

WATER PERMIT NO. 6641-3

Name of Applicant: Thomas Dreesen

Address: 31250 457th Ave, Meckling SD 57069

Phone: 605 624-7611

Amount of Water Claimed: 2.0

Total Acres: 140

Source of Water Supply: groundwater (1 well)

Water to be used for: irrigation

County: Clay

Type of Waste Disposal System:

Location: 1 miles northeast of Meckling

PRIORITY

Date Received: 8-10-05

Application/License Fee: \$300

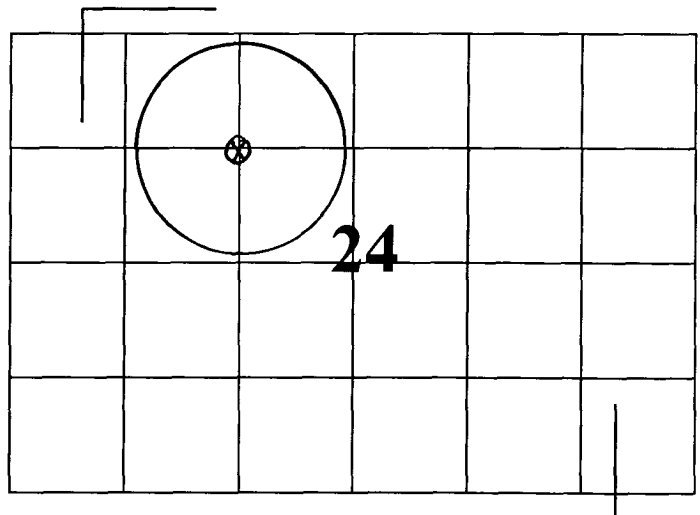
Corrected Application Received:

Period of Annual Use: April 1 – October 31

Remarks:

Diversion Point: center of NW ¼ Sec 24-T93N-
R53W

Land to be Irrigated: NW ¼ Sec 24-T93N-R53W



Depth of Well: 90 – 120 feet deep

Well Driller:

Remarks:

Type of Map: topo

Prepared by: Eric Gronlund

Reviewed and the Number Assigned on: 8-10-05

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>6641-3</u> (office use only)	Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u>	
	Newspaper <u>Plain Talk, Vermillion</u>	

RECEIVED
AUG 10 2005
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 Thomas Dreesen Phone (605) 624-7611
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 31250 457th Avenue Meckling State SD 57069
(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 Feet - 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 _____
approximate center of NW 1/4 Section 24, T93N, R53W
- County or counties where water will be used Clay
- Annual period during which water is to be used April 1 - 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 1/4 NW 1/4 Section 24, T93N, R53W	35		
NE 1/4 NW 1/4 Section 24, T93N, R53W	35		
SW 1/4 NW 1/4 Section 24, T93N, R53W	35		
SE 1/4 NW 1/4 Section 24, T93N, R53W	35		

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

Drill a new well at the center point in NW quarter in Section 24. Irrigate cropland with center pivot. Would like to drill well in November

STATE OF SOUTH DAKOTA) SS
County of Hughes

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, Thomas Dreesen, 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.

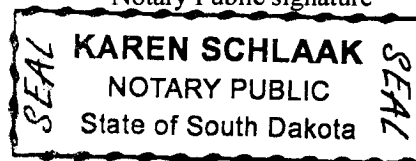
Applicant's signature Thomas Dreesen

Subscribed and sworn to before me this 10th day of August 20 05

Karen Schlaak

Notary Public signature

My Commission Expires
April 1, 2007



**SOUTH DAKOTA
WATER PERMIT NO. 6641-3**

Date of first receipt of application August 10, 2005.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6641-3 to Thomas Dreesen, 31250 457th Ave, Meckling 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. 6641-3 appropriates 2.0 cubic feet of water per second from one well to be completed into the Missouri:Elk Point Aquifer (approximately 90 - 120 feet deep) located in the center of the NW ¼ Section 24 to irrigate 140 acres located in the NW ¼ Section 24; 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 August 10, 2005.
4. The date of approval of Permit No. 6641-3 is October 17, 2005.
5. One-fifth of the construction is to be completed on or before April 17, 2008.
6. All construction is to be completed on or before October 17, 2010.
7. Water is to be put to beneficial use on or before October 17, 2014.
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. 6641-3 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

NOV 07 2005

date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter _____ Depth 90 - 120
- b) Casing Type plastic Diameter 16 Thickness _____
- c) Screen Type plastic Diameter 16 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 none On property owned by others Freeburg irrigation well

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

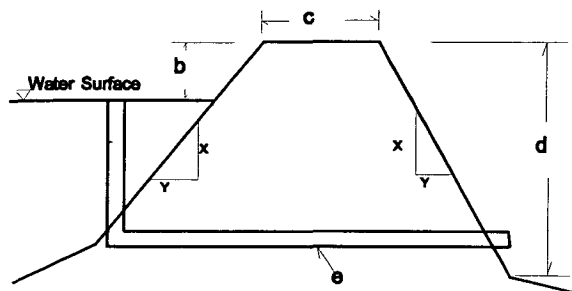
3. Dugout Information

- 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

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date August 10, 20 05

RECEIVED OF Gary Freeburg, Box 188, Gayville SD 57031 (Ton)

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

Fee for Application for Permit No. <u>6647-3</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>6647-3</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

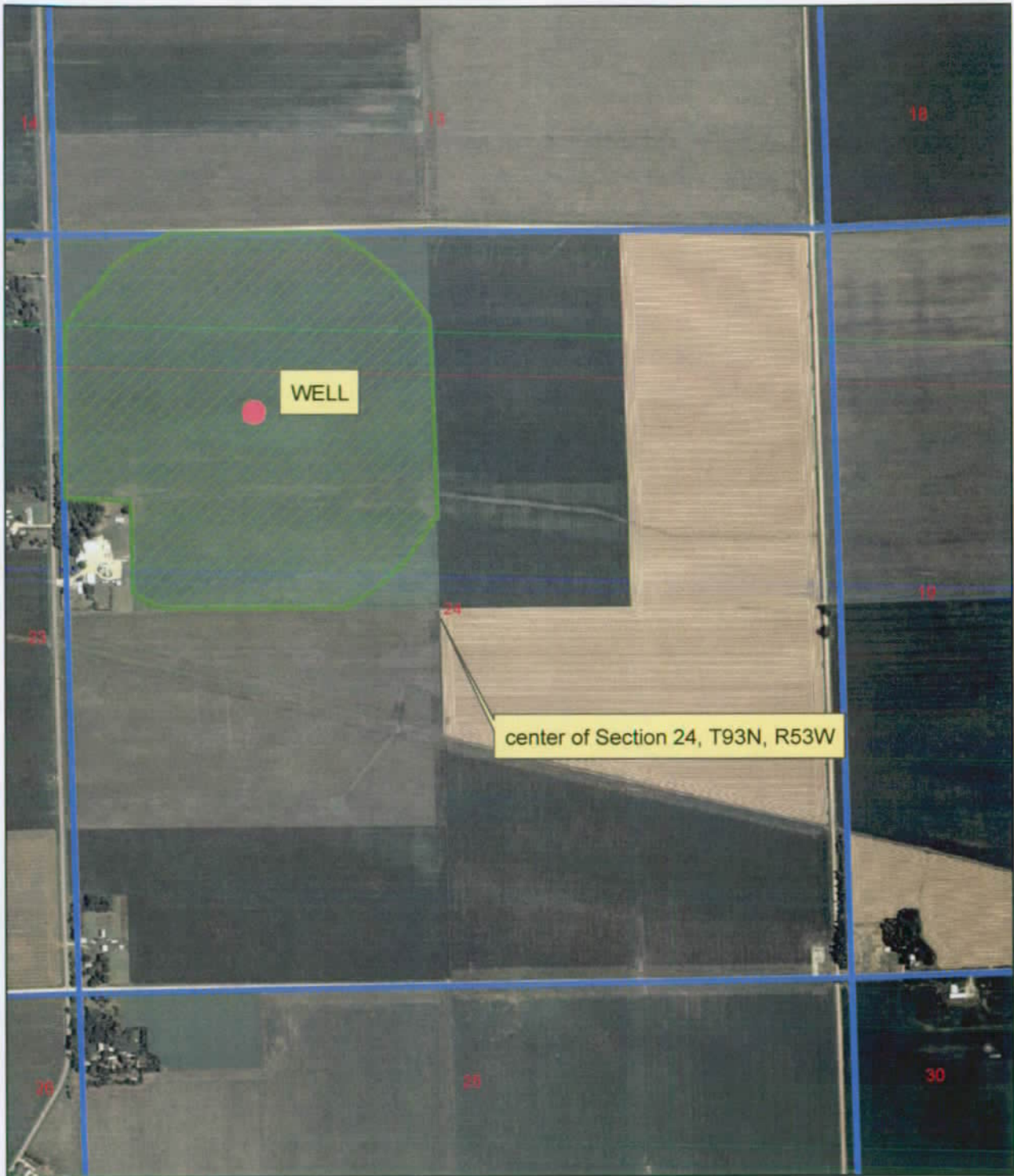
No. 001917

By

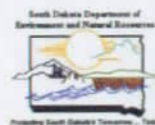
Darlene Eide

Chief Engineer

gm



2,000 1,000 0 2,000 Feet



Eric Gronlund
Eric Gronlund
Water Rights Program, DENR

REPORT ON WATER PERMIT APPLICATION NO. 6641-3

For Thomas Dreesen

September 2, 2005

Application No. 6641-3 proposes to appropriate 2.0 cfs (900 gpm) from one well approximately 120 feet deep located in the center of the NW ¼ of section 24 to irrigate 140 acres located in the NW ¼ of section 24; 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 but locally can be under artesian conditions. 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, Yankton County to the west, blends into the Upper Vermillion Missouri aquifer to the north and is hydraulically connected to both the Missouri and Vermillion rivers. Also, further east the Missouri Elk Point aquifer directly overlies the Dakota Formation and water from the Dakota is leaking upward into the Missouri Elk Point aquifer in this area. Ground water movement is from northwest to southeast in the area of the application (Christensen, 1967). The hydrogeologic map prepared by Christensen reports the aquifer should be 100 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 in the area all indicate that the aquifer is present at this site and should be capable of producing the amount of water needed for this application.

The Water Rights Program monitors two observation wells, CL-80G and CL-80A, located about four miles east and three miles north of this application respectively. 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. Pumping does not appear to affect the water levels to any significant extent. Hydrographs for these two observation wells are included with this report (Water Rights, 2005). In general, the water level record indicates that the aquifer is capable of sustaining additional withdrawals.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are two existing irrigation wells within a one mile radius of this application. Interference is not a concern. Drawdown created by pumping should not be significant.

not be significant. The distance between the two permitted wells and this application is sufficient to minimize any potential impacts.

CONCLUSIONS

1. Water is available from the Missouri Elk Point aquifer.
2. The aquifer may be under artesian conditions at this site, however, the behavior of the aquifer will be more like a water table situation. Drawdown is not expected to be significant nor adverse. Interference is not a concern. Historically there have never been any disputes or complaints over water availability from this aquifer in this area.
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.
4. Even though test holes or wells were not constructed for this application there is sufficient information availability to assess this application.
5. There is a group of seven applications for water from the Missouri Elk Point aquifer in this area. The priority date for this collective group will be determined by the order of application or in other words in order by the permit number.



James A Goodman
Natural Resources Engineer

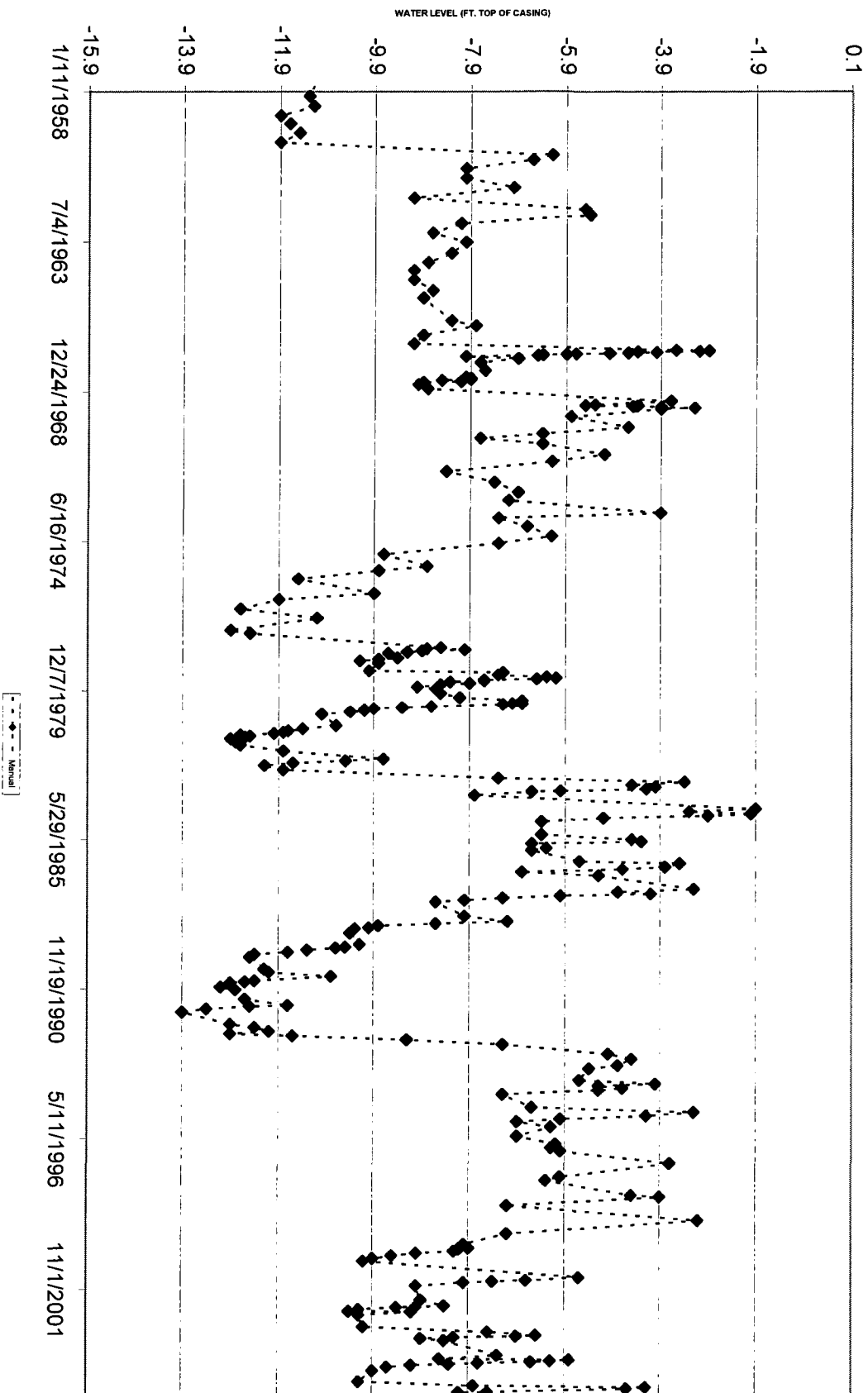
BIBLIOGRAPHY

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 SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Water Rights, 2005, Unpublished Observation Well Data for the Missouri Elk Point Aquifer, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL CL-80A



WATER LEVEL (FT. TOP OF CASING)

Legend:
 - - - - - Manual
 - - - - - Automatic

Date	Water Level (ft. top of casing)
8/22/1980	-92.6
5/19/1983	-92.6
2/12/1986	-92.6
11/8/1988	-92.6
8/5/1991	-92.6
5/1/1994	-92.6
1/25/1997	-92.6
10/22/1999	-92.6
7/18/2002	-92.6
4/13/2005	-92.6

Manual



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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www.state.sd.us/denr

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6641-3, Thomas Dreesen**

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. 6641-3, Thomas Dreesen, 31250 457th Avenue, Meckling SD 57069.

The Chief Engineer is recommending APPROVAL of Application No. 6641-3 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 qualification:

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. 6641-3 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
September 16, 2005



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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www.state.sd.us/denr

September 19, 2005

Scott Heine
Heine Electric & Irrigation
311 S Robinson Avenue
Hartington NE 68739

Dear Mr. Heine:

The applications that Mr. Dreesen and Mr. Freeburg filed are ready to be public noticed. Please find enclosed a copy of the public notice and the letters that were sent to applicants.

Sincerely,

Eric Gronlund
Water Rights Program, DENR
605 773-3352

enclosures

AFFIDAVIT OF PUBLICATION

State of South Dakota, County of Clay, ss.

Shani Bonner

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 APPLICATIONS TO APPROPRIATE WATER

THOMAS DRESEN

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 23rd day of September 20 05, and that the succeeding publications were severally

on Friday, the 30th day of September, 20 05,

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

Forty-three _____ dollars and 23 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.

Shani Bonner

Subscribed and sworn to before me
this 30th day of Sept, 20 05

JOAN E. WILLROTH

NOTARY PUBLIC
SOUTH DAKOTA

RECEIVED

OCT - 6 2005

WATER RIGHTS
PROGRAM

Notary Public

My Commission Expires 04/17/2011

NOTICE OF APPLICATION NOS. 6641-3 AND 6642-3 TO APPROPRIATE WATER

Notice is given that Thomas Dreesen, 31250 457th Ave., Meckling, SD 57069 has filed the following applications for a water permit.

Application No. 6641-3 proposes to appropriate 2.0 cubic feet of water per second (cfs) from one well to be completed into the Missouri: Elk Point Aquifer (approximately 90-120 feet deep) located in the center of the NW 1/4 Section 24 to irrigate 140 acres located in the NW 1/4 Section 24; all in T93N-R53W.

Application No. 6642-3 proposes to appropriate 2.0 cfs from one well to be completed into the Missouri: Elk Point Aquifer (approximately 90-120 feet deep) located in the center of the SE 1/4 Section 20 to irrigate 140 acres located in the SE 1/4 Section 20; all in T93N-R53W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6641-3 and 6642-3 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 applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting these applications 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 recommendations. 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 October 17, 2005.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 these applications. *Shani M. Farber, Secretary, Department of Environment and Natural Resources.*
Publish: September 23 & 30, 2005



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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www.state.sd.us/denr

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

September 19, 2005

Thomas Dreesen
31250 457th Avenue
Meckling SD 57069

Dear Mr. Dreesen:

Water Permit Application Nos. 6641-3 & 6642-3 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 recommendations of the Chief Engineer and the reports on the applications 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 applications.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

NOTE: If you plan to contest any part of the Chief Engineer's recommendations, 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 applications.

Instruction to Newspaper - Publish first Notice on September 30, 2005 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NOS. 6641-3 and 6642-3 to Appropriate Water

Notice is given that Thomas Dreesen, 31250 457th Ave, Meckling SD 57069 has filed the following applications for a water permit.

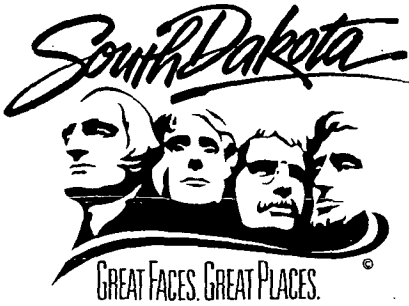
Application No. 6641-3 proposes to appropriate 2.0 cubic feet of water per second (cfs) from one well to be completed into the Missouri:Elk Point Aquifer (approximately 90 - 120 feet deep) located in the center of the NW $\frac{1}{4}$ Section 24 to irrigate 140 acres located in the NW $\frac{1}{4}$ Section 24; all in T93N-R53W.

Application No. 6642-3 proposes to appropriate 2.0 cfs from one well to be completed into the Missouri:Elk Point Aquifer (approximately 90 - 120 feet deep) located in the center of the SE $\frac{1}{4}$ Section 20 to irrigate 140 acres located in the SE $\frac{1}{4}$ Section 20; all in T93N-R53W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6641-3 and 6642-3 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 applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendations. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting these applications 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 recommendations. 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 October 17, 2005.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, 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 these applications. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

September 19, 2005

Plain Talk
PO Box 256
Vermillion SD 57069-0256

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6641-3 & 6642-3 to Appropriate Water to be published twice. Please publish the first notice on September 30, 2005 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 Thomas Dreesen, 31250 457th Ave., Meckling, SD (Ph # 605-624-7611).

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-----

Nos 6641-3 & 6642-3

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

Date _____

We are in receipt of your letter of September 19, 2005 enclosing Notice to Appropriate Water by Application Nos. 6641-3 & 6642-3 which was first published in our issue of _____. **ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.**

Name

Newspaper



NOV 07 2005

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

Thomas Dreesen
31250 457th Ave
Meckling SD 57069

Dear Mr. Dreesen:

Enclosed are Water Permit Nos. 6641-3 and 6642-3 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, *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

**NOTICE OF COMPLETION OF WORKS AND
APPLICATION OF WATER TO BENEFICIAL USE**

Date 8-13-06

TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

RECEIVED

AUG 16 2006

WATER RIGHTS
PROGRAM

FROM:

Thomas Dreesen
(name)31250 457th Ave
(address)Meckling SD 57069
(city, state, zip)605 624-7661
(phone)

I have completed the construction of the water use system and I have put the water to beneficial use to the maximum extent it is going to be used.

Water Permit No. 6641-3 states that the water use system is to be constructed by

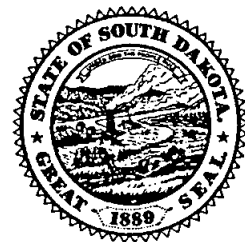
Oct. 17, 2010 , and water is to be put to beneficial use by Oct. 17, 2014 .
(date) (date)

The water use system was completed on June 11, 2006 .
(date)

Applying the water to beneficial use was completed on June 11, 2006 .
(date)

You may schedule an investigation so that the water license may be issued.

Thomas Dreesen
(signature)



2-2-07

Permit No. 6641-3
Missouri River - Water District

Report of Examination of Works and/or Application of Water to Beneficial Use

TO: Chief Engineer, Water Rights Program, DENR, Foss Bldg., Pierre, SD 57501

I have this day, 9/2/2009, made a thorough examination of the water use system constructed by **Thomas Dreesen** of **31250 457th Ave, Meckling SD 57069** holder of Permit No. **6641-3**, bearing the priority of **8/10/2005** authorizing the diversion of **2.0** cu. ft. per second of the waters of the **Missouri Elk Point aquifer** for **irrigation** purposes, in **Clay** County.

Inspection contact & relationship to permit holder, if applicable: **Thomas Dreesen—Permit Holder**

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Hammond-Wetmore Drilling
- 2) No. of Wells 1
- 3) Depth(s) 116 feet
- 4) Well log is available Yes
- 5) Comment: appears to be an adequate well—log on file

Casing:

- 1) Diameter 16 inches
- 2) Length 54 feet
- 3) Type Plastic

Screen:

- 1) Type Manufactured
- 2) Length 60 feet
- 3) Static water level 21 feet

Pump:

- 1) Make American Marsh
- 2) Model Submersible
- 3) Size 30 hp
- 4) Capacity 700 GPM

Motor:

- 1) Make Grundfos
- 2) Model No. 78355518
- 3) Horsepower rating 30 hp

B. Works used to transport water to place of use:

- 1) Type cast iron
- 2) Size 10 inches
- 3) Length ~30 feet

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Valley 8000
- 2) Overall length 1,311.8 feet
- 3) Number of towers 7
- 4) Distance between towers ~185 feet
- 5) End gun Yes
- 6) High or low pressure Low
- 7) Capacity 700 GPM

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
- 3) Exceptions to compliance are: list

The system is in good condition with the point of diversion located as follows: 1,347 feet east and 1,334 feet south of the NW corner of Section 24, Township 93 North, Range 53 West, lat/long N 42.86278 W -97.05737.

The works are capable of diverting and conveying to the place of use 1.56 cu. ft. per second of water of the Missouri Elk Point aquifer which is to be used for crop irrigation. Water has been put to beneficial use to the maximum extent as follows:

Report of Examination of Works

Permit No. 6641-3

NW ¼ NW ¼ 33 acres
NE ¼ NW ¼ 33 acres
SE ¼ NW ¼ 26 acres
SW ¼ NW ¼ 33 acres

**All in Section 24, Township 93 North, Range 53
West**

comprising a total of 125 acres of land and the license should be issued for 1.56 cfs.

All structures, wells and lands on map Yes

Comments or other permit(s) associated with the project: **None**



Hayes Haas
Natural Resources Engineer
DENR, Water Rights Program

Date report completed: 4/5/2010

Permit No. 6641-3
Thomas Dreesen



Hayes Haas

1,000
Feet

Hayes Haas
Natural Resources Engineer
DENR Water Rights Program
September 2009

South Dakota Department of
Environment and Natural Resources



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APR 29 2010

6641-3

Thomas Dreesen
31250 457th Ave
Meckling SD 57069

Dear Mr. Dreesen:

Enclosed is Water License No. 6641-3. 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. 6641-3, 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,

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

enclosures

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 6641-3**

(1) Thomas Dreesen, 31250 457th Ave, Meckling, SD 57069 made Application No. 6641-3, August 10, 2005 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. 6641-3, with a priority date of August 10, 2005 was approved October 17, 2005 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before October 17, 2010 and for the application to beneficial use of said water on or before October 17, 2014.

The Permit holder submitted a "*Notice of Completion of Works and Application of Water to Beneficial Use*" on August 16, 2006. The "*Notice*" stated the water use system was completed and water placed to beneficial use on June 11, 2006.

(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 1.56 cubic feet of water per second for beneficial use. The location of the diversion point is 1,347 feet east and 1,334 feet south of the NW corner of Section 24, T93N, R53W (approximate center of the NW ¼).

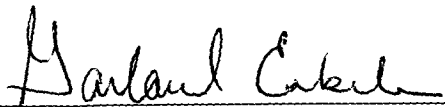
(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

T93N, R53W Section 24	NW ¼ NW ¼	33 acres
	NE ¼ NW ¼	33 acres
	SE ¼ NW ¼	26 acres
	SW ¼ NW ¼	33 acres
	Total	125 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Thomas Dreesen, 31250 457th Ave, Meckling, SD 57069 the holder and/or owner of Water Right No. 6641-3 is issued a license to appropriate water, the right to use 1.56 cubic feet of water per second from ground water (one well – Missouri:Elk Point Aquifer) with a priority date of August 10, 2005 from the location specified in (2) of this license. The water is to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 6641-3 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. 6641-3 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) from the producing formation to the surface pursuant to Section 74:02:04:28 (*Well drilled by Hammond Wetmore Drilling – log on file with the Water Rights Program.*)
- This Permit is approved subject to the irrigation water use questionnaire being submitted each year.


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

APR 28 2010
date

