

WATER PERMIT NO. 7191-3

Name of Applicant: Roger Blake

Address: 46362 295th St, Centerville SD 57014

Phone: 605 563-2101

Amount of Water Claimed: 1.14 cfs

Total Acres: 80 acres

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation

County: Clay

Type of Waste Disposal System: na

Location: 3 miles southeast of Centerville

PRIORITY

Date Received: 3-25-2010

Application/License Fee: \$750

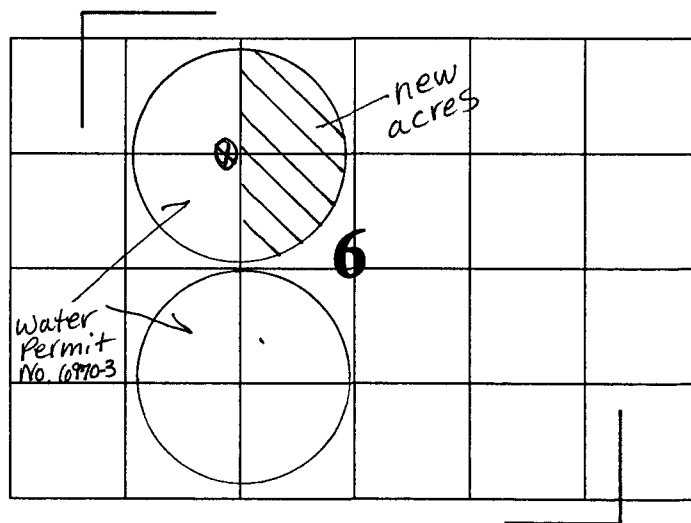
Corrected Application Received:

Period of Annual Use: June 1 – Sept 30

Remarks: Also corrects the location of the well authorized by Water Permit No. 6970-3. Both systems will be utilizing one well.

Diversion Point: W 1.2 NW ¼ Sec 6-T95N-R51W

Land to be Irrigated: E ½ NW ¼ Sec 6-T95N-R51W



Depth of Well: 164 feet deep

Well Driller: Hammond-Wetmore Drilling

Remarks:

Type of Map: aerial

Prepared by: Sheree Christensen, Clay Co FSA

Reviewed and the Number Assigned on: 3-25-10

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

FORM 2: Application for irrigation in South Dakota

(type or print)

Mail to: PMB 2020 DENR - Water Rights 523 E Capitol Ave Pierre, SD 57501-3182 ph. (605) 773-3352	No. <u>7191-3</u> (office use only)	Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u>	
	Newspaper <u>Plain Talk 201 W Cherry St</u>	
	<u>605-624-2695</u> <u>Vermillion 57069</u>	

RECEIVED

MAR 25 2010

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 Roger Blake Phone 605-563-2101(check one) ☒ Owner ☐ Tenant/lessee
 Mailing Address 46362 295th St Centerville SD 57014-6701
 (Address) (City) (State) (Zip Code)

 2. Amount of water claimed add *CFS or no **GPM ***AF Total Acreage 80
 (*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
3. Source of water supply ground water one existing well, permit #6970-3
 4. Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) County Clay
1 well at W 1/2 NW 1/4 of section 06-095-51
5. County or counties where water will be used Clay6. Annual period during which water is to be used June 1st , September 30th
 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
E1/2NW1/4 of Section 06-095-51	80		

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

My son, Nicholas Blake, and I, just acquired the property at auction and would like to use the same irrigator that is on permit # 6970-3 to pivot around and irrigate the new property. We also need to correct the legal description on the location of the well for permit # 6970-3. The driller encountered problems and therefore it was drilled near the center of NW 1/4 of section 06-095-51.

STATE OF SOUTH DAKOTA)

County of Turner) SS

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

 I, Roger Blake, 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 Roger BlakeSubscribed and sworn to before me this 22nd day of March 20 10

Notary Public signature

8/25/12

**SOUTH DAKOTA
WATER PERMIT NO. 7191-3**

Date of first receipt of application March 25, 2010.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 7191-3 to Roger Blake, 46362 295th St, Centerville SD 57014 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. 7191-3 authorizes irrigation of 80 acres located in the E 1/2 NW 1/4 Section 6-T95N-R51W from an existing well authorized by Water Permit No. 6970-3. Water Permit No. 6970-3 appropriates 1.78 cfs from one well completed into the Upper Vermillion:Missouri Aquifer (164 feet deep) to be located in center of the SW 1/4 Section 6 to irrigate 236 acres located in the W 1/2 NW 1/4 and the SW 1/4 Section 6-T95N-R51W. Water Permit No. 6970-3 and this permit utilize the same well identified above and allow the pivot in the NW 1/4 Section 6 to make full rotation. This permit also changes the location of the well authorized by Water Permit No. 6970-3 to reflect the actual location of the well which is located near the center of the NW 1/4 Section 6-T95N-R51W. The permit does not authorize an increase in the diversion rate.
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: June 1 – September 30.
3. The date from which applicant may claim right is March 25, 2010.
4. The date of approval of Permit No. 7191-3 is May 24, 2010.
5. One-fifth of the construction is to be completed on or before November 24, 2012.
6. All construction is to be completed on or before May 24, 2015.
7. Water is to be put to beneficial use on or before May 24, 2019.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

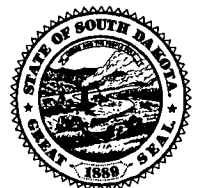
QUALIFICATIONS

1. The well approved under Permit Nos. 6970-3 and 7191-3 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. 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

JUL 14 2010
date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

Well is existing- see file for Permit #6970-3

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ 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 applicant's 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

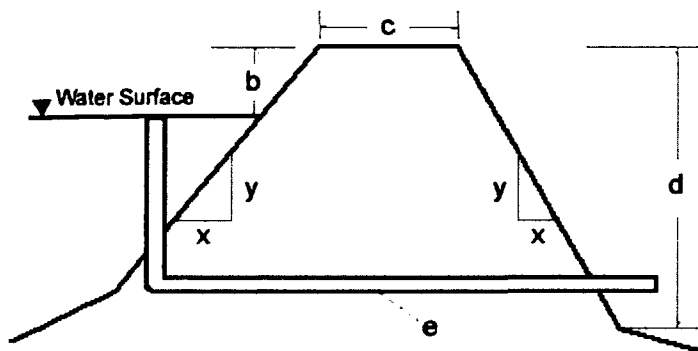
- a) Surface Dimensions _____ Depth _____
- b) Depth to water (ground surface to water level) _____

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.

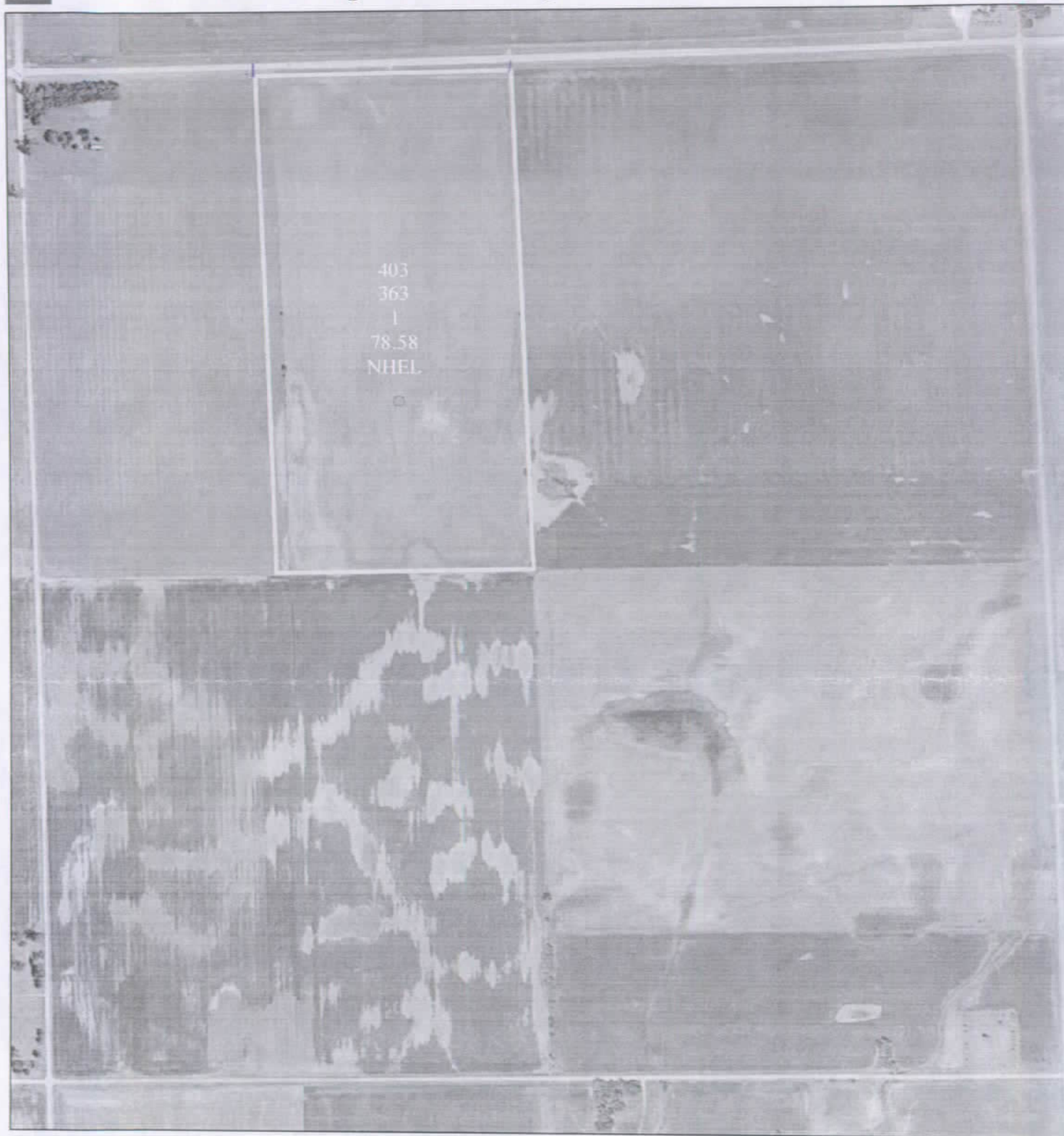
- a) If a private engineering firm or government agency was involved in the design of this dam, please give their name and address:

- 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 (e.g. 3 to 1 is a typical slope)
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage _____ Acre Feet
- j) Drainage Area Above Dam _____ Acres





United States Department of Agriculture Farm Service Agency



South Dakota
Clay County

RECEIVED
MAR 25 2010
WATER RIGHTS PROGRAM

Farm Number
403

Township-Range-Section
95N51W6

Legend

- Restricted Use
- ▽ Limited Restrictions
- Exempt from Conservation Compliance Provisions
- CLU Field Boundary
- Tract Boundary



1:8,200

USDA FSA maps are for FSA Program administration only. This map does not represent a legal survey or reflect actual ownership; rather it depicts the information provided directly from the producer and/or the 2008 ortho rectified imagery for South Dakota. The producer accepts the data "as is" and assumes all risks associated with its use. 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 outside of FSA Programs. Wetland identification does 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.

Apr 06, 2009

Sheree Christensen 3-19-10
Program Tech.

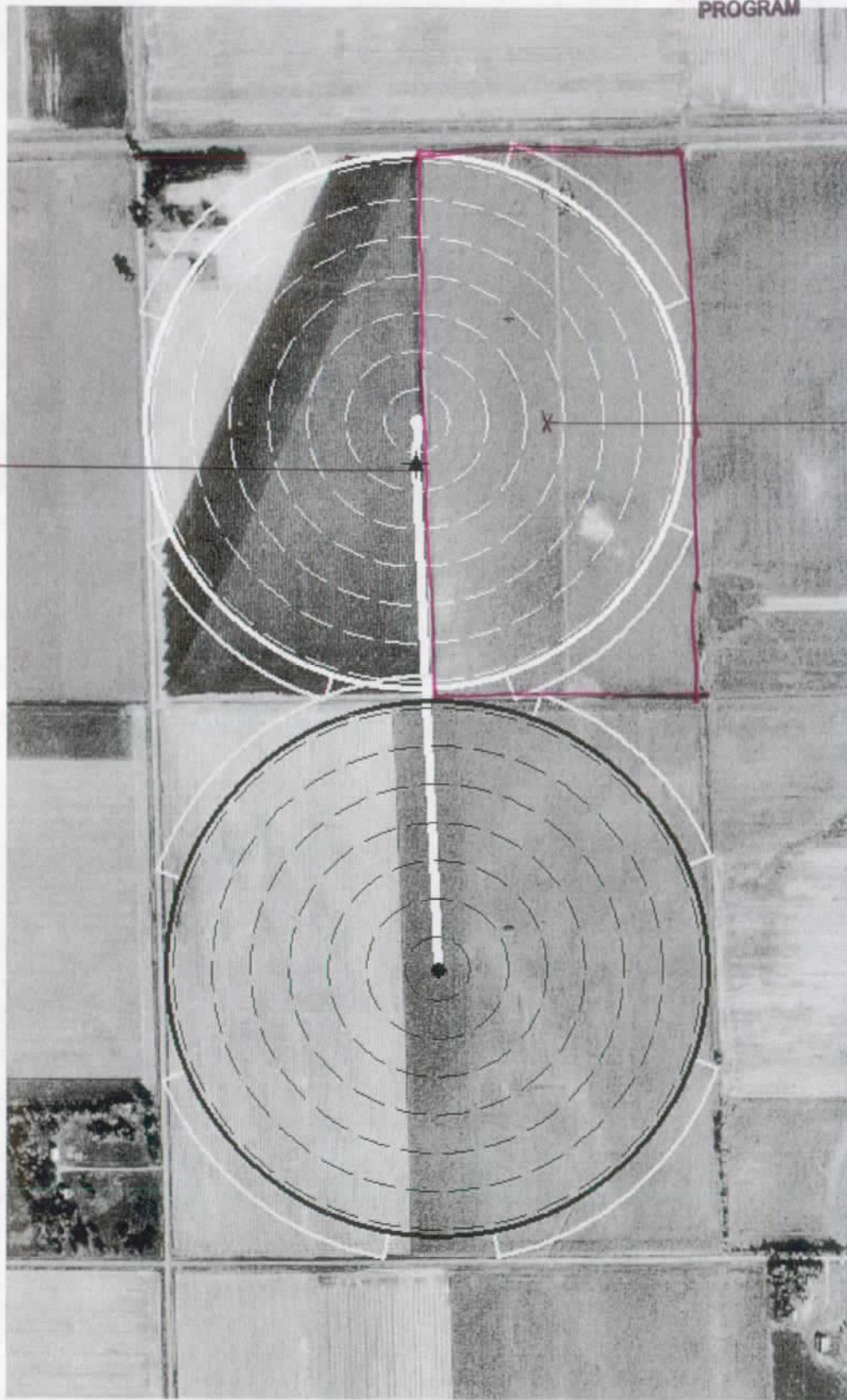
RECEIVED

MAR 25 2010

WATER RIGHTS
PROGRAM

WELL

New
Land
Purchased



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 3/25, 20 10

RECEIVED OF Roger Blake 46362 295th St Centerville SD 57014

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

Fee for Application for Permit No. <u>7191-3</u> to Appropriate Water, to construct and to put water to beneficial use	750 00
Fee for Application for Permit No. _____ to Appropriate Water for Future use	
Fee to retain Future Use Permit No. _____ after period of seven years.	
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____	
Fee for Filing Transfer Form _____	
Fee for _____	
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	750 00

No.

04517

By

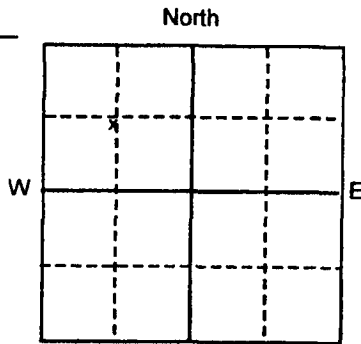
[Signature]
Chief Engineer

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location SW ¼ nw ¼ Sec 6 Twp 95n Rg 51w

County Clay

Please mark well
location with an "X"

Well Completion Date

6/15/09

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
2,900.0 ft. from septic tank (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

PIPEWEIGHT DIAMETER FROM TO HOLE DIAMETER

LB/FT 12.00 IN 0.0 FT 102.0 FT 18.00 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 21 9.5 Lb/gal 0.0 Ft 96.0 Ft

Lb/gal Ft Ft

Describe grouting procedure
tremie

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter 12.00 Inches Length 60.0 Feet

Material pvc

Slot Size .060 Set From 102.0 Feet to 162.0 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 to which water
 quality sample sent for analysis

Well Owner: Roger Blake

Business Name:

Address: 46362 295th st

City, State, Zip: Centerville SD 57014

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Silt, brown, clayey	0	7
Clay, brown, silty, pebbly till	7	38
Clay, gray, silty, pebbly, till	38	86
Gravel, fine, sandy	86	164

STATIC WATER LEVEL 76.0 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

Ft. After Hrs. pumped GPM

Ft. After Hrs. pumped GPM

If pump installed, pump rate: 800.0 GPM

REMARKS

 RECEIVED
 JAN 29 2010

This well was drilled under license # 666 and this report is true and accurate. WATER RIGHTS PROGRAM

Drilling firm: Hammond-Wetmore Drilling

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date:

7191-3

Water Rights Program - DENR
Conversation File Documentation

NAME OF PERSON OR FILE: Water Permit Application No. 7191-3, Roger Blake

ADDRESS: 46362 295th Street, Centerville SD 57014 COUNTY: Clay

DATE: April 9, 2010 TELEPHONE: 563-2101

RE: Question on amount of water claimed on Application No. 7191-3

Mr. Blake returned my phone message. I explained that Water Rights had a question regarding the amount of water claimed on his application. The application is for 1.14 cfs (510 gpm) from the existing well authorized by Permit No. 6970-3 to irrigate an additional 80 acre parcel he purchased. Permit No. 6970-3 appropriated 1.78 cfs (800 gpm) to irrigate the SW ¼ Section 6 and the W ½ NW ¼ of Section 6. The purchase of the additional 80 acres allows the pivot in the NW ¼ to make full rotation. The two pivot do not operate at the same time since they are supplied by the one well capable of 800 gpm. The question to Mr. Blake was whether he intended to request additional diversion rate authority from the one well or to continue to use the existing well at the 800 gpm rate. Mr. Blake said that the pump in the well will not be changed and the diversion rate of 800 gpm will be maintained which only allows the pivot to be operated on a rotational basis. He requested that I amend his application accordingly to be solely for irrigation of an additional 80 acres with no increase in the diversion rate.

NAME: Eric Nordlund



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 7191-3, Roger Blake**

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. 7191-3, Roger Blake, 46362 295th Street, Centerville SD 57014-6701.

The Chief Engineer is recommending APPROVAL of Application No. 7191-3 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 Permit Nos. 6970-3 and 7191-3 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. 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
April 22, 2010

**Report on Water Permit Application No. 7191-3
for Roger Blake
March 30, 2010**

Application No. 7191-3 proposes to irrigate 80 acres located in the E $\frac{1}{2}$ NW $\frac{1}{4}$ Section 6, T95N R51W from an existing well authorized by Water Permit No. 6970-3. Water Permit No. 6970-3 authorizes 1.78 cfs from one well completed into the Upper Vermillion: Missouri Aquifer (164 feet deep) to be located in the center of the SW $\frac{1}{4}$ Section 6 to irrigate 236 acres located in the W $\frac{1}{2}$ NW $\frac{1}{4}$ and the SW $\frac{1}{4}$ of Section 6-T95N-R51W. Water Permit No. 6970-3 and this application propose to utilize the same well identified above and the approval of this application will allow the pivot in the NW $\frac{1}{4}$ of Section 6 to make a full rotation. This application also requests to change the location of the well authorized by Water Permit No. 6970-3 to reflect the actual location of the well which is located near center of the NW $\frac{1}{4}$ Section 6, T95N, R51W. No increase in the authorized diversion rate from the well is requested.

The annual period during which water will be used is June 1 through September 30.

AQUIFER: Upper Vermillion Missouri

This report will address the availability of unappropriated water from the Upper Vermillion Missouri aquifer.

WATER AVAILABILITY

Aquifer Characteristics:

The Upper Vermillion Missouri aquifer is a buried outwash (sand and gravel) that is under water table conditions in the area of this application. The aquifer underlies 11,200 acres and contains an estimated 168,000 acre-feet of recoverable water in storage in Clay County (Hedges, 1982). The aquifer extends into Turner and Lincoln Counties to the north and blends into the Lower Vermillion Missouri aquifer within a few miles to the south of this location.

The well completion report submitted by Hammond-Wetmore Drilling indicates silt, brown, clayey material from 0 to seven feet below land surface, clay, brown, silty, pebbly till from seven to thirty-eight feet below land surface, clay, gray, silty, pebbly till from thirty-eight to eighty-six feet below land surface, and gravel, fine, sandy from eighty-six to one hundred sixty-four feet below land surface. The static water level was seventy six feet below land surface. The well appears to be an adequate well.

Observation Well Data:

The Water Rights Program monitors an observation well, CL-80K in the immediate area of this application location. Water levels for this well shows good response to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years due to natural discharge and to pumping. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2010). Hydrographs for this observation well is included with this report.

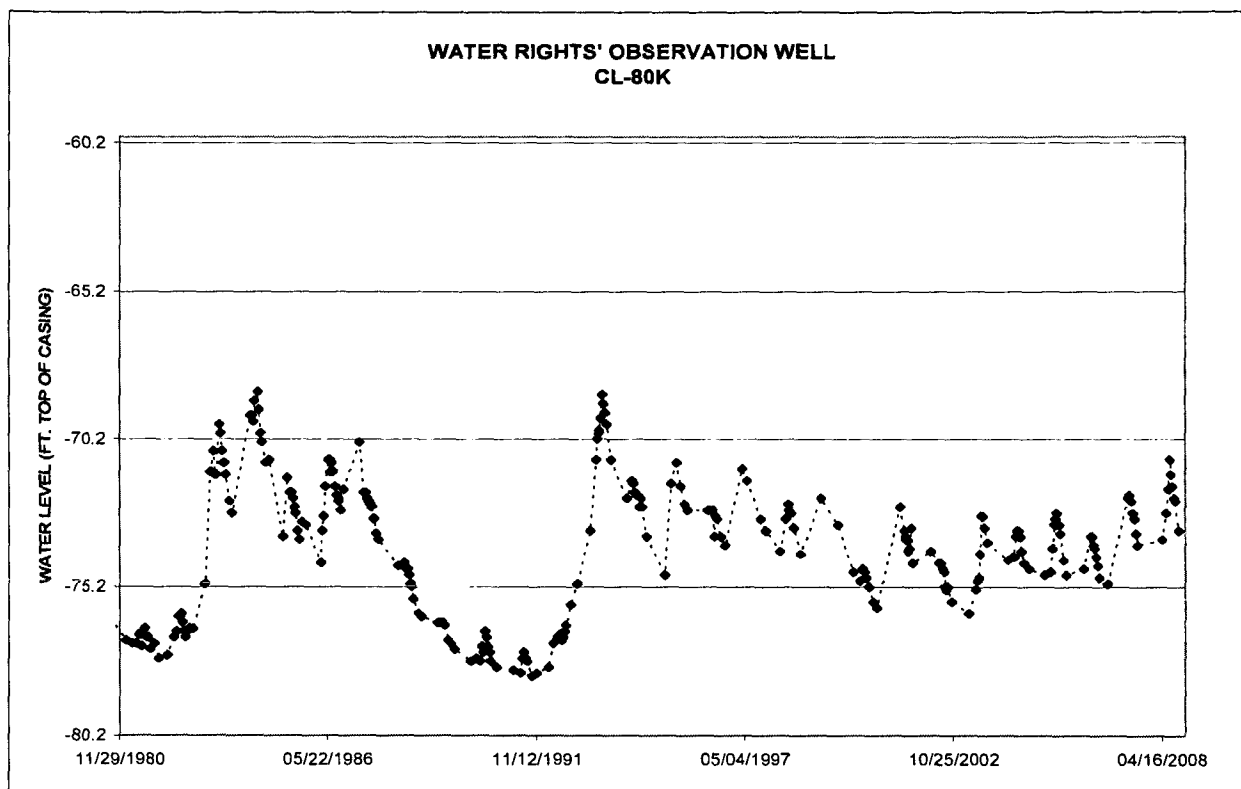


Figure 1. Hydrograph for Water Rights Observation Well CL-80K, completed into the Upper Vermillion Missouri Aquifer within one mile of 7191-3

In general, the hydrograph shows that over the period of record, withdrawals have not exceeded recharge.

Review of Existing Water Permits/Rights/Water Use:

Records of irrigation use from the Upper Vermillion Missouri aquifer date back to 1979.

Table 1 shows the number of appropriations, the total amount of water appropriated, and the reported amount of water pumped each year. The average number of appropriations is just nearly 60, with the average annual appropriation being over 26,500 acre-feet and the average annual pumpage reported at over 5,000 acre-feet.

IRRIGATION USE (ac-ft/yr) UVM			
Year	Number of Appropriations	Appropriation (ac-ft/yr)	Pumpage Reported (ac-ft/yr)
2008	76	28890.2	7467.98
2007	69	27283.6	6983.2
2006	64	26071.6	7906.32
2005	61	25369.6	6856.39
2004	62	25747.6	7414.06
2003	64	26195.6	5930.9
2002	64	26498.6	7169.69
2001	62	25938.6	6195.66
2000	62	25938.6	6181.55
1999	62	25062.6	5056.06
1998	62	24842.6	5343.85
1997	59	24642.6	5408
1996	59	24403.6	4672.19
1995	55	23792	4484.34
1994	55	23792	4313.79
1993	58	25021	534.5
1992	61	27723	1793.2
1991	59	27469	6220
1990	61	27977.6	6525.2
1989	55	26492.6	5758.6
1988	54	26072.6	6753.1
1987	55	26561.6	4034.3
1986	57	28067.6	3544
1985	57	28643.6	2497
1984	59	29867.6	2791
1983	51	25025.6	2983.12
1982	52	25589.6	3778.57
1981	61	30455	4159
1980	54	28081	5082
1979	56	28081	3247
AVERAGE	59.53	26519.93	5036.15
MAXIMUM	76	30455	7906.32
MINIMUM	51	23792	534.5

Table 1. Irrigation usage from the Upper Vermillion Missouri aquifer (Water Rights, 1979-2008).

The nearest water permit in the area of this application is No. 6922-3 which is an irrigation well located approximately one half mile west of this application site. Drawdown created by pumping should not extend very far from the well. Water levels do fluctuate as a result of area pumping but this does not affect the availability of water from the aquifer.

Conclusions:

1. Water is available from the Upper Vermillion Missouri aquifer.

2. The aquifer appears to be under water table conditions at this location. Drawdown will result from pumping but is not expected to be significant. Interference is not expected to be a problem.
3. If the well covered by this Permit adversely impacts the domestic supplies or interferes with prior water rights, restrictions, or other arrangements may be required to protect these water supplies.
4. This well appears to be constructed in accordance with SD Well Construction Standards.
5. This application if approved, and Water Permit No. 6970-3 will authorize a total of 1.78 cfs from one well to irrigate 316 acres.



Hayes Haas
Natural Resources Engineer

Bibliography:

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

Water Rights, 2010, Unpublished Observation Well Records for Clay County, SD DENR, Division of Water Rights, Pierre, SD, 57501

Water Rights, 2010, Irrigation Records for Upper Vermillion Missouri Aquifer, SD, DENR, Division of Water Rights, Pierre, SD 57501

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 Yankton Media, 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. 7191-3

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 7th day of May, 20 10, and that the succeeding publications were severally

on Friday, the 14th day of May, 20 10,

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

Fifty-three dollars and 03 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 May, 20 10

Carri B. Crum

Notary Public

My Commission Expires 2-28-11

NOTICE OF APPLICATION NO. 7191-3 to Appropriate Water

Notice is given that Roger Blake, 46362 295th St, Centerville SD 57014 has filed an application for a water permit to irrigate 80 acres located in the E 1/2 NW 1/4 Section 6-T95N-R51W from an existing well authorized by Water Permit No. 6970-3. Water Permit No. 6970-3 authorizes 1.78 cfs from one well completed into the Upper Vermillion-Missouri Aquifer (164 feet deep) to be located in center of the SW 1/4 Section 6 to irrigate 236 acres located in the W 1/2 NW 1/4 and the SW 1/4 Section 6-T95N-R51W. Water Permit No. 6970-3 and this application propose to utilize the same well identified above and the approval of this application will allow the pivot in the NW 1/4 Section 6 to make full rotation. This application also requests to change the location of the well authorized by Water Permit No. 6970-3 to reflect the actual location of the well which is located in the near the center of the NW 1/4 Section 6-T95N-R51W. No increase in the authorized diversion rate from the well is requested.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7191-3 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 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 May 24, 2010.

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.

Published twice at the approximate cost of \$53.03

Estimated publishing cost per circulated copy: \$.01
Publish: May 7 & 14, 2010



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

April 26, 2010

Plain Talk
201 W Cherry St
Vermillion SD 57069

ATTENTION: Legal Public Notice

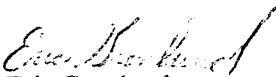
Enclosed is a Notice on Application No. 7191-3 to Appropriate Water to be published twice. Please publish the first notice on May 7, 2010 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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 Roger Blake, 46362 295th St, Centerville SD 57014 (Ph # 605-563-2101).

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. 7191-3

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

Date _____

We are in receipt of your letter of April 26, 2010 enclosing Notice to Appropriate Water by Application No. 7191-3 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
denr.sd.gov

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

April 26, 2010

Roger Blake
46362 295th St
Centerville SD 57014

Dear Mr. Blake:

Water Permit Application No. 7191-3 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 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
eric.gronlund@state.sd.us

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 May 7, 2010 with the second publication 7 days later. The applicant is responsible for payment. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352 or email: Karen.schlaak@state.sd.us.

NOTICE OF APPLICATION NO. 7191-3 to Appropriate Water

Notice is given that Roger Blake, 46362 295th St, Centerville SD 57014 has filed an application for a water permit to irrigate 80 acres located in the E ½ NW ¼ Section 6, T95N, R51W from an existing well authorized by Water Permit No. 6970-3. Water Permit No. 6970-3 authorizes 1.78 cfs from one well completed into the Upper Vermillion:Missouri Aquifer (164 feet deep) to be located in center of the SW ¼ Section 6 to irrigate 236 acres located in the W ½ NW ¼ and the SW ¼ Section 6-T95N-R51W. Water Permit No. 6970-3 and this application propose to utilize the same well identified above and the approval of this application will allow the pivot in the NW ¼ Section 6 to make full rotation. This application also requests to change the location of the well authorized by Water Permit No. 6970-3 to reflect the actual location of the well which is located in the near the center of the NW ¼ Section 6, T95N, R51W. No increase in the authorized diversion rate from the well is requested.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 7191-3 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 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 May 24, 2010.

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.

Published twice at the total approximate cost of _____.



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JUL 14 2010

Roger Blake
46362 295th St
Centerville SD 57014

Dear Mr. Blake:

Enclosed is Water Permit No. 7191-3 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,

A handwritten signature in black ink, appearing to read "Garland Erbele".

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

enclosures

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

RECEIVED

DEC - 5 2011

WATER RIGHTS
PROGRAMDate 12-1-11

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

FROM:

Roger Blake
(name)

46362 295th ST
(address)

Centerville, SD 57014
(city, state, zip)

605-563-2101
(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.

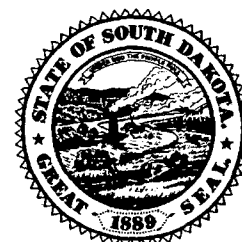
Water Permit No. 7191-3 states that the water use system is to be constructed by
May 2015 , and water is to be put to beneficial use by May 2019 .
(date) (date)

The water use system was completed on March 2010 .
(date)

Applying the water to beneficial use was completed on March 2010 .
(date)

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

Roger Blake
(signature)





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
PMB 2020
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3182
<http://denr.sd.gov>

December 7, 2011

Roger Blake
46362 295th St
Centerville SD 57014

RE: Water Permit Nos. 6968-3, 6969-3, 6970-3 and 7191-3

Dear Mr. Blake:

I am writing to acknowledge receipt of the "*Notice of Completion of Works*" forms that you sent in to let us know that you are completed with your irrigation systems.

The systems are now ready for inspection. Inspections are done on a county-by-county basis as staff time permits. You have done everything you need to do and the intervening time between completion of the projects and the staff inspection has no bearing on your water permits.

Someone from our office will contact you prior to the inspection to set up a time that is convenient for you. If you have any questions, 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
Environmental Scientist
Water Rights Program
(605) 773-3352
email: genny.mcmath@state.sd.us

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 6970-3&7191-3

I have this day, November 28, 2017, made a thorough examination of the water use system constructed by Roger Blake, 46362 295th St, Centerville SD 57014 of Permit No. 6970-3, bearing the priority of February 1, 2008 authorizing the diversion of 1.78 cu. ft. per second from one well of the waters of Upper Vermillion:Missouri Aquifer for irrigation purposes, of 236 acres, in Clay County, and of Permit No. 7191-3, bearing the priority of March 25, 2010 authorizing the irrigation from the existing well of an additional 80 acres, in Clay County. Both permits will authorize a total diversion rate of 1.78 cfs to irrigate 316 acres.

Inspection contact & relationship **Roger Blake, permit holder**
to permit holder, if applicable:

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) 162 feet
- 4) Well log is available Yes

Casing:

- 1) Diameter 12 inches
- 2) Length 102 feet
- 3) Type PVC

Screen:

- 1) Type PVC Manufactured
- 2) Length 60 feet
- 3) Static water level 76 feet

Pump:

- 1) Make Submersible
- 2) Model Unknown
- 3) Capacity 700 GPM

Motor:

- 1) Make Randolph Right Angle Gear Drive
- 2) Model No. G80
- 3) Horsepower rating 80 hp

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

- 1) Type PVC 2) Size 8 inches 3) Length 2610 feet

Comments: See map for approximate location.

C. Works used to apply water to beneficial use:

Center pivot (NW ¼ Sec 6-T95N-R51W):

- 1) Make Lindsay
2) Overall length 1268 feet
3) Number of towers 7
4) End gun Yes
5) Capacity 700 GPM

Center pivot (SW ¼ Sec 6-T95N-R51W):

- 1) Make Lindsay
2) Overall length 1268 feet
3) Number of towers 7
4) End gun Yes
5) Capacity 700 GPM

Comments: System is set up so that only one center pivot can be operated at a time.
Water Permit 6970-3 appropriated 1.78 cfs or 800 gpm, however only 1.56 cfs or 700
gpm was developed.
System is driven by a diesel generator set with above ground diesel fuel tank.

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, Water Permit 6970-3 began irrigating in 2009, and Water Permit 7191-3 began irrigating in 2011.

List any extended period of nonuse: Did not use in 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: East 1290', South 1630' from NW Corner of Sec 6-T95N-R51W; Lat 43.07924/Long -96.91915; SE ¼ NW ¼ Sec 6-T95N-R51W.
2. The works are capable of diverting and conveying to the place of use 1.56 cfs or 700 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 6-T95N-R51W.

Water Permit 6970-3/191 ac

NW ¼ NW ¼ - 30 ac

SW ¼ NW ¼ - 32 ac

NW ¼ SW ¼ - 31 ac

NE ¼ SW ¼ - 34 ac

SE ¼ SW ¼ - 33 ac

SW ¼ SW ¼ - 31 ac

Water Permit 7191-3/64 ac

NE ¼ NW ¼ - 31 ac

SE ¼ NW ¼ - 33 ac

comprising a total of 255 acres of land and the license should be issued for 1.56 cfs or 700 gpm.

3. All structures, wells and lands on map Yes

F. Comments or other permit(s) associated with the project:

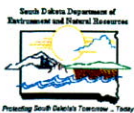
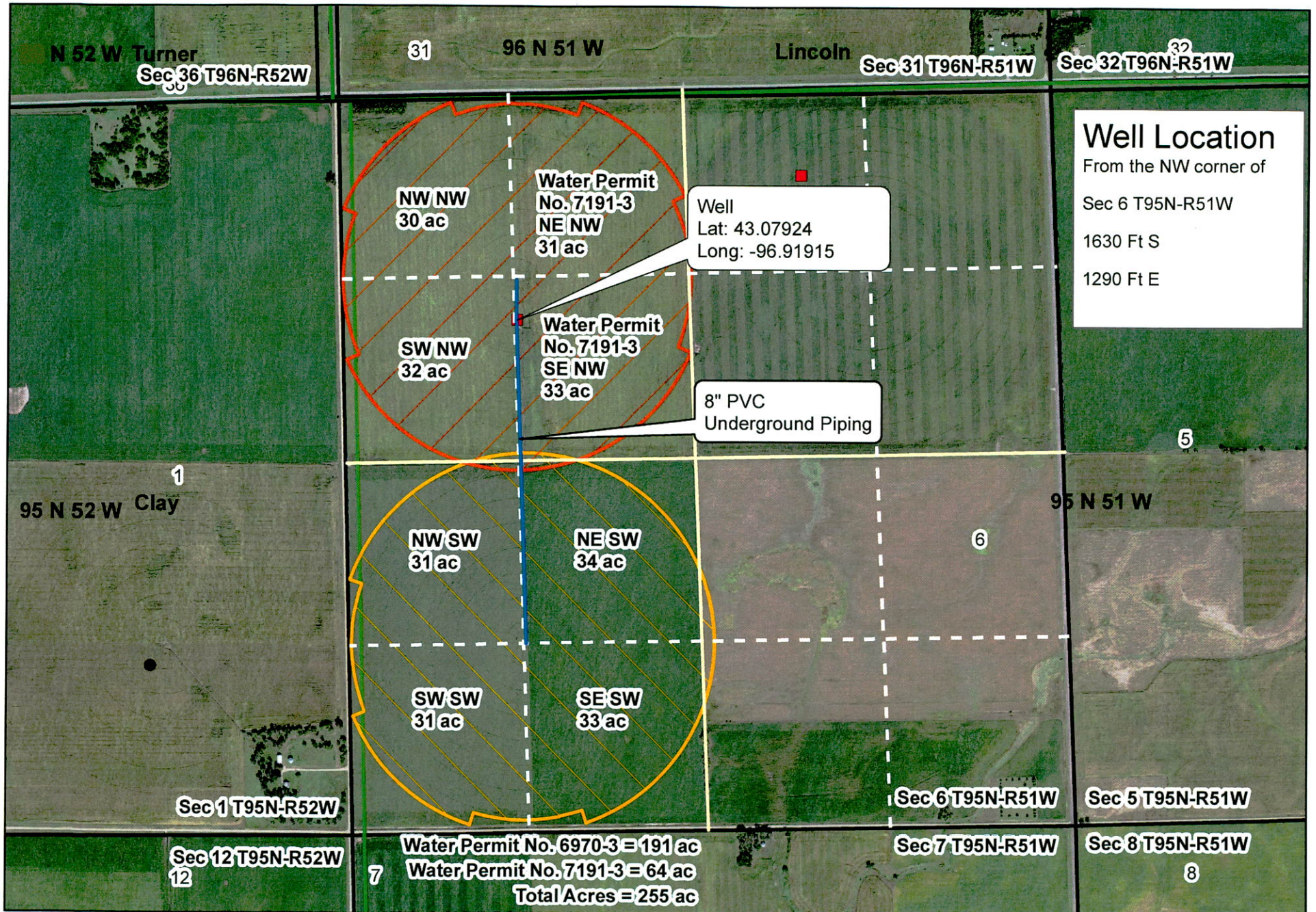
Water Permit 6970-3 and Water Permit 7191-3 appropriated 1.78 cfs or 800 gpm from one well for irrigation of 316 acres, however, only 1.56 cfs or 700 gpm from one well was developed and 255 acres are actually irrigated. One acre is overlapped between the two center pivots.

Harold Holoch

Harold Holoch, PE
Staff Engineer
DENR, Water Rights Program

Date report completed: January 10, 2018

6970-3 & 7191-3



0 330 660 1,320 1,980 2,640 Feet
SCALE

Harold Holoch
Harold Holoch, PE
Staff Engineer
January 10, 2017

7191-3



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

MAR 19 2018

6970-3
7191-3

Roger Blake
46362 295th St
Centerville SD 57014

Dear Mr. Blake:

Enclosed is Water License No. 7191-3. 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 in the future, the owner of an existing well, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

As long as you use the water beneficially, as stated in the Water License, the State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

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

enclosures

Note: Upon licensing, the applicable portions of Water Permit No. 6970-3 were incorporated into Water License No. 7191-3.

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 7191-3

(1) Roger Blake, 46362 295th St, Centerville SD 57014 made Application No. 7191-3, March 25, 2010 for a water permit to add acreage and change the location of a well authorized under Water Permit No. 6970-3. The irrigation project is located in Clay County, South Dakota. Permit No. 7191-3, with a priority date of March 25, 2010 was approved May 24, 2010 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before May 24, 2015 and for the application to beneficial use of said water on or before May 24, 2019.

Water Permit No. 6970-3, with a priority date of February 1, 2008, appropriates 1.78 cubic feet of water per second (cfs) from one well to irrigate 236 acres in the W $\frac{1}{2}$ NW $\frac{1}{4}$ and SW $\frac{1}{4}$ Section 6, T95N, R51W. Water Permit No. 7191-3 authorized irrigation of an additional 80 acres located in the E $\frac{1}{2}$ SW $\frac{1}{4}$ Section 6, T95N, R51W and identified the correct location of the well. No additional water was appropriated under No. 7191-3.

The applicable portions of Water Permit No. 6970-3 are incorporated into this Water License. Priority dates are as follows: February 1, 2008 (from No. 6970-3) for the developed diversion rate and the acreage in the SW $\frac{1}{4}$ and W $\frac{1}{2}$ N W $\frac{1}{4}$ Section 6; March 25, 2010 (from No. 7191-3) for acreage in the E $\frac{1}{2}$ NW $\frac{1}{4}$ Section 6 all in T95N, R51W.

(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:

- 1290'E and 1630'S of the NW Corner of Section 6, T95N, R51W (SE $\frac{1}{4}$ NW $\frac{1}{4}$)
Latitude 43.07924 Longitude -96.91915

(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:

T95N, R51W Section 6	NW $\frac{1}{4}$ NW $\frac{1}{4}$	30 acres	February 1, 2008 priority date
	SW $\frac{1}{4}$ NW $\frac{1}{4}$	32 acres	February 1, 2008 priority date
	NE $\frac{1}{4}$ NW $\frac{1}{4}$	31 acres	March 25, 2010 priority date
	SE $\frac{1}{4}$ NW $\frac{1}{4}$	33 acres	March 25, 2010 priority date
	NW $\frac{1}{4}$ SW $\frac{1}{4}$	31 acres	February 1, 2008 priority date
	NE $\frac{1}{4}$ SW $\frac{1}{4}$	34 acres	February 1, 2008 priority date
	SE $\frac{1}{4}$ SW $\frac{1}{4}$	33 acres	February 1, 2008 priority date
	SW $\frac{1}{4}$ SW $\frac{1}{4}$	31 acres	February 1, 2008 priority date
Total		255 acres	

- February 1, 2008 priority date was established under Water Permit No. 6970-3
- March 25, 2010 priority date was established under Water Permit No. 7191-3

continued

(4) Pursuant to South Dakota Water Law 46-5-30.1 Roger Blake, 46362 295th St, Centerville SD 57014 the holder and/or owner of Incorporated Water Right No. 7191-3 is issued a license to appropriate water, the right to use 1.56 cubic feet of water per second from ground water, one well (Upper Vermillion Missouri Aquifer) with priority dates of February 1, 2008 and March 25, 2010 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 Incorporated Water Right No. 7191-3 and subject to the following qualifications:

- The well approved under Permit Nos. 6970-3 and 7191-3 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.
- **(From Permit No. 6970-3)** The well authorized by Permit No. 6970-3 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 in June, 2009 by Hammond Wetmore Drilling. 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

MAR 19 2018

date



3994-3, 4204-3, 5319-3, 117-3A, 2268-3, 2372-3, 2941-3
5352-3, 5425-3, 5886-3, 2950-3, 3328-3, 3409-3, 3507-3
5898-3, 6810-3, 6922-3, 3646-3, 3737-3, 3918-3, 3948-3
7002-3, 7191-3, 7384-3, 6754-3, 7128-3

Page 1 of 4

Water Rights Program File Documentation

Date: June 16, 2025

Counties: Clay and Turner

Re: Aquifer management unit redesignation for selected water rights/permits on Clay and Turner Counties

COMMENTS:

Review of a request to change diversion point for Water Permit No. 8790-3, authorized to withdraw water from the Upper Vermillion Missouri: South aquifer (UVM:S), determined the well they wished to use is authorized under authorized by Water Right No. 7384-3 Water Right No. 7384-3 does not currently have a management unit designated for withdrawal from the Upper Vermillion Missouri aquifer (Water Rights, 2025). In reviewing the best information currently available for aquifer and management unit naming conventions, the best aquifer and management unit designation for Water Right No. 7384-3 is the Southern management unit of the Upper Vermillion Missouri aquifer (UVM:S) as shown in Figure 1. Furthermore, there are an additional 25 other water rights/permits, see Table 1, which should have the UVM:S management unit assigned (Water Rights, 2025).

This addition of the management unit designation, to the Southern management unit of the Upper Vermillion Missouri aquifer, does not represent a physical change in the water source. It is an update to the naming convention to reflect the currently best available information for aquifer and management unit extents. This update to the aquifer management unit name does not authorize any increase in the amount of water appropriated by any of these water rights/permits, change in diversion rate, relocation of existing wells, completion of additional wells into the aquifer, or change of acres permitted for irrigation. Going forward, issuance of any pertinent documents will reflect the updated aquifer and management unit designation.

Table 1- Water rights/permits requiring an aquifer management unit designation to the Upper Vermillion Missouri: South (Water Rights, 2025)

Water Rights							
PERMIT NO	NAME	COUNTY	PRIORITY DATE	STATUS	USE	CFS	ACRES
117-3A	GLYNDON KNUTSON	CL	04/14/1955	LC	IRR	0.95	66
2268-3	WILLIAM KNUTSON	CL	08/07/1975	LC	IRR	2	206
2372-3	LARRY ERICKSON	CL	10/07/1975	LC	IRR	1.76	123
2941-3	RUSSELL D AUSTIN	TU	08/16/1976	LC	IRR	1.11	140
2950-3	TERRY & ALBERTA SURPRENANT	CL	08/13/1976	LC	IRR	1.57	110
3328-3	TOM AUSTIN	CL	11/12/1976	LC	IRR	1.33	121
3409-3	STEVEN R NULL	TU	12/07/1976	LC	IRR	1.88	136
3507-3	W JERALD HANSEN	TU	12/28/1976	LC	IRR	0.99	69
3646-3	STEVEN R NULL	TU	02/04/1977	LC	IRR	2	144
3737-3	WILLIAM M JENTER	TU	09/16/1976	LC	IRR	4.57	320
3918-3	JBS HANSEN FARMS	TU	04/18/1977	LC	IRR	2.66	295.3
3948-3	JASON KNUTSON	CL	04/19/1977	LC	IRR	1.88	135
3994-3	GLYNDON KNUTSON	CL	07/07/1956	LC	IRR	4.94	332
4204-3	CITY OF CENTERVILLE	TU	01/01/1900	LC	MUN	0.22	n/a
5319-3	LARRY ERICKSON	CL	04/13/1989	LC	IRR	1.89	132
5352-3	BILL & SCOTT HANSEN	TU	09/13/1989	LC	IRR	2.15	151
5425-3	JOHNKE LAND TRUST	TU	03/23/1990	LC	IRR	1.88	132
5886-3	TIM OSTREM	CL	09/28/1995	LC	IRR	1.78	134
5898-3	CITY OF CENTERVILLE	TU	01/09/1996	LC	MUN	0.89	n/a
6810-3	JESSE & TANYA VANDESTROET	CL	02/20/2007	LC	IRR	1.56	65
6922-3	JOHN SHUBECK	CL	12/13/2007	LC	IRR	1.78	122
7002-3	JESSE & TANYA VANDESTROET	CL	03/14/2008	LC	IRR	1.39	123
7191-3	ROGER BLAKE	CL	02/01/2008	LC	IRR	1.56	255
7384-3	NICHOLAS & COURTNEY BLAKE	CL	07/20/2012	LC	IRR	1.67	67
Water Permits							
PERMIT NO	NAME	COUNTY	PRIORITY DATE	STATUS	USE	CFS	ACRES
6754-3	JBS HANSEN FARMS	TU	09/05/2006	PE	IRR	0	35
7128-3	JOHN SHUBECK	TU	04/13/2009	PE	IRR	1.78	207
CL= Clay; TU= Turner; LC= Water Right, PE= Water Permit; IRR= Irrigation; MUN= Municipal							

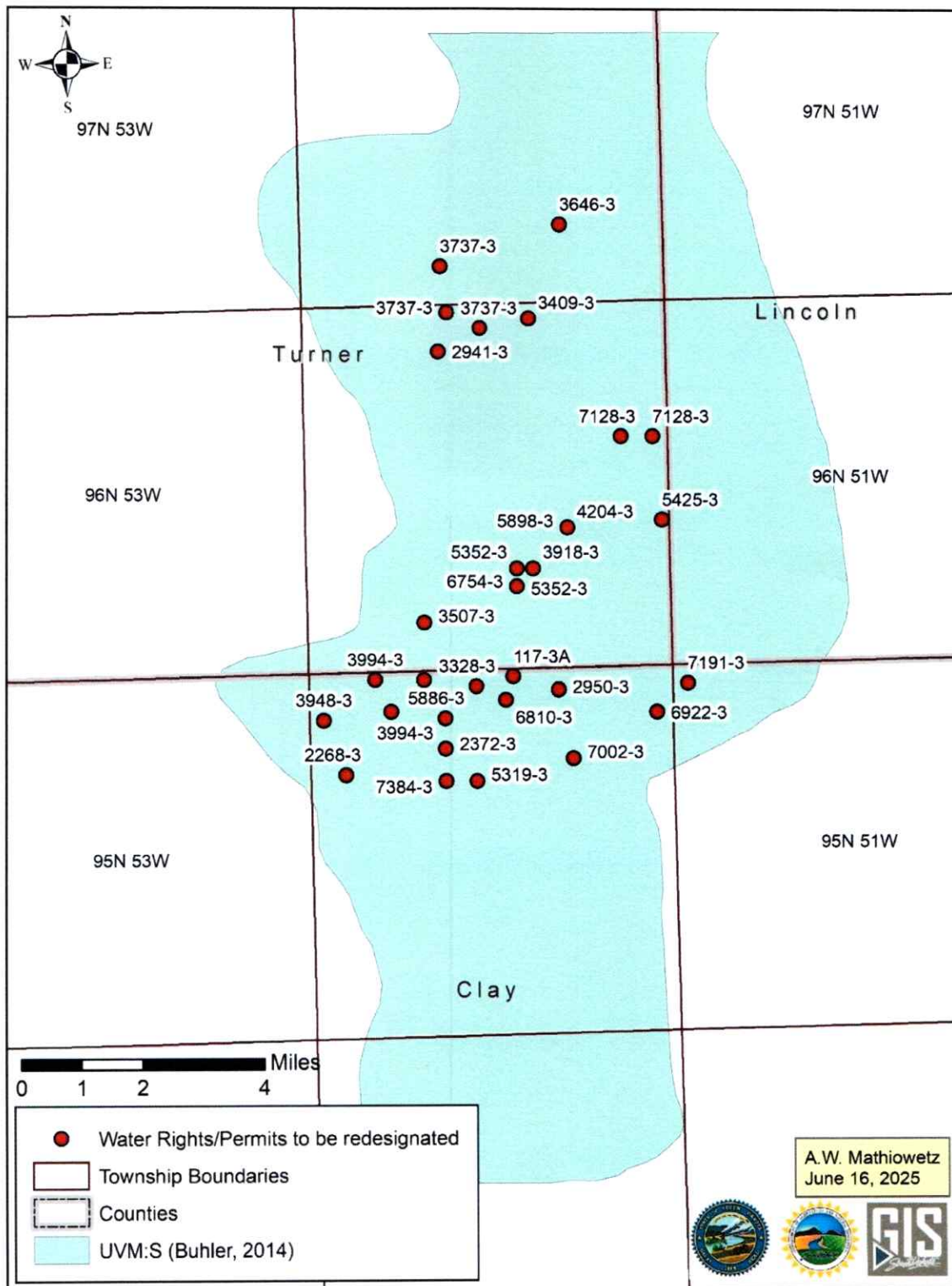


Figure 1- Map of approximate areal extent of the Upper Vermillion Missouri: South aquifer (Buhler, 2014) and water right/permits to be redesignated to include the South management unit designation (Water Rights, 2025)



Adam Mathiowetz
Natural Resources Engineer IV



Mark Mayer
Director of Office of Water

REFERENCES

Buhler, K. A. 2014. Report to the Chief Engineer on 21 Water Permit Applications from the Upper Vermillion Missouri Aquifer. SD DANR – Water Rights Program, Joe Foss Bldg. Pierre, SD.

Water Rights. 2025 Water Right/Permits Database. SD DANR-Water Rights Program. Pierre, South Dakota