

WATER PERMIT NO. 6798-3

Name of Applicant: **Ronald E Jongeling**

Address: **45950 191th St, Castlewood SD 57223**

Phone: **605 873-2853**

Amount of Water Claimed: **1.78 cfs**

Total Acres: **160**

Source of Water Supply: **groundwater (one well)**

Water to be used for: **irrigation**

County: **Hamlin**

Type of Waste Disposal System:

Location: **8 miles south of Castlewood**

PRIORITY

Date Received: **1-31-07**

Application/License Fee: **\$300**

Corrected Application Received:

Period of Annual Use: **May 1 – Sept 30**

Remarks:

Diversion Point: **SE ¼ SW ¼ Sec 7-T113N-R51W**

Land to be Irrigated: **SW ¼ Sec 7-T113N-R51W**

Depth of Well: **60 feet deep**

Well Driller: : **Kaiser Drilling**

Remarks:

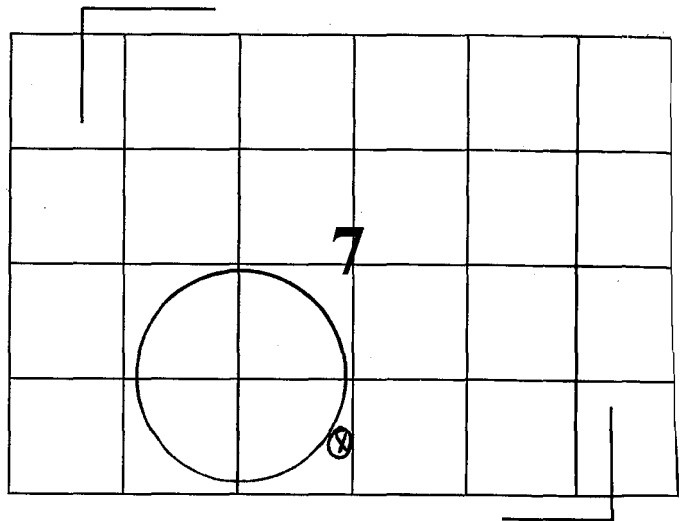
Type of Map: **aerial**

Prepared by: **Darrell Grosz, FSA**

Reviewed and the Number Assigned on: **1-31-07**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



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

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6798-3</u> (office use only) Hydrologic Unit <u>10170202</u>
	Basin <u>Sioux River</u>
	Newspaper <u>Hamlin Co. Republican PO Box 50</u> <u>605-793-2293 Castlewood SD 57223</u>

RECEIVED
JAN 31 2007
WATER RIGHTS
PROGRAM

Application For Permit To Appropriate Water For Irrigation

Type of Application: ☒ New ☐ Vested Right ☐ Amendment/Correction to Permit No. _____
(Use predates Mar 2, 1955)

Description of amendment/correction: (i.e. change diversion point(s), add diversion point(s), change use, etc.)

- Name of Applicant Ronald E Jongeling Phone 605 873 2853
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 45950 191 st Castlewood State SD 57223
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.78 *CFS or 800 **GPM ***AF Total Acreage 160
(*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) County Hamlin
SE 1/4 SW 1/4 Sec. 7 T113N R51W
- County or counties where water will be used Hamlin
- Annual period during which water is to be used May 1 June July Aug Sep 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
SW 1/4 of SW 1/4 113N-51W Sect 7	40		
SW 1/4 of SE 1/2 113N-51W Sect 7	40		
SW 1/4 of NE 1/4 113N-51W Sect 7	40		
SW 1/4 of NW 1/4 113N-51W Sect 7	40		

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

STATE OF SOUTH DAKOTA)
County of Brookings SS

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, Ronald Jongeling, 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

Ronald E Jongeling

Subscribed and sworn to before me this 29th day of January 2007

Karen Langland
Notary Public's signature

**SOUTH DAKOTA
WATER PERMIT NO. 6798-3**

Date of first receipt of application January 31, 2007.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6798-3 to Ronald E Jongeling, 45950 191 St, Castlewood SD 57223 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. 6798-3 appropriates 1.78 cubic feet of water per second from one well to be completed into the Big Sioux:Brookings Aquifer (approximately 49 feet deep) located in the SE 1/4 SW 1/4 Section 7 to irrigate 160 acres located in the SW 1/4 Section 7; 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: May 1 – September 30.
3. The date from which applicant may claim right is January 31, 2007.
4. The date of approval of Permit No. 6798-3 is April 2, 2007.
5. One-fifth of the construction is to be completed on or before October 2, 2009.
6. All construction is to be completed on or before April 2, 2012.
7. Water is to be put to beneficial use on or before April 2, 2016.
8. Water rights obtained in compliance with the laws of the State of South Dakota may not be unlawfully impaired by this appropriation.

QUALIFICATIONS

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. 6798-3 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

APR 04 2007

date



(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 17 $\frac{3}{4}$ Depth 49
- b) Casing Type Sch 40 Diameter 12 Thickness $\frac{3}{8}$
- c) Screen Type Johnson Stainless Steel Diameter 12 Thickness $\frac{3}{16}$
- d) Gravel Pack $\frac{1}{4}$ Y $\frac{1}{8}$ Length of Gravel Pack 10'
- e) Depth to Top of Water Bearing Material 40 ft
- f) Depth to Water (ground surface to water level) 6 ft
- g) Distance to nearest existing domestic well:
- On applicants property _____ On property owned by others 800 ft

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 _____

RECEIVED
JAN 31 2007
WATER RIGHTS
PROGRAM

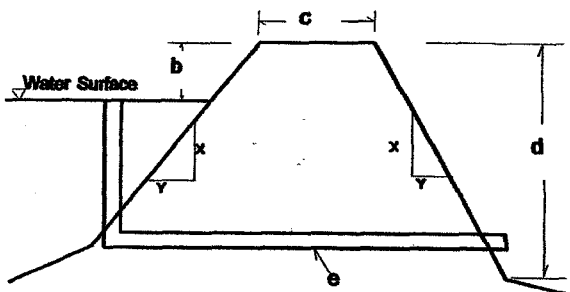
3. Dugout Information

- 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:

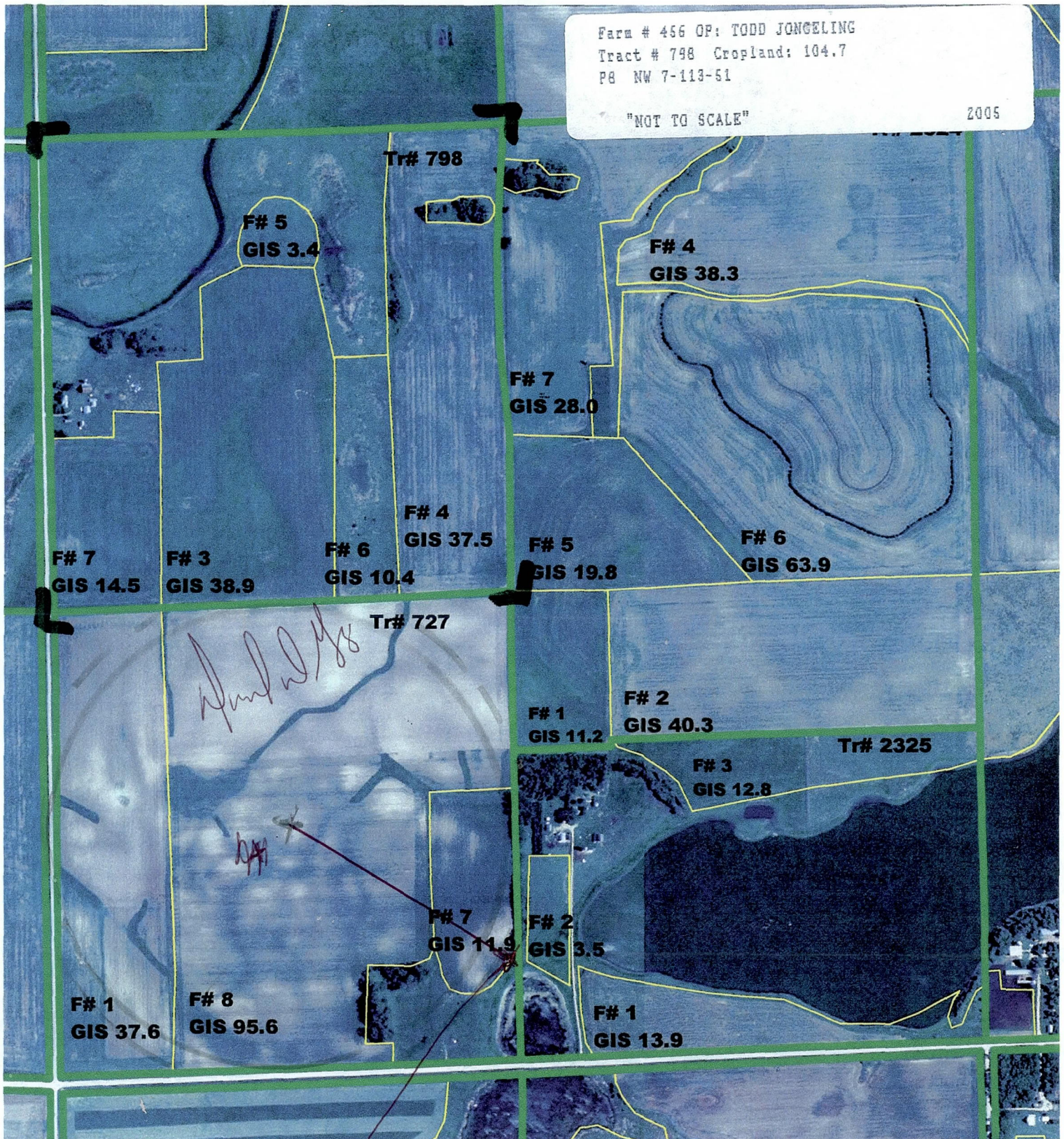


- b) Freeboard _____
- c) Crest Width _____
Crest Length _____
- d) Height _____
- e) Primary Outlet Capacity _____
If pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway Width _____
- g) X & Y Slope _____
Upstream _____
Downstream _____
- h) Surface Area of Impoundment _____
- i) Storage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

Farm # 456 OP: TODD JONGELING
Tract # 798 Cropland: 104.7
P8 NW 7-113-51

"NOT TO SCALE"

2005



07-113-51

October 31, 2003

United States Department of Agriculture
Farm Service Agency

Hamlin County

1997 Digital Orthophotography - Not To Scale

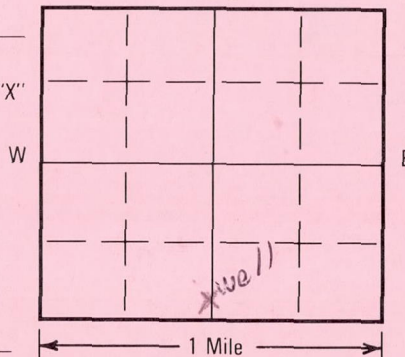


SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location SE 1/4 SW 1/4 Sec 7 Twp 113 Rg 51
 County Humboldt
 North

Please mark well location with an "X"



Well Completion Date _____

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 100 ft. from Slu (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>Sub 40</u> LB/FT	<u>3</u> IN	<u>2</u> FT	<u>39</u> FT	<u>6</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>3</u>	<u>41</u> lb./gal	<u>0</u> ft.	<u>35</u> ft.
_____	_____	_____ lb./gal	_____ ft.	_____ ft.

Describe grouting procedure pressure pump method

SCREEN: ☐ Perforated pipe ☒ Manufactured

Diameter 3 IN Length 10 FEET

Material plastic

Slot Size 1035 Set From 39 Feet to 49 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? Just well

Laboratory sent to for water quality analysis _____

Well Owner: Ron Jongeling

Business Name: _____

Address: 45950 191 St
Croftwood SD 57223

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	1
yellow clay	1	12
yellow sand fine w/ 1 link	12	16
yellow soft clay	16	26
yellow medium grain w/ 4 links	28	32
Soft Blue clay	32	40
Gray medium to coarse sand w/ 16 links	40	49
Blue clay	49	60

STATIC WATER LEVEL

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:

☒ Pumped

Describe: air lift

☐ Bailed

☐ Other

Pumping Level Below Land Surface

8 ft. After 2 Hrs. pumped 60+ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

RECEIVED

JAN 31 2007

WATER RIGHTS PROGRAM

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: _____

Date: 1-29-07

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date Jan 31, 20 07

RECEIVED OF Ronald Jongeling, 45950 191th St, Castletown SD 57223

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

Fee for Application for Permit No. <u>6798-3</u> to Appropriate Water, to construct and to put water to beneficial use	250	00
Fee for Application for Permit No. _____ to Appropriate Water for Future use		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. <u>6798-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for _____		
Fee for Issuing New Well Driller's License No. _____ for C.Y. _____		
Fee for Renewal of Well Driller's License No. _____ for C.Y. _____		
Fee for Issuing Well Pump Installer's License No. _____ for C.Y. _____		
Fee for Renewal of Well Pump Installer's License No. _____ for C.Y. _____		
(Any Other Work Provided by Law)	TOTAL	300.00

No.

By

Garland Erbe

Chief Engineer

(KS)

02897



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

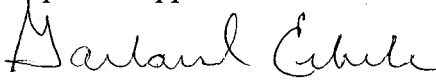
**RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 6798-3, Ronald E Jongeling**

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. 6798-3, Ronald E Jongeling, 45950 191st Street, Castlewood SD 57223.

The Chief Engineer is recommending APPROVAL of Application No. 6798-3 because 1) there is reasonable probability that there is unappropriated water available for the applicant's proposed use, 2) the proposed diversion can be developed without unlawful impairment of existing rights, 3) the proposed use is a beneficial use and 4) it is in the public interest with the following qualification:

1. The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The well authorized by Permit No. 6798-3 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 2, 2007

NOTE: Please read the staff report on the application carefully. Based on the test well log submitted with the application you may not get sufficient production from one well to supply the 800 gpm requested

REPORT ON WATER PERMIT NO. 6798-3
For Ronald E Jongeling
February 9, 2007

Application No. 6798-3 proposes to appropriate 1.78 cfs (800 gpm) from one well approximately 49 feet deep located in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ of section 7 to irrigate 160 acres located in the SW $\frac{1}{4}$ of section 7; all in T113N R51W in Hamlin County.

AQUIFER - BIG SIOUX BROOKINGS (BS-B)

The Big Sioux Brookings is a predominantly surficial outwash (sand and gravel) found under water table conditions however, at this site the aquifer appears to be confined and under 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). Neither the Hedges report nor the county study (Kume, 1985) show the area of this application to be underlain by the aquifer. However, this site is near the boundary of the aquifer and the wells for nearby water rights and this application show that the aquifer is present. Ground water movement is from northwest to southeast across this area and toward the Big Sioux River (Kume, 1985). The aquifer extends to the north where it becomes the Big Sioux North aquifer, extends to the south into Brookings County and is hydraulically connected to the Big Sioux River. Recharge to the aquifer has been estimated to be about 6.57 inches per year over the water table portion of the Big Sioux aquifer (Koch, 1980).

The test well log filed with the application indicates clay from 1 to 12 feet, sand from 12 to 16 feet, clay from 16 to 26 feet, gravel from 26 to 32 feet, clay from 32 to 40 feet and gravel from 40 to 49 feet below land surface and a static water level of six feet below land surface. This test well was capable of producing 60 gpm using air to develop with about two feet of drawdown. Based upon the geology of this site it would seem likely that one production well completed at this site would probably not be capable of producing the 1.78 cfs requested.

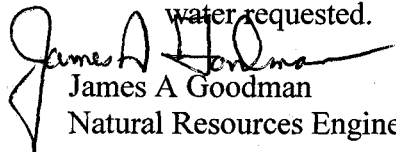
The Water Rights Program monitors two observation wells completed into the Big Sioux Brookings aquifer and within two miles of the well for this application. These are observation well HN-77G (located about two miles south) and HN-57B (located about two miles north). Water levels for these wells show good response to climatic conditions that is rising water levels during wet years (recharge) and gradually declining water levels during dry years. Hydrographs for these two observation wells are included with this report. In general, the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2007).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There is an existing irrigation permit No. 6489-3 (1.78 cfs, 160 acres) located about one mile southeast of this application. Interference is not a concern. That is drawdown created by pumping probably will not extend to the other well. It is possible especially during extended drought periods that water level fluctuation (lowering caused by the drought) may affect production well yields but this would be a natural phenomena not one created by pumping or drawdown induced.

CONCLUSIONS

1. Water is available from the Big Sioux Brooking aquifer.
2. The aquifer appears to be under artesian conditions at this site. Interference is not a concern because there is sufficient distance between wells to minimize any potential impact.
3. This well must be constructed in accordance with SD Well Construction Standards.
4. The test well log supplied with the application really does not look that favorable. This is based upon the amount of sand and gravel logged by the driller. This site may require additional test drilling or additional wells to produce the amount of water requested.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

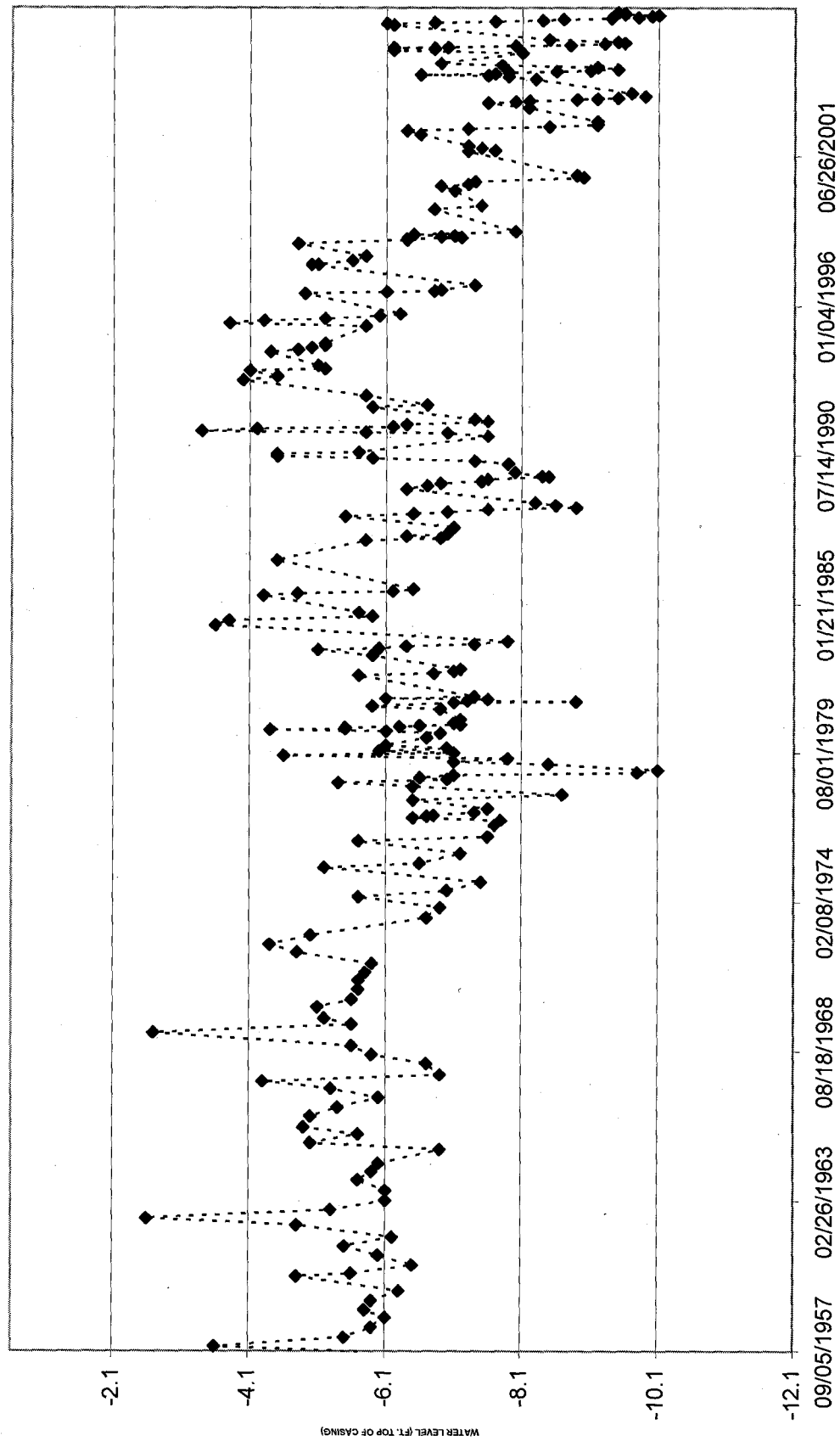
Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern SD and Upper Big Sioux River, SD and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

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

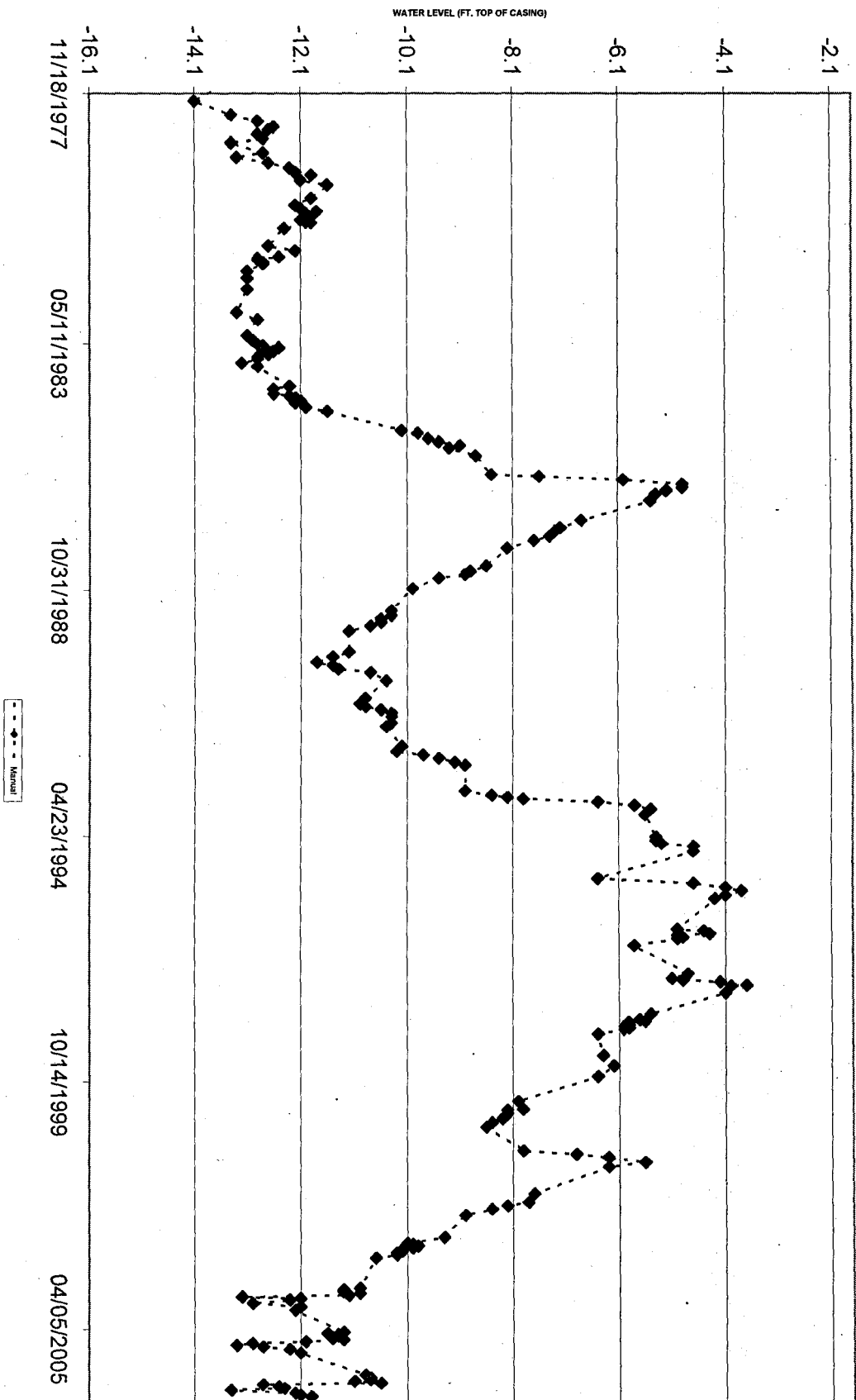
Kume, J., 1985, Water Resources of Deuel and Hamlin Counties, South Dakota, Water Resources Investigations Report 84-4069, USGS, Huron, SD, 57350.

Water Rights, 2007, Unpublished Observation Well Data for Hamlin County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
HN-57B



WATER RIGHTS' OBSERVATION WELL HN-77G



PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Hamlin) SS

I, LeeAnne Archer

certify that the attached printed Notice was taken

from the Hamlin County
Republican

printed and published in Castlewood

County of Hamlin and

state of South Dakota. The notice was published

in the newspaper on the following two dates:

March 14, 2007

March 21, 2007

Cost of Printing \$ 39.16

LeeAnne Archer
(Signature)

Owner
(Title)

March 21, 2007
(Date Signed)

NOTICE OF APPLICATION NO. 6798-3 TO APPROPRIATE WATER

Notice is given that Ronald E Jongeling, 45950 191st St, Castlewood SD 57223 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 Big Sioux Brookings Aquifer (approximately 49 feet deep) located in the SE 1/4 SW 1/4 Section 7 to irrigate 160 acres located in the SW 1/4 Section 7, all in T13N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6798-3 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 these applications, 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 2, 2007. The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to this application. Steven M. Pimer, Secretary, Department of Environment and Natural Resources (publish march 14 and 21, 2007)

RECEIVED
MAR 23 2007
WATER RIGHTS
PROGRAM



March 2, 2007

HAMLIN COUNTY REPUBLICAN
PO BOX 50
CASTLEWOOD SD 57223

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6798-3 to Appropriate Water to be published twice. Please publish the first notice on March 7, 2007 with the second publication 7 days later. The text of the notice can be e-mailed to your paper by contacting Karen Schlaak at (605) 773-3352.

The applicant must verify to you that the notice is to be published, before you make the first publication. **Please BILL the APPLICANT for the cost of publication.** The APPLICANT is Ronald Jongeling, 45950 191th St, Castlewood SD 57223 (Ph # 605-873-2853).

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. 6798-3

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

Date _____

We are in receipt of your letter of March 2, 2007 enclosing Notice to Appropriate Water by Application No. 6798-3 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

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.
www.state.sd.us/denr

March 2, 2007

RONALD E JONGELING
45950 191ST ST
CASTLEWOOD SD 57223

Dear Mr. Jongeling:

Water Permit Application No. 6798-3 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 Hamlin County Republic printed at Castlewood SD (Ph # 605-793-2293). You will need to contact the newspaper and authorize publication of this notice. For your information, a copy of the notice, the recommendations of the Chief Engineer and reports on the applications are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

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

Sincerely,

Eric Gronlund
Natural Resources Engineer
(605) 773-3352

enclosures

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

Instruction to Newspaper - Publish first Notice on March 7, 2007 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6798-3 to Appropriate Water

Notice is given that Ronald E Jongeling, 45950 191st St, Castlewood SD 57223 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 Big Sioux:Brookings Aquifer (approximately 49 feet deep) located in the SE ¼ SW ¼ Section 7 to irrigate 160 acres located in the SW ¼ Section 7; all in T113N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 6798-3 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 these applications, 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 March 26, 2007

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



APR 04 2007

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

RONALD E JONGELING
45950 191ST ST
CASTLEWOOD SD 57223

Dear Mr. Jongeling:

Enclosed is Water Permit No. 6798-3 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

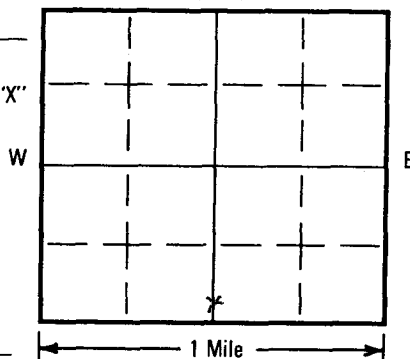
enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

6798-3
07-92

Location SE 1/4 SW 1/4 Sec 7 Twp 113 Rg 51
County Hamilton

Please mark well location with an "X"



Well Completion Date

6-2-07

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)? 700 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>Sch 40</u> LB/FT	<u>12</u> IN	<u>1.67</u> FT	<u>31</u> FT	<u>17 3/4</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>30</u>	<u>911</u> lb./gal	<u>0</u> ft	<u>25</u> ft
_____	_____	_____ lb./gal	_____ ft	_____ ft

Describe grouting procedure pressure pump pull method

SCREEN:

☐ Perforated pipe ☒ Manufactured

Diameter 12 IN Length 15 FEET

Material Stainless steel

Slot Size 0.010 Set From 31 Feet to 46 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: Ron Souding

Business Name: _____

Address: 45950 191 St
Casthewood SD 57223

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	1
yellow clay	1	12
fine yellow sand w/ 11 link	12	16
Soft clay	16	26
yellow medium mixed w/ 11 link	26	30
Soft Blue clay	30	32
Grey medium to coarse	32	46
W/ 16 link		
Blue clay	46	

STATIC WATER LEVEL

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:

☒ Pumped

Describe: Sub pump

☐ Bailed

☐ Other

Pumping Level Below Land Surface

20 ft. After 4 Hrs. pumped 500 GPM

30 ft. After 24 Hrs. pumped 950 GPM

If pump installed, pump rate _____ GPM

REMARKS

RECEIVED

AUG 27 2008

WATER RIGHTS
PROGRAM

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: _____

Date: _____

Report of Examination of Works and/or Application of Water to Beneficial Use For Permit No. 6798-3 and 7041-3

I have this day, March 30, 2015, made a thorough examination of the water use system constructed by Ronald E Jongeling (No. 6798-3), 45950 191st St, Castlewood SD 5722 and Todd Jongeling (No. 7041-3), 19423 467st Ave, Estelline SD 57234 of Permit No. 6798-3 and 7041-3, bearing the priority of January 1, 2007 (6798-3) and June 17, 2008 (7041-3) authorizing the diversion of 1.78 (6798-3) and no additional (7041-3) cu. ft. per second of the waters of Big Sioux Brookings aquifer for irrigation purposes, in Hamlin County.

Inspection contact: **Ron & Brad Jongeling**

A. Works used to divert the water:

Well Information:

- | | |
|--|-------------------------------------|
| 1) Well Drilling Firm: <u>Kaiser Well Drilling</u> | 3) Depth(s) <u>46</u> feet |
| 2) No. of Wells <u>1</u> | 4) Well log is available <u>Yes</u> |

Casing:

- 1) Diameter 12 inches
- 2) Length 25 feet
- 3) Type Plastic

Screen:

- 1) Type Stainless Steel
- 2) Length 15 feet
- 3) Static water level 6 feet

Motor/Pump:

- 1) Make Submersible
- 2) Size 50 hp
- 3) Capacity 800 GPM

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

- 1) Type PVC
- 2) Size 8 inches
- 3) Length 3,100 feet

C. Works used to apply water to beneficial use:

Center pivots: (2 pivots – only one pivot operates at a time)

- | | |
|--|--|
| 1) Make <u>Valley (7041-3)</u> | 1) Make <u>T&L (6798-3)</u> |
| 2) Number of towers <u>7 towers</u> | 2) Number of towers <u>7 towers</u> |
| 3) End gun <u>Yes</u> | 3) End gun <u>Yes</u> |
| 4) Capacity <u>800</u> GPM @ <u>35 psi</u> | 4) Capacity <u>800</u> GPM @ <u>20 psi</u> |

Chemigation Equipment:

- 1) Does chemigate No

D. Compliance with Permit Requirements:

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

E. Condition and Location:

1. The system is in good condition with the point of diversion located as follows: SE1/4 SW1/4 section 7-T113N-R51W (approximately 600 feet north and 2,550 feet east from SW corner section 7; latitude 44.60321, longitude -96.99704).
2. The works are capable of diverting and conveying to the place of use 1.78 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:
All in section 7-T113N-R51W

No. 6798-3 (132 acres)
NE1/4 SW1/4 – 33 acres
NW1/4 SW1/4 – 33 acres
SW1/4 SW1/4 – 33 acres
SE1/4 SW1/4 – 33 acres

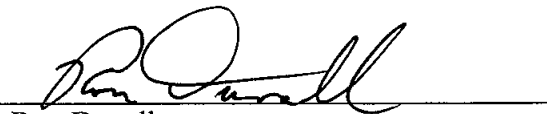
No. 7041-3 (100 acres)
NE1/4 NW1/4 – 7 acres
NW1/4 NW1/4 – 7 acres
SW1/4 NW1/4 – 38 acres
SE1/4 NW1/4 – 38 acres
NE1/4 SW1/4 – 5 acres
NW1/4 SW1/4 – 5 acres

comprising a total of 232 acres of land and the licenses should be issued for a combined rate not exceeding 1.78 cfs.

3. All structures, wells and lands on map Yes

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

Permit No. 7041-3 added another pivot covering portions of the NW1/4 section 7 and picking up 10 acres in the N1/2 SW1/4 section 7 that are outside of the area covered by the pivot in the SW1/4 section 7 authorized by Permit No. 6798-3. Both pivots use the same well with a diversion rate of 800 gpm and only one pivot operates at a time. It should be noted on each water license that the combined diversion rate may not exceed 1.78 cfs with a rate of 1.43 cfs (1 cfs/70 acres) specified on No. 7041-3.


Ron Duvall
Water Rights Permitting Administrator
DENR, Water Rights Program

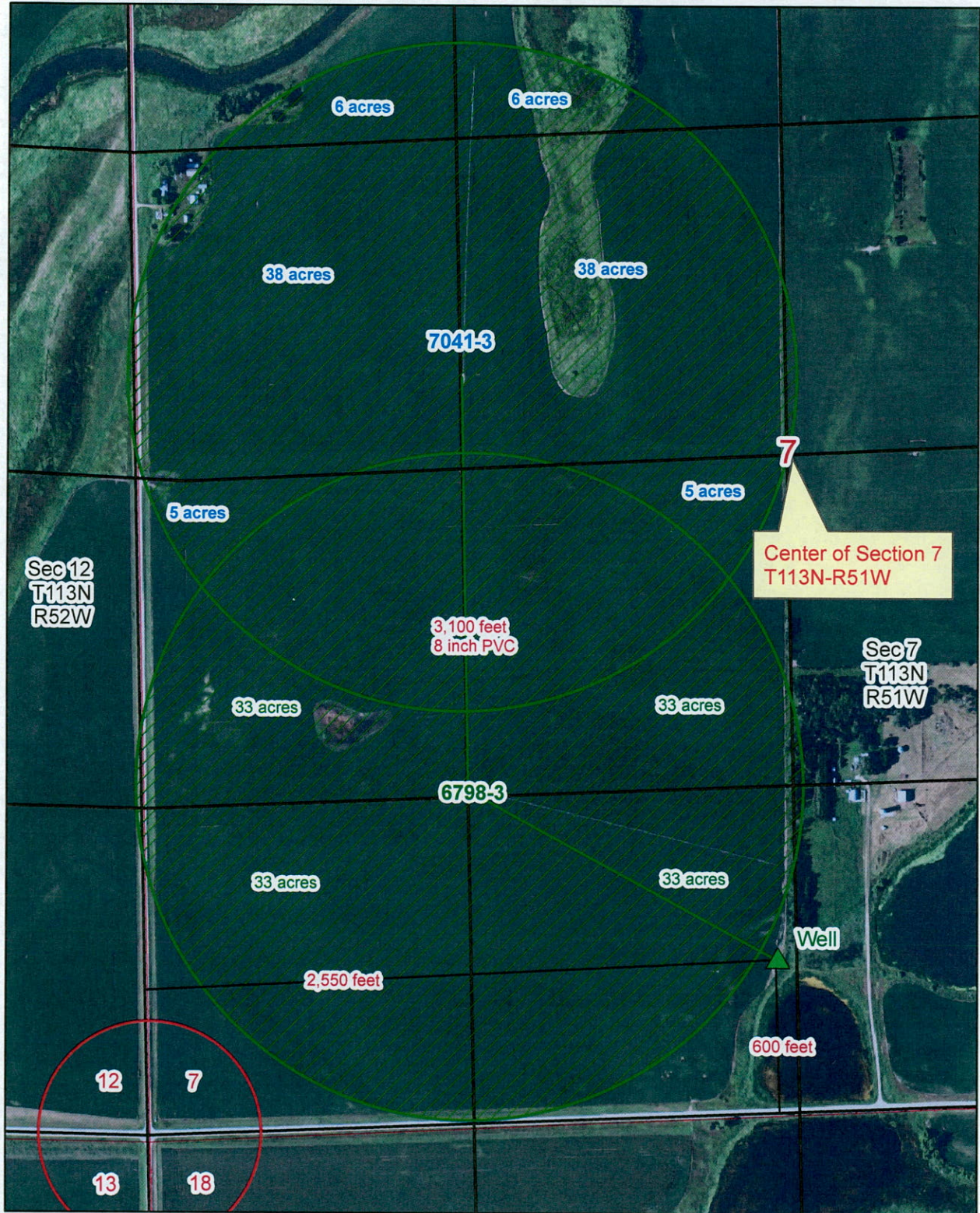
Date report completed: January 26, 2017

Scale: 1 inch = 604 feet

850

Feet

N



South Dakota
Department of Environment
& Natural Resources
Water Rights

Completed by:

Ron Duvall, W.R. Permitting Administrator
SD DENR, Water Rights Program

Diversion point(s) located using Garmin eTrex 10 GPS

Date: January 26, 2017

Water Right No. 6798-3 & 7041-3



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

AUG 02 2017

6798-3

Ronald E Jongeling
45950 191st St
Castlewood SD 57223

Dear Mr. Jongeling:

Enclosed is Water License No. 6798-3. 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

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 6798-3**

(1) Ronald E Jongeling, 45950 191st St., Castlewood SD 57223 made Application No. 6798-3, January 31, 2007 for a water permit to divert 1.78 cubic feet of water per second from ground water, one well (Big Sioux Brookings Aquifer, Hamlin County, South Dakota for irrigation purposes. Permit No. 6798-3, with a priority date of January 31, 2007 was approved April 2, 2007 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before April 2, 2012 and for the application to beneficial use of water on or before April 2, 2016.

(2) It is certified that the permit holder has complied with the provisions of South Dakota State Law relating to completion of the construction of the water supply system and is entitled to divert 1.78 cubic feet of water per second for beneficial use. The location of the diversion point is:

- approximately 600'N and 2,550'E of the SW corner of Section 7, T113N, R51W (SE $\frac{1}{4}$ SW $\frac{1}{4}$)

The above described well is also used to irrigate 100 acres within the W $\frac{1}{2}$ Section 7, T113N, R51W authorized under Permit No. 7041-3 owned by Todd Jongeling. The combined diversion rate may not exceed 1.78 cfs with a rate of 1.43 cfs (1 cfs/70 acres) specified on No. 7041-3. Nos. 6798-3 and 7041-3 are being licensed separately due to separate land ownership.

(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:

T113N, R51W Section 7	NE $\frac{1}{4}$ SW $\frac{1}{4}$	33 acres
	NW $\frac{1}{4}$ SW $\frac{1}{4}$	33 acres
	SW $\frac{1}{4}$ SW $\frac{1}{4}$	33 acres
	SE $\frac{1}{4}$ SW $\frac{1}{4}$	33 acres
	Total	132 acres

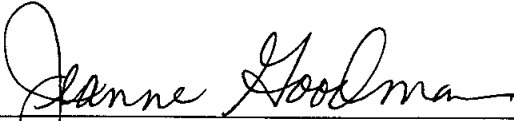
(4) Pursuant to South Dakota Water Law 46-5-30.1 Ronald E Jongeling, 45950 191st St., Castlewood SD 57223 the holder and/or owner of Water Right No. 6798-3 is issued a license to appropriate water, the right to use 1.78 cubic feet of water per second from ground water, one well (Big Sioux Brookings Aquifer) with a priority date of January 31, 2007 from the location specified in (2) of this license for irrigation purposes.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 6798-3 and subject to the following qualifications:

- The well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
- The well authorized by Permit No. 6798-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with the Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) pursuant to Section 74:02:04:28. *The well was drilled in June, 2007 by Kaiser Well Drilling. A copy of the well completion report is on file with the Water Rights Program.*

continued

- 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

AUG 02 2017

date

