

WATER PERMIT NO. 6410-3

Name of Applicant: **Ronald Jongeling**

Address: **RR 2 Box 91, Castlewood SD** Phone: **605 873-2853**

Amount of Water Claimed: **1.78** Total Acres: **160**

Source of Water Supply: **groundwater**

Water to be used for: **irrigation** County: **Hamlin**

Type of Waste Disposal System:

Location: **7 miles northwest of Estelline**

PRIORITY Date Received: **4-14-03** Application/License Fee: **\$300**

Corrected Application Received: Period of Annual Use: **May 1 – October 31**

Remarks:

Diversion Point: **SW ¼ SW ¼ Sec 1-T13N-R52W**

Land to be Irrigated: **SW ¼ Sec 1-T13N-R52W**

Depth of Well: **60 feet**

Well Driller: : **Pullman Well Drilling**

Remarks:

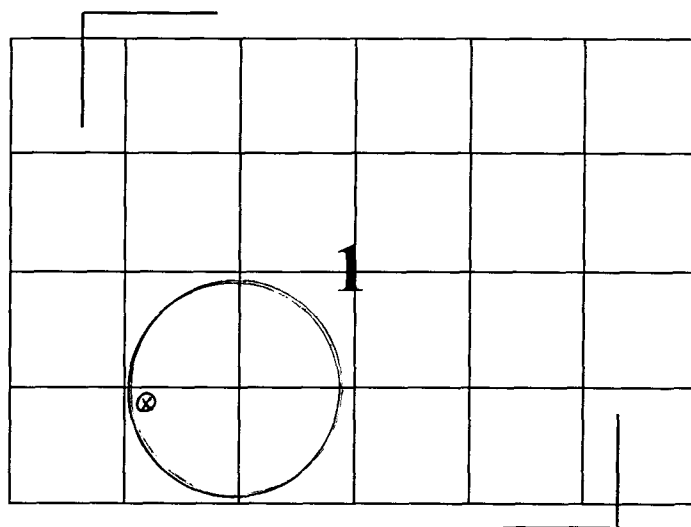
Type of Map: **aerial**

Prepared by: **Craig Olson, NRCS**

Reviewed and the Number Assigned on: **4-14-03**

By: **Karen Schlaak**

Notice of Hearing - date to intervene: _____



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

RECEIVED

APR 14 2003

WATER RIGHTS
PROGRAM

Mail to: Water Rights Program Joe Foss Building 523 E. Capitol Pierre, SD 57501-3181 (605) 773-3352	No. <u>6410-3</u>	(office use only) Hydrologic Unit <u>10170202</u>
	Basin <u>Sioux River</u>	
	Newspaper <u>Estelline Journal Estelline</u>	

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 Jongeling Phone 605-873-2853
 Mailing Address RR2, Box 91, Castlewood State SD 57223
 (check one) ☒ Owner ☐ Tenant/lessee
 (Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.78*CFS or 800**GPM ***AF Total Acreage 160 A
 (*Cubic Feet per Second) (**Gallons per Minute) (***)Acro 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
510 ft from west side 1250 ft from south side (SW 1/4 of the SW 1/4)
of section 1 T113 R52
- County or counties where water will be used Hamlin
- Annual period during which water is to be used May - October 31
- List below each forty acre division, or lot, or fraction thereof and show number of acres to be irrigated in each.
 (Attach sheet if more space is needed)

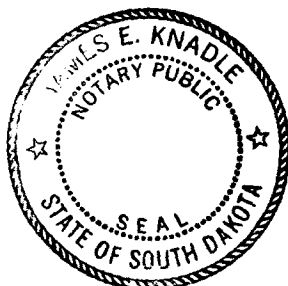
Land Description	Acres	Land Description	Acres
SW 1/4 of SW 1/4 Sect. 1 T113 R52			40
SE 1/4 of SW 1/4 Sect. 1 T113 R52			40
NE 1/4 of SW 1/4 Sect. 1 T113 R52			40
NW 1/4 of SW 1/4 Sect. 1 T113 R52			40

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

 STATE OF SOUTH DAKOTA)
 County of Hamlin 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 Jongeling
 Subscribed and sworn to before me this 3rd day of April 20 03
James E. Knadle
 Notary Public signature
10-24-2008


(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 16" Depth 60ft
- b) Casing Type PVC Diameter 16" Thickness 1/2
- c) Screen Type SS Diameter 16" Thickness 1/4
- d) Gravel Pack 3/16 by 1/4 Length of Gravel Pack 20ft
- e) Depth to Top of Water Bearing Material 20ft to 60ft 40' total
- f) Depth to Water (ground surface to water level) 19ft
- g) Distance to nearest existing domestic well:

On applicants property _____

On property owned by others 2010ft

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

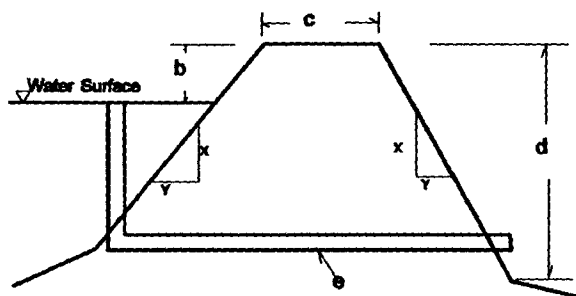
3. Dugout Information

- 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

**SOUTH DAKOTA
WATER PERMIT NO. 6410-3**

Date of first receipt of application April 14, 2003.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6410-3 to Ronald Jongeling, RR 2, Box 91, 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. 6410-3 appropriates 1.78 cubic feet of water per second from one well (Big Sioux: Brookings Aquifer) 60 feet deep located in the SW ¼ SW ¼ Section 1 to irrigate 160 acres located in the SW ¼ Section 1; all in T113N-R52W.
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 – October 31.
3. The date from which applicant may claim right is April 14, 2003.
4. The date of approval of Permit No. 6410-3 is July 14, 2003.
5. One-fifth of the construction is to be completed on or before January 14, 2006.
6. All construction is to be completed on or before July 14, 2008.
7. Water is to be put to beneficial use on or before July 14, 2012.
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. 6410-3 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

AUG 04 2003

date



RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date April 14, 2003

RECEIVED OF Ronald Jongeling, 45950 191st St., Castlewood SD 57223

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

Fee for Application for Permit No. <u>6410-3</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>6410-3</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.

000758

By

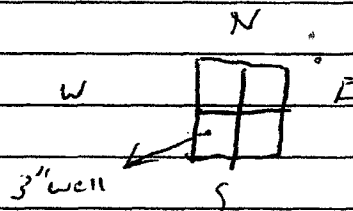
Darland Elsch
Chief Engineer *gm*

PULLMAN DRILLING, INC. - DRILLER'S LOG

(605) 883-4532
1-800-451-4884

Ron Jongeling JOB NAME	Castlewood S.D. LOCATION	4-1-03 DATE	RIG NO. 11	Paul Hofer FOREMAN
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Jt No	DEPTH	TIME	REMARKS
1	20		0-13 Yellow clay 13-19 Yellow clay w/sand streaks 19-20 Blue clay
2	40		20-30 Yellow coarse sand 30-40 Gray coarse sand
3	60		40-57 Coarse gray sand 57-60 Blue clay
4			
5			
6			
7			3" well
8			T.D. 60'
9			20' .025 3" slotted
10			40' 3" blank
11			Pumped w/air 45 G.P.M.
12			Water head 19'
13			
14			Sec. 1 T-113-N R-S1-S2-W
15			
16			
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30			
31			
32			
33			



Paul Hofer

MAP NOT TO B S
THIS IS NOT AN OFFICIAL

Tract # 3019 Cropland: 176.9
W1/2 1-113-52 LESS EXCEPTIONS

114-52

"NOT TO SCALE"

NC

2002

T3030

T7795

T2242

11.7

2 WINHEL

NC

T3019

Handwritten signature

12.5

7 WINHEL

176.9

1 WINHEL

114-52

2.3
WINHEL

WINHEL

6410-3

REPORT ON WATER PERMIT APPLICATION NO. 6410-3
For Ronald Jongeling
May 14, 2003

Application No. 6410-3 proposes to appropriate 1.78 cfs (800 gpm) from one well approximately 57 feet deep located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of section 1 to irrigate 160 acres located in the SW $\frac{1}{4}$ of section 1; all in T113N R52W in Hamlin County.

AQUIFER – BIG SIOUX BROOKINGS (BS-B)

The Big Sioux Brookings is a surficial outwash (sand and gravel) which is under water table conditions in this area. The aquifer underlies 113,920 acres and contains an estimated 480,000 acre-feet of water in storage in Hamlin County (Kume, 1985). The aquifer extends into Codington County to the north, Deuel County to the east, and into Brookings County to the south. The aquifer is also hydraulically connected to some area lakes and to the Big Sioux River which usually are discharge zones for the aquifer. In other words, generally the ground water levels are above the lake or river creating a gradient toward the discharge zone. Recharge to the water table portion of the aquifer has been estimated to approach 6.57 inches per year (Koch, 1980). This would equate to an annual recharge volume of about 62,000 acre-feet. The water use from the Big Sioux Brookings aquifer for Hamlin County has probably never exceeded 6,000 acre-feet included domestic, municipal and rural water system use.

A test hole log provided by the applicant, indicates clay with sand streaks from the surface to a depth of 20 feet followed by sand from a depth of 20 feet to a total depth of 57 feet. The fact that clay layers or breaks appear in the aquifer does not mean that the aquifer is under artesian conditions at this site. The test well data indicated a static water level of 19 feet below land surface and a well capable of producing 45 gpm using air to develop. The test data indicates good potential for development of a high capacity well at this site.

The Water Rights Program monitors one observation well, HN-57B, located about one mile to the northeast of this application. 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. A hydrograph for this well is included with this report. In general, the water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2003).

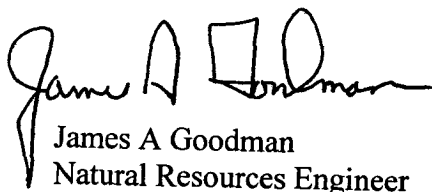
REVIEW OF EXISTING WATER PERMITS/RIGHTS

The nearest existing water right/permit is located about one-half mile northeast of this application. Interference is not a concern. There is sufficient distance between wells to minimize any potential effects. Besides, in this type of aquifer drawdown created by pumping does not extend very far from individual production wells. This is shown by the observation well hydrograph. The water level record indicates that for the most part water levels have been relatively high during the last ten years. With a return to drier

climatic conditions, these water levels will undoubtedly decline to the previous levels such as the late 1970's and early 1980's. This fact could be important when designing a well or wells for operation of a center pivot system.

CONCLUSIONS

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

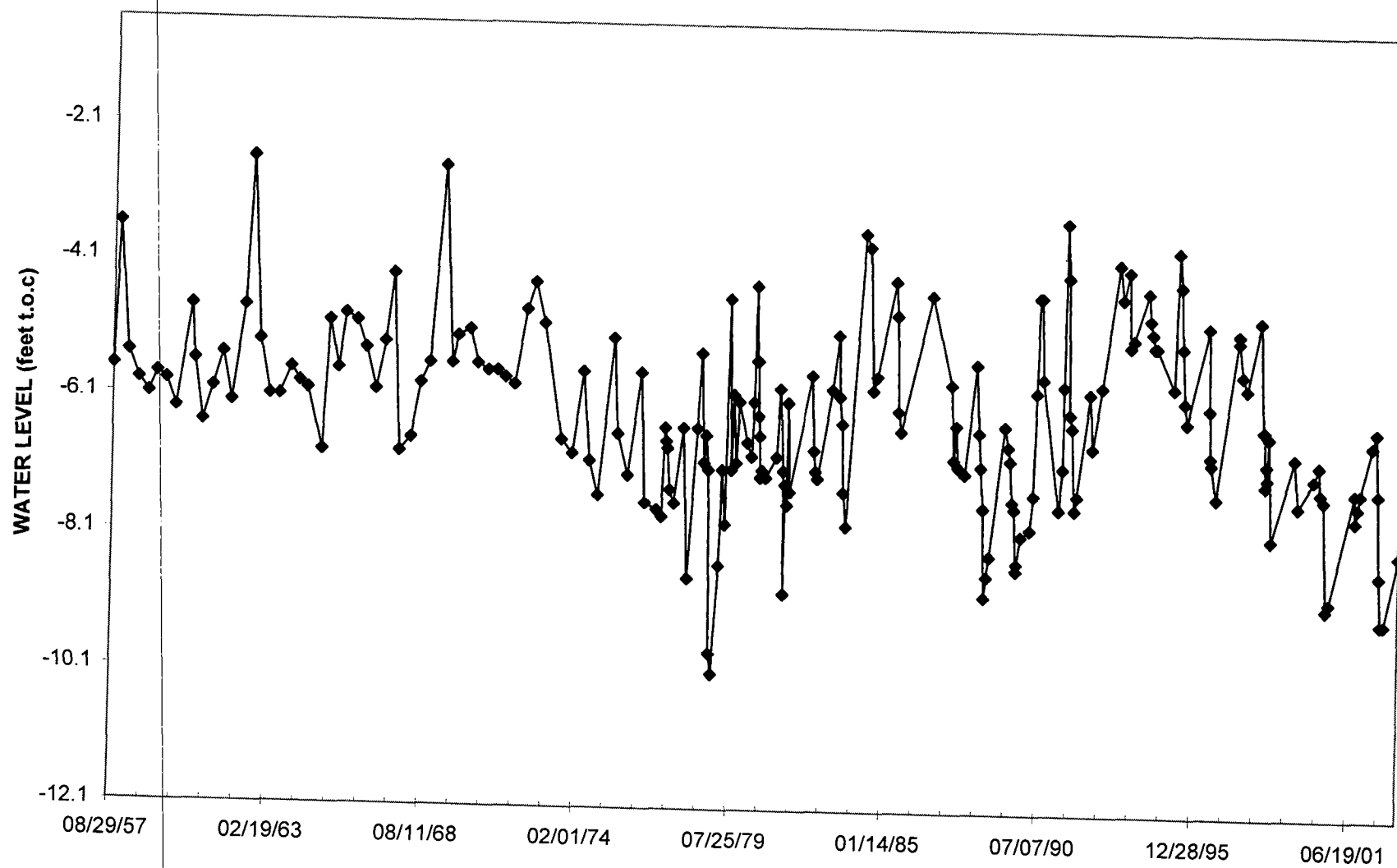


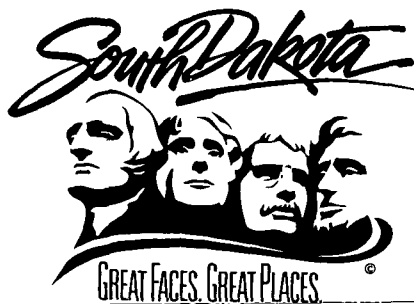
James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

- Koch, N.C., 1980, Appraisal of the Water Resources of the Big Sioux Aquifer, Brookings, Deuel, and Hamlin Counties, South Dakota, WRI 80-100, USGS, Huron, SD, 57350.
- Kume, J, 1985, Water Resources of Deuel and Hamlin Counties, South Dakota, WRI 84-4069, USGS, Huron, SD, 57350.
- Water Rights, 2003, Unpublished Observation Well Data for Hamlin County, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL
HN-57B





**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. 6410-3, Ronald 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. 6410-3, Ronald Jongeling, RR 2 Box 91, Castlewood SD 57223.

The Chief Engineer is recommending APPROVAL of Application No. 6410-3 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. 6410-3 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
June 16, 2003

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County of Hamlin) SSI, Leanne Archer

certify that the attached printed Notice was taken

from the The Estelline
Journalprinted and published in EstellineCounty of Hamlin and

state of South Dakota. The notice was published in the newspaper on the following two dates:

June 25, 2003July 2, 2003Cost of Printing \$ 44.08Leanne Archer
(Signature)Owner
(Title)7/2/03
(Date Signed)

Records

Wednesday, June 25, 2003

NOTICE OF APPLICATION
NO. 6409-3 and 6410-3 TO
APPROPRIATE WATER

Notice is given that Ronald Jongeling, RR 2, Box 91, Castlewood, SD 57223 has filed the following applications for a water permit.

Application No. 6409-3 proposed to appropriate 1.78 cubic feet of water per second from one well (Big Sioux: Brookings Aquifer) 68 feet deep located in the NW 1/4 NW 1/4 Section 31 to irrigate 160 acres located in the NW 1/4 Section 31; all in T113N-R51W.

Application No. 6410-3 proposed to appropriate 1.78 cubic feet of water per second from one well (Big Sioux: Brookings Aquifer) 60 feet deep located in the SW 1/4 SW 1/4 Section 1 to irrigate 160 acres located in the SW 1/4 Section 1; all in T113N-R52W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6409-3 and 6410-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the applications, as recommended, unless a petition is filed opposing the applications; or the applicant files a petition contesting the Chief Engineer's recommendations. If a petition opposing the ap-

plications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. Notice of the hearing will be given to the applicant and any person filing a petition.

Any person interested in opposing or supporting these applications or recommendations must file a written petition with BOTH the applicant and Chief Engineer. The applicant must file a petition if contesting the Chief Engineer's recommendations. The Chief Engineer's address is "Water Rights Program, Foss Building, 523 E. Capitol, Pierre, SD 57501 (605-773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested party or the applicant must be filed by July 14, 2003.

The petition may be informal, but must include a statement describing the petitioner's interest in the applications, the petitioner's reasons for opposing or supporting the applications, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained. Contact Eric Gronlund at the above Water Rights Program address to request copies of information pertaining to these applications.

Steven M. Pirner, Secretary
Department of Environment
and Natural Resources
(publish June 25 and July 2, 2003)

RECEIVED

JUL - 3 2003

WATER RIGHTS
PROGRAM

Instruction to Newspaper - Publish first Notice on June 25, 2003 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6409-3 and 6410-3 to Appropriate Water

Notice is given that Ronald Jongeling, RR 2 Box 91, Castlewood SD 57223 has filed the following applications for a water permit.

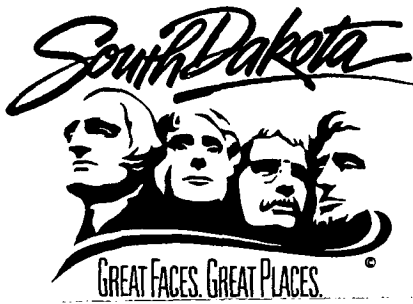
Application No. 6409-3 proposes to appropriate 1.78 cubic feet of water per second from one well (Big Sioux: Brookings Aquifer) 68 feet deep located in the NW $\frac{1}{4}$ NW $\frac{1}{4}$ Section 31 to irrigate 160 acres located in the NW $\frac{1}{4}$ Section 31; all in T113N-R51W.

Application No. 6410-3 proposes to appropriate 1.78 cubic feet of water per second from one well (Big Sioux: Brookings Aquifer) 60 feet deep located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ Section 1 to irrigate 160 acres located in the SW $\frac{1}{4}$ Section 1; all in T113N-R52W.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application Nos. 6409-3 and 6410-3 because 1) unappropriated water is available, 2) existing rights will not be unlawfully impaired, 3) it is a beneficial use of water, and 4) it is in the public interest. In accordance with SDCL 46-2A-23, the Chief Engineer will act on the applications, as recommended, unless a petition is filed opposing the applications or the applicant files a petition contesting the Chief Engineer's recommendations. If a petition opposing the applications or contesting the recommendations is filed, then a hearing will be scheduled and the Water Management Board will consider the applications. Notice of the hearing will be given to the applicant and any person filing a petition.

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**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.

June 18, 2003

Ronald Jongeling
RR 2 Box 91
Castlewood SD 57223

Dear Mr. Jongeling:

Water Permit Application Nos. 6409-3 & 6410-3 for irrigation use have been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing 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 recommendations of the Chief Engineer and a report on the applications are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

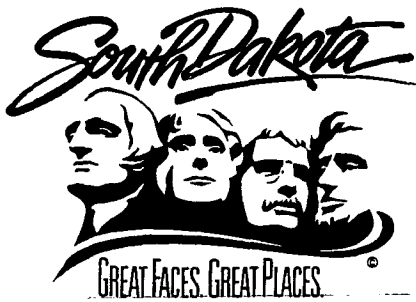
Be sure to contact the above newspaper to authorize publication of your Notice of Hearing and to arrange for payment. Early contact with the paper can eliminate delays. Upon receiving authorization, the publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. 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 recommendations, you must file a petition pursuant to the procedures outlined in the attached notice of hearing. The Water Management Board will then consider your concerns during a hearing on the applications.



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

PMB 2020
JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE, SOUTH DAKOTA 57501-3182

www.state.sd.us/denr

June 17, 2003

Estelline Journal
214 Main St
Estelline SD 57234-0159

ATTENTION: Legal Public Notice

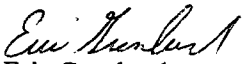
Enclosed is a Notice of Hearing on Application Nos. 6409-3 & 6410-3 to Appropriate Water to be published twice. Please publish the first notice on June 25, 2003 with the second publication 7 days later.

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, RR 2 Box 91, Castlewood SD (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-----

Nos. 6409-3 & 6410-3

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

Date _____

We are in receipt of your letter of June 18, 2003 enclosing Notice of Hearing to Appropriate Water by Application Nos. 6409-3 & 6410-3 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

AUG 04 2003

Ronald Jongeling
RR 2 Box 91
Castlewood SD 57223

Dear Mr. Jongeling:

Enclosed are Water Permit Nos. 6409-3 and 6410-3 authorizing construction of your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permits.

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

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

Sincerely,

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

enclosures

SOUTH DAKOTA WATER WELL COMPLETION REPORT

6410-3

11 02

Location SW $\frac{1}{4}$ SW $\frac{1}{4}$ Sec 1 Twp 113 Rg 51

52

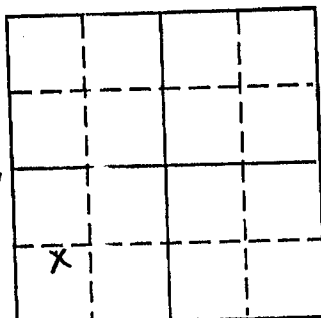
County

Hamlin

North

KS

Please mark well location with an "X"



Well Completion Date

10/31/2003

Distance to nearest potential pollution source (Septic tank, abandoned well, feed lot, etc.)

? _____ ft. from _____ (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Forward

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
LB/FT	16.00 IN	0.0 FT	42.0 FT	24.00 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
Cement	10	Lb/gal	0.0 Ft	20.0 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure
Line

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16.00 Inches Length 15.0 FeetMaterial Stainless SteelSlot Size .057 Set From 42.0 Feet to 57.0 Feet

Other information _____

WAS A PACKER OR SEAL USED?

☒ Yes ☐ No
If so, what material? Pea Rock

Describe packer(s) and location

@42

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? Pellets
☐ No, Why Not?
Lab sample sent to for
water quality analysisWell Owner: Ron Jongling

Business Name: _____

Address: RR2 Box 91City, State, Zip: Castlewood SD 572 3

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Yellow Clay	0	13
Yellow Clay w/ streaks	13	19
Blue Clay	19	20
Yellow Sand	20	30
Gray sand & gravel	30	57

STATIC WATER LEVEL

16

FEET

If flowing: closed in pressure _____

PSI

GPM flow _____ through _____

Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____

G/M

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:

☐ Bailed

☐ Other

Pumping Level Below Land Surface

48

Ft. After

6

Hrs. pumped

800

GPM

Ft. After

Hrs. pumped

GPM

If pump installed, pump rate: _____

GPM

REMARKS

This well was drilled under license #

440

And this report is true and accurate.

Drilling firm: Pullman Well Drilling Inc

Signature of License Representative:

RECEIVED

JAN 14 2004

Signature of Well Owner or Equitable Property Holder:

WATER RIGHTS
PROGRAM

Date: _____

Permit No. 6410-3
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, **May 13, 2008**, made a thorough examination of the water use system constructed by **Ronald Jongeling** of **45950 191st St., Castlewood, SD 57223** holder of Permit No. **6410-3**, bearing the priority of **April 14, 2003** 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 **Ronald Jongeling**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

- 1) Well Drilling Firm: **Pullman Well Drilling**
- 2) No. of Wells **1**
- 3) Depth(s) **57** feet
- 4) Well log is available **Y**
- 5) Comment:

Casing:

- 1) Diameter **16** inches
- 2) Length **42** feet
- 3) Type **Plastic**

Screen:

- 1) Type **Stainless steel**
- 2) Length **15** feet
- 3) Static water level **16** feet

Pump:

- 1) Make **WLR Lineshaft Turbine**
- 2) Model
- 3) Size **50 hp**
- 4) Capacity **800** GPM

Motor:

- 1) Make John Deere
- 2) Model No. 4045TF335827

B. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Valley
- 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:

Approximately 1883 feet north and 260 feet east of the SW corner of Section 1-T113N-R52W.

(N 44.61998, W -97.02602) (SW ¼ SW ¼)

The works are capable of diverting and conveying to the place of use 1.78cu. 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 1-T113N-R52W

NW ¼ SW ¼ - 33 acres

NE ¼ SW ¼ - 33 acres

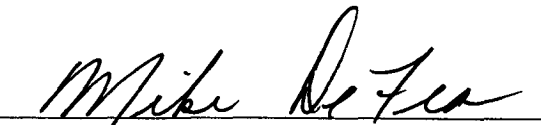
SW ¼ SW ¼ - 33 acres

SE ¼ SW ¼ - 33 acres

comprising a total of 132 acres of land and the license should be issued for 1.78cfs.

All structures, wells and lands on map Y

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



Mike DeFea

Natural Resources Engineer
DENR, Water Rights Program

Date report completed: November 13, 2008

Water Permit No. 6410-3

Ronald Jongeling



0 1,000 2,000 4,000 Feet

Mike DeFea

Mike DeFea
Natural Resources Engineer
DENR, Water Rights Program
November 13, 2008



South Dakota
Department of Environment
& Natural Resources
Protecting SD's Tomorrow... Today



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

JUN 15 2009

6409-3
6410-3

Ronald Jongeling
45950 191st St
Castlewood SD 57223

Dear Mr. Jongeling:

Enclosed are your Water License Nos. 6409-3 and 6410-3. These are the final water right documents completing your process of obtaining Water Rights. 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 existing wells, such as the wells authorized by Water Right Nos. 6409-3 and 6410-3, 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. 6410-3**

(1) Ronald Jongeling, 45950 191st St, Castlewood SD 57223 made Application No. 6410-3, April 14, 2003 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. 6410-3, with a priority date of April 14, 2003 was approved July 14, 2003 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before July 14, 2008 and for the application to beneficial use of said water on or before July 14, 2012.

(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 1,883 feet north and 260 feet east of the SW corner of Section 1, T113N, R52W (SW ¼ SW ¼)

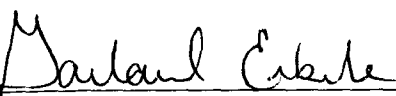
(3) The permit holder has complied with the provisions of South Dakota State Law relating to the application of water to beneficial use to irrigate the following land:

Section 1, T113N, R52W	NW ¼ SW ¼	33 acres
	NE ¼ SW ¼	33 acres
	SW ¼ SW ¼	33 acres
	SE ¼ SW ¼	33 acres
	Total	132 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Ronald Jongeling, 45950 191st St, Castlewood SD 57223 the holder and/or owner of Water Right No. 6410-3 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 April 14, 2003 from the location specified in (2) of this license. The water is to be conducted to and upon lands specified in (3) of this license for the purpose of irrigation.

This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Right No. 6410-3 and subject to the following qualifications:

- The well approved under this Water Right 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 No. 6410-3 shall be constructed by a licensed well driller and construction of the well and installation of the pump shall comply with Water Management Board Well Construction Rules, Chapter 74:02:04 with the well casing pressure grouted (bottom to top) from the producing formation to the surface pursuant to Section 74:02:04:28 (*well drilled by Pullman Well Drilling and log is on file*).
- 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

JUN 15 2009
date

