

WATER PERMIT NO. 6551-3

Name of Applicant: **Ronald L Hulshof**

Address: **905 4th Ave NE, Sioux Center**

Phone: **712 722-1577**

Amount of Water Claimed: **1.11 cfs**

Total Acres: **60**

Source of Water Supply: **groundwater (2 wells)**

Water to be used for: **irrigation**

County: **Lincoln**

Type of Waste Disposal System:

Location: **½ mile west of Hudson**

PRIORITY

Date Received: **11-29-04**

Application/License Fee: **\$200**

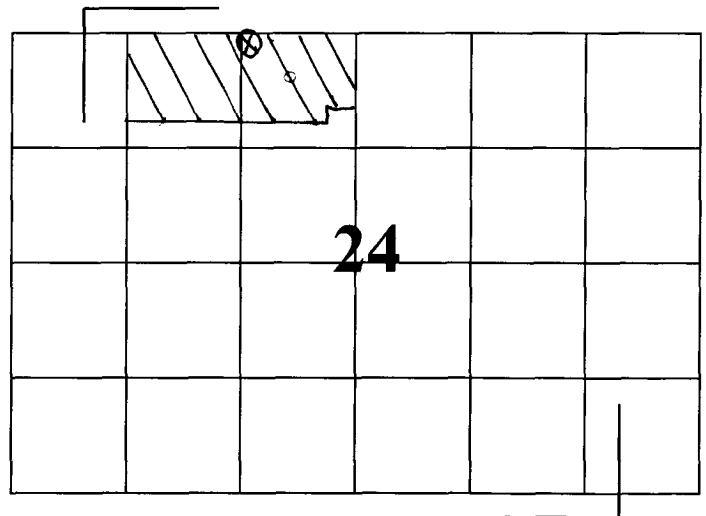
Corrected Application Received:

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

Remarks:

Diversion Point: **NE ¼ NW ¼ Sec 24-T96N-R48W**

Land to be Irrigated: **N ½ NW ¼ Sec 24-T96N-R48W**



Depth of Well: **40 feet deep**

Well Driller: : **Hammond-Wetmore Drilling**

Remarks:

Type of Map: **aerial**

Prepared by: **D Hudson, NRCS, Canton SD**

Reviewed and the Number Assigned on: **11-30-04**

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>6551-3</u> (office use only)
	Hydrologic Unit <u>10170203</u>
	Basin <u>Sioux River</u>
	Newspaper <u>Sioux Valley News, Canton</u>

RECEIVED
NOV 29 2004
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 L. Hulshof Phone 712-722-1577
(check one) ☒ Owner ☐ Tenant/lessee
Mailing Address 905 4th Ave. N.E. Sioux Center State Iowa 51250
(Street, RR, or Box and City) (Zip Code)
- Amount of water claimed 1.11 *CFS or 500 **GPM ***AF Total Acreage 60
(*Cubic Feet per Second) (**Gallons per Minute) (***)Acre Feet - storage capacity of dam/dugout or annual use if applicable)
- Source of water supply Irrigation Well
- Location of point of diversion (example - 3 wells in SW1/4 NE1/4 section 12-T104N-R53W)
1 or 2 wells to be dug in NE 1/4 NW 1/4 24-96-48
10' south of North fence line, Center of Property E to W County Lincoln
- County or counties where water will be used Lincoln
- Annual period during which water is to be used Beginning Crop Year 2005 April 1 - Oct 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
N 1/2 N 1/2 NW 1/4 24-96-48	40		
N 1/2 S 1/2 N 1/2 NW 1/4 24-96-48	20		

8. Give a description of the project. (Attach sheet if more space is needed)
Dig 1 Irrigation well, or possibly 2 near each other, to support the center pivot, low pressure irrigation of 60 Acres of farmland.

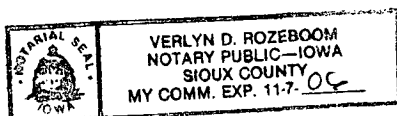
STATE OF IOWA)
County of Sioux) SS

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 L. Hulshof, 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 L. Hulshof

Subscribed and sworn to before me this 23rd day of November 20 04



Verlyn D. Rozeboom
Notary Public signature

**SOUTH DAKOTA
WATER PERMIT NO. 6551-3**

Date of first receipt of application November 29, 2004.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 6551-3 to Ronald L Hulshof, 905 4th Ave NE, Sioux Center IA 51250 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. 6551-3 appropriates 1.11 cubic feet of water per second (cfs) from two wells to be completed into the Big Sioux:South Aquifer (approximately 36 feet deep) located in the NE ¼ NW ¼ Section 24 to irrigate 60 acres located in the N ½ NW ¼ Section 24; all in T96N-R48W.
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 November 29, 2004.
4. The date of approval of Permit No. 6551-3 is January 31, 2005.
5. One-fifth of the construction is to be completed on or before July 31, 2007.
6. All construction is to be completed on or before January 31, 2010.
7. Water is to be put to beneficial use on or before January 31, 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

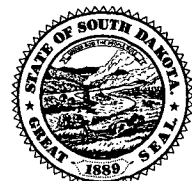
1. The wells approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The well owner under this Permit shall control his withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.
2. The wells authorized by Permit No. 6551-3 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. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints or type of soils so requires, Permit No. 6551-3 authorizes a maximum diversion rate of 1.11 cfs from the wells for the irrigation of 60 acres with an annual volume not to exceed 2 acre feet of water per acre per year.
4. 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

MAR 04 2005

date



Supplemental Information

(type or print in ink)

1. Well Information - Proposed Construction

- a) Drill Hole Diameter 24" Depth 40'
- b) Casing Type PUC, SDR 21 Diameter 16" Thickness _____
- c) Screen Type SS, Hi-Flow Diameter 16" Thickness _____
100 slot
- d) Gravel Pack _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) static water level at 14'
- g) Distance to nearest existing domestic well:
- On applicants property none On property owned by others 1/4 mile

2. Wastewater Disposal System Information

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

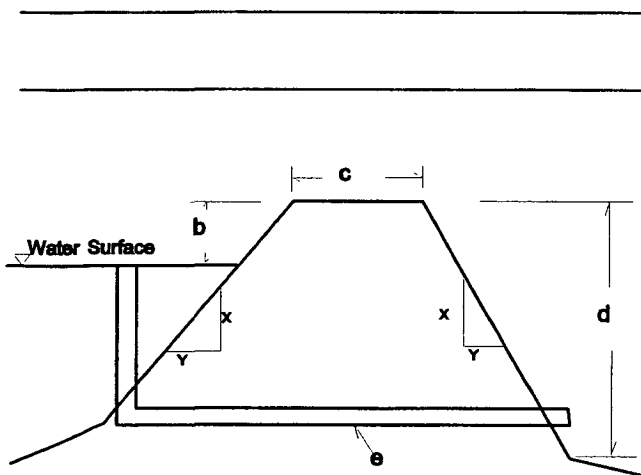
3. Dugout Information

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

4. Water Storage Dams

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

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



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

RECEIPT

WATER RIGHTS PROGRAM

South Dakota Department of Environment and Natural Resources

Date November 29, 20 04

RECEIVED OF Ronald Hulshof, 905 4th Ave NE, Sioux Center IA 51250

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

Fee for Application for Permit No. <u>6551-3</u> to Appropriate Water, to construct and to put water to beneficial use	150	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>6551-3</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	200.00

No. 000017

By Darlene Ebele
Chief Engineer gm



United States Department of Agriculture
Farm Service Agency

24-96-48

January 29, 2004

Lincoln County

1997 Digital Orthophotography - Not To Scale



NATURAL RESOURCES
CONSERVATION SERVICE
801 E. 5th St. Suite 3
Canton, SD 57013-1920

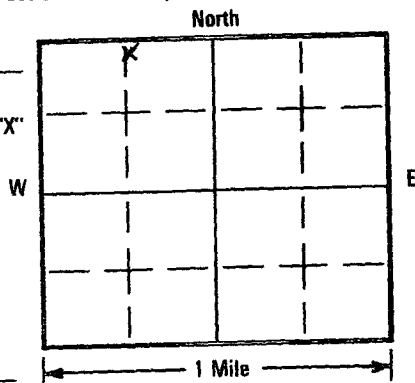
6551-3

SOUTH DAKOTA WATER WELL COMPLETION REPORT

07-92

Location NE 1/4 NW 1/4 Sec 24 Twp 96N Rg 48W
 County LINCOLN

Please mark well location with an "X"



Well Completion Date

11-18-04

LOCATION:

Distance from nearest potential pollution source (septic tank, abandoned well,

feed lot, etc.) < 1000 ft. from Septic Tanks (identify source).

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

casing DATA:

- ☐ Steel ☐ Plastic ☐ Other

If other describe None

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ 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>Best GRT</u>	<u>3</u>	<u>29.5</u> lb./gal	<u>0</u> ft	<u>15</u> ft
		lb./gal	ft	ft

Describe grouting procedure Tremie

SCREEN:

☐ Perforated pipe ☐ Manufactured
 Diameter _____ IN Length NA FEET

Material _____
 Slot Size _____ Set From _____ Feet to _____ 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? Y _____

Laboratory sent to for water quality analysis _____

Well Owner: Ron Hulshof

Business Name: _____

Address: 905 4th Ave NE
Sioux Center, IA

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
<u>SILT, BRN; V. Clayey</u>	<u>0</u>	<u>3</u>
<u>GRAVEL; Fine; V. Sandy</u>	<u>3</u>	<u>19</u>
<u>GRAVEL; Coarse; Poorly Sorted</u>	<u>19</u>	<u>36</u>
<u>Sub angular to Sub rounded;</u>		
<u>Lge Rocks c 19-22'</u>		
<u>clay; Dk. gray; Silty.</u>	<u>36</u>	<u>38</u>

STATIC WATER LEVEL 14 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: NA
☐ Bailed
☐ Other

Pumping Level Below Land Surface

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate _____ GPM

REMARKS

Irrigation well Test hole

This well was drilled under license # 6666

And this report is true and accurate.

Drilling firm Hammond-Watmore Drilling

Signature of License Representative:

Richard A. Hammond

Signature of Well Owner or Equitable Property Holder:

COPY

Hammond-Wetmore Drilling

27 North Yale Street

Vermillion, SD 57069

605-624-6745

Richard Hammond, Geologist

Quote

Ron Hulshof
905 4th Ave NE
Sioux Center, IA 51250

18-Nov-04

1 well option

	Item	Cost
40'	Drilling 24" hole, @ \$30 ea.	\$ 1,200.00
19	Casing, 16" PVC, SDR21, @ \$28.50 ea.	\$ 541.50
18'	Screen, 16" Stainless, Hiflow 100 slot	\$ 4,240.00
1	Filter pack, formation stabilizer, and annular seal	\$ 475.00
1	Western Land Roller 500 gpm, 35psi, 10 CM-a 3 stage	\$ 3,399.00
30	Column complete, 6"x 1.25" wl, ss couplings/ bolting	\$ 1,990.00
1	WLR discharge head, 6M	\$ 1,380.00
1	US Motor, 20hp, 3 ph motor w/ NRR and headshaft	\$ 2,050.00
1	Shipping from Hastings NE (pump assy)	\$ 422.00
1	Labor, materials and equip to install pump, column & head	\$ 350.00
1	Credit for test hole (11-16-04)	\$ (500.00)
Total		\$ 15,547.50
SD Contractors Excise Tax		\$ 310.95
Cash discount if paid in 7 days		\$ (300.00)
Cash total		\$ 15,558.45

Terms: Due upon receipt.

1.5% monthly service charge on all accounts over 30 days past due.

REPORT ON WATER PERMIT APPLICATION NO. 6551-3
For Ronald L. Hulshof
December 16, 2004

Application No. 6551-3 proposes to appropriate 1.11 cfs (500 gpm) from two wells approximately 40 feet deep located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of section 24 to irrigate 60 acres located in the N $\frac{1}{2}$ of section 24; all in T96N R48W in Lincoln County. The applicant is requesting a diversion rate greater than the statutory limit of one cfs per 70 acres.

AQUIFER – BIG SIOUX SOUTH (BS-S)

The Big Sioux South is a surficial outwash (sand and gravel) that is under water table conditions in this area. The entire Big Sioux aquifer underlies 60 square miles and contains an estimated 160,000 acre-feet of water in storage in Lincoln County and Union Counties (Niehus, 1994). Ground water movement is from north to south and toward the Big Sioux River (Niehus, 1994). The Big Sioux aquifer is hydraulically connected to the Big Sioux River and to the Schindler, Newton Hills and possibly the Brule Creek aquifer (Niehus, 1994). For the portion of the Big Sioux aquifer in Lincoln County, called the Big Sioux South aquifer by Hedges, that aquifer underlies 15,600 acres and contains an estimated 70,200 acre-feet of recoverable water in storage in Lincoln County (Hedges, 1982). Recharge to the aquifer has been estimated to average 7.54 inches per year (Niehus, 1998). This rate would equate to a volume of 9,800 acre-feet annually for Lincoln County. Niehus goes on to state in the 1998 report that in an extended drought the aquifer may not be capable of sustaining the existing level of development. This would be due to drought induced changes in water levels and the relative thinness of the aquifer and not to the effects of pumping.

A test well log filed with the application indicates gravel beginning at a depth of 3 feet and extending to a total depth of 36 feet below land surface. This test well had a static water level of 14 feet below land surface. No test pumping information is available.

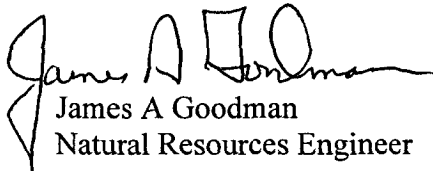
The Water Rights Program monitors an observation well, LN-57D, completed into the Big Sioux South aquifer and located about one mile south of this application. Water levels for this well show good response to climatic conditions, that is, rising water levels during wet years (recharge) and gradually declining water levels during dry years. The water level record indicates that the aquifer is capable of sustaining additional withdrawals (Water Rights, 2004). A hydrograph for this observation well is included with this report.

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are five existing irrigation wells within a one mile radius of this application. The nearest existing irrigation wells are located about one-half mile south of this application. Interference is not a concern. Drawdown created by pumping is not expected to extend very far from the individual production well.

CONCLUSIONS

1. Water is available from the Big Sioux South aquifer.
2. The aquifer is under water table conditions in this area. Drawdown created by pumping is not expected to be significant. Interference is not a concern.
3. This well must be constructed in accordance with South Dakota Well Construction Standards.
4. This application requests a diversion rate greater than one cfs per 70 acres. This request is reasonable because of the design of the irrigation system. The application would still be limited to a volume of two acre feet per acre (120 acre-feet).
5. As with all development from the Big Sioux aquifer, the relative thinness of the aquifer limits potential well yields. Also the normal water level fluctuation both seasonal and long term together indicate a maximum water level changes of 10 to 12 feet can be expected. This is shown by the observation well hydrograph. The applicant needs to be aware of this factor when designing an irrigation well.



James A Goodman
Natural Resources Engineer

BIBLIOGRAPHY

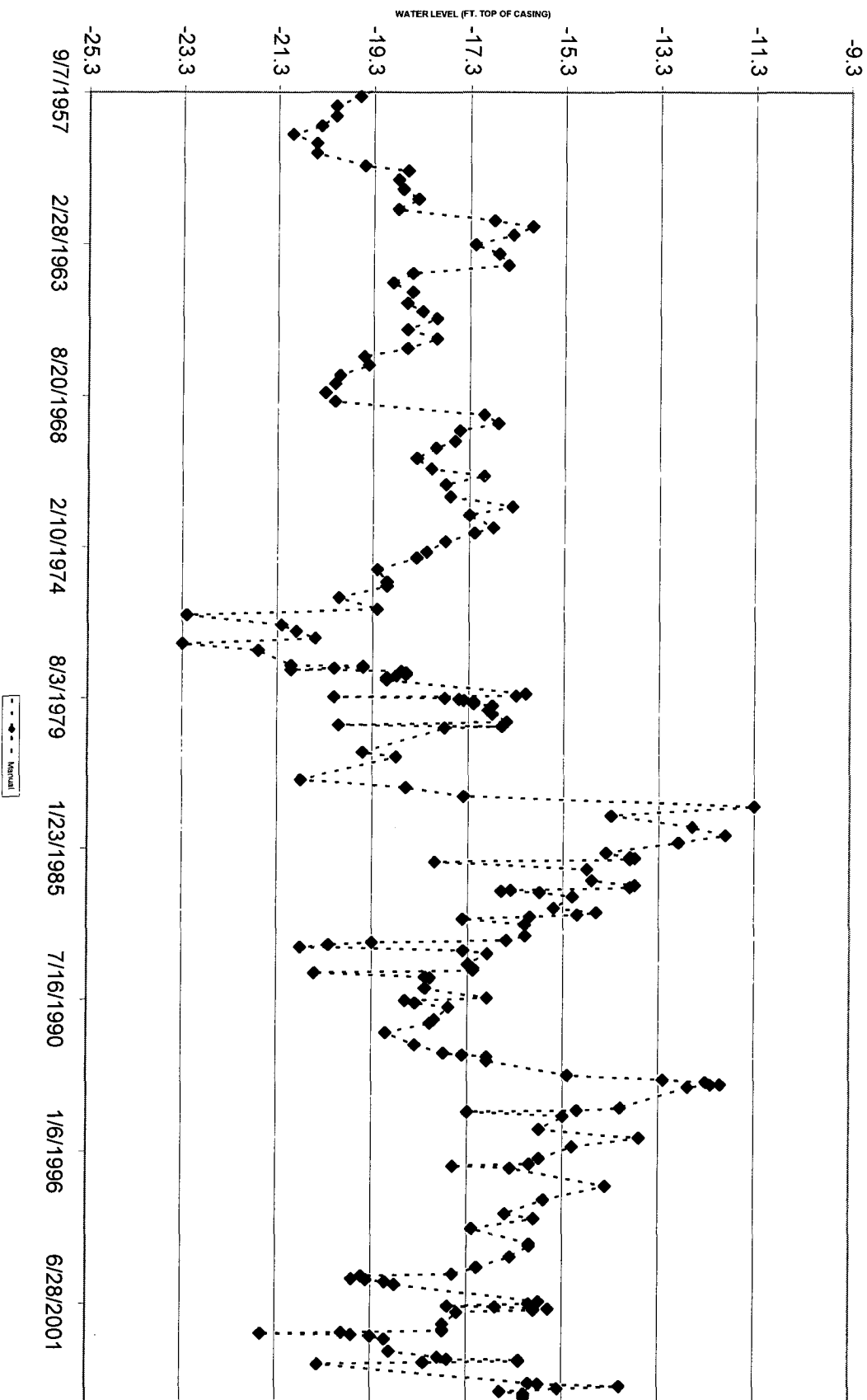
Hedges, L.S., and others, 1982, Evaluation of Ground-Water Resources Eastern South Dakota and Upper Big Sioux River, South Dakota and Iowa, for US Army Corps of Engineers, SD DENR, SDGS, Vermillion, SD, 57069.

Niehus, C.A., 1994, Water Resources of Lincoln and Union Counties, South Dakota, Water Resources Investigations Report 93-4195, USGS, Rapid City, SD, 57702.

Niehus, C.A., R.F. Thompson, 1998, Appraisal of the Water Resources of the Big Sioux Aquifer, Lincoln and Union Counties, South Dakota, Water Resources Investigations Report 97-4161, USGS, Rapid City, SD, 57702.

Water Rights, 2004, Unpublished Observation Well Data for the Big Sioux Aquifer, SD DENR, DES, Water Rights Program, Pierre, SD, 57501.

WATER RIGHTS' OBSERVATION WELL LN-57D





**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. 6551-3, Ronald Hulshoff**

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. 6551-3, Ronald Hulshoff, 905 4th Avenue, NE, Sioux Center IA 51250.

The Chief Engineer is recommending APPROVAL of Application No. 6551-3 because 1) the proposed diversion can be developed without unlawful impairment of existing rights, 2) the proposed use is a beneficial use and 3) it is in the public interest with the following qualifications:

1. 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.
2. The wells authorized by Permit No. 6551-3 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. Pursuant to SDCL 46-5-6 which allows a greater diversion rate if the method of irrigation, time constraints or type of soils so requires, Permit No. 6551-3 authorizes a maximum diversion rate of 1.11 cfs from the wells for the irrigation of 60 acres with an annual volume not to exceed 2 acre feet of water per acre per year.
4. 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
January 6, 2005

RECEIVED

JAN 24 2005

WATER RIGHTS
PROGRAM

Affidavit of Publication

STATE OF SOUTH DAKOTA
COUNTY OF LINCOLN

JULIE GERBER

being first duly sworn on her oath says; that the Sioux Valley News is a legal weekly newspaper of general circulation as required by South Dakota Code of Nineteen Hundred Thirty-Nine, and any acts amendatory thereto, printed and published by the Sioux Valley News, Inc., in Canton, in said county and State, and has been such legal newspaper during the time hereinafter mentioned; that she is and during all of said time was bookkeeper of said newspaper and has personal knowledge of the facts stated in this affidavit; that the advertisement headed:

NOTICE OF APPLICATION NO 6551-3 TO APPROPRIATE WATER

a printed copy of which is hereto attached, was printed and published in said newspaper for **TWO** successive weeks upon the following dates, to-wit:

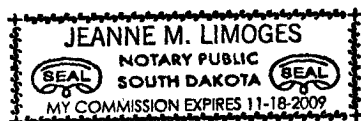
JANUARY 13, 2005
JANUARY 20, 2005

that the full amount of the fees charged for publishing the same to-wit: the sum of **\$35.37** insures solely to the benefit of the publishers of said newspaper; that no agreement or understanding for any division of this sum has been made with any other person; and that no part of said sum has been agreed to be paid to any person whomsoever.

Subscribed and sworn to before me this **20th** day of **JANUARY, 2005.**

Jeanne M. Limoges
Notary Public, South Dakota

(Seal)



NOTICE OF APPLICATION NO. 6551-3 TO APPROPRIATE WATER

Notice is given that Ronald L. Hulshoff, 905 4th Avenue NE, Sioux Center IA 51250 has filed an application for a water permit to appropriate 1.11 cubic feet of water per second (cfs) from two wells to be completed into the Big Sioux: South Aquifer (approximately 36 feet deep) located in the NE1/4NW1/4 Section 24 to irrigate 60 acres located in the N1/2NW1/4 Section 24; all in T96N-R48W. 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. 6551-3 because 1) unappropriate 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 January 31, 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 Grönlund at the above Water Rights Program address to request copies of information pertaining to this application. Steve M. Pirner, Secretary, Department of Environment and Natural Resources.

(113-20)

Instruction to Newspaper - Publish first Notice on January 13, 2005 with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF APPLICATION NO. 6551-3 to Appropriate Water

Notice is given that Ronald L Hulshoff, 905 4th Ave NE, Sioux Center IA 51250 has filed an application for a water permit to appropriate 1.11 cubic feet of water per second (cfs) from two wells to be completed into the Big Sioux:South Aquifer (approximately 36 feet deep) located in the NE ¼ NW ¼ Section 24 to irrigate 60 acres located in the N ½ NW ¼ Section 24; all in T96N-R48W. 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. 6551-3 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.

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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

January 6, 2005

Sioux Valley News
PO Box 255
Canton SD 57013-0255

ATTENTION: Legal Public Notice

Enclosed is a Notice on Application No. 6551-3 to Appropriate Water to be published twice. Please publish the first notice on January 13, 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 Ronald L. Hulshof, 905 4th Ave NE, Sioux Center IA: 51250 (Ph # 712-722-1577).

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. 6551-3

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

Date _____

We are in receipt of your letter of January 6, 2005 enclosing Notice to Appropriate Water by Application No. 6551-3 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.

January 6, 2005

Ronald L Hulshof
905 4th Ave NE
Sioux Center IA 51250

Dear Mr. Hulshof:

Water Permit Application No. 6551-3 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 Sioux Valley News printed at Canton, SD (Ph # 605-764-2000). 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
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PIERRE, SOUTH DAKOTA 57501-3182
www.state.sd.us/denr

MAR 04 2003

Ronald L Hulshof
905 4th Ave NE
Sioux Center IA 51250

Dear Mr. Hulshof:

Enclosed is Water Permit No. 6551-3 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

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

Date 7-25-05

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

RECEIVED**JUL 27 2005****WATER RIGHTS
PROGRAM**

FROM: Ronald L. Hulshof
(name)

905 4th Ave. N.E.

(address)

Sioux Center, Iowa 51250

(city, state, zip)

712-722-1488 Ext. 122 (D)712-722-1577 (H)

(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. 6551-3 states that the water use system is to be constructed by

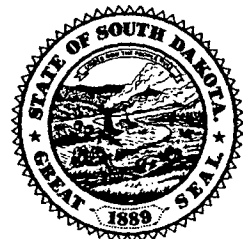
January 31, 2010 , and water is to be put to beneficial use by January 31, 2014
(date) (date)

The water use system was completed on July 14, 2005
(date)

Applying the water to beneficial use was completed on July 14, 2005
(date)

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

Ronald L. Hulshof
(signature)



SOUTH DAKOTA WATER WELL COMPLETION REPORT

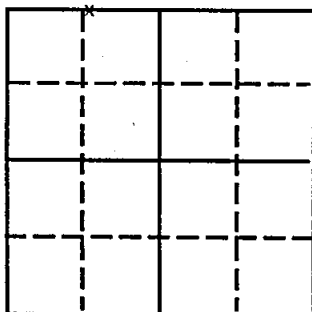
11-02

Location NE 1/4 NW 1/4 Sec 24 Twp 96N Rg 48W

County

Lincoln

North



Please mark well location with an "X"

Well Completion Date

5/21/2005

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

1,400.0 ft. from Septic system (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

CASING DATA:

☐ Steel
 ☒ Plastic
 ☐ Other

If other describe

PIPEWEIGHT LB/FT	DIAMETER IN	FROM FT	TO FT	HOLE DIAMETER IN
	<u>16.00</u>	<u>0.0</u>	<u>20.0</u>	<u>22.00</u>

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight Lb/gal	From Ft	To Ft
<u>Bent Grt</u>	<u>16</u>	<u>9.5</u>	<u>0.0</u>	<u>17.0</u>

Describe grouting procedure
Tremie method

SCREEN:

☐ Perforated pipe
 ☒ Manufactured
 Diameter 16.00 Inches Length 20.0 Feet

Material PVC-slotted pipe

Slot Size .080 Set From 20.0 Feet to 40.0 Feet

Other information

WAS A PACKER OR SEAL USED?

☐ Yes
 ☒ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? HTH tablets

Lab sample sent to for water quality analysis

Well Owner: Ron Hulshof

Business Name:

Address: 905 4th Ave NE

City, State, Zip: Sioux Center IA 51250

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Clay, brown, very sticky	0	3
Sand, coarse, pebbly	3	19
Gravel, med to coarse, sandy	19	38
Shale, dk gray, silty (Carlile Shale)	38	40

STATIC WATER LEVEL 20.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:
☐ Bailed
☐ Other

Pumping Level Below Land Surface

30.1 Ft. After 4.0 Hrs. pumped 230.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: 220.0 GPM

REMARKS

Well #1 of 2

This well was drilled under license # 666

And this report is true and accurate.

Drilling firm: Hammond-Wetmore Drilling

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 6/15/05

RECEIVED
FEB 02 2006
WATER RIGHTS PROGRAM

SOUTH DAKOTA WATER WELL COMPLETION REPORT

6551-3
11-02Location NE 1/4 NW 1/4 Sec 24 Twp 96N Rg 48W

County

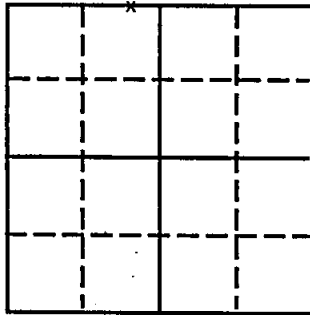
Lincoln

North

Please mark well location with an "X"

W

E



1 Mile

Well Completion Date

5/21/2005

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

1,100.0 ft. from Septic system (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

Rotary

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

If other describe

PIPEWEIGHT LB/FT	DIAMETER IN	FROM FT	TO FT	HOLE DIAMETER IN
	16.00	0.0	20.0	22.00

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight Lb/gal	From Ft	To Ft
Bent Grt	18	9.5	0.0	17.0

Describe grouting procedure
Tremie method

SCREEN:

☐ Perforated pipe ☒ Manufactured
Diameter 16.00 Inches Length 20.0 FeetMaterial PVC-slotted pipeSlot Size .080 Set From 20.0 Feet to 40.0 Feet

Other information

WAS A PACKER OR SEAL USED?

☐ Yes ☒ No

If so, what material?

Describe packer(s) and location

DISINFECTION: Was well disinfected upon completion?

☒ Yes, How? HTH tablets
☐ No, Why Not?

Lab sample sent to for water quality analysis

Well Owner: Ron Hulshof

Business Name:

Address: 905 4th Ave NECity, State, Zip: Sioux Center IA 51250

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Clay, brown, very sticky	0	3
Sand, coarse, pebbly	3	18
Gravel, med to coarse, sandy	18	39
Shale, dk gray, silty (Carlile Shale)	39	42

STATIC WATER LEVEL 17.0 FEET

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ Inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other _____

Reduced flow rate _____ GPM

Can well be completely shut in?

WELL TEST DATA:

☒ Pumped Describe:
☐ Bailed
☐ Other

Pumping Level Below Land Surface

26.1 Ft. After 4.5 Hrs. pumped 240.0 GPM

_____ Ft. After _____ Hrs. pumped _____ GPM

If pump installed, pump rate: 220.0 GPM

REMARKS

Well #2 of 2

This well was drilled under license # 666

And this report is true and accurate.

Drilling firm: Hammond-Wetmore Drilling

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

Date: 6/15/05RECEIVED
7-3-05

Permit No. 6551-3
Big 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, June 28, 2006, made a thorough examination of the water use system constructed by Ronald L. Hulshof of 905 4th Ave NE, Sioux Center IA 51250 holder of Permit No. 6551-3, bearing the priority of November 29, 2004 authorizing the diversion of 1.11 cu. ft. per second of the waters of Big Sioux: South Aquifer for irrigation purposes, in Lincoln County.

Inspection contact & relationship **Ron Hulshof - owner**
to permit holder, if applicable:

A. Works used to divert the water:

Well Information:

East Well: Well Drilling Firm: <u>Hammond - Wetmore</u> Depth(s) <u>42</u> feet Well log is available <u>yes</u> Comment:	West Well: Well Drilling Firm: <u>Hammond - Wetmore</u> Depth(s) <u>40</u> feet Well log is available <u>yes</u> Comment:
Casing: Diameter <u>16</u> inches Length <u>20</u> feet Type <u>pvc</u>	Casing: Diameter <u>16</u> inches Length <u>20</u> feet Type <u>pvc</u>
Screen: Type <u>pvc</u> Length <u>20</u> feet Static water level <u>17</u> feet	Screen: Type <u>pvc</u> Length <u>20</u> feet Static water level <u>20</u> feet
Pump: Make <u>Goulds 150-10</u> Model Size <u>6"</u> Capacity <u>175</u> GPM	Pump: Make <u>Goulds 150-10</u> Model Size <u>6"</u> Capacity <u>175</u> GPM
Motor: Make <u>Franklin</u> Model No. Horsepower rating <u>20</u> hp	Motor: Make <u>Franklin</u> Model No. Horsepower rating <u>20</u> hp

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

- 1) Type pvc 2) Size 8 inches 3) Length 560 feet

C. Works used to apply water to beneficial use:

Center pivot:

- 1) Make Reinke
2) Overall length 1302 feet
3) Number of towers 8
4) End gun yes, SR-100
5) High or low pressure low
6) Capacity 350 GPM

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
3) Exceptions to compliance are: none

The system is in good condition with the point(s) of diversion located as follows: W. well is 1295' E and 40' S (43.126839/-96.465291) and the E well is 1840' E and 42' S (43.126803/-96.463216) all from the NW corner Section 24-T96N-R48W. The works are capable of diverting and conveying to the place of use 0.78 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:

Section 24-T96N-R48W:

NE NW 30 acres

NW NW 30 acres

Comprising a total of 60 acres of land and the license should be issued for 0.78 cfs.

All structures, wells and lands on map yes

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



Lynn Beck

Natural Resources Engineer Specialist
DENR, Water Rights Program

Date report completed: September 12, 2006

Approval of Location Change and/or Additional Diversion Point(s)

NAME: Ronald L. Hulshof

ADDRESS: 905 4th Ave NE, Sioux Center IA 51250

DATE: September 12, 2006 COUNTY: Lincoln TELEPHONE: #

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**

Yes – Big Sioux: South Aquifer

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

No new lands irrigated.

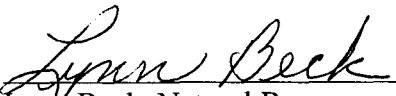
- **Review of Existing Diversions**

6551-3 authorizes two wells located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 24-T96N-R48W, one well was developed in the NW $\frac{1}{4}$ NW $\frac{1}{4}$.

There are 7 irrigation wells and one municipal well within approximately one mile of this diversion point. One well authorized by 6144-3, three wells authorized by 6064-3, one well authorized by 5442-3, one well authorized by 3566-3, one well authorized by 2541-3, and one municipal well authorized by 1139-3. Interference is not a concern.

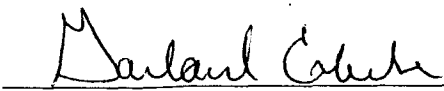
RECOMMENDED ACTION

Based on the above criteria, it is recommended that the diversion point(s) be licensed as developed.


Lynn Beck, 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 and/or additional diversion point(s) does not increase the potential for adverse effects to existing diversions.


Garland Erbele, Chief Engineer
Water Rights Program

**STATE OF SOUTH DAKOTA
WATER LICENSE NO. 6551-3**

(1) Ronald L. Hulshof, 905 4th Ave NE, Sioux Center IA 51250 made Application No. 6551-3, November 29, 2004 for a water permit to divert 1.11 cubic feet of water per second from groundwater (two wells), Lincoln County, South Dakota for irrigation purposes. Permit No. 6551-3, with a priority date of November 29, 2004 was approved January 31, 2005 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before January 31, 2010 and for the application to beneficial use of water on or before January 31, 2014.

The permit holder submitted a *Notice of Completion of Works and Application of Water to Beneficial Use* on July 25, 2005. The *Notice* stated the diversion system was completed on July 14, 2005 and the water placed to beneficial use on July 14, 2005.

An investigation conducted for licensing purposes found the well under Water Permit No. 6551-3 was not in the location authorized by the permit. Pursuant to SDCL 46-5-13.1, the Chief Engineer makes a finding that the change in location of diversion point does not increase the potential for interference with existing water rights.

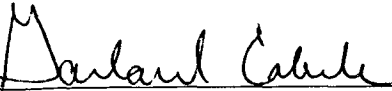
(2) The water supply system has been completed and water applied to beneficial use in accordance with South Dakota State Law. Pursuant to South Dakota Codified Law 46-5-30.1, the holder and/or owner of Water Right No. 6551-3 is issued a license, bearing a priority date of November 29, 2004 to appropriate 0.78 cubic feet of water per second from groundwater (two wells) to irrigate 60 acres.

The diversion points are located: west well – 1,295 feet east and 40 feet south (NW ¼ NW ¼) and east well – 1,840 feet east and 42 feet south (NE ¼ NW ¼); both from the northwest corner of Section 24-T96N-R48W. The acres authorized for irrigation are as follows:

Section 24-T96N-R48W	NE ¼ NW ¼	30 acres
	NW ¼ NW ¼	30 acres
Total 60 acres		

(3) This license is subject to South Dakota Water Law, any limitations or conditions listed in Water Permit No. 6551-3 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. 6551-3 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.



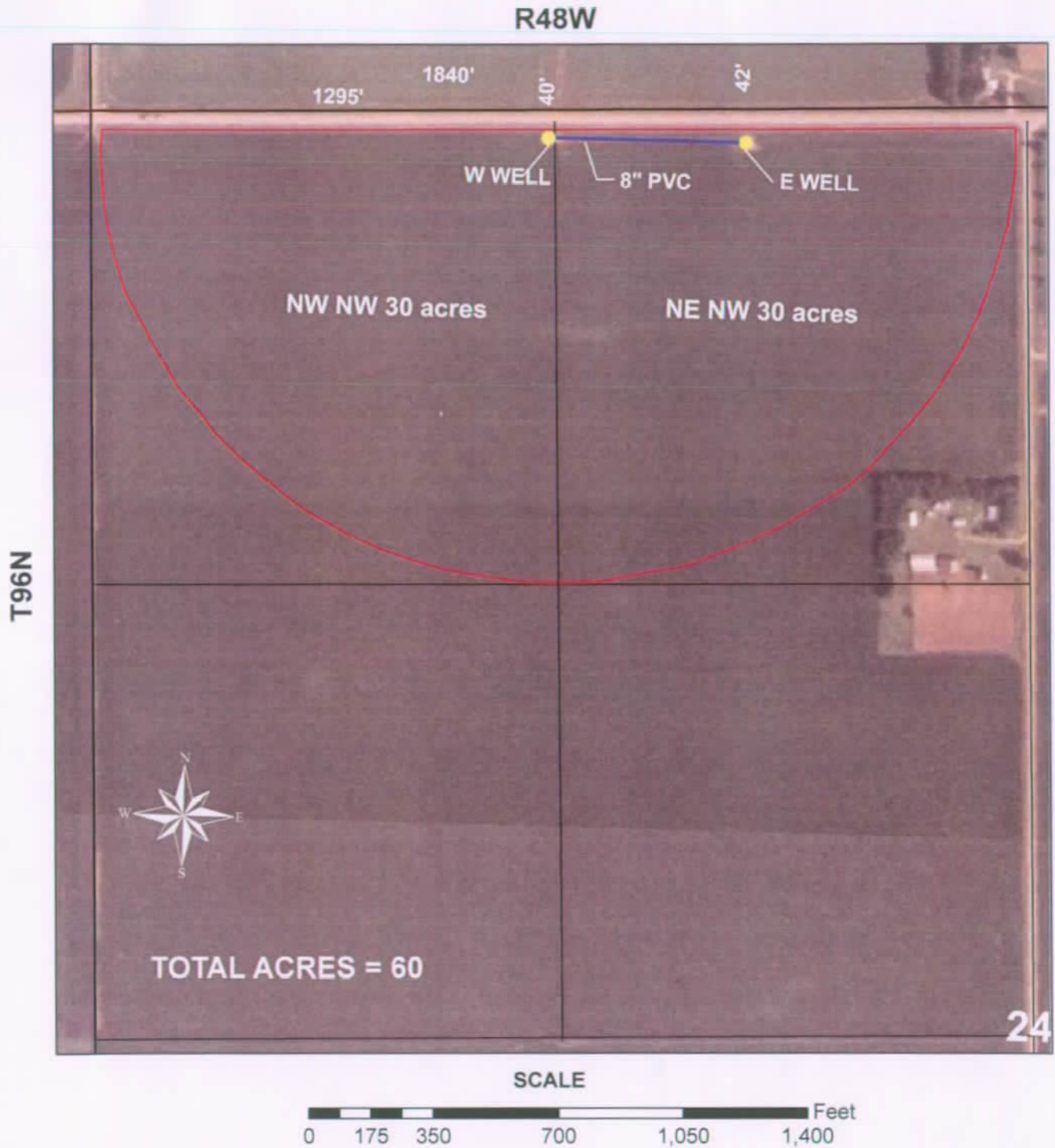
Garland Erbele, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

MAY 01 2007

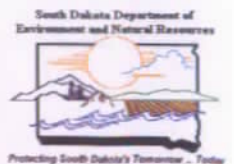
date



WATER RIGHT NO. 6551-3
Ronald L. Hulshof
September 12, 2006



Lynn Beck
Lynn Beck
Natural Resources Engineer
DENR - Water Rights Program
September 12, 2006





**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 01 2007

6551-3

RONALD L HULSHOF
905 4TH AVE NE
SIOUX CENTER IA 51250

Dear Mr. Hulshof:

Enclosed is Water License No. 6551-2. This is the final water right document completing your process of obtaining a Water Right.

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. 6551-3, 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

6551-3



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

October 15, 2012

2541-3
6551-3
7108-3

Ronald & Conni Hulshof
2410 Ridge Rd
Sioux Center IA 51250-2935

Dear Mr. & Mrs. Hulshof:

Enclosed is a "Notice" dated October 12, 2012 concerning the 2012 irrigation questionnaires for your Water Right Nos. 2541-3, 6551-3 and Water Permit No. 7108-3.

The notice was originally mailed to 905 4th Ave NE, Sioux Center IA. The post office notified us that your address has changed and I will update our records accordingly.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in cursive script that reads 'Genny McMath'.

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

enclosures

6551-3



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**
JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

MAY 17 2023

6551-3
7108-3

Ronald L Hulshof
102 Martin Dr NE
Orange City IA 51041

Dear Mr. Hulshof:

Enclosed is Water License No. 7108-3. 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, State Water Laws provide that you have a continuing right to use the water. If you have any questions, please contact our office.

Sincerely,

Eric Gronlund, Chief Engineer
Water Rights Program
(605) 773-3352

enclosures

Note: Upon licensing, the applicable portions of Water Right No. 6551-3 were incorporated into Water License No. 7108-3.