

WATER PERMIT NO. 6970-3

Name of Applicant: Roger Blake

Address: 46362 295th St, Centerville SD 57014

Phone: 605 563-2101

Amount of Water Claimed: 1.78

Total Acres: 236

Source of Water Supply: groundwater (one well)

Water to be used for: irrigation

County: Clay

Type of Waste Disposal System:

Location: 3 miles southeast of Centerville

PRIORITY

Date Received: 2-1-08

Application/License Fee: \$325

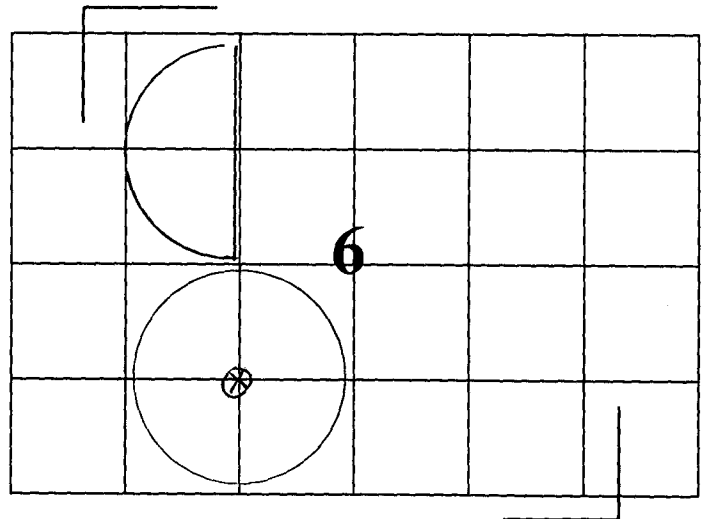
Corrected Application Received: 2-13-08

Period of Annual Use: June 1 – September 30

Remarks:

Diversion Point: center of SW ¼ Sec 6-T95N-R51W

Land to be Irrigated: W 1.2 NW ¼, SW ¼ Sec 6-T95N-R51W



Depth of Well: 130 feet deep

Well Driller: :

Remarks:

Type of Map: aerial

Prepared by: Deon J Ruesch, NRCS

Reviewed and the Number Assigned on: 2-13-08

By: Karen Schlaak

Notice of Hearing - date to intervene: _____

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

Originally received: Feb 1, 2008

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6970-3</u> (office use only) Hydrologic Unit <u>10170102</u>
	Basin <u>Vermillion River</u>
	Newspaper <u>Plain Talk P.O. Box 256 Vermillion</u> <u>605-624-2695</u> <u>57069</u>

RECEIVED
FEB 13 2008
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: X 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 Roger Blake Phone 605 563-2101
(check one) Owner Tenant/lessee
Mailing Address 46362 295 St, Centerville State SD 57014-6701
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.78 *CFS or 800 **GPM ***AF Total Acreage 236
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply Groundwater (one well)
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
Approximate center of the SW 1/4 Sec 6-T95N-R51W
County Clay
- County or counties where water will be used Clay
- Annual period during which water is to be used June 1 - September 30
- 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
W 1/2 NW 1/4 Sec 6-T95N-R51W	76		
SW 1/4 Sec 6-T95N-R51W	160		

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

Irrigate one circle, move north and windshield wipe the 76 acres. Line buried from well to north pivot.

STATE OF SOUTH DAKOTA) SS
County of Turner

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, 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 Blake

Subscribed and sworn to before me this 11th day of February 19 2008

Sandra D Pederson
Notary Public signature
My commission expires 04-30-09

**SOUTH DAKOTA
WATER PERMIT NO. 6970-3**

Date of first receipt of application February 1, 2008.

Date of return to applicant for corrections, amendments or changes February 4, 2008.

Date of receipt of corrected application February 13, 2008.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6970-3 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. 6970-3 appropriates 1.78 cubic feet of water per second from one well to be completed into the Upper Vermillion:Missouri Aquifer (approximately 130 feet deep) located in the center of 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; all in T95N-R51W.
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 February 1, 2008.
4. The date of approval of Permit No. 6970-3 is April 14, 2008.
5. One-fifth of the construction is to be completed on or before October 14, 2010.
6. All construction is to be completed on or before April 14, 2013.
7. Water is to be put to beneficial use on or before April 14, 2017.
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. 6970-3 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

MAY 07 2008
date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction center of SW ¼ Sec 6-T95N-R51W

- a) Drill Hole Diameter 30" Depth 130'
- b) Casing Type PVC Diameter 16" Thickness 5/16"
- c) Screen Type PVC Perf/slotted Diameter 16" Thickness 5/16"
- d) Gravel Pack Peat rock Length of Gravel Pack 130'
- e) Depth to Top of Water Bearing Material 60'
- f) Depth to Water (ground surface to water level) 70'
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others ½ mile

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

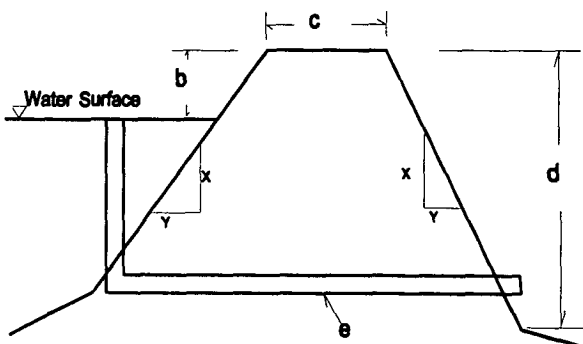
3. Dugout Information

- 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

Automatic Irrigation Inc.



1111 Railway Street
Centerville, SD 57014
(605) 563-2649 office

RECEIVED

FEB - 1 2008

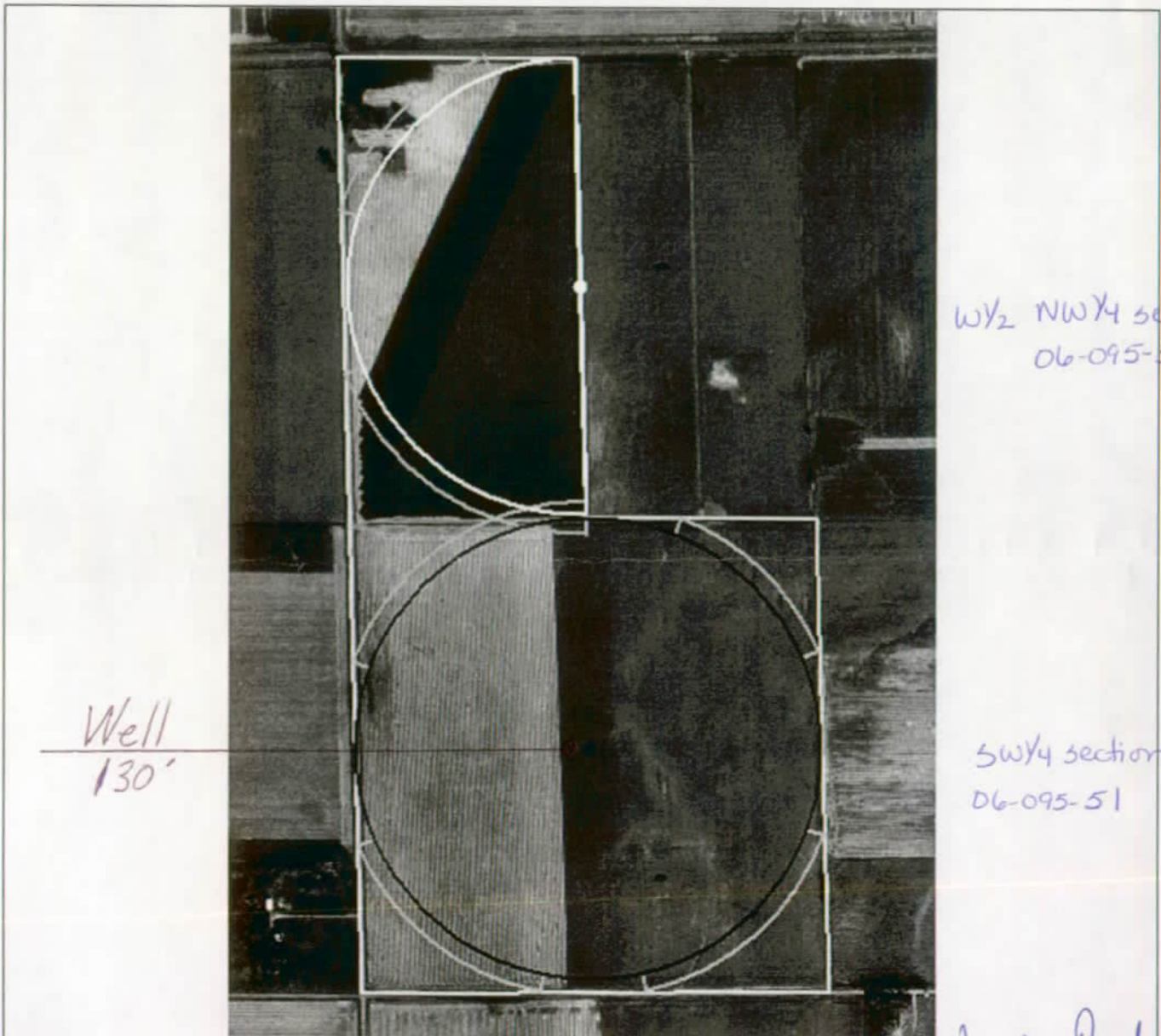
WATER RIGHTS
PROGRAM

Farm: Field1

Grower: Roger Blake

1/4/2008

Systems:	Length	Spans	Total area including endgun
● Pivot 1	1296.96 ft	(No spans)	133.52 acres
○ Pivot 2	1292.30 ft	(No spans)	66.71 acres



W $\frac{1}{2}$ NW $\frac{1}{4}$ section
06-095-51

SW $\frac{1}{4}$ section
06-095-51

Well
130'

Don J. Rund, DC
NRES
2-7-08

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date 2/4, 20 08

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>6970-3</u> to Appropriate Water, to construct and to put water to beneficial use	275	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>6970-3</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	325 00

No.

03479

By

David J. Erbe
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. 6970-3, 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. 6970-3, Roger Blake, 46362 295th Street, Centerville SD 57014.

The Chief Engineer is recommending APPROVAL of Application No. 6970-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualifications:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6970-3 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
March 21, 2008

REPORT ON WATER PERMIT APPLICATION NO. 6970-3
For Roger Blake
February 27, 2008

Application No. 6970-3 proposes to appropriate 1.78 cfs from one well approximately 130 feet deep located in the center of the SW $\frac{1}{4}$ of 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; all in T95N R51W in Clay County.

AQUIFER – UPPER VERMILLION MISSOURI (UVM)

The Upper Vermillion Missouri is a buried outwash (sand and gravel) that is under water table conditions in this area. 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 County to the north, and blends into the Lower Vermillion Missouri aquifer within a few miles south of this application. The aquifer also blends into the overlying Parker Centerville aquifer a few miles to the south. The aquifers in this area are a huge system of layered outwashes that are hydraulically distinct in the area to the north but change to one system a few miles to the south. This permit application is located in that transition zone between aquifer management units and should not be construed to indicate that the aquifer is small or isolated from the main portions of the aquifer system in any way.

No test wells have been drilled for this application. However, the county study (Stephens, 1967) indicates that the aquifer should be about 50 to 100 feet thick in this area. A test well drilled by Water Rights located within one-half mile to the southwest of this proposed well penetrated sand and gravel from 62 to 110 feet below land surface. This test well did not penetrate the entire sequence of sand and gravel at this site. This data suggests the aquifer does underlie the area of this application but testing should be completed in order to evaluate the best potential site for development.

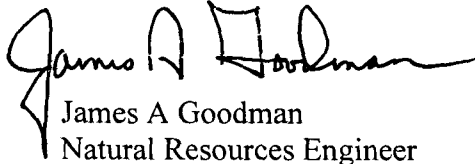
The Water Rights Program does monitor an observation well CL-80K located in this immediate area. Water levels for this well show good response to climatic conditions that is rising water levels during wet years (recharge) and gradually declining water levels during dry periods. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2008). A hydrograph for this observation well is included with this report.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There nearest water permit to this application is No. 6922-3 (1.78 cfs, 122.3 acres). This irrigation well would be about one-half mile west of this proposed site. At this distance interference is not a concern. Drawdown created by pumping will not be significant and should not extend very far from the individual production well. This conclusion is supported by observation well water level records for other observation wells in the area and located near to existing wells that have been in use for many years.

CONCLUSIONS

1. Water is available from the Upper Vermillion Missouri aquifer.
2. The aquifer is under water table conditions at this site. Drawdown created by pumping is not expected to be significant. Interference is not a concern.
3. The well authorized by this application must be constructed in accordance with SD Well Construction Standards.



James A Goodman
Natural Resources Engineer

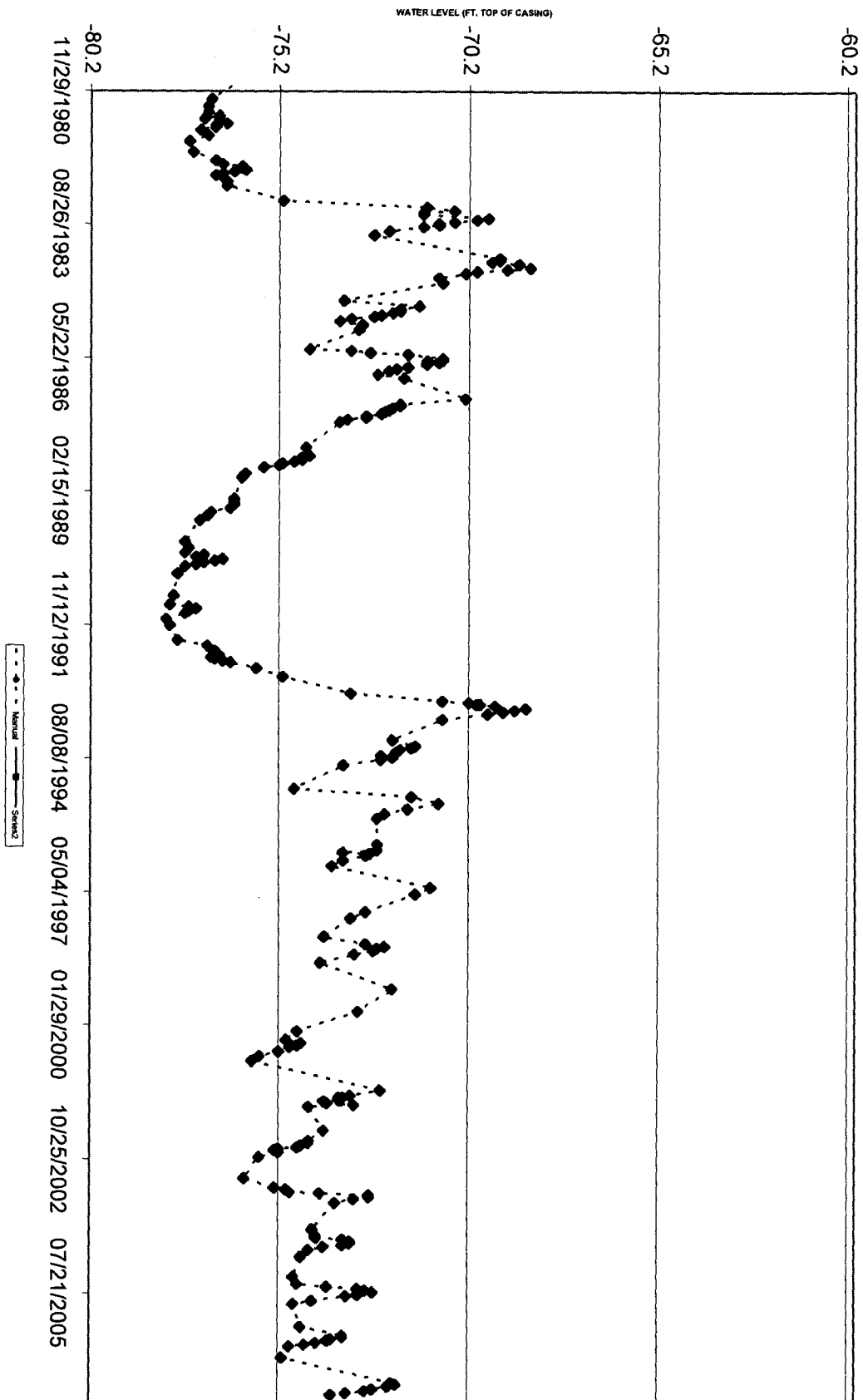
BIBLIOGRAPHY

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

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

Water Rights, 2008, Unpublished Observation Well Data for Clay County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
CL-80K



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. 6970-3

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 28th day of March, 20 08, and that the succeeding publications were severally

on Friday, the 4th day of April, 20 08,

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 dollars and 52 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 3rd day of April, 20 08

Diane J. Savie
Exp. 9-5-2013

Notary Public

NOTICE OF APPLICATION NO. 6970-3 to Appropriate Water

Notice is given that Roger Blake, 46362 295th St., Centerville, SD, 57014 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well to be completed into the Upper Vermillion-Missouri Aquifer (approximately 130 feet deep) located in the center of 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; all in T95N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6970-3 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 April 14, 2008.

The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program, address to request copies of information pertaining to this application. Steven M. Pirner, Secretary, Department of Environment and Natural Resources.

Publish: March 28 & April 4, 2008

RECEIVED

APR - 7 2008

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

March 20, 2008

Plain Talk
PO Box 256
Vermillion SD 57069

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6970-3 to Appropriate Water to be published twice. Please publish the first notice on March 28, 2008 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. 6970-3

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

Date _____

We are in receipt of your letter of March 20, 2008 enclosing Notice to Appropriate Water by Application No. 6970-3 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.

March 20, 2008

Roger Blake
46362 295th St
Centerville SD 57014

Dear Mr. Blake:

Water Permit Application No. 6970-3 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

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 March 28, 2008 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6970-3 to Appropriate Water

Notice is given that Roger Blake, 46362 295th St, Centerville SD 57014 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second from one well to be completed into the Upper Vermillion:Missouri Aquifer (approximately 130 feet deep) located in the center of SW ¼ Section 6 to irrigate 236 acres located in the W ½ NW ¼ and the SW ¼ Section 6; all in T95N-R51W.

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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

MAY 07 2008

Roger Blake
46362 295th St
Centerville SD 57014

Dear Mr. Blake:

Enclosed are Water Permit Nos. 6968-3, 6969-3 and 6970-3 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

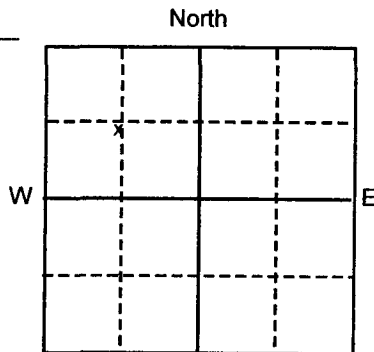
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location <u>sw</u> $\frac{1}{4}$ <u>ne</u> $\frac{1}{4}$ Sec <u>6</u> Twp <u>095n</u> Rg <u>51w</u>				Well Owner: <u>Roger Blake</u>																																										
County <u>Clay</u>				Business Name: _____																																										
Please mark well location with an "X"				Address: <u>46362 295th Street</u>																																										
				City, State, Zip: <u>Centerville</u> <u>SD</u> <u>57014</u>																																										
Well Completion Date <u>3/2/2009</u>				WELL LOG:																																										
				<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">FORMATION</th> <th colspan="2">DEPTH</th> </tr> <tr> <th>FROM</th> <th>TO</th> </tr> </thead> <tbody> <tr> <td>Till, yellow brown, pebbly clay</td> <td>0</td> <td>27</td> </tr> <tr> <td>till, gray brown, pebbly</td> <td>27</td> <td>82</td> </tr> <tr> <td>Sand, coarse, pebbly</td> <td>82</td> <td>86</td> </tr> <tr> <td>gravel, med to coarse, sandy</td> <td>86</td> <td>110</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		FORMATION	DEPTH		FROM	TO	Till, yellow brown, pebbly clay	0	27	till, gray brown, pebbly	27	82	Sand, coarse, pebbly	82	86	gravel, med to coarse, sandy	86	110																								
FORMATION	DEPTH																																													
	FROM	TO																																												
Till, yellow brown, pebbly clay	0	27																																												
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Sand, coarse, pebbly	82	86																																												
gravel, med to coarse, sandy	86	110																																												
Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.) <u>? 2,300.0</u> ft. from <u>septic tank</u> (identify source)				STATIC WATER LEVEL _____ 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? _____																																										
PROPOSED USE: ☐ Domestic/Stock ☐ Municipal ☐ Business ☒ Test Holes ☐ Irrigation ☐ Industrial ☐ Institutional ☐ Monitoring well				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: _____ GPM																																										
METHOD OF DRILLING: <u>Direct rotary</u>				RECEIVED MAR 30 2009 WATER RIGHTS PROGRAM																																										
CASING DATA: ☐ Steel ☐ Plastic ☐ Other If other describe <u>none</u>																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>PIPEWEIGHT</th> <th>DIAMETER</th> <th>FROM</th> <th>TO</th> <th>HOLE DIAMETER</th> </tr> <tr> <th>LB/FT</th> <th>IN</th> <th>FT</th> <th>FT</th> <th>IN</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER	LB/FT	IN	FT	FT	IN																																	
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SCREEN: ☐ Perforated pipe ☐ Manufactured Diameter _____ Inches Length _____ Feet Material _____ Slot Size _____ Set From _____ Feet to _____ Feet Other information <u>NA</u>																																														
WAS A PACKER OR SEAL USED? ☐ Yes ☒ No If so, what material? _____ Describe packer(s) and location _____				This well was drilled under license # <u>666</u> And this report is true and accurate. Drilling firm: <u>Hammond Wetmore Drilling</u> Signature of License Representative: _____ Signature of Well Owner or Equitable Property Holder: _____																																										
DISINFECTION: Was well disinfected upon completion? ☐ Yes, How? _____ ☒ No, Why Not? <u>NA</u>				Date: <u>3-27-09</u>																																										
Lab sample sent to for water quality analysis _____																																														

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location sw 1/4 nw 1/4 Sec 6 Twp 95n Rg 51wCounty ClayPlease mark well
location with an "X"

Well Completion Date

6/15/09

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 FeetMaterial pvcSlot 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 analysisWell Owner: Roger Blake

Business Name:

Address: 46362 295th stCity, 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

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: _____

RECEIVED
JAN 29 2010

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

RECEIVED

DEC - 5 2011

WATER RIGHTS
PROGRAMDate 12-1-11TO: Water Rights Program, DENR
523 E. Capitol
Pierre, SD 57501-3181

FROM:

Roger Blake
(name)416362 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. 6970-3 states that the water use system is to be constructed by

April 2013
(date)

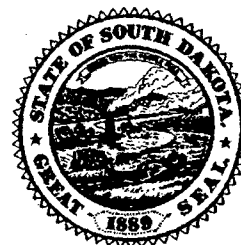
, and water is to be put to beneficial use by

April 2017
(date)

The water use system was completed on August 2009
(date)

Applying the water to beneficial use was completed on August 2009
(date)

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

Roger Blake
(signature)

6970-3



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,

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

6970-3



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.