

WATER PERMIT NO. 6901-3

Name of Applicant: **Wade A Larson**

Address: **PO Box 276, Vermillion SD 57069**

Phone: **605 670-1457**

Amount of Water Claimed: **6.86 cfs**

Total Acres: **480**

Source of Water Supply: **groundwater (3 wells)**

Water to be used for: **irrigation**

County: **Yankton** *Clay*

Type of Waste Disposal System:

Location: **9 miles northwest of Vermillion**

PRIORITY

Date Received: **10-04-07**

Application/License Fee: **\$425**

Corrected Application Received:

Period of Annual Use: **April 1 – October 31**

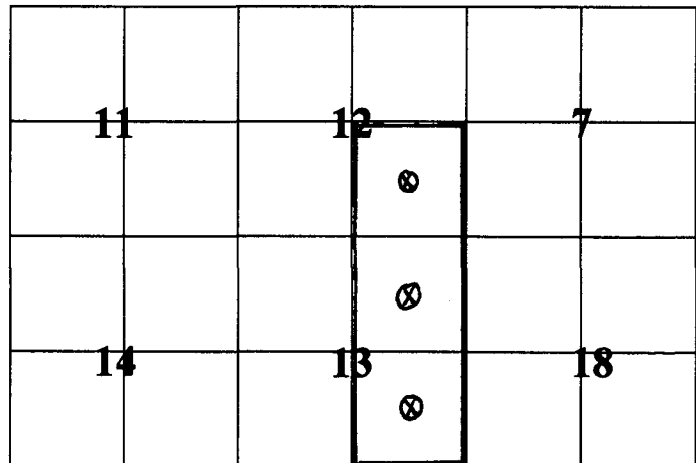
Remarks:

Diversion Point: **Centers of SW ¼ Sec 12 and SE**

¼ and NE ¼ Sec 13; all in T94N-R54W

Land to be Irrigated: **E ½ Sec 13 and SE ¼ Sec 12;**

all in T94N-R54W



Depth of Well: **100 feet deep**

Well Driller: :

Remarks:

Type of Map: **aerial**

Prepared by: **Debra Eilers, Yankton Co FSA**

Reviewed and the Number Assigned on: **10-04-07**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

FORM 2: Application for irrigation in South Dakota
(type or print)

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6901-3</u> (office use only) Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u>
	Newspaper <u>Plain Talk</u> PO Box <u>256</u>
	<u>605-624-2695</u> <u>Vermillion 57069</u>

RECEIVED
OCT - 4 2007
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.)

1. Name of Applicant Wade A. LARSON Phone 670-1457
(check one) ☒ Owner ☐ Tenant/lessee
- Mailing Address P.O. Box 376 Vermillion State SD 57009
(Street, RR, or Box and City) (Zip Code)
2. Amount of water claimed 6.86 ~~4.59~~ CFS or 4.59 **GPM ***AF Total Acreage 320480
(*Cubic Feet per Second) (**Gallons per Minute) (***) Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply groundwater (3 wells)
4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County CLAY
SE 1/4 Section 12 SE 1/4 Section 13 T93N - R53 - W
NE 1/4 Section 13
5. County or counties where water will be used CLAY
6. Annual period during which water is to be used April 1 - Oct. 31
7. 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
SE 1/4 Sec 12	160		
SE 1/4 Sec 13	160		
NE 1/4 Sec 13	160		
all in T93N R53W			

8. Give a description of the project. (Attach sheet if more space is needed)

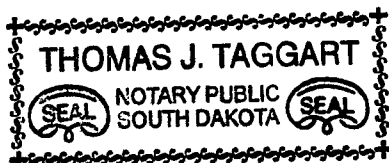
STATE OF SOUTH DAKOTA) SS
County of CLAY

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, Wade A. Larson, 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 Wade A. Larson

Subscribed and sworn to before me this 2nd day of Oct. 20 07



[Signature]
Notary Public signature
May 24 2007

**SOUTH DAKOTA
WATER PERMIT NO. 6901-3**

Date of first receipt of application October 4, 2007.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6901-3 to Wade A Larson, PO Box 376, Vermillion SD 57069 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. 6901-3 appropriates 6.86 cubic feet of water per second from three wells to be completed into the Missouri:Elk Point Aquifer (approximately 100 feet deep) located in centers of the SE ¼ Section 12, SE ¼, NE ¼ Section 13 to irrigate 480 acres located in the SE ¼ Section 12 and E ½ Section 13; 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 October 4, 2007.
4. The date of approval of Permit No. 6901-3 is November 26, 2007.
5. One-fifth of the construction is to be completed on or before May 26, 2010.
6. All construction is to be completed on or before November 26, 2012.
7. Water is to be put to beneficial use on or before November 26, 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

4. The wells 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.
5. The wells authorized by Permit No. 6901-3 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.
6. 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

DEC 17 2007

date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth 100
- b) Casing Type plastic Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others _____

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

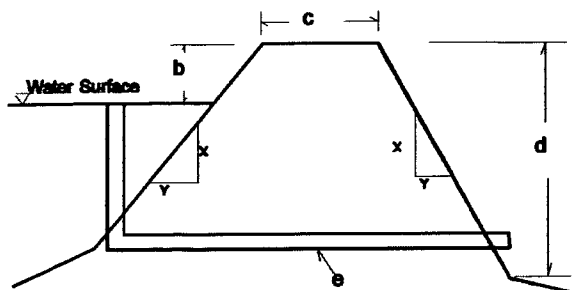
3. Dugout Information

- 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



USDA **USDA**
Farm Service Agency

South Dakota
Clay County

12-93N-53W

May 22, 2007



Legend

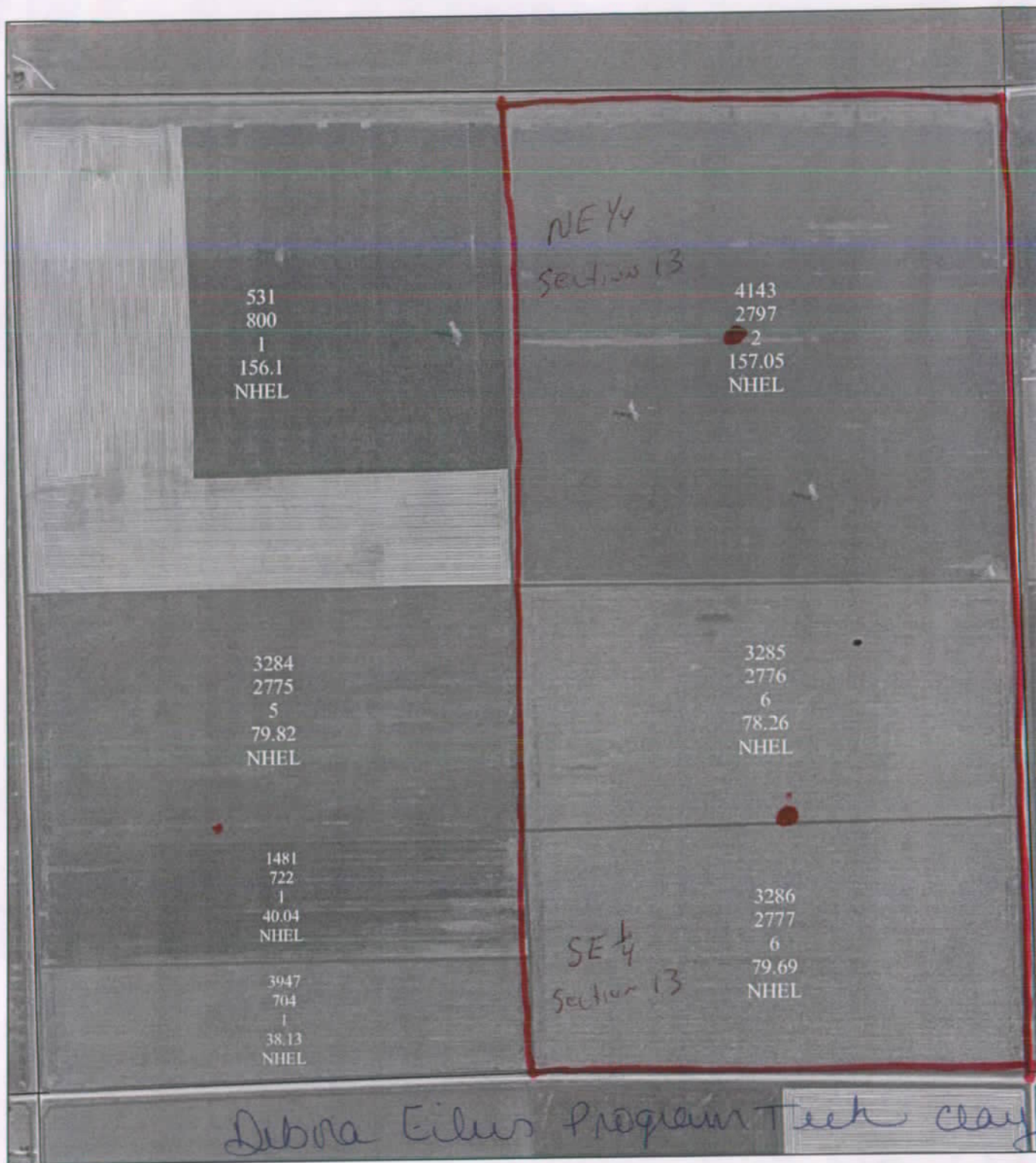
- Tract Boundaries
- Section-Township-Range
- Easements
- CRP
- Common Land Units
- Rangeland

Wetland Determination Identifiers

- Restricted Use
- Limited Restrictions
- Exempt from Conservation Compliance Provisions

USDA FSA maps are for FSA Program administration only. There is no guarantee or representation to the user as to the accuracy, currency, suitability or reliability. FSA MAPS DO NOT REPRESENT A LEGAL SURVEY. The user accepts the data 'as is' and assumes all risks associated with its use. Wetland points reflect records available with NRCS and may or may not constitute a full inventory of the property. The USDA Farm Service Agency assumes no responsibility for actual or consequential damage incurred as a result of any user's reliance on this data. Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original determination (CPA -026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

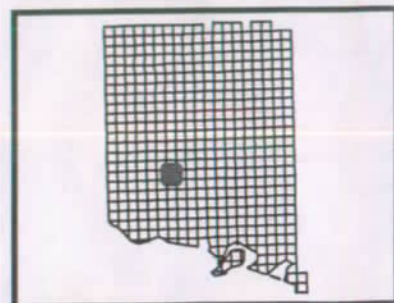
1:8,838



United States Department of Agriculture
Farm Service Agency



South Dakota
Clay County
13-93N-53W



1:8,833

February 28, 2007

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 10/4, 20 07

RECEIVED OF 3WS Farma Wade Larson 31377 454TH Ave Meckling SD 57069

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

Fee for Application for Permit No. <u>071013</u> to Appropriate Water, to construct and to put water to beneficial use	375	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>071013</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	425 00

No.

03177

By

[Signature]

Chief Engineer



**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. 6901-3, Wade A Larson**

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. 6901-3, Wade A. Larson, PO Box 376, Vermillion SD 57069.

The Chief Engineer is recommending APPROVAL of Application No. 6901-3 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 wells 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 wells authorized by Permit No. 6901-3 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
October 26, 2007

REPORT ON WATER PERMIT APPLICATION NO. 6901-3

For Wade A. Larson

October 18, 2007

Application No. 6901-3 proposes to appropriate 6.86 cfs (3,080 gpm) from three wells approximately 100 feet deep located in the centers of the SE ¼ of section 12, the SE ¼ and NE ¼ of section 13 to irrigate 480 acres located in the SE ¼ of section 12 and the E ½ of section 13; 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. The aquifer underlies 74,500 acres and contains an estimated 1.117 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 both the Vermillion and Missouri Rivers. Ground water movement is from northwest to southeast in the area of this application (Christensen, 1967). The hydrogeologic map in the Christensen report indicates the aquifer should be 75 to 125 feet thick in this area. Christensen described the aquifer as follows "On the floodplains of the Missouri and Vermillion Rivers the outwash is overlain by alluvium--- gravel, sand, silt, and clay that was transported by the rivers and deposited at places where the velocity of the water was insufficient to maintain the materials in motion. Much of the floodplain alluvium is permeable and forms a single aquifer with the underlying outwash" (Christensen, 1967).

No test wells were drilled for this application. The information available from the county study, area domestic and irrigation wells and the observation wells all indicates the aquifer is present at this site.

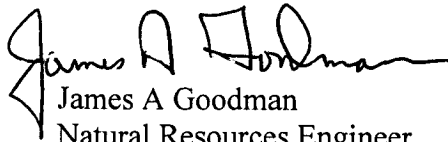
The Water Rights Program monitors an observation well CL-80A that is located immediately adjacent to the application. Water level records for this well show good response to climatic conditions that is rising water levels during wet periods (recharge) and gradually declining water levels during dry years. The water level record indicates the aquifer is capable of sustaining additional withdrawals (Water Rights, 2007). A hydrograph for this observation well is included with this report.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

The nearest existing Water Permits are No. 6611-3 (about one-half mile northwest) and No. 6647-3 (about one-half mile south) from one of the proposed wells. Interference is not a concern. Drawdown created by pumping will not be significant at this distance. This is also shown by the observation well record. Also there have never been any reported water availability problems for the Missouri Elk Point aquifer in Clay County.

CONCLUSIONS

1. Water is available from the Missouri Elk Point aquifer.
2. The aquifer appears to behave like it is under water table conditions. Until a test well is drilled it can not be determined if a well would be water table or artesian at these sites. It is not anticipated that drawdown created by pumping will be significant nor cause any adverse effect. Interference is not a concern.
3. The wells authorized by this application must be constructed in accordance with SD Well Construction Standards.


James A Goodman
Natural Resources Engineer

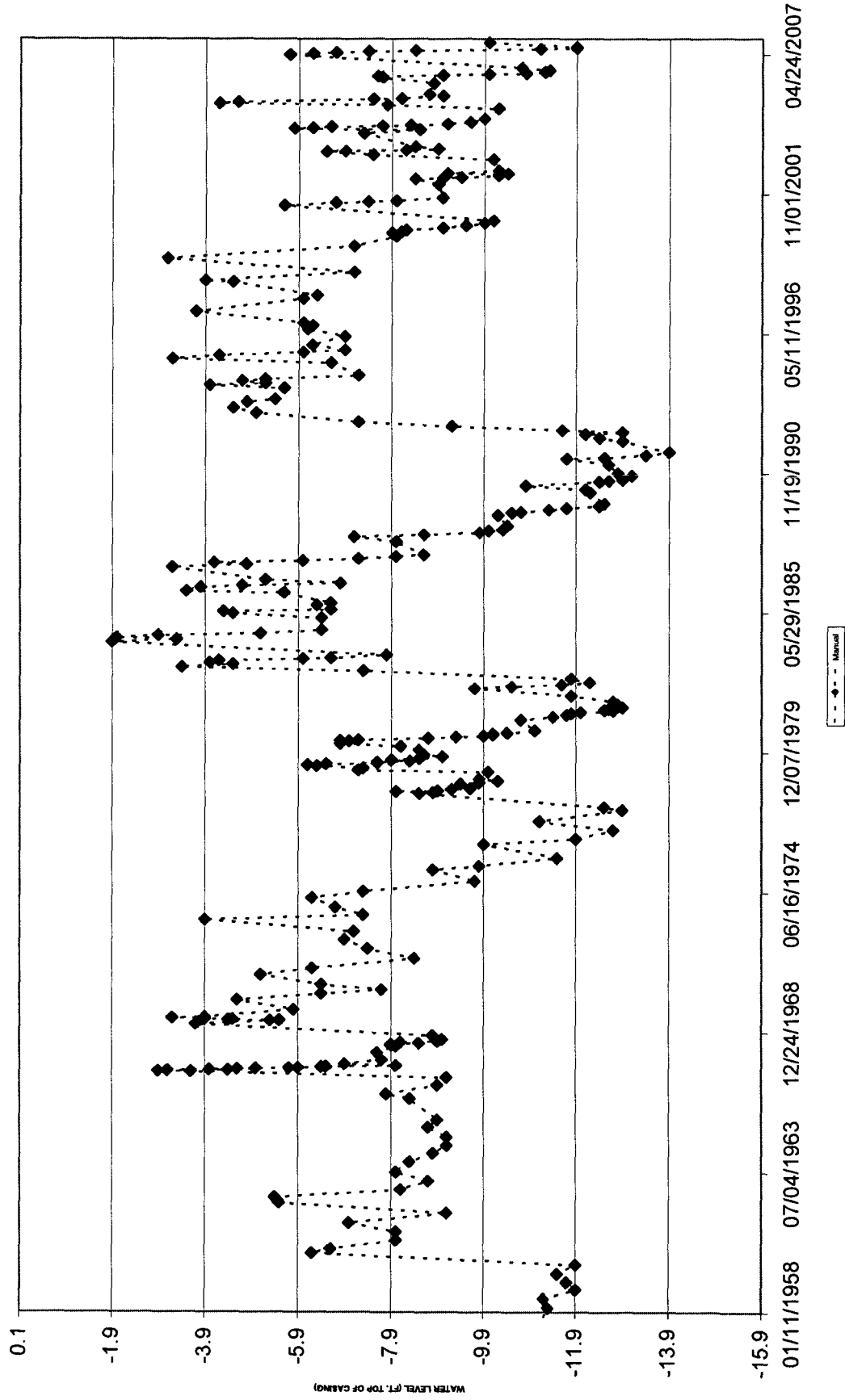
BIBLIOGRAPHY

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

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

Water Rights, 2005, Unpublished Observation Well Data for Clay County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
CL-80A



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. 6901-3 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 9th day of November, 20 07, and that the succeeding publications were severally

on Friday, the 16th day of November, 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-nine dollars and 33 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 20th day of November, 20 07

Arcane Kovic

EXP. 4-5-2013

RECEIVED
NOV 26 2007
WATER RIGHTS
PROGRAM
Notary Public

NOTICE OF APPLICATION NO. 6901-3 to Appropriate Water

Notice is given that Wade A. Larson, PO Box 378, Vermillion, SD 57069 has filed an application for a water permit to appropriate 0.90 cubic

feet of water per second from three wells to be completed into the Missouri River Aquifer (approximately 100 feet deep) located in the centers of the SE 1/4 Section 12, SE 1/4, NE 1/4 Section 13 to irrigate 480 acres located in the SE 1/4 Section 12 and E 1/2 Section 13, all in T96N-R23W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6901-3 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 this 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 this 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 recommendations 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, Pows Building, 523 E Capitol, Pierre SD 57501-0005-733-3552" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by November 30, 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 Groshund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pimen, Secretary, Department of Environment and Natural Resources.

Publish: November 9 & 16, 2007

RECEIVED

NOV 26 2007

WATER RIGHTS
PROGRAM



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

October 29, 2007

Plain Talk
PO Box 256
Vermillion SD 57069

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6901-3 to Appropriate Water to be published twice. Please publish the first notice on November 9, 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 Wade A Larson, PO Box 376, Vermillion SD 57069 (Ph # 605-670-1457).

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. 6901-3

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

Date _____

We are in receipt of your letter of October 29, 2007 enclosing Notice to Appropriate Water by Application No. 6901-3 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.

October 29, 2007

Wade A Larson
PO Box 376
Vermillion SD 57069

Dear Mr. Larson:

Water Permit Application No. 6901-3 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 report on the application is 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 applications.

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 November 9, 2007 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6901-3 to Appropriate Water

Notice is given that Wade A Larson, PO Box 376, Vermillion SD 57069 has filed an application for a water permit to appropriate 6.86 cubic feet of water per second from three wells to be completed into the Missouri:Elk Point Aquifer (approximately 100 feet deep) located in the centers of the SE ¼ Section 12, SE ¼, NE ¼ Section 13 to irrigate 480 acres located in the SE ¼ Section 12 and E ½ Section 13; all in T93N-R53W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6901-3 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 this 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 this 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 recommendations 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 November 26, 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.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

DEC 17 2007

Wade Larson
PO Box 376
Vermillion SD 57069

Dear Mr. Larson:

Enclosed are Water Permit Nos. 6900-3 & 6901-3 authorizing construction of your water diversion systems and beneficial use of the water, not exceeding the limits as specified in the Water Permits.

Form 10's, *Notice of Completion of Works and Application of Water to Beneficial Use*, are enclosed. Please return the completed forms after you have finished the systems and have put the water to beneficial use. An investigation can then be scheduled so the water licenses 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



6901-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 23, 2009

NOTICE

TO: WADE A LARSON, PO BOX 376, VERMILLION, SD 57069 0376
FROM: Ron Duvall, Natural Resources Engineer
for Garland Erbele, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2008 Irrigation Questionnaire(s)

Our records indicate that the 2008 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 6770-3, 6900-3 & 6901-3. The request for the Questionnaire was dated October 24, 2008. The Water Management Board has directed that owners of water permits who have not submitted the 2008 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 6770-3, 6900-3 & 6901-3 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at **10:00 am, March 11, 2009** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 6770-3, 6900-3 & 6901-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

The hearing is an adversary proceeding. The permit owner 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. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

If the questionnaire(s) is (are) received in this office on/or before **March 6, 2009**, you will no longer be in violation of your permit and your name will be deleted from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Genny McMath at (605) 773-3352. If you prefer, you can complete the questionnaire on-line at the following link:

<https://www.state.sd.us/eforms/secure/eforms/E0455V7-IQ.pdf>

NOTE: Please contact the Water Rights Program, Joe Foss Building, 523 E Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.

6901-3

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Label/Receipt Number: 2303 2160 0000 0802 7057
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WADE A LARSON
PO BOX 376
VERMILLION SD 57069 0376

Waiver of Signature ☐ YES ☐ NO

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(See Reverse)



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

February 5, 2009

6770-3
6900-3
6901-3

Wade A Larson
PO Box 376
Vermillion SD 57069-0376

Dear Mr. Larson:

I am writing to acknowledge receipt of your 2008 irrigation questionnaires. You may disregard the January 23, 2009, "Notice" concerning reporting requirements for Water Permit Nos. 6770-3, 6900-3 and 6901-3.

The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

SOUTH DAKOTA WATER WELL COMPLETION REPORT

6901-3

11-02

Location nw $\frac{1}{4}$ se $\frac{1}{4}$ Sec 12 Twp 93n Rg 53w

County

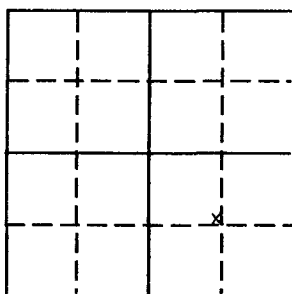
Clay

North

Please mark well location with an "X"

W

E



Well Completion Date

5/11/2008

1 Mile

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

? 5,000.0 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:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	16.00 IN	0.0 FT	72.0 FT	22.00 IN

LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
bent grt	30	9.5 Lb/gal	0.0 Ft	68.0 Ft

Describe grouting procedure
tremie

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16.00 Inches Length 40.0 FeetMaterial pvcSlot Size 0.080 Set From 72.0 Feet to 112.0 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: Wade Larson

Business Name:

Address: 501 Oakmont DriveCity, State, Zip: Vermillion SD 57069

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Clay, brown silty,	0	7
silt, gray, sandy	7	32
Sand, fine	32	67
Gravel, med to coarse, sandy	67	115

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

27.0 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
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:

12/10/08

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location sw $\frac{1}{4}$ ne $\frac{1}{4}$ Sec 13 Twp 93n Rg 53w

County

Clay

North

Please mark well location with an "X"

W

E

Well Completion Date

5/11/2008

1 Mile

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

5,000.0 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:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT LB/FT	DIAMETER IN	FROM FT	TO FT	HOLE DIAMETER IN
	16.00	0.0	34.0	22.00

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight Lb/gal	From Ft	To Ft
bent grt	11	9.5	0.0	30.0

Describe grouting procedure
tremie

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16.00 Inches Length 30.0 FeetMaterial pvcSlot Size 0.080 Set From 34.0 Feet to 64.0 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: Wade Larson

Business Name:

Address: 501 Oakmont DriveCity, State, Zip: Vermillion SD 57069

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Clay, brown silty,	0	7
silt, gray, sandy	7	32
Sand, coarse, pebbly	32	70

STATIC WATER LEVEL 16.0 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

27.0 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 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:

12/10/08

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location nw $\frac{1}{4}$ se $\frac{1}{4}$ Sec 13 Twp 93n Rg 53w

County

Clay

North

Please mark well
location with an "X"

W

E

Well Completion Date

5/12/2008

1 Mile

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

2,300.0 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:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT LB/FT	DIAMETER IN	FROM FT	TO FT	HOLE DIAMETER IN
	16.00	0.0	66.0	22.00

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight Lb/gal	From Ft	To Ft
bent grt	18	9.5	0.0	60.0

Describe grouting procedure
tremie

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16.00 Inches Length 40.0 FeetMaterial pvcSlot Size 0.080 Set From 66.0 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: Wade Larson

Business Name:

Address: 501 Oakmont DriveCity, State, Zip: Vermillion SD 57069

WELL LOG:

DEPTH

FORMATION	FROM	TO
Clay, brown silty, pebbly	0	7
silt, gray, sandy	7	42
sand, fine to medium	42	59
Gravel, fine, sandy	59	110

STATIC WATER LEVEL 19.0 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
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: 12/10/08



6901-3
DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

January 24, 2012

NOTICE

TO: WADE A LARSON, PO BOX 376, VERMILLION, SD 57069 0376
FROM: Ron Duvall, Natural Resources Engineer
for Garland Erbele, Chief Engineer
Water Rights Program

SUBJECT: Reporting Requirement for 2011 Irrigation Questionnaire(s)

Our records indicate that the 2011 Irrigation Questionnaire(s) has not been submitted for Permit No(s) 6770-3, 6900-3 & 6901-3. The request for the Questionnaire was dated October 14, 2011. The Water Management Board has directed that owners of water permits who have not submitted the 2011 Irrigation Questionnaire(s) be given notice of permit violation and a hearing to be held by the Board. The hearing is to determine what action is to be taken for violation of Water Permit No(s) 6770-3, 6900-3 & 6901-3 qualification:

"This permit is approved subject to the Irrigation Water Use Questionnaire being submitted each year."

The hearing will be held at **10:00 am, March 7, 2012** in the Floyd Matthew Training Center, Joe Foss Building, 523 E Capitol Avenue, Pierre, SD and will be conducted pursuant to SDCL 46-1-12, 46-1-14, 46-2-9, 46-2-11 and 46-2-17. These are contested case hearings pursuant to Chapter 1-26. According to SDCL 46-1-12, the Board may suspend a permit for a period of up to one year for the first violation of a permit qualification or up to three years for a second violation, or cancel a permit for a third violation. Following the hearing, the Water Management Board can:

1. Suspend or cancel Permit No(s) 6770-3, 6900-3 & 6901-3 in accordance with applicable provisions of SDCL 46-1-12;
2. Postpone any action; or
3. Take no action.

The hearing is an adversary proceeding. The permit owner 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. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

If the questionnaire(s) is (are) received in this office on/or before **March 2, 2012**, you will no longer be in violation of your permit and your name will be removed from the Board agenda. Enclosed are additional questionnaire(s) for your use. If you have questions or need assistance, please contact Genny McMath at (605) 773-3352 or email at genny.mcmath@state.sd.us. If you prefer, you can complete the questionnaire online at the following link: <http://denr.sd.gov/iq.aspx>

NOTE: Please contact the Water Rights Program, Joe Foss Building, 523 E Capitol, Pierre, SD (605-773-3352) to assure access to the meeting room for the handicapped or to obtain an interpreter for the hearing impaired.

6901-3



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.denr.sd.gov

January 26, 2012

6770-3
6900-3
6901-3

Wade A Larson
PO Box 376
Vermillion SD 57069 0376

Dear Mr. Larson:

I am writing to acknowledge receipt of your 2011 irrigation questionnaires.

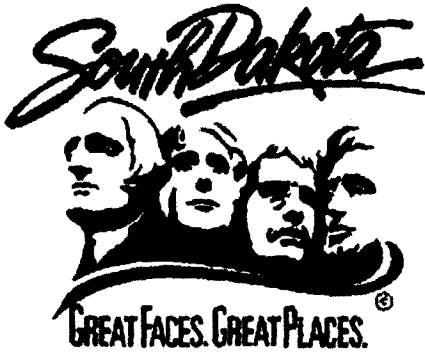
You may disregard the January 24, 2012, "Notice" concerning reporting requirements for Water Permit Nos. 6770-3, 6900-3 and 6901-3. The information was received in our office prior to the Water Management Board meeting and your name has been deleted from the agenda.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads 'Genny McMath'.

Genny McMath
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
www.denr.sd.gov

June 20, 2012

6901-3

Tom Dreesen
31250 457th Ave
Meckling SD 57069

Dear Mr. Dreesen:

I am writing in follow-up to your phone conversation with Eric Gronlund in our program. It is my understanding that the land described in Water Permit No. 6901-3 held by Wade Larson was purchased by you and Gary & Amy Freeburg.

Enclosed are partially completed Notice of Transfer of Ownership forms for filing the ownership changes. Upon completion, the forms need to be returned to our office a required filing fee of \$50.00 (for each transfer). The check or money order for the fee can be made payable to the Water Rights Program.

I included a copy of the permit for both you and the Freeburg's with the breakdown of acreage according to ownership. Once the transfer forms and fees are received, Water Permit No. 6901-3 will be divided and reissued into 6901A-3 and 6901B-3 to reflect separate ownership.

If I can answer any questions for you, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Genny McMath". The signature is written in a cursive, flowing style.

Genny McMath
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

enclosures

WATER PERMIT NO. 6901-3

Ownership changes were filed by Thomas Dreesen and Gary & Amy Freeburg for land described Water Permit No. 6901-3.

Water Permit No. 6901-3 appropriates 6.86 cubic feet of water per second (cfs) from three wells to be completed into the Missouri Elk Point Aquifer (approximately 100 feet deep) located in the centers of the SE $\frac{1}{4}$ Section 12, SE $\frac{1}{4}$ and NE $\frac{1}{4}$ Section 13 to irrigate 480 acres located in the SE $\frac{1}{4}$ Section 12 and E $\frac{1}{2}$ Section 13, all in T93N, R53W.

Based on ownership changes filed, Water Permit No. 6901-3 is being divided and reissued as follows:

Water Permit No. 6901A-3: Gary & Amy Freeburg – appropriates 2.29 cfs from one well to be completed into the Missouri Elk Point Aquifer (approximately 100 feet deep) located in the center of the SE $\frac{1}{4}$ Section 12 to irrigate 160 acres located in the SE $\frac{1}{4}$ Section 12, all in T93N, R53W.

Water Permit No. 6901B-3: Thomas Dreesen – appropriates 4.57 cfs from two wells to be completed into the Missouri Elk Point Aquifer (approximately 100 feet deep) located in the centers of the SE $\frac{1}{4}$ and NE $\frac{1}{4}$ Section 13 to irrigate 320 acres located in the E $\frac{1}{2}$ Section 13, all in T93N, R53W.