

WATER PERMIT NO. 6652-3

Name of Applicant: **David Verhoek**

Address: **46418 196th St, Bruce SD 57220**

Phone: **605 873-2147**

Amount of Water Claimed: **1.78 cfs**

Total Acres: **90**

Source of Water Supply: **groundwater**

Water to be used for: **irrigation**

County: **Hamlin**

Type of Waste Disposal System:

Location: **2 miles southwest of Estelline**

PRIORITY

Date Received: **8-22-05**

Application/License Fee: **\$275**

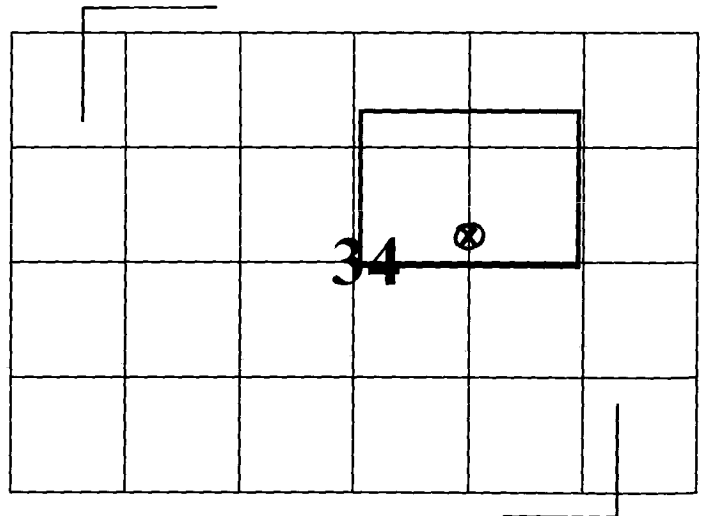
Corrected Application Received:

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

Remarks:

Diversion Point: **S ½ NE ¼ Sec 34-T113N-R51W**

Land to be Irrigated: **S ½ NE ¼, S ½ N ½ Sec 34-T113N-R51W**



Depth of Well: **55 feet deep**

Well Driller:

Remarks:

Type of Map: **aerial**

Prepared by: **John Lit, NRCS**

Reviewed and the Number Assigned on: **8-22-05**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6652-3</u> (office use only) Hydrologic Unit <u>10170202</u> Basin <u>Sioux River</u> Newspaper <u>Estelline Journal, Estelline</u>
--	---

RECEIVED
AUG 27 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 David Verhoek Phone 605-873-2147
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 46418 196th St Bruce State SD 57220
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.78 *CFS or 800 **GPM ***AF Total Acreage 90
(*Cubic Feet per Second) (**Gallons per Minute) (***Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply Well
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W) 1 well in South 100 Acres of NE 1/4 of Section 34 Estelline township
(SW 1/4 NE 4 34-113-51 Tract 805 County Hamlin)
- County or counties where water will be used Hamlin
- Annual period during which water is to be used April - Octo
- 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
NE 1/4 S 100A in Section 34	90		

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

This pivot will not be making a full circle. It is going on a 100 Ac piece and will be windshield wiped and maybe doing about a 3/4 circle.

STATE OF SOUTH DAKOTA) SS
County of HAMLIN

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, David Verhoek, 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 David Verhoek

Subscribed and sworn to before me this 18th day of August 2005

My Commission Expires

August 12, 2009

Barbara L. Bergh
Notary Public signature
Barbara L. Bergh

**SOUTH DAKOTA
WATER PERMIT NO. 6652-3**

Date of first receipt of application August 22, 2005.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6652-3 to David Verhoek, 46418 196th St, Bruce SD 57220 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. 6652-3 appropriates 1.78 cubic feet of water per second (cfs) from one well to be completed into the Big Sioux:Brookings Aquifer (approximately 55 feet deep) located in the S ½ NE ¼ Section 34 to irrigate 90 acres located in the NE ¼ Section 34; all in T113N-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: April 1 – October 31.
3. The date from which applicant may claim right is August 22, 2005.
4. The date of approval of Permit No. 6652-3 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. 6652-3 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

DEC 15 2005

date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 17 3/4" Depth 55'
- b) Casing Type SCH 40 Diameter 12" Thickness 3/8"
- c) Screen Type Johnson Stainless Diameter 12" Thickness 1/8"
- d) Gravel Pack 1/4 x 1/8 Length of Gravel Pack 20'
- e) Depth to Top of Water Bearing Material 27'
- f) Depth to Water (ground surface to water level) 21'
- g) Distance to nearest existing domestic well:
On applicants property 1700' On property owned by others _____

2. Wastewater Disposal System Information

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

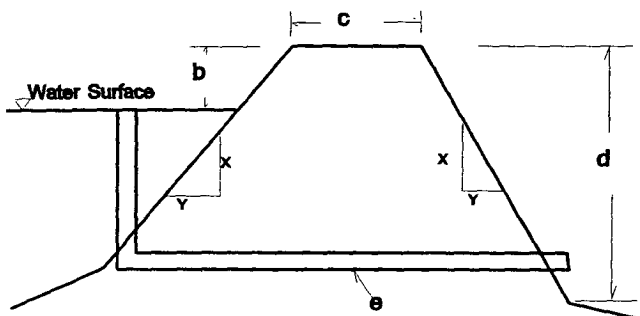
3. Dugout Information

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

4. Water Storage Dams

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

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



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

RECEIPT
WATER RIGHTS PROGRAM
South Dakota Department of Environment and Natural Resources

Date August 22, 2005

RECEIVED OF David Berhcek, 46418 196th St, Bruce SD 57220

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

Fee for Application for Permit No. <u>4652-3</u> to Appropriate Water, to construct and to put water to beneficial use	225	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>4652-3</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	275.00

No.

001975

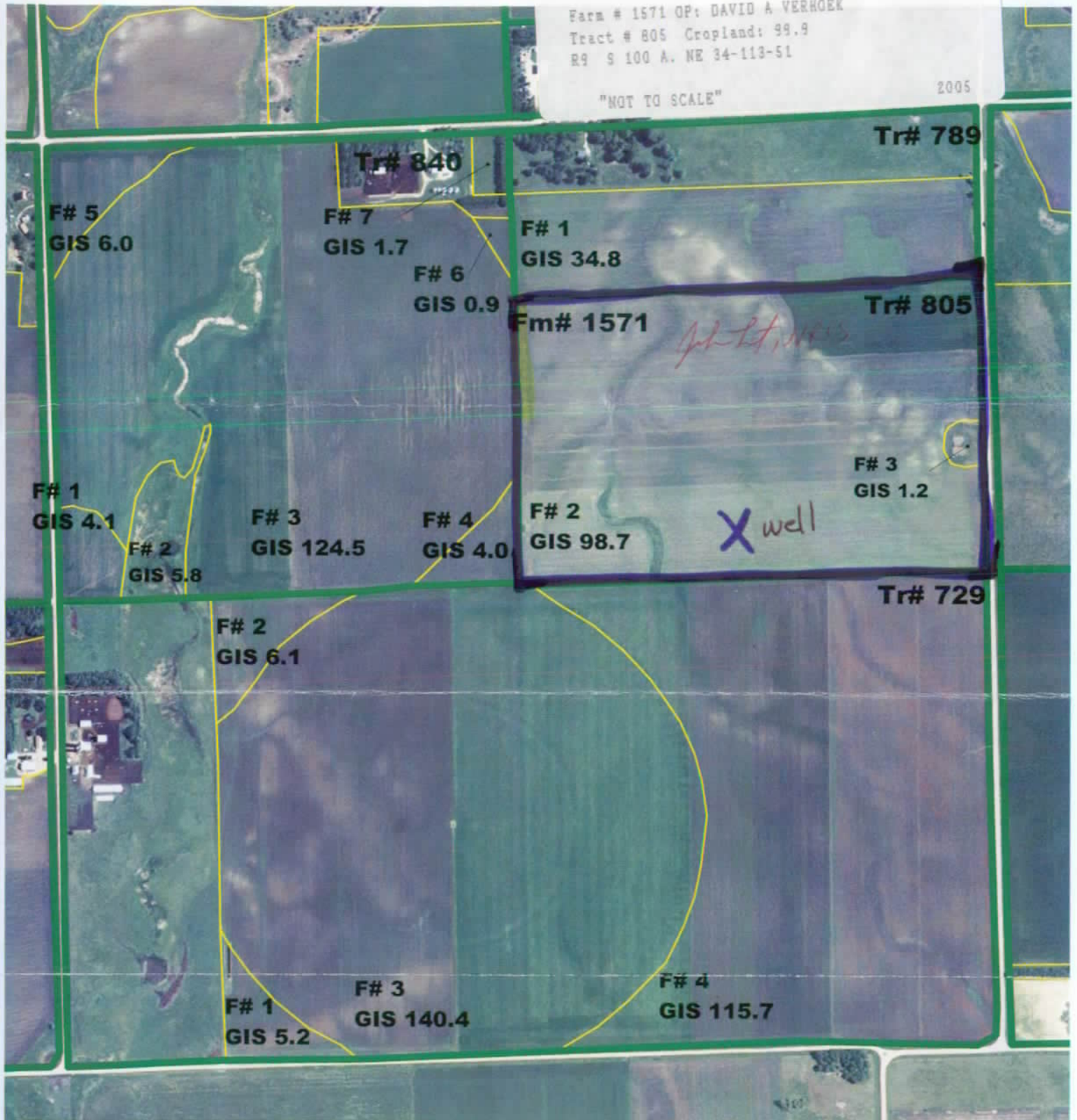
By

Darlan S. Elbe
Chief Engineer *gm*

Farm # 1571 OP: DAVID A. VERHOEK
Tract # 805 Cropland: 99.9
R9 S 100 A. NE 34-113-51

"NOT TO SCALE"

2005



United States Department of Agriculture
Farm Service Agency

34-113-51

October 31, 2003

Hamlin County

1997 Digital Orthophotography - Not To Scale

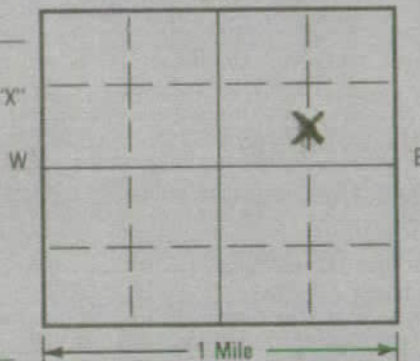


SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NE 1/4 SE 1/4 Sec 34 Twp 113 Rg 51County Hamilton North

Please mark well location with an "X"



Well Completion Date

8-15-05

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 1700 ft. from well (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Percut RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>3440</u> LB/FT	<u>3</u> IN	<u>30</u> FT	<u>35</u> FT	<u>7 1/2</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>Ben Seal</u>	<u>31</u>	<u>54</u> lb./gal	<u>0</u> ft	<u>30</u> ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure pressure groutingSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 3 IN Length 20 FEETMaterial plasticSlot Size 1035 Set From 35 Feet to 55 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: H2O2 Tablets

Laboratory sent to for water _____

NO, Why Not? _____

Well Owner: David Verhulst

Business Name: _____

Address: 66418 196th St.Bruce, SD 57220

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	2
yellow clay	2	4
yellow green - 1st w/c	4	18
yellow clay	18	27
yellow fine to medium w/c 20 links	27	40
yellow clay	40	42
yellow medium coarse w/c 15 links	42	55
yellow clay	55	60

STATIC WATER LEVEL

21'6" Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☒ PumpedDescribe: air lift☐ Bailed☐ Other

Pumping Level Below Land Surface

21 ft. After 1 Hrs. pumped 70F GPM_____ ft. After _____ Hrs. pumped 70F GPM

If pump installed, pump rate _____ GPM

REMARKS

This well was drilled under license # 689

And this report is true and accurate.

Drilling firm Kaiser Well Drilling

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

RECEIVED

AUG 24 2005

WATER RIGHTS PROGRAM

Forgot to send this
along with my permit
information.

David
Unbrock

cell no. 690-8089

RECEIVED
AUG 24 2005
WATER RIGHTS
PROGRAM

REPORT ON WATER PERMIT APPLICATION NO. 6652-3
For David Verhoek
September 13, 2005

Application No. 6652-3 proposes to appropriate 1.78 cfs (800 gpm) from one well approximately 55 feet deep located in the S $\frac{1}{2}$ NE $\frac{1}{4}$ of section 34 to irrigate 90 acres located in the NE $\frac{1}{4}$ of section 34; all in T113N R51W in Hamlin County. The applicant is requesting a diversion rate greater than the statutory limit of one cfs per 70 acres.

AQUIFER – BIG SIOUX BROOKINGS (BS-B)

The Big Sioux Brookings is mostly a surficial outwash (sand and gravel) that is under predominantly water table conditions in Hamlin County however in this area the aquifer can be under slightly artesian conditions. The aquifer underlies 88,500 acres and contains an estimated 331,880 acre-feet of recoverable water in storage in Hamlin County (Hedges, 1982). The aquifer extends into Brookings County to the south, blends into the Big Sioux North aquifer to the north and is hydraulically connected to some area lakes and the Big Sioux River. Ground water movement is from west to east in this area and towards the Big Sioux River (Kume, 1986). Recharge to the Big Sioux aquifer ranges from 6.57 inches per year in the water table portion of the aquifer to 3.29 inches per year for the artesian portion of the aquifer (Koch, 1980). For an area of 88,500 acres for the Big Sioux Brookings aquifer also under water table conditions this would equate to a volume of 48,500 acre-feet annually. The water use from the Big Sioux Brookings aquifer in Hamlin County has never exceeded 6,000 acre-feet annually.

The test well log filed with the application indicates sand and gravel from 4 to 18 feet followed by clay from 18 to 27 feet, followed by sand from 27 to 40 feet, followed by clay from 40 to 42 feet followed by medium to coarse sand and gravel from 42 to 55 feet all below land surface. The reported water level was 21.5 feet below land surface the test well was capable of producing over 70 gpm using air to develop. This information fits well with other well and test hole data for this area.

The Water Rights Program monitors an observation well HN-77A located about one-half mile east of this proposed well. 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 years. The effects of nearby pumping are not so obvious but the water levels seem to be effected by the general climatic conditions more than the pumping. In general the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2005). A hydrograph for this observation well is included with this report.

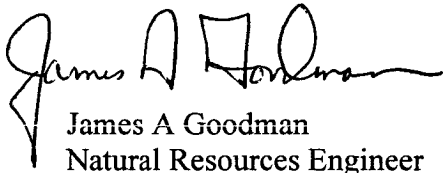
REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are two existing water right Nos. 3565-3 and 2728A-3 located in the same section as this application. The two existing wells are located about one-half mile from the proposed well. Of the two existing wells, the production well for 2728A-3 would be

located about 2,300 feet southwest of this proposed well. Interference is not expected to be a concern. There is fluctuation of water levels in this area. The observation well record indicates nearly 15 feet of changes from very wet years to dry years. However during the year the change appears to be in the two to four foot range. Drawdown will occur as a result of pumping but at this distance between wells and at these pumping rates interference should not be adverse.

CONCLUSIONS

1. Water is available from the Big Sioux Brookings aquifer.
2. The aquifer is under water table conditions at this site, however in the immediate area the aquifer can be under artesian conditions. The additional drawdown created by this well should not cause any adverse effects upon existing users. Interference should not be 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

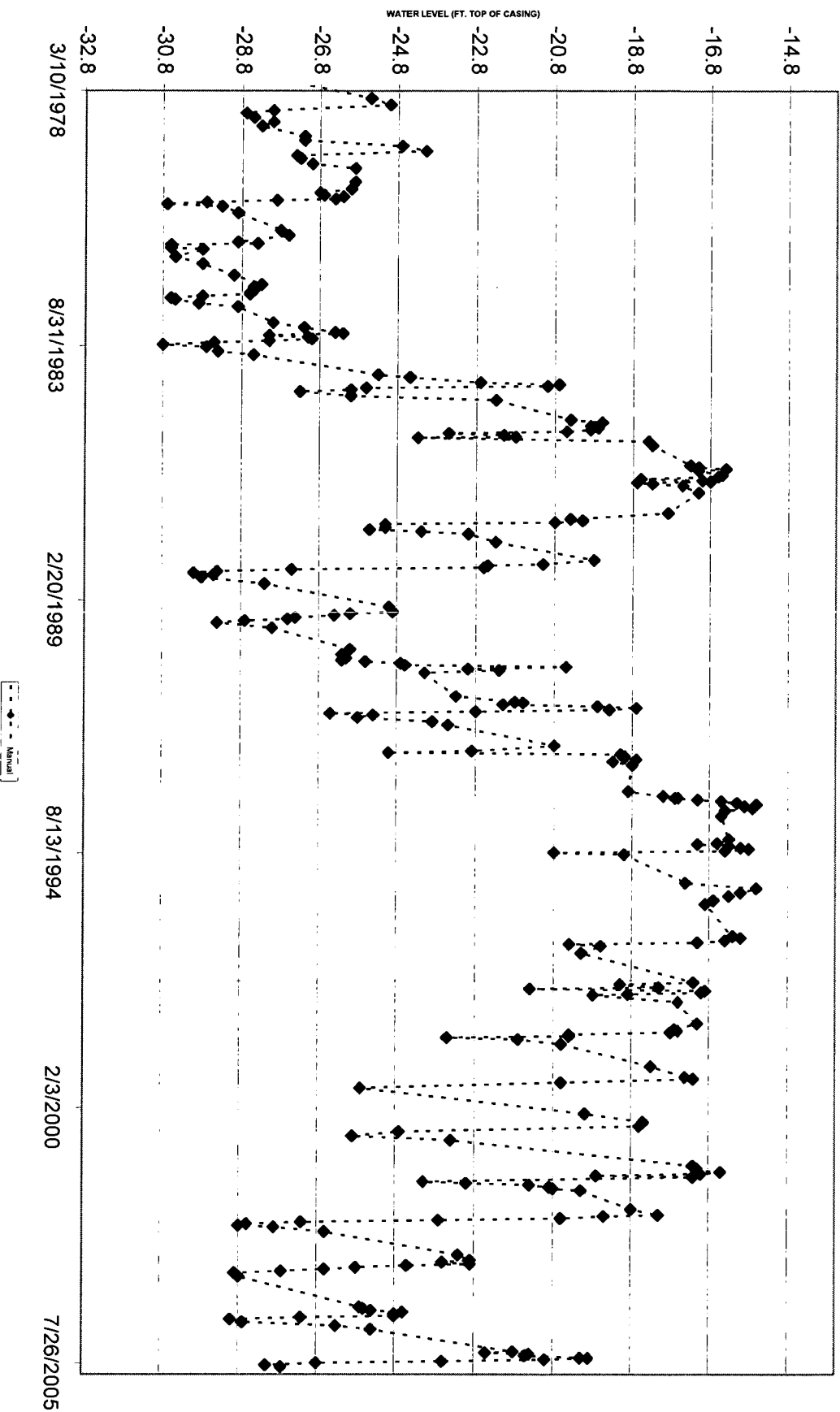
BIBLIOGRAPHY

Koch, N.C., 1980, Appraisal of the Water Resources of the Big Sioux Aquifer, Brookings, Deuel, and Hamlin Counties, South Dakota, Water-Resources Investigations 80-100, USGS, Huron, SD, 57350.

Kume, J., 1985, Water Resources of Deuel and Hamlin Counties, South Dakota, Water Resources Investigations Report 84-4069, USGS, Huron, SD, 57350.

Water Rights, 2005, Unpublished Observation Well Data for the Big Sioux Aquifer, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL HN-77A





**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. 6652-3, David Verhoek**

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. 6652-3, David Verhoek, 46418 196th Street, Bruce SD 57220.

The Chief Engineer is recommending APPROVAL of Application No. 6652-3 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. 6652-3 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 19, 2005

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
 County of Hamlin) SS

I, Lee Anne Archer

certify that the attached printed Notice was taken

from the The Estelline
Journal

printed and published in Estelline

County of Hamlin and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

Sept. 28, 2005
Oct. 5, 2005

Cost of Printing 38.01

Lee Anne Archer
 (Signature)

Owner
 (Title)

10/6/2005
 (Date Signed)

**NOTICE OF APPLICATION NO.
 6652-3 TO APPROPRIATE
 WATER**

Notice is given that David Verhoek, 46418 196th St., Bruce, SD 57220 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second (cfs) from one well to be completed into the Big Sioux: Brookings Aquifer (approximately 55 feet deep) located in the S 1/2 NE 1/4 Section 34 to irrigate 90 acres located in the NE 1/4 Section 34; all in T113N-R51W. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6652-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of 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 October 17, 2005.

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,
 DENR
 (publish sept. 28 and oct. 5, 2005)

RECEIVED

OCT 11 2005

**WATER RIGHTS
 PROGRAM**

Instruction to Newspaper - Publish first Notice on September 28, 2005 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6652-3 to Appropriate Water

Notice is given that David Verhoek, 46418 196th St, Bruce SD 57220 has filed an application for a water permit to appropriate 1.78 cubic feet of water per second (cfs) from one well to be completed into the Big Sioux:Brookings Aquifer (approximately 55 feet deep) located in the S ½ NE ¼ Section 34 to irrigate 90 acres located in the NE ¼ Section 34; all in T113N-R51W. The applicant is requesting a diversion rate greater than the statutory limit of 1 cfs per 70 acres.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6652-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the application, as recommended, unless a petition is filed opposing the application or the applicant files a petition contesting the Chief Engineer's recommendation. If a petition opposing the application or contesting the recommendation is filed, then a hearing will be scheduled and the Water Management Board will consider the application. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting this application or recommendation must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by October 17, 2005.

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

September 20, 2005

Estelline Journal
214 Main St
Estelline SD 57234-0159

ATTENTION: Legal Public Notice

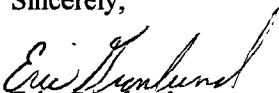
Enclosed is a Notice on Application No. 6652-3 to Appropriate Water to be published twice. Please publish the first notice on September 28, 2005 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

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 David Verhoek, 46418 196th St., Bruce SD (Ph # 605-873-2147).

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. 6652-3

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

Date _____

We are in receipt of your letter of September 20, 2005 enclosing Notice to Appropriate Water by Application No. 6652-3 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.**

September 20, 2005

David Verhoek
46418 196th St
Bruce SD 57220

Dear Mr. Verhoek:

Water Permit Application No. 6652-3 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 Estelline Journal printed at Estelline, SD (Ph # 605-873-2475). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks. The newspaper has also been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

DEC 15 2005

David Verhoek
46418 196th St
Bruce SD 57220

Dear Mr. Verhoek:

Enclosed is Water Permit No. 6652-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

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

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

Sincerely,

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

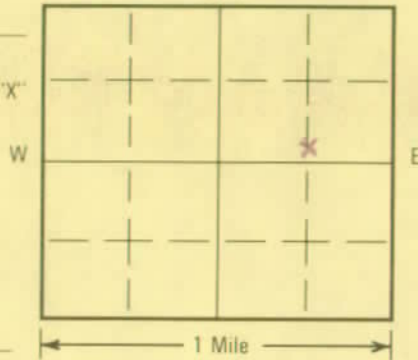
enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NE $\frac{1}{4}$ SE $\frac{1}{4}$ Sec 34 Twp 113 Rg 5-1County Hamlin North

Please mark well location with an "X"



Well Completion Date

3-17-06

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 200' ft. from Well (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Direct RotaryCASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>Sub 40</u> LB/FT	<u>8</u> IN	<u>2 1/2</u> FT	<u>50</u> FT	<u>12 1/2</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>portland</u>	<u>36</u>	<u>94</u> lb./gal	<u>0</u> ft.	<u>40</u> ft.
<u>Cement</u>		_____ lb./gal	_____ ft.	_____ ft.

Describe grouting procedure pressure pull methodSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 8 IN Length 10 FEETMaterial Stainless steelSlot Size .080 Set From 50 Feet to 60 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: _____

NO, Why Not? _____

Laboratory sent to for water quality analysis _____

Well Owner: David Verhoeck

Business Name: _____

Address: 46415 196th St.
Box 57220

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>Topsoil</u>	<u>0</u>	<u>1</u>
<u>yellow clay</u>	<u>1</u>	<u>5</u>
<u>yellow gravel 2 links</u>	<u>5</u>	<u>10</u>
<u>yellow clay</u>	<u>10</u>	<u>12</u>
<u>yellow gravel medium 4 links</u>	<u>12</u>	<u>18</u>
<u>yellow clay</u>	<u>18</u>	<u>22</u>
<u>yellow fine to medium 12 links</u>	<u>22</u>	<u>35</u>
<u>Medium to coarse w/c 15 links</u>	<u>35</u>	<u>60</u>
<u>Rice Sand</u>	<u>60</u>	<u>65</u>

STATIC WATER LEVEL

21'6"

Feet

If flowing: closed in pressure _____

PSI

GPM flow _____ through _____

inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced Flowrate _____

GPM

Can well be completely shut in? _____

WELL TEST DATA:

☐ PumpedDescribe: Sub. pump☐ Bailed☐ Other

Pumping Level Below Land Surface

35 ft. After 1 Hrs. pumped 320 GPM_____ ft. After 20 Hrs. pumped 320 GPM

If pump installed, pump rate _____

GPM

REMARKS

yellow clay 65-70This well was drilled under license # 689

And this report is true and accurate.

Drilling firm Kaiser Well Drilling

Signature of License Representative: _____

Signature of Well Owner or Equitable Property Holder: _____

David VerhoeckDate: 4/10/06

RECEIVED
APR 26 2006
WATER RIGHTS
PROGRAM

SOUTH DAKOTA WATER WELL COMPLETION REPORT

6652-3

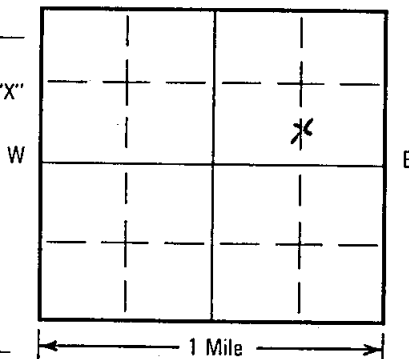
07-92

Location NE 1/4 SE 1/4 Sec 34 Twp 113 Rg 51

County Hanlin

North

Please mark well location with an "X"



Well Completion Date

1-14-06

LOCATION:

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

PROPOSED USE:

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

METHOD OF DRILLING:

Direct Rotary

CASING DATA: ☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>Sec 40</u> LB/FT	<u>12</u> IN	<u>1aby</u> FT	<u>40</u> FT	<u>17 1/2</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUTING DATA

Grout Type	No. of Sacks	Grout Weight	From	To
<u>portland cement</u>	<u>32</u>	<u>94</u> lb./gal	<u>0</u> ft.	<u>35</u> ft.
_____	_____	_____ lb./gal	_____ ft.	_____ ft.

Describe grouting procedure pressure pull method

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 12 IN Length 15 FEET

Material Stainless steel

Slot Size .080 Set From 40 Feet to 55 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? _____

Laboratory sent to for water quality analysis

Pitman

Well Owner David Urshock

Business Name: _____

Address: 46418 196th St
Bruce, SD 57220

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	1
yellow clay	1	5
yellow gravel 2 links	5	10
yellow clay	10	12
yellow gravel medium 6 links	12	18
yellow clay	18	22
yellow fine to medium w/ 10 links	22	35
Medium to coarse w/ 20 links	35	55
yellow clay	55	60

STATIC WATER LEVEL 216'

If flowing: closed in pressure _____

GPM flow _____ through _____ inch pip

Controlled by ☐ Valve ☐ Reducers ☐ Other

Reduced Flowrate _____ WATER RIGHTS PROGRAM _____ GPM

Can well be completely shut in? _____

WELL TEST DATA:

☐ Pumped

Describe: Sub pump

☐ Bailed

☐ Other

Pumping Level Below Land Surface

37 1/2 ft. After 6 Hrs. pumped 500 GPM

40 ft. After 19 Hrs. pumped 460 GPM

If pump installed, pump rate _____ GPM

REMARKS

mailed to state
3-2-06

This well was drilled under license # 689

And this report is true and accurate.

Drilling firm Kaiser Well Drilling

Signature of License Representative:

David Urshock

Signature of Well Owner or Equitable Property Holder:

David Urshock

Date: 1/31/06

6652-3

The 2nd well that I put in is 200' straight south of the 1st well. The 1st well will put out 400 gpm and the 2nd well will put out 300 gpm. We thought that the 1st well was going to be 800 gpm but turned out to be $\frac{1}{2}$ that so we needed a 2nd well.

David Verhoek

RECEIVED

Permit no. 6652-3

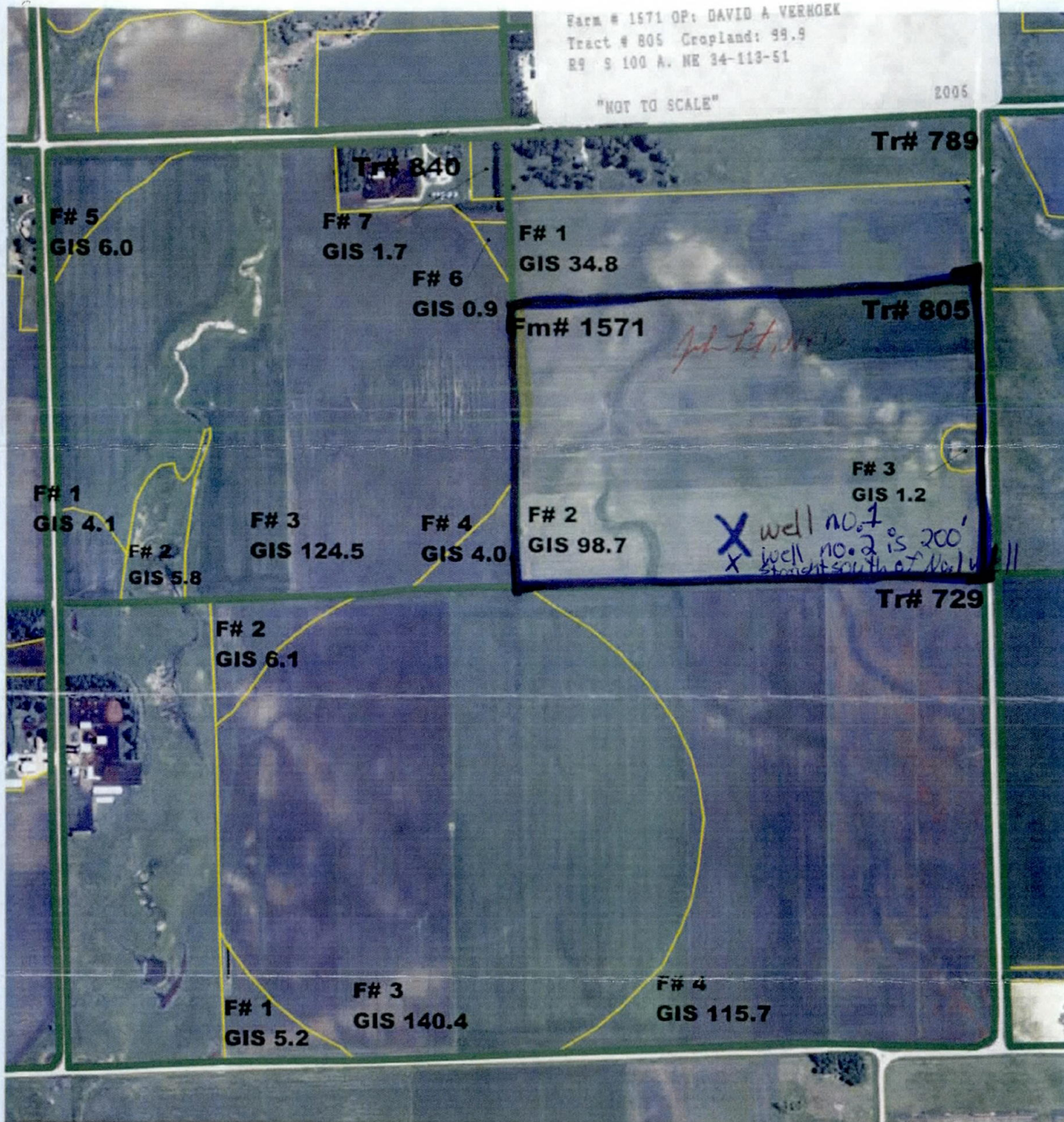
MAY 15 2006

WATER RIGHTS
PROGRAM

Farm # 1571 OP: DAVID A VERHOEK
Tract # 805 Cropland: 99.9
R# S 100 A. NE 34-113-51

"NOT TO SCALE"

2005



United States Department of Agriculture
Farm Service Agency

34-113-51

October 31, 2003

Hamlin County

1997 Digital Orthophotography - Not To Scale



Approval of an Additional Diversion Point

NAME: David Verhoek

ADDRESS: 46418 196th Street, Bruce

DATE: May 16, 2006

COUNTY: Hamlin **TELEPHONE:**

BACKGROUND:

David Verhoek obtained Water Permit No. 6652-3 in 2005 appropriating 1.78 cfs from one well to be completed into the Big Sioux:Brookings Aquifer located in the S ½ NE ¼ Section 34 to irrigate 90 acres in the NE ¼ Section 34; all in T113N, R51W. Mr. Verhoek has filed a request for an additional well to the one well authorized by Water Permit No. 6652-3. This request is made pursuant to SDCL 46-5-13.1 to authorize an additional well.

The additional well is also located in the S ½ NE ¼ Section 34, T113N, R51W.

Kaiser well drilling submitted two well completion reports for the area. A review of the water permit showed one well authorized by the permit. Mr. Verhoek was contacted and indicated that he did not get the anticipated production from the initial well so he made the decision to drill a second well 200 feet south of the first well. It was explained to Mr. Verhoek that pursuant to SDCL 46-5-13.1 he needed to get authorization for the additional well. He submitted a note and map showing the location of the two wells. Combined the two wells produce 700 gpm.

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

- **Developed water source same as permitted source and no additional water appropriated**

Both wells are constructed into the Big Sioux:Brookings Aquifer. Well completion reports are on file for both wells. The wells are 60' and 65' deep.

No additional appropriation of water is being requested. The original water permit appropriates 1.78 cfs (800 gpm). Mr. Verhoek states that the two wells combined can produce 700 gpm.

- **Review of Existing Diversions**

A review was conducted of existing water rights and domestic wells. There are two water rights that appropriate water from the Big Sioux:Brookings Aquifer located west and southwest of Verhoek's wells. The additional well is located approximately 200 feet south

of the originally planned well. The two wells are not located significantly closer to these existing permitted wells. The report on the application stated that drawdown will occur but at the distance between wells and a pumping rates interference should not be adverse.

A review of well completion records in the Water Right database found 3 domestic/stock wells constructed into the Big Sioux:Brookings Aquifer owned by others in neighboring sections. This review reflects only those well completion reports on file with the Water Rights Program.

CONCLUSION

- The additional well does not appropriate additional water.
- The additional well is constructed into the Big Sioux:Brookings Aquifer which is the same water source as the existing well authorized by Water Permit No. 6652-3.
- Existing domestic wells and prior water rights should not be adversely impacted by authorizing this additional well.
- There have been no complaints regarding development at this site.

RECOMMENDED ACTION

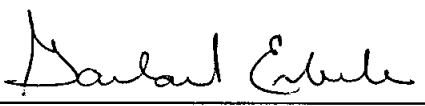
Based on the above criteria, it is recommended that the additional diversion be authorized under Water Permit No. 6652-3.



Eric Gronlund
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

This additional diversion point does not increase the potential for adverse effects to existing diversions.



Garland Erbele, Chief Engineer
Water Rights Program



6652-3

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

May 18, 2006

David Verhoek
46418 196th Street
Bruce SD 57220

Dear Mr. Verhoek:

I am writing in regard to your request for an additional well to be authorized by Water Permit No. 6652-3. Water Permit No. 6652-3 appropriates 1.78 cfs from one well to be completed into the Big Sioux:Brookings Aquifer located in the S ½ NE ¼ Section 34 to irrigate 90 acres in the NE ¼ Section 34; all in T113N, R51W.

You have requested authorization for an additional well that was drilled approximately 200 feet south of the originally intended well. The two wells are completed into the Big Sioux:Brookings Aquifer and the total diversion rate from these wells does not exceed 800 gallons per minute.

Upon review of the request and pursuant to SDCL 46-5-13.1, the additional well is authorized without application or publication of a notice of hearing pursuant to SDCL 46-2A-4.

If you have any questions, please contact Eric Gronlund at (605) 773-3352.

Sincerely,

Garland Erbele, Chief Engineer
Water Rights Program

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

Date 6/13/06

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

RECEIVED
JUN 15 2006
WATER RIGHTS
PROGRAM

FROM: David Verhock
(name)
46418 196th St.
(address)
Bruce, SD 57220
(city, state, zip)

605-873-2147
(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.

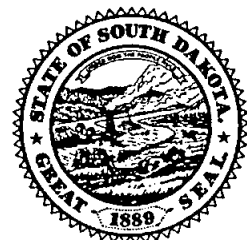
Water Permit No. 6652-3 states that the water use system is to be constructed by 10/17/10, and water is to be put to beneficial use by 10/17/14.
(date) (date)

The water use system was completed on 5/25/06.
(date)

Applying the water to beneficial use was completed on 6/5/06.
(date)

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

David Verhock
(signature)



Permit No. 6652-3
Sioux 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, **September 7, 2006**, made a thorough examination of the water use system constructed by **David Verhoek** of **46418 196th St., Bruce, SD 57220** holder of Permit No. **6652-3**, bearing the priority of **August 22, 2005** authorizing the diversion of **1.78** cu. ft. per second of the waters of **Big Sioux:Brookings Aquifer** for **Irrigation** purposes, in **Brookings** County.

Inspection contact & relationship **David Verhoek (873-2147)**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: **Kaiser Well Drilling**
- 2) No. of Wells **2**
- 3) Depth(s) **Well 1: 60 feet and Well 2: 65 feet**
- 4) Well log is available **Y**

Casing:

- 1) Diameter **Well 1: 12 inches and Well 2: 8 inches**
- 2) Length **Well 1: 35 feet and Well 2: 50 feet**
- 3) Type **Plastic**

Screen:

- 1) Type **Stainless Steel**
- 2) Length **Well 1: 15 feet and Well 2: 10 feet**
- 3) Static water level **21** feet

Pump for Well 1:

- 1) Make **Goulds Submersible**
- 2) Capacity **400** GPM

Pump for Well 2:

- 1) Make **Goulds Submersible**
- 2) Model **Ser # UK95R2033901**
- 3) Capacity **300** gpm

Motor for Well 2:

- 1) Make US Motor
- 2) Model No. Ser. No. UK95R2033901
- 3) Horsepower rating 30 hp at 3520 rpm

B. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Reinke
- 2) Number of towers 7
- 3) End gun Y
- 4) High or low pressure Low

Chemigation Equipment:

- 1) Does chemigate N

C. Compliance with Permit Requirements:

- 1) Permit qualifications being abided by Y
- 2) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y
- 3) Exceptions to compliance are: None

The system is in Good condition with the point(s) of diversion located as follows:

Well 1: Approximately 2290 feet south and 1305 feet west of the NE corner of Section 34-T113N-R51W (N 44.55205, W -96.93110).

Well 2: Approximately 2443 feet south and 1305 feet west of the NE corner of Section 34-T113N-R51W (N 44.55163, W -96.93116).

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

Section 34-T113N-R51W

NE ¼ NE ¼ - 11 acres

NW ¼ NE ¼ - 20 acres

SE ¼ NE ¼ - 20 acres

SW ¼ NE ¼ - 30 acres

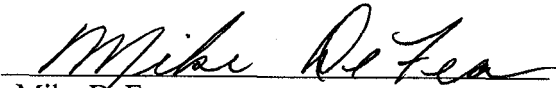
comprising a total of 81 acres of land and the license should be issued for 1.56 cfs.

Report of Examination of Works

Permit No. 6652-3

All structures, wells and lands on map Y

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

A handwritten signature in black ink, appearing to read "Mike DeFea", is written over a horizontal line.

Mike DeFea

Natural Resources Project Engineer

DENR, Water Rights Program

Date report completed: May 24, 2007

David Verhoek
46418 196th St
Bruce, SD 57220
873-2147

Water Permit No. 6652-3



Section 34-T113N-R51W

Hamlin

Brookings

Well 1

Well 2

Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
May 29, 2007



0 800 1,600 3,200 Feet



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

AUG 03 2007

6652-3

David Verhoek
46418 196th St
Bruce SD 57220

Dear Mr. Verhoek:

Enclosed is Water License No. 6652-3. This is the final water right document completing your process of obtaining a Water Right. Also, included with your license is a map prepared by the staff engineer who conducted the 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. 6652-3, 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. 6652-3

(1) David Verhoek, 46418 196th St, Bruce SD 57220 made Application No. 6652-3, August 22, 2005 for a water permit to divert 1.78 cubic feet of water per second from groundwater (one well), Brookings County, South Dakota for irrigation purposes. Permit No. 6652-3, with a priority date of August 22, 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 water on or before October 17, 2014.

On May 18, 2006, a request was approved for an additional well located in S ½ NE ¼ Section 34-T113N-R51W. Pursuant to SDCL 46-5-13.1, the Chief Engineer made a finding that the additional diversion point did not increase the potential for adverse effects to existing diversions.

The permit holder submitted a *Notice of Completion of Works and Application of Water to Beneficial Use* on June 15, 2006. The *Notice* stated the diversion system was completed on May 25, 2006 and the water placed to beneficial use on June 5, 2006.

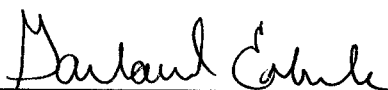
(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 6652-3 is issued a license, bearing a priority date of August 22, 2005 to appropriate 1.56 cubic feet of water per second from groundwater (two wells) to irrigate 81 acres.

The diversion points are located: Well 1: approximately 2,290 feet south and 1,305 feet west (SE ¼ NE ¼) and Well 2: approximately 2,443 feet south and 1,305 feet west (SE ¼ NE ¼); both from the northeast corner Section 34-T113N-R51W. The acres authorized for irrigation are as follows:

Section 34-T113N-R51W	NE ¼ NE ¼	11 acres
	NW ¼ NE ¼	20 acres
	SE ¼ NE ¼	20 acres
	SW ¼ NE ¼	30 acres
Total 81 acres		

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6652-3 including the following now applicable qualifications:

- The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The wells authorized by Permit No. 6652-3 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.
- 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

AUG 03 2007
date



Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 6652-3

I have this day, April 1, 2015, made a thorough examination of the water use system constructed by David Verhoek, 46418 196th St, Bruce SD 57220 Permit No. 6652-3, bearing the priority of August 22, 2005 authorizing the diversion of 1.78 cu. ft. per second of the waters of Big Sioux Brookings aquifer for irrigation purposes, in Hamlin County.

Inspection contact & relationship **David Verhoek**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: Kaiser Well Drilling
- 2) No. of Wells 2 wells
- 3) Depth(s) 60 and 55 feet
- 4) Well log is available Yes (2 logs)

Casing:

- 1) Diameter 8 and 12 inches
- 2) Length 50 and 40 feet
- 3) Type both plastic

North Motor/Pump:

- 1) Make Submersible
- 2) Capacity 400 GPM

Screen:

- 1) Type both stainless steel
- 2) Length 10 and 15 feet
- 3) Static water level 21.5 feet

South Motor/Pump:

- 1) Make Submersible
- 2) Capacity 300 GPM

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

- 1) Type PVC
- 2) Size 8 inches
- 3) Length 200 feet

Comments: Short run of aluminum pipe from North well to pivot in section 34-T113N-R51W

C. Works used to apply water to beneficial use:

Center pivot (section 34):

- 1) Make Reinke
- 2) Number of towers 7
- 3) End gun Y
- 4) Capacity 700 GPM

Fixed Gun at South Well Site:

- 1) Make unknown
- 2) Capacity 700 GPM
- 3) Hose size not applicable

Center pivot and fixed gun cannot be operated at the same time.

Chemigation Equipment:

- 1) Does chemigate Yes
- 2) Main line check valve Yes

Report of Examination of Works

Permit No. 6652-3

- 3) Inspection port/air relief Yes
- 4) Low pressure drain Yes
- 5) Discharge is 20' from source Need hose
- 6) Interlock type electrical
- 7) Injection pump type not on site
- 8) Injection check valve not on site
- 9) Injection line check valve or positive displacement pump not on site

Comments: **The equipment at the site was adequate provided a hose is used on the low pressure drain.**

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 Already licensed
- 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: North well: 1,320 feet west and 3,075 feet north (Long. -96.93109, Lat. 44.55212); South well: 1,345 feet west and 2,890 feet north (Long. -96.93118, Lat. 44.55161) both from SE corner section 34-T113N-R51W (S1/2 NE1/4).
2. The works are capable of diverting and conveying to the place of use 1.56 cu. ft. per second of water which is to be used for irrigation purposes. Water has been put to beneficial use to the maximum extent as follows: All in section 34-T113N-R51W

NW1/4 NE1/4 6 acres
SW1/4 NE1/4 34.5 acres

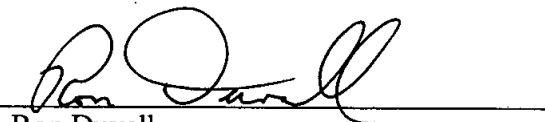
NE1/4 NE1/4 6 acres
SE1/4 NE1/4 34.5 acres

comprising a total of 81 acres of land and the license should be issued for 1.56 cfs.

3. All structures, wells and lands on map Yes

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

Water Right No. 6652-3 needs to be reissued to correct the location of the irrigated acreage. According to the original application, and confirmed by Mr. Verhoek, the pivot has never swung a full circle so the location of the irrigated acreage is incorrect -- total acres irrigated remains unchanged. The same wells used for irrigation under this permit are also used to irrigate land covered by Water Permit No. 7238-3. A document to correct the diversion point location has been prepared. Mr. Verhoek indicated a preference that No. 7238-3 and No. 6652-3 not be incorporated together.



Ron Duvall

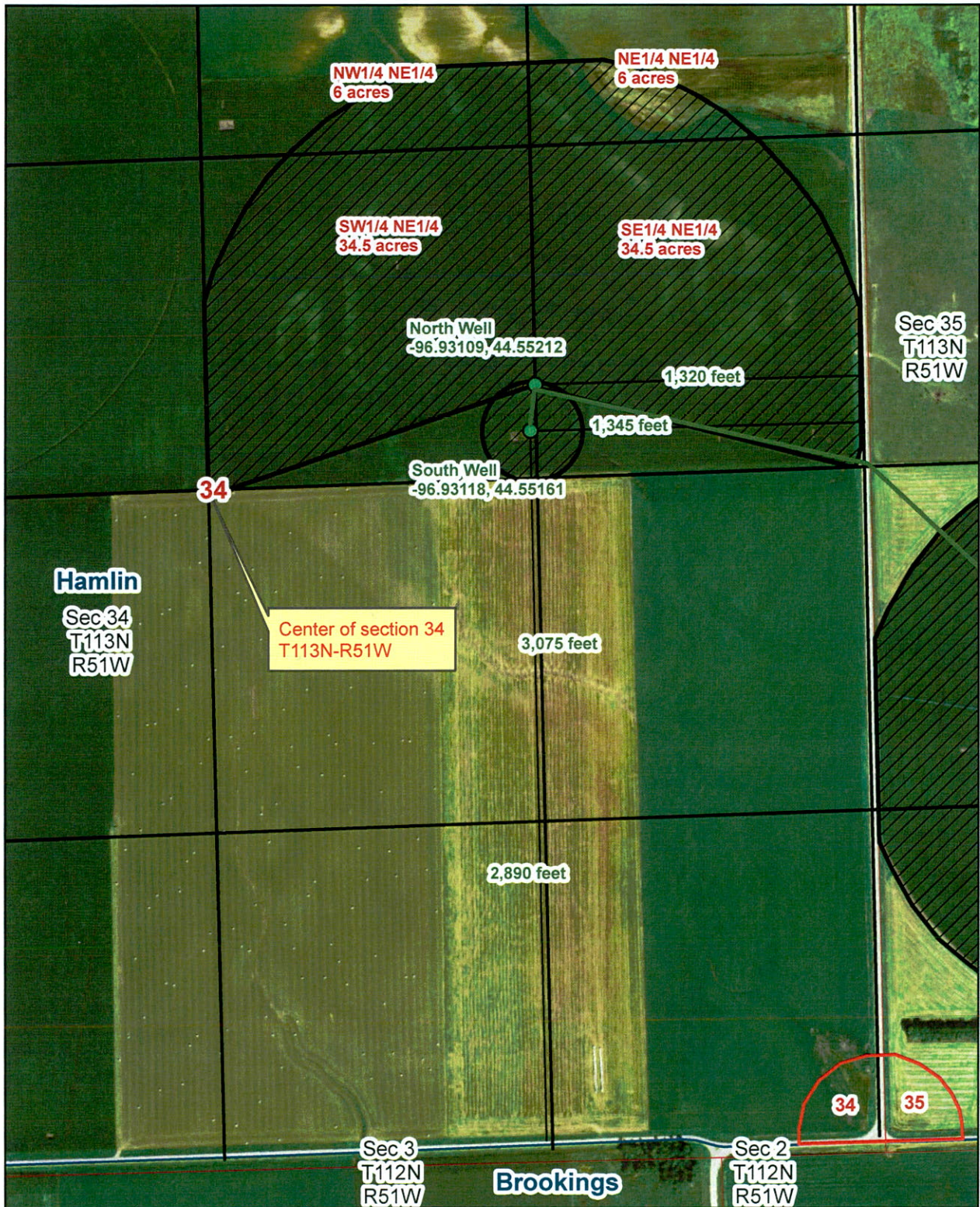
Water Rights Permitting Administrator
DENR, Water Rights Program

Date report completed: June 16, 2015

Scale: 1 inch = 603 feet

840

Feet



South Dakota
Department of Environment
& Natural Resources
Water Rights

Completed by:

Ron Duvall
Ron Duvall, WR Permitting Administrator
Water Rights Program

Diversion point(s) located using a Garmin eTrex 10 GPS

Date: June 4, 2015

Water Right No. 6652-3

Approval of Diversion Point Location Change

NAME: David Verhoek

ADDRESS: 46418 196th St, Bruce SD 57220

DATE: June 16, 2015

COUNTY: Hamlin

TELEPHONE: (605) 873-2147

AUTHORITY:

Pursuant to SDCL 46-5-13.1, the location of a diversion point may be changed or additional diversion points may be licensed provided the following conditions are met and the potential for interference with other existing diversions is not increased:

- **Developed water source same as permitted source and no additional water appropriated**

Two wells are currently being used to irrigate acreage covered by Permit No. 7238-3 and Water Right No. 6652-3. The water source for the wells is the Big Sioux Brookings aquifer as specified on both No. 6652-3 and No. 7238-3 and the combined diversion rate from both wells does not exceed the permitted amount.

- **If irrigation, no new land is irrigated**

The irrigated acreage (81 acres – No. 6652-3 and 104 acres – No. 7238-3) does not exceed the number of authorized acres and the irrigated land is within the areas described on No. 6652-3 and No. 7238-3.

- **Review of Existing Diversions**

Application No. 6652-3 originally specified the S1/2 NE1/4 section 34-T113N-R51W as the diversion point location. The permit holder later requested, and was granted, approval to drill a second well 200 feet south of the original well. The second, south well, is slightly further west than the northern-most well site. Based on the location it appears the southern well may be located in the SW1/4 NE1/4 but the license for No. 6652-3 was issued for only the SE1/4 NE1/4. This legal description was then carried over to No. 7238-3 as the location for both wells. Since both wells are nearly on the line between the quarter quarters expanding the legal description to specify the S1/2 NE1/4 will ensure both wells are covered.

Following is an excerpt for the report completed for during consideration of Application No. 7238-3:

There are two existing irrigation wells in this same section. The well for Water Right No. 2728A-3 (130 acres, 1.78 cfs) is located about 2,285 feet to the southwest and the well for Water Right No. 3565-3 (127 acres, 1.78 cfs) is located about 2,850 feet northwest of these existing wells. Interference is not expected to be a problem. Drawdown created by pumping does not extend very far from a production well and this distance between wells should be sufficient to minimize any potential effects. These wells have been in use for a few years.

There have been no additional permits approved for any location closer to the wells covered by Nos. 6652-3 and 7238-3 than those described in the above report excerpt. Since the location of the southern-most well is only a few feet outside of the permitted location, making it slightly closer to the wells covered by No. 2728A-3 and 3565-3, no increase in the potential for interference is expected. In addition, nothing in the files for any of the permits/rights indicates past interference problems between wells.

RECOMMENDED ACTION

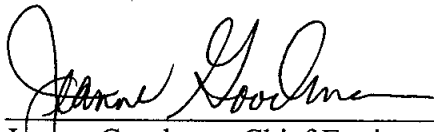
Based on the above criteria, it is recommended that the diversion points be licensed as developed for No. 7238-3 and that the license for No. 6652-3 be reissued to include the expanded legal description (S1/2 NE1/4 section 34-T113N-R51W) for the two wells and to correct the location of the irrigated acreage (see Report of Examination of Works dated June 16, 2015, for more information about the acreage correction).



Ron Duvall, Natural Resources Engineer
Water Rights Program

The Chief Engineer makes a finding pursuant SDCL 46-5-13.1 and ARSD 74:02:01:14.01 that:

This change in location of the diversion points does not increase the potential for adverse effects to existing diversions.



Jeanne Goodman, Chief Engineer
Water Rights Program



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

JUN 18 2015

6652-3
7238-3

David Verhoek
46418 196th St
Bruce SD 57220

Dear Mr. Verhoek:

Enclosed is Water License No. 7238-3 and Reissued Water License No. 6652-3. Included with the licenses are maps 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 wells authorized by Water Right No. 6652-3 and 7238-3, constructs a replacement well and does not plan to use the old well, the old well is considered abandoned and must be plugged. Also, any well that is being used or is not considered abandoned must be valved and controlled, if flowing, or sealed and capped so that no leaking occurs either underground or at the surface.

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

Sincerely,

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

enclosures

**STATE OF SOUTH DAKOTA
REISSUED WATER LICENSE NO. 6652-3**

(1) David Verhoek, 46416 196th St, Bruce SD 57220 was issued Water License No. 6652-3, August 3, 2007 for a water permit to divert 1.56 cubic feet of water per second (cfs) from ground water (two wells, Big Sioux Brookings Aquifer), Brookings County, South Dakota for irrigation purposes. Water License No. 6652-3, with a priority date of August 22, 2005 was issued to the permit holder for diversion of water with construction of the water supply system and the application to beneficial use of water completed.

An inspection of Water Permit No. 7238-3 for licensing purposes found discrepancies existed in the location of the wells and irrigated acreage described in Water License No. 6652-3. The original license is being reissued to correct the description of the wells and identify the correct location of acres.

(2) It is certified that the water right holder has complied with the provisions of South Dakota State Law relating to completion 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 points are both in the S ½ NE ¼ Section 34, T113N, R51W as described below:

- north well: 1,320 feet west and 3,075 feet north of the SE corner of Section 34, T113N, R51W
- south well: 1,345 feet west and 2,890 feet north of the SE corner of Section 34, T113N, R51W

The wells described above also supply the center pivot located in the SW ¼ Section 35, T113N, R51W authorized under No. 7238-3. Combinations of diversions cannot exceed the authorized diversion rate of 1.56 cfs.

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

Section 34, T113N, R51W	NW ¼ NE ¼	6 acres
	NE ¼ NE ¼	6 acres
	SW ¼ NE ¼	34.5 acres
	SE ¼ NE ¼	34.5 acres
	Total	81.0 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 David Verhoek, 46416 196th St, Bruce SD 57220 the holder and/or owner of Water Right No. 6652-3 is issued a license to appropriate water, the right to use 1.56 cubic feet of water per second from ground water (two wells, Big Sioux Brookings Aquifer) with a priority date of August 22, 2005 from the locations specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 6652-3 and subject to the following qualifications:

- The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The wells authorized by Permit No. 6652-3 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. ***Both wells were drilled by Kaiser Well Drilling in 2006. Copies of the logs are 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

JUN 18 2015

date

