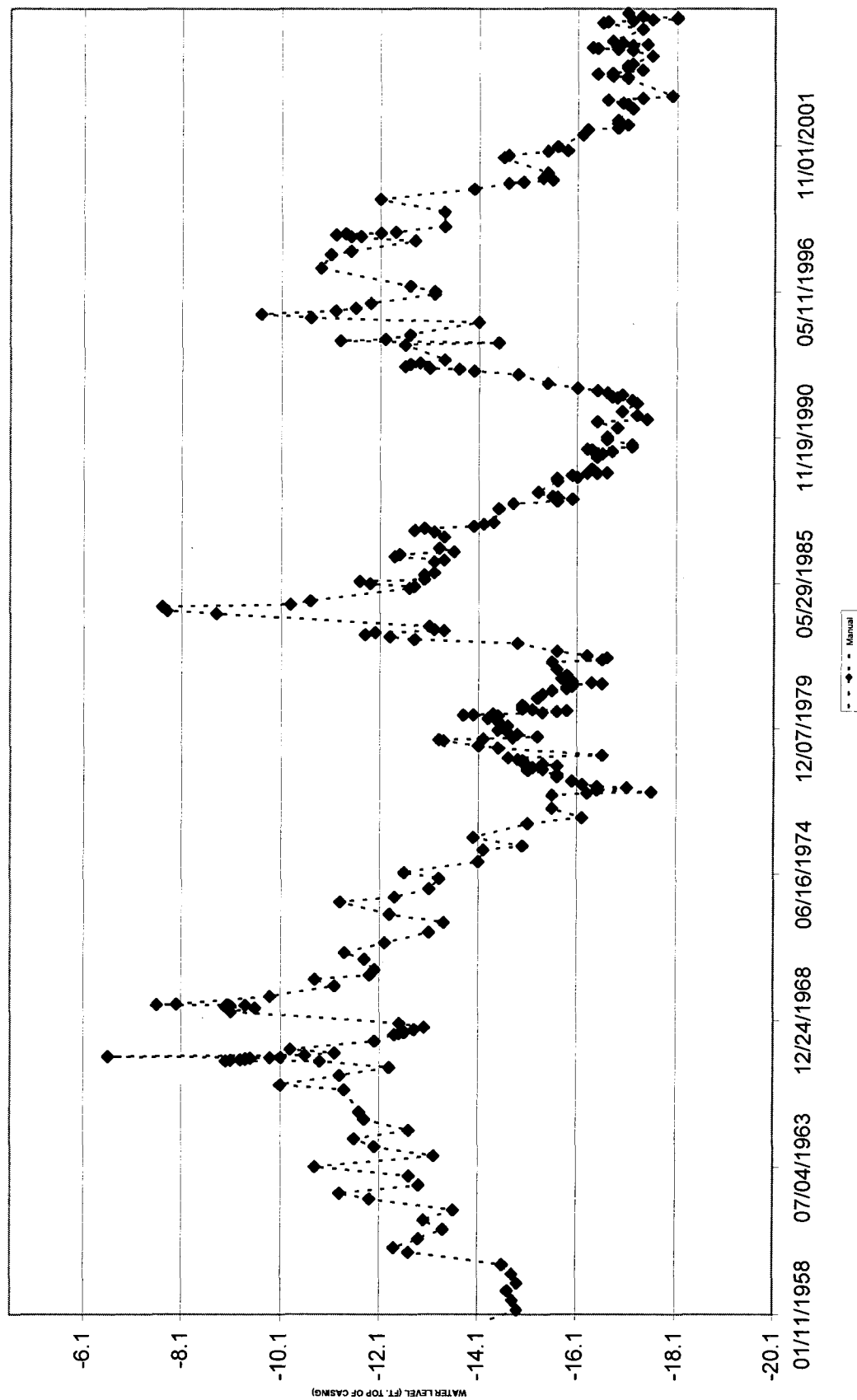
BIBLIOGRAPHY

Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Stephens, J.C., 1967, Geology and Water Resources of Clay County, South Dakota, Part II Water Resources, Bulletin 19, SD DENR, SDGS, Vermillion, SD, 57069.

Water Rights, 2006, Unpublished Observation Well Data for Yankton County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
CL-80B



AFFIDAVIT OF PUBLICATION

State of South Dakota, County of Clay, ss.

Penny Tucker

Being first duly sworn, deposes and says: That he/she is a resident of the County of Clay and State of South Dakota; that

THE PLAIN TALK

is a legal newspaper of general circulation, printed and published in Vermillion, in said County and State, by Broadcaster Press, Inc., and is now and has been such newspaper continuously during all the times hereinafter mentioned; that affiant is and was during all the time hereinafter mentioned in charge of the advertising department thereof, and has personal knowledge of all the facts stated in this affidavit: and that the notice and advertisement headed:

NOTICE OF APPLICATION NO. 6783-3

TO APPROPRIATE WATER

a printed copy of which is hereunto attached and made a part hereof, was printed and published in the said newspaper at least once in each week

for 2 successive weeks; that said newspaper at the time of the first publication of said notice hereinafter stated, had, and still has, a bona fide circulation of over two-hundred paid copies weekly, and had been published in the said county of Clay for more than one year immediately prior to the date of the said publication of said notice, and that said newspaper during said times, was, and is, printed in part in an office maintained at said city of Vermillion, the said place of publication; that the first publication of said notice in said newspaper as aforesaid

was on Friday, the 12th day of January, 20 07, and that the succeeding publications were severally

on Friday, the 19th day of January, 20 07,

on Friday, the _____ day of _____, 20 _____,

on Friday, the _____ day of _____, 20 _____,

on Friday, the _____ day of _____, 20 _____,

that the fees charged for the printing and publication of the said notice and advertisement in said newspaper as aforesaid were

Thirty-eight dollars and 14 cents

and that said fees for the printing and publishing of said notice and advertisement have been fully paid; that the full amount of the fee charged for the publishing of the said attached annexed notice and advertisement inures to the benefit of the publisher of the said newspaper, that no agreement or understanding for the division thereof has been made with any other person and that no part thereof has been agreed to be paid to any other person whomsoever.

Penny Tucker

Subscribed and sworn to before me

this 17th day of January, 20 07

JOAN E. WILKINSON
NOTARY PUBLIC
SOUTH DAKOTA

Notary Public

My Commission Expires 04/17/2011

NOTICE OF APPLICATION NO. 6783-3 to Appropriate Water

Notice is given that D A Olson & Sons LLC, 31725 455th Ave., Meckling, SD 57069-4423 have filed an application for a water permit to appropriate 2.0 cubic feet of water per second from one well to be completed into the Missouri/Elk Point Aquifer (approximately 115 feet deep) located in the center of the SE 1/4 Section 34 to irrigate 140 acres located in the SE 1/4 Section 34; all in T93N-R53W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6783-3 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. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be

given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E. Capitol, Pierre, SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by January 29, 2007.

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 the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Publish: January 12 & 19, 2007

JAN 24 2007

WATER RIGHTS
PROGRAM



January 3, 2007

Plain Talk
PO Box 256
Vermillion SD 57069-0256

ATTENTION: Legal Public Notice

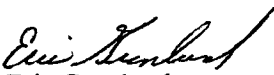
Enclosed is a Notice on Application No. 6783-3 to Appropriate Water to be published twice. Please publish the first notice on January 12, 2007 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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 LLC, 31725 455th Ave, Meckling, SD (Ph # 605-267-4121).

Please send the Water Rights Program the first publication immediately. The publication is checked for accuracy so any corrections can be made in the second publication. You may use the form below or fax a copy of the first publication. Any fax should be sent to the attention of Karen Schlaak at (605) 773-4068. Publication errors can invalidate the public notice.

After the second publication, **please send us an affidavit or use the enclosed Proof of Publication form.** The applicant pays the cost of publication, but the Water Rights Program records require an affidavit or Proof of Publication. Delays in receiving the affidavit can be costly to the applicant.

Sincerely,


Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

No. 6783-3

TO: Eric Gronlund
Water Rights Program
Joe Foss Building
Pierre SD 57501-3181

Date _____

We are in receipt of your letter of January 3, 2007 enclosing Notice to Appropriate Water by Application No. 6783-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

www.state.sd.us/denr

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

January 3, 2007

D A Olson & Sons LLC
31725 455th Ave
Meckling SD 57069-4423

Dear Sir:

Water Permit Application No. 6783-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice has been sent to the Publisher of the Plain Talk printed at Vermillion, SD (Ph # 605-624-2695). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. 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 and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendation, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the application.

Instruction to Newspaper - Publish first Notice on January 12, 2007 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6783-3 to Appropriate Water

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Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6783-3 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. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by January 29, 2007.

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APR 20 2007

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

D A OLSON & SONS LLC
C/O DALE G OLSON
31725 455TH AVE
MECKLING SD 57069

Dear Mr. Olson:

Enclosed is Water Permit No. 6783-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

Form 10, *Notice of Completion of Works and Application of Water to Beneficial Use*, is enclosed. Please return this completed form after you have finished the system and have put the water to beneficial use. An investigation can then be scheduled so the water license may be issued, thus completing the acquisition of a water right.

An informational sheet *Common Water Right Questions?* is also enclosed. This sheet is intended to answer some of the questions associated with obtaining and keeping a water right.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location ne $\frac{1}{4}$ se $\frac{1}{4}$ Sec 34 Twp 93n Rg 53w

County

clay

North

Please mark well location with an "X"

W

E

Well Completion Date

3/20/2007

1 Mile

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

? 2,500.0 ft. from septic system (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

direct rotary

CASING DATA:

☐ Steel
 ☒ Plastic
 ☐ Other

If other describe

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

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight Lb/gal	From Ft	To Ft
Bent grt	32	9.5	0.0	51.0

Describe grouting procedure
Tremie method

SCREEN:

☐ Perforated pipe
 ☒ Manufactured
 Diameter 16.00 Inches Length 50.0 FeetMaterial PVC slottedSlot Size .060 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 analysis

Well Owner: Dale Olsen

Business Name:

Address: 41729 455th AveCity, State, Zip: Meckling SD 57044

WELL LOG:

DEPTH

FORMATION	FROM	TO
topsoil, Dk Bm, Silty	0	1
Silt, brn, Clayey	1	35
sand, brown, fine	35	51
sand, brown, medium to coarse	51	78
Gravel, v coarse	78	112
Limestone, dk gray, silty	112	122

STATIC WATER LEVEL 21.0 FEETIf flowing: closed in pressure PSIGPM flow through Inch pipeControlled by ☐ Valve ☐ Reducers ☐ OtherReduced flow rate GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:☐ Bailed☐ Other

Pumping Level Below Land Surface

29.0 Ft. After 2.0 Hrs. pumped 800.0 GPM Ft. After Hrs. pumped GPMIf pump installed, pump rate: 800.0 GPM

REMARKS

RECEIVED

FEB - 2008

WATER RIGHTS

PROGRAM

This 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:

12/26/07

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 6783-3

I have this day, November 6, 2015, made a thorough examination of the water use system constructed by D A Olson & Sons, 31725 455th Ave, Meckling, SD 57069 of Permit No. 6783-3, bearing the priority of December 6, 2006 authorizing the diversion of 2.0 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

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 21 feet

Pump:

- 1) Make FlowServe In-Line ShaftTurbine
- 2) Model 12KSL-3
- 3) Capacity 800 GPM

Motor:

- 1) Make US Electrical
- 2) Model No. BF48A
- 3) Horsepower rating 40 hp

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Lindsay
- 2) Overall length 1290 feet
- 3) Number of towers 7
- 4) End gun Yes
- 5) Capacity 800 GPM

Comments: Water Permit 6783-3 appropriated 2.0 cfs or 900 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 2007.

List any extended period of nonuse: Did not use in 2009-2010 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 1330', North 1370' from SE Corner of Sec 34-T93N-R53W; Lat 42.82625/Long -97.08675; approximate center of SE ¼ Sec 34-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 34-T93N-R53W.

NW ¼ SE ¼ - 33 ac

SW ¼ SE ¼ - 33 ac

NE ¼ SE ¼ - 33 ac

SE ¼ SE ¼ - 33 ac

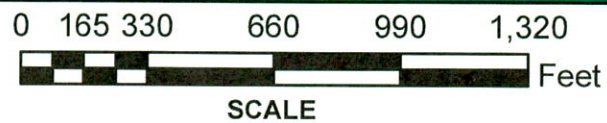
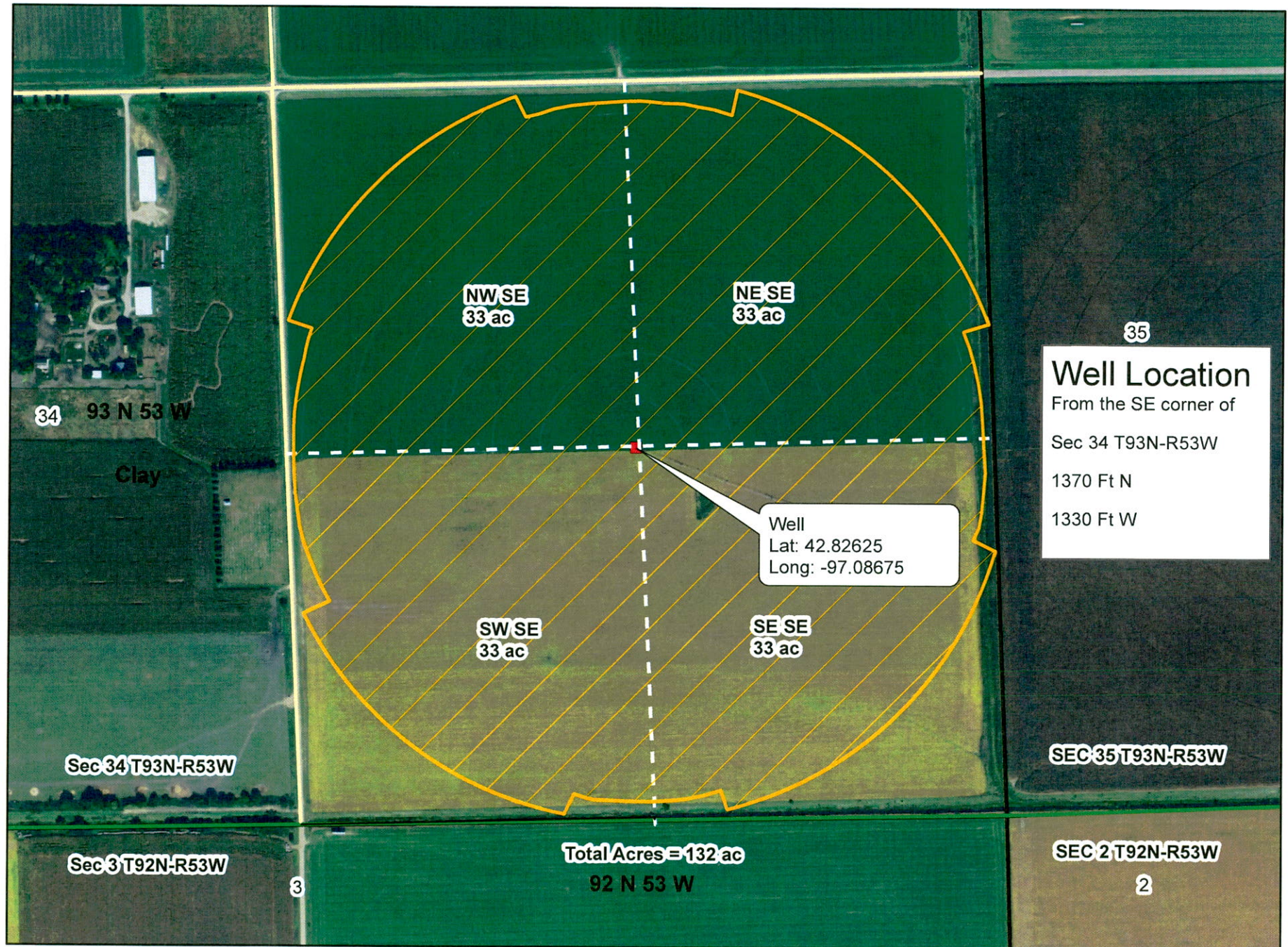
comprising a total of 132 acres of land and the license should be issued for 1.78 cfs or 800 gpm.

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



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
<http://denr.sd.gov>

MAY 03 2016

6783-3

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

Dear Mr. Olson:

Enclosed is Water License No. 6783-3. 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. 6783-3, 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

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 6783-3**

(1) D A Olson & Sons, LLC, 31725 455th Ave, Meckling SD 57069 made Application No. 6783-3, December 6, 2006 for a water permit to divert 2.00 cubic feet of water per second from ground water, one well (Missouri Elk Point Aquifer), Clay County, South Dakota for irrigation purposes. Permit No. 6783-3, with a priority date of December 6, 2006 was approved January 29, 2007 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before January 29, 2012 and for the application to beneficial use of said water on or before January 29, 2016.

(2) It is certified that the permit holder has 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 1.78 cubic feet of water per second for beneficial use. The location of the diversion point is:

- 1,330 feet west & 1,370 feet north of the SE corner of Section 34, T93N, R53W (approximate center of the SE $\frac{1}{4}$).

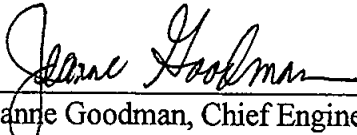
(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

Section 34, T93N, R53W	NW $\frac{1}{4}$ SE $\frac{1}{4}$	33 acres
	NE $\frac{1}{4}$ SE $\frac{1}{4}$	33 acres
	SW $\frac{1}{4}$ SE $\frac{1}{4}$	33 acres
	SE $\frac{1}{4}$ SE $\frac{1}{4}$	33 acres
	Total	132 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 D A Olson & Sons LLC, 31725 455th Ave., Meckling SD 57069-4423 the holder and/or owner of Water Right No. 6783-3 is issued a license to appropriate water, the right to use 1.78 cubic feet of water per second from ground water, one well (Missouri Elk Point Aquifer) with a priority date of December 6, 2006 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. 6793-3 and subject to the following qualifications:

- 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.
- The well authorized by Permit No. 6783-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. *The well was drilled by Hammond-Wetmore Drilling in March, 2007. A copy of the well completion report is on file with the Water Rights Program.*
- 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

