

Considered: _____

WATER PERMIT NO. 5025-3

MAP No. 5025-3

Name of Applicant Darrel Jongeling

Post Office Address Castlewood, S.D. 57223

Amount of Water Claimed 3.20 Total Acres 231.00

Source of Water Supply 53' deep well

Water to be used for IRR County Hamlin

About 5 S 2 miles east of Castlewood

PROOF OF PUBLICATION: Received 1st 8-24-84 Not Received _____

APPLICATION: Approved 9-26-84 Subject to _____

F.F. & C.L. Adopted _____ Not Approved _____ Deferred _____

PRIORITY _____ Date Received 3/2/84 Fee 275.00 Remarks _____

7/13/84

WQ

Corrected Application Received _____ Period of Annual Use 4/1/ 10/31

WATER QUALITY APPROVAL RECEIVED 7/13/84 APPROVED/CONDITIONAL (~~CHXXKXKX~~)

WI-1 Description same as Application YES XX NO _____ REMARKS _____

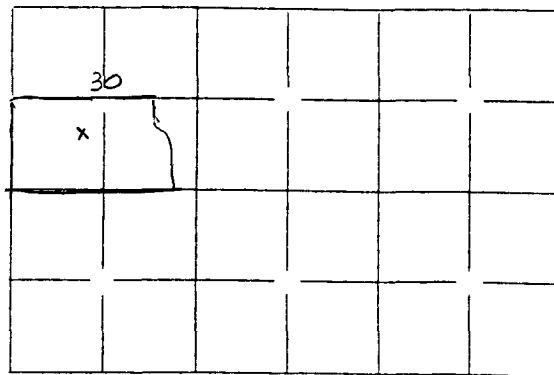
Diversion Point _____

NE $\frac{1}{4}$ SW $\frac{1}{4}$, Section 30-T114N-R51W

Land to be Irrigated _____

SW $\frac{1}{4}$ & SE $\frac{1}{4}$ Section 30-114-51

(S $\frac{1}{2}$)



Well Log: Driller Kaiser Well Drilling Licensed YES XX NO _____

Depth of Well XXX 53' REMARKS _____

Type of Map aerial PREPARED BY John Wiersma PE Reviewed and the Number

assigned on 7/16/84 By Betty Westlund
BETTY WESTLUND NRA III

cc/nelson

No. 5025-3	Hydrologic Unit 10170202
Map No. 5025-3	Basin Big Sioux River
Newspaper Hamlin Co. Republican, Castlewood	

Application For Permit To Appropriate Water Within The State Of South Dakota

Type of Application: Check one or more of the following;

New ☒ Vested Right ☐ Future Use ☐☐ Application to amend Permit No. _____ with old priority date retained☐ Change diversion point(s) ☐ Add diversion point(s) ☐ Change acreage ☐ Other ☐☐ Application to: ☐ Change use ☐ Change diversion point(s) ☐ Add diversion point(s)☐ Add Acreage ☐ Increase diversion rate ☐ Other _____ See Permit No. _____☐ Application to: ☐ Use ☐ Transfer water reserved by Future Use Permit No. _____1. Name of Applicant Darrel Jongeling Phone No. _____Post Office Address Castlewood South Dakota State 57223
(Street, RR or Box) Zip Code2. Amount of water claimed (c.f.s) 3.2 Total acres irrigated 233. Source of Water supply well4. Location of point of diversion 2650' N 58° E of SW corner of Sec 30-114-51County Hamlin5. Counties where water will be used Hamlin6. Annual period during which water is to be used April through Oct

7. List below each forty acre subdivision, or lot, or fraction thereof and show number of acres to be irrigated in each.

Land Description	No. Acres Irr.
NW ^{1/4} of SW ^{1/4} of Sec 30 - 114-51	39
NE ^{1/4} of SW ^{1/4} of Sec 30 - 114-51	40
SW ^{1/4} of SW ^{1/4} of Sec 30 - 114-51	33
SE ^{1/4} of SW ^{1/4} of Sec 30 - 114-51	36

Land Description	No. Acres Irr.
NW ^{1/4} of SE ^{1/4} of Sec 30 - 114-51	32
NE ^{1/4} of SE ^{1/4} of Sec 30 - 114-51	3
SW ^{1/4} of SE ^{1/4} of Sec 30 - 114-51	36
SE ^{1/4} of SE ^{1/4} of Sec 30 - 114-51	10

Attach sheet if more space is needed

8. Give a brief description of proposed project. When available include any preliminary engineering report or other reports or information that will help explain the project. (Attach sheet if more space is needed)

Deep well with turbine pump transports water to center pivot irrigation machine. The tree claim in SW^{1/4} will eventually be removed. It is matured and drying out.

Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach map (see instruction)

STATE OF SOUTH DAKOTA)
County of Brookings)^{ss}I, Darrel Jongeling the applicant, certify that I have read the foregoing application, have examined the attached map and that the matters therein stated are true and that I intend, and am able to complete the necessary construction.

Signed

X Darrel JongelingSubscribed and sworn to before me this 28 day of Febr 1984
John Swenson
Notary Public (or other qualified officer)

WATER PERMIT

The Water Management Board hereby approves Water Permit Application No. 5025-3

Darrel Jongelling

(Applicant)

Castlewood

(Post Office Address)

South Dakota

(State)

57223

(Zip Code)

With the following qualifications.

The irrigation well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The irrigation well owner, under this Permit, shall control his irrigation withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

This permit is approved subject to the irrigation water use questionnaire being submitted each year.

Date of first receipt of application March 2, 1984

Date of return to applicant for correction, amendments or changes required _____, 19____

Date of receipt of corrected application _____, 19____. Approved September 26, 1984

The Water Management Board hereby approves this Water Permit No. 5025-3 authorizing the construction of the water use system and the placing of water to beneficial use as stated in the Application and as qualified in the Water Permit approval, subject, however, to the following limitations and conditions:

1. The date from which applicant may claim right is July 13, 1984
2. One-fifth of the work is to be completed on or before March 26, 1984
3. The whole of said work is to be completed on or before September 26, 1989
4. The time limit for proof of beneficial use of water is September 26, 1993
5. The water appropriated shall be used for the purpose of irrigation
6. The prior right of all persons who, by compliance with the laws of the State of South Dakota, have acquired a right to the use of water must not be unlawfully impaired by this appropriation.
7. The amount of the appropriation herein granted shall not exceed 3.20 cubic feet per second; neither shall it exceed the capacity of the above described water supply system nor shall it exceed the amount of water needed for beneficial uses served. For irrigation purposes said appropriation must be limited to not more than 2 acre feet per acre per year and be limited to not more than one-seventieth ($1/70$) of one cubic foot of water per second of time for each acre of land to which water is actually and beneficially applied for irrigation on or before September 26, 1993; said water to be used during the following described annual period: April 1 to October 31

WATER MANAGEMENT BOARD

By: John Hatch

Chief Engineer

Division of Water Rights

Dept. of Water and Natural Resources

October 23, 1984

Supplemental Information

(type or print in ink)

1. Well Information - Proposed construction

- a) Drill Hole Diameter 20" Depth 53'
- b) Casing Type Steel Diameter 10" Thickness 3/16"
- c) Screen Type Cont 310+ Diameter 10" Thickness 3/16"
- d) Gravel Pack Thickness 4" Length of Gravel Pack 40'
- e) Depth to Top of Water Bearing Material 29'
- f) Depth of Water (ground surface to water level) 13'
- g) Distance to nearest existing domestic well:
- On applicants property No supply On property owned by others 80 rds

2. Dugout Information Estimates

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

3. Water Storage Dams

If the proposed water use system contains one or more storage dams, please furnish the information requested below. The locations of each dam should 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) Outlet Dimensions:
Pipe diameter —

Spillway width —

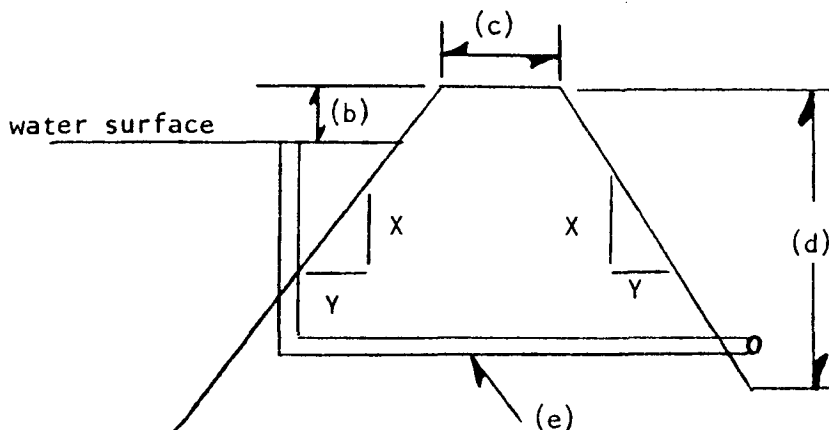
f) X & Y Slope
Upstream —

Downstream —

Surface Area of Impoundment —

Storage — acre feet

Drainage area above dam —



X Darrel Jongeling
Signature of Applicant

**IRRIGATION-TESTING-DRILLED-STOCK AND DOMESTIC
BORED WELLS** Ph. 854-3744

Name Donald J. Taylor
Location _____
Township 114-515W
Section 0-30

[illegible]

Data

Top soil	0- 12'
Brown clay	12- 13'
gravel & Py	13- 19'
Blue clay	19'- 29'
blue clay very soft	29'- 34'
gravel (Tool water)	34'- 53'

Driller: *Donald J. Kain*

[illegible]

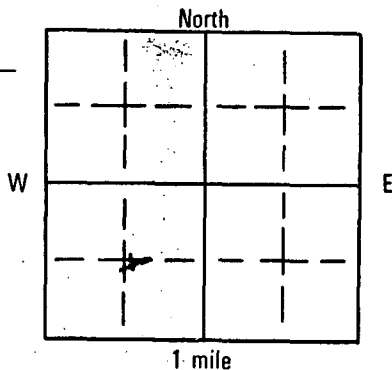
5025

SOUTH DAKOTA WATER WELL COMPLETION REPORT

10-85

Location 5 1/4 W 1/4 Sec 188 Twp 114 Rg 51County Hamlin

Please mark well location with an "X"

Well Completion Date 4-26-89

PROPOSED USE:

☐ Domestic ☐ Municipal ☐ Test Holes
☒ Irrigation ☐ Industrial ☐ Stock

Method of Drilling:

Direct Rotary

CASING DATA:

☒ Steel ☐ Plastic ☐ Other

If other describe _____

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
<u>54</u> LB/FT	<u>14</u> IN	<u>2'</u> FT	<u>26</u> FT	<u>20</u> IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN
_____ LB/FT	_____ IN	_____ FT	_____ FT	_____ IN

GROUT:

Was the well grouted? ☒ YES ☐ NOTo what depth? 20 FEETWhat is grouting material? Portland CementIf cement, number of sacks? 23Describe grouting procedure Turbine PipeWhat was grout weight? 15 1/2 LB/GALSCREEN: ☐ Perforated pipe ☒ ManufacturedDiameter 14 IN Length 15 FEETMaterial Johnson Hi-Q StainlessSlot Size #20 Set From 26 Feet To 41 Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Slot Size _____ Set From _____ Feet To _____ Feet

Other information Packed w/ Flint Rock20Was a packer or seal used? ☐ YES ☐ NO

If so, what material? _____

Describe packer(s) and location? _____

Was well disinfected upon completion? ☒ YES ☐ NOExplain H.T.H. 100Bacteriological analysis ☒ YES ☐ NOLaboratory sent to Brookings by owner

Well Owner:

Name Darrel JonaglingAddress Castlewood, S.D.

Well Log: _____ Depth _____

Formation _____ From _____ To _____

Topsoil 0 1 1/2gravel yellow 1 1/2 14'yellow clay soft 14' 16'gravel grey medium 16' 41'Blue clay 41' 60'STATIC WATER LEVEL 8 Feet

If flowing: closed in pressure _____ PSI

GPM flow _____ through _____ inch pipe

Controlled by ☐ Valve ☐ Reducers ☐ Other

If other, specify _____

Can well be completely shut in? _____

WELL TEST DATA:

☒ Pumped Turbine☐ Bailed Describe: _____☐ Other _____

Pumping Level Below Land Surface

26 ft. After 24 Hrs. pumped 700 GPM

_____ ft. After _____ Hrs. pumped _____ GPM

_____ ft. After _____ Hrs. pumped _____ GPM

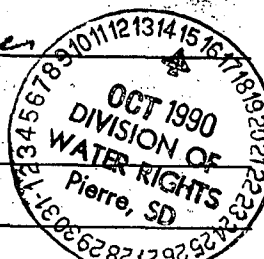
REMARKS:

This well was drilled under license # 337

And this report is true and accurate.

Drilling firm Kaiser Well DrillingSignature of License Representative: Ronald J. Kaiser

Signature of Well Owner: _____

Date 5-4-89

REPORT ON APPLICATION NO. 5025-3

DARREL JONGELING

August 1, 1984

Application No. 5025-3 proposes to irrigate 231 acres in the SW $\frac{1}{4}$ and SE $\frac{1}{4}$ of section 30, T114N, R51W from one 53 foot well. The applicant will withdraw 3.2 cubic feet per second of ground water from the Big Sioux-Brookings management unit.

The Big Sioux-Brookings management unit is a glacial sand and gravel aquifer. The aquifer contains an estimated 642,230 acre feet of recoverable water (Hedges 1981). The aquifer is generally under water table conditions.

The Division of Water Rights monitors 68 observation wells in this management unit. These wells have shown the seasonal fluctuations due to the spring runoff and the affects of high capacity wells. Hydrographs also indicate the fluctuations of head pressure in the portion of the aquifer under artesian conditions. In no case did the hydrographs indicate a water depletion problem at the present level of development. Attached are hydrographs for six observation wells located close to the proposed permit.

Presently, appropriations issued by the Water Management Board total approximately 91,051 acre feet of water from the BS:B unit. This is 14% of the total amount of recoverable water. Water use figures are as follows:

	Appropriated	Reported used	% of Available Actually used
1981	91,361	9,040	1.41
1982	92,000	4,494	0.70
1983	91,051	7,553	1.18

These values for actual water use verses amount appropriated are typical for the entire state. This shows that on paper the aquifer is approaching full appropriation, but actual usage values show that more development can take place.

Although there is a large number of permits issued in this management unit (197) interference between wells has not and should not be a problem. This is mainly due to the aquifer being under water table conditions, but also is due to the large amount of water available in the system. There should not be any adverse affects on existing permits if this application is approved.

Conclusions

1. There is a reasonable probabilitiy that unappropriated water is available for this application.
2. Observation wells are being monitored and do not indicate any problems with interference.

Gale N Selken

GALE N SELKEN
Hydrologist

References

1. Hedges, Burch, Iles, Evaluation of Ground Water Resources, Eastern South Dakota, Upper Big Sioux Basin South Dakota and Iowa, SDGS, Vermillion, 1982.
2. Water Rights Division Files, Division of Water Rights, Pierre SD. 1984.
3. Irrigation Questionnaire Files, Division of Water Rights, Pierre SD. 1984.
4. Observation Well File, Microfische and Computer Files, Division of Water Rights, Pierre SD, 1984.

OBSERVATION WELL WATER LEVELS OBS_WELL=NN-57B

7:54 MONDAY, JULY 30, 1984 27

PLOT OF READING*DATE SYMBOL USED IS *

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READING

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7	8	9	0	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3

DATE

NOTE: 18 OBS HIDDEN

OBSERVATION WELL WATER LEVELS OBS_WELL=HN-77E

7:54 MONDAY, JULY 30, 1984 42

PLOT OF READING=DATE SYMBOL USED IS *

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READING

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DATE

NOTE: 13 OBS HIDDEN

OBSERVATION WELL WATER LEVELS OBS_WELL=HN-77F

9:54 MONDAY, JULY 30, 1984 43

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DATE

NOTE: 15 OBS HIDDEN

OBSERVATION WELL WATER LEVELS OBS_WELL=MN-83A

9:54 MONDAY, JULY 30, 1981 48

PLOT OF READING*DATE SYMBOL USED IS *

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READING

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DATE

NOTE: B OBS HIDDEN

RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5025-3, Darrel Jongeling

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Water and Natural Resources concerning Water Permit Application No. 5025-3, Darrel Jongeling, Castlewood SD.

The Chief Engineer is recommending APPROVAL of Application No. 5025-3 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) in the public interest with the following qualifications:

The irrigation well approved under this Permit will be located near domestic wells and other wells which may obtain water from the same aquifer. The irrigation well owner, under this Permit, shall control his irrigation withdrawals so there is not a reduction of needed water supplies in adequate domestic wells or in adequate wells having prior water rights.

This permit is approved subject to the irrigation water use questionnaire being submitted each year.

See the attached report for additional information.

A handwritten signature in black ink, appearing to read "John Hatch", with a stylized flourish at the end.

JOHN HATCH, Chief Engineer
August 10, 1984

RECEIPT

Division of Water Rights

No 4 9596

South Dakota Department of Water and Natural Resources

Pierre, March 21, 19 04

RECEIVED OF Darrell Jongeling, Castwood, SD 57223

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

Fee for Application for Permit No. 5025-3 to Appropriate Water, to construct works and to put water to beneficial use	275	00=
Fee for Application for Permit No. to Appropriate Water for Future Use		
Fee to retain Future Use Permit No. after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No.		
Fee for Filing Transfer Form		
Fee for Filing Extension Request		
Fee for Certified Copy of		
Fee for Print Copy of Map		
Fee for Certifying		
Fee for		
(Any Other Work Provided by Law)	Total	275 00

By John Hatch
Chief Engineer JOHN HATCH (ns)



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501-3181
March 12, 1984

Water Rights Division
605 773-3352

Darrell Jongeling
Castlewood,
South Dakota 57223

Dear Mr. Jongeling:

In checking your soil/water compatibility approval, received March 12, 1984 from the State Conservation Commission, with your application received in our office March 2, 1984, it has been discovered there are 15 acres in the E 1/2 SE 1/4, Section 30, T114N, R51W that have not been covered.

3/22/84

We can not process your application until the approval for this 15 acres has been received in our office from the State Conservation Commission. Enclosed is a completed WI-1 from our office. Please check over sign, notarize and return to Jim Stukel, Dept of Agriculture, Div of Conservation, Anderson Bldg. Pierre SD 57501 along with the soils map for the E 1/2 SE 1/4 Section 30. If the WI-1 is received by them before March 22, 1984 it can be acted on at their meeting March 22nd.

Upon our receipt of the WI-1 for the additional 15 acres and your \$275.00 filing fee further processing will proceed. If you have any questions, please contact our office.

Sincerely,

BETTY WESTLUND
Natural Resources Analyst

BW:ks

enclosure

cc: Jim Stukel

4/11/84

The application for Darrell Jongeling was received after our office had already gone over the ^{land (etc)} descriptions on our applications and WI-1's which we do each time before the SCC meets. Therefore the difference in land description of the 15 acres was not detected until after the SCC met. Called D. Gullickson Equal Opportunity Employer who was handling the paper work he understood the difference.
BW:



Department of Agriculture

DIVISION OF CONSERVATION

Anderson Building, Room 322

Pierre, South Dakota 57501

Phone 605/773-3258

March 1, 1984

Darrel Jongeling
Castlewood, SD 57223

Dear Mr. Jongeling:

In reviewing your soil and water compatibility application for the SW $\frac{1}{4}$ and NW $\frac{1}{4}$ SE $\frac{1}{4}$ 30-114-51 = 320 acres, the irrigation staff is recommending a Conditional Approval of your application to the State Conservation Commission at their March 8, 1984 meeting. The Conditional Recommendation is based on the water table and clay content of the Flom and Lamoure soils. The Restrictions and Management Recommendations are as follows:

RESTRICTIONS:

The soil of Lamoure silty clay loam and Flom clay loam are subject to seasonal water table under irrigation, these water tables may remain perched. By the raising of this water table you may experience crop reduction due to excess wetness, and the loss of the salt leaching, as well as the uppermovement of salts found naturally in these soils. The upward movement as well as those salts introduced through irrigation will concentrate just above the water table. In these areas adequate internal drainage is required, to achieve this necessary drainage an artificial drainage system may be required i.e. tile drainage system.

The drainageways shall be maintained in grass and/or alfalfa to control erosion.

MANAGEMENT RECOMMENDATIONS:

Your water management plan will be very important and as part of it we recommend a monitoring plan for the depth of the water and soil monitoring for the leaching of salts.

We also recommend that conservation practices be used to prevent erosion and conserve moisture.

If you have any questions concerning your application please feel free to contact this office.

Sincerely,

Jim Stukel
Irrigation Program Administrator

cf

cc: Division of Water Rights



March 2, 1984

Darrel Jongeling
Castlewood, S.D. 57223

Dear Mr. Jongeling:

Your application dated February 28, 1984 for a permit to appropriate water from groundwater was received March 2, 1984. We have not, as of this date, received the filing fee of \$275.00 and the soil/water compatibility approval from the State Conservation Commission.

When this information is received further processing of your application will proceed.

To Maintain your priority date on your application of March 2, 1984 for permit to appropriate water, in accordance with SDCL 46-5-16, you will now have sixty days from the date of this letter to correct your application and/or to have the above information submitted to this office.

Sincerely,

BETTY WESTLUND
Natural Resource Analyst III

bw

SOIL/WATER COMPATIBILITY PERMIT APPLICATION FORM

Division of Conservation

Office Use Only

4100

WR#

OWNERS NAME: Darrel Jongding OWNERS ADDRESS: Castlewood S.D. 57223

COUNTY LAND LOCATED IN: Hamlin PHONE: _____

TENANT'S NAME AND ADDRESS: _____

LEGAL DESCRIPTION: (Show Legal Description to Nearest 10 Acres)

1. WELL LOCATION SE⁴ of NE⁴ of SW⁴ Sec 30-114-51
Depth 53'

2. SURFACE WATER SOURCE AND DIVERSION LOCATION: _____

Diversion Location: _____

Legal Description	Acres	Legal Description	Acres
<u>SW⁴ of Sec 30-114-51</u>	<u>135</u>		
<u>W² of SE⁴ of Sec 30-114-51</u>	<u>85</u>		
	<u>220</u>		

3. SHOW ANY PORTION OF LAND THAT PRESENTLY HOLDS AN IRRIGATION PERMIT: YEAR OBTAINED _____

LEGAL DESCRIPTION: _____

IN WHAT NAME: _____

4. LOCATION OF AREA TO BE IRRIGATED NOTE: **SOILS INFORMATION FOR THIS AREA MUST ACCOMPANY THE APPLICATION. (See instruction sheet)**

5. TYPE OF IRRIGATION: GRAVITY: _____ TOWLINE: _____ CENTER PIVOT: ☒ GUN: _____ (Specify) _____

6. CROPS TO BE IRRIGATED: _____

WATER QUALITY: (TO BE COMPLETED BY SDSU WATER QUALITY LABORATORY)

7. WATER SAMPLE NUMBER: 84-0017 10. ADJUSTED (SAR): 0.62
8. SALINITY (EC X 10⁶): 570 11. PERCENT SODIUM 7.27%
9. SODIUM (SAR): 0.28

I hereby certify that I personally obtained or that I personally observed that taking of a sample of the water to be used in irrigating the above-described land. I also hereby certify that the required procedures for the taking of the sample (see instruction sheet) were followed, and that the sample was taken at _____ a.m./p.m., on _____, 19____, at the following location: _____ by (individual who took sample if other than applicant). I also hereby certify that the water sample taken has NOT been adulterated or tampered with in any manner, and is TRULY REPRESENTATIVE of the water which will be used in irrigating the above-described land.

Darrel Jongding
Signature, of Water Sampler.

I understand that the Division of Conservation or agents thereof may obtain water samples from wells and surface bodies to be used for irrigation purposes to validate water samples taken at the time of application. The Department of Agriculture may also gather technical information necessary to protect the land. (46-5-6.4).

SUBSCRIBED AND SWORN BEFORE ME THIS

21 DAY OF April, 19 84

(NOTARY PUBLIC)

Darrel Jongding
APPLICANT'S SIGNATURE

Jack M. Fyfe
Director, Division of Conservation

Date

APPROVED

DISAPPROVED

☒ CONDITIONALLY APPROVED

IMPORTANT
Action by the Department of Agriculture or the State Conservation Commission is not the final action on any application. In all cases a WATER RIGHT must be obtained from the Board of Water Management, Foss Building, Pierre.

Conditional soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.

Conditional Approval

4100

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE
DIVISION OF CONSERVATIONNAME OF APPLICANT: Darrel JongelingLEGAL DESCRIPTION: SW_{1/4} & W_{1/4} SE_{1/4} 30-114-51 = 320 acres.SOIL RESTRICTIONS:THE SOIL(S) LISTED BELOW CANNOT BE IRRIGATED:THE SOILS(S) LISTED BELOW CAN BE IRRIGATED
WITH THE FOLLOWING RESTRICTIONS:

The soil of Lamoure silty clay loam and Flom clay loam are subject to seasonal water table under irrigation, these water tables may remain perched. By the raising of this water table you may experience crop reduction due to excess wetness and the loss of the salt leaching, as well as the upmovement of salts found naturally in these soils. The upward movement as well as those of salts introduced through irrigation will concentrate just above the water table. In these areas adequate internal drainage is required, to achieve this necessary drainage an artificial drainage system may be required i.e. tile drainage system.

RECOMMENDED MANAGEMENT:

Your water management plan will be very important and as part of it we recommend a monitoring plan for the depth of the water and soil monitoring for the leaching of salts. We also recommend that conservation practices be used to prevent erosion and conserve moisture.

SIGNATURE

DATE

SOIL/WATER COMPATIBILITY PERMIT APPLICATION FORM

Division of Conservation

Office Use Only

4102

WR#

OWNERS NAME: Darrel Jongeling OWNERS ADDRESS: _____

Castlewood, S.D. 57225

COUNTY LAND LOCATED IN: Hamlin PHONE: _____

TENANT'S NAME AND ADDRESS: _____

LEGAL DESCRIPTION: (Show Legal Description to Nearest 10 Acres)

1. WELL LOCATION SE $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 30-T114N-R51W

Depth 53'

2. SURFACE WATER SOURCE AND DIVERSION LOCATION: _____

Diversion Location: _____

Legal Description	Acres	Legal Description	Acres
<u>NE$\frac{1}{4}$ SE$\frac{1}{4}$ Sec 30-114-51</u>	<u>5</u>		
<u>SE$\frac{1}{4}$ SE$\frac{1}{4}$ Sec 30-114-51</u>	<u>10</u>		



3. SHOW ANY PORTION OF LAND THAT PRESENTLY HOLDS AN IRRIGATION PERMIT: YEAR OBTAINED _____

LEGAL DESCRIPTION: _____

IN WHAT NAME: _____

4. LOCATION OF AREA TO BE IRRIGATED NOTE: **SOILS INFORMATION FOR THIS AREA MUST ACCOMPANY THE APPLICATION. (See instruction sheet)**

5. TYPE OF IRRIGATION: GRAVITY: _____ TOWLINE: _____ CENTER PIVOT: ☒ GUN: _____ OTHER: _____ (Specify)

6. CROPS TO BE IRRIGATED: _____

WATER QUALITY: (TO BE COMPLETED BY SDSU WATER QUALITY LABORATORY)

7. WATER SAMPLE NUMBER: 84-0077 10. ADJUSTED (SAR): 0.62

8. SALINITY (EC X 10⁶): 570 11. PERCENT SODIUM: 7.27%

9. SODIUM (SAR): 0.28

I hereby certify that I personally obtained or that I personally observed that taking of a sample of the water to be used in irrigating the above-described land. I also hereby certify that the required procedures for the taking of the sample (see instruction sheet) were followed, and that the sample was taken at _____ a.m./p.m., on _____, 19____, at the following location: _____

by (individual who took sample if other than applicant). I also hereby certify that the water sample taken has NOT been adulterated or tampered with in any manner, and is TRULY REPRESENTATIVE of the water which will be used in irrigating the above-described land.

Signature, of Water Sampler.

I understand that the Division of Conservation or agents thereof may obtain water samples from wells and surface bodies to be used for irrigation purposes to validate water samples taken at the time of application. The Department of Agriculture may also gather technical information necessary to protect the land. (46-5-6.4).

SUBSCRIBED AND SWORN BEFORE ME THIS

27 DAY OF July, 1984

(NOTARY PUBLIC)

My commission expires
December 21, 1989

IMPORTANT

Action by the Department of Agriculture or the State Conservation Commission is not the final action on any application. In all cases a WATER RIGHT must be obtained from the Board of Water Management, Foss Building, Pierre.

Darrel Jongeling
APPLICANT'S SIGNATURE

Jack M. Felt
Director, Division of Conservation

Date

7-12-84
APPROVED

DISAPPROVED

☒ CONDITIONALLY APPROVED

Conditional soil/water permits will be recorded by the Department of Agriculture, with the County Register of Deeds.

CONDITIONAL APPROVAL

#4102

SOUTH DAKOTA DEPARTMENT OF AGRICULTURE
DIVISION OF CONSERVATIONNAME OF APPLICANT: Darrel JongelingLEGAL DESCRIPTION: NW $\frac{1}{4}$ SE $\frac{1}{4}$ 30; SE $\frac{1}{4}$ SE $\frac{1}{4}$ 30-114-51 = 15 acresSOIL RESTRICTIONS:THE SOIL(S) LISTED BELOW CANNOT BE IRRIGATED:THE SOILS(S) LISTED BELOW CAN BE IRRIGATED
WITH THE FOLLOWING RESTRICTIONS:

The soils of Flom clay loam are subject to seasonal water tables under irrigation, these water tables may remain perched. By raising of this water table you may experience crop reduction due to excess wetness, and the loss of the salt leaching, as well as the uppermovement of salts found naturally in these soils. The upward movement as well as those salts introduced through irrigation will concentrate just above the water table. In these areas adequate internal drainage system may be required ie tile drainage.

The areas immediately adjacent to the Big Sioux River shall remain in grass and/or alfalfa to prevent bank erosion.

RECOMMENDED MANAGEMENT:

Your water management plan will be very important as part of it we recommend a monitoring plan for the depth of the water and soil monitoring of the leaching of salts.

We also recommend that conservation practices be used to prevent erosion and conserve moisture. Its recommended that if the center pivot is immediately adjacent to the river that an automatic shut-off on the end gun be used.

Darrel M. Jongeling
SIGNATURE7-12-84
DATE

April 1984

Permit Application for Darrell Tongeling

It appears that Conservation does not review S/W compatibility permit applications Because:

- The maximum acreage in $\frac{1}{2}$ of a normal quarter section is 80 acres not 85 acres
- The maximum acreage in $1\frac{1}{2}$ quarter section ($SW^4 30 + W^2 SE^4 30$) is 240 acres not 320 acres

In the letter written by Stuekel he makes reference to 320 acres and the form signed by Jack Fifield also says 320 acres. In comparing the water permit application with the S/W permit it appears that the applicant included all the land in the SE^4 in the 85 acres because:

water permit says			S/W	
$NW^4 SE^4$ sec 30	32 ac.		$W^2 SE^4$	85 ac.
$NE^4 SE^4$ "	5 ac.			
$SW^4 SE^4$ "	36 ac.			
$SE^4 SE^4$ "	<u>10 ac.</u>			
	83 ac.			<u>85 ac.</u>

I don't know if this problem can be solved but it puts us in an awkward position when Conservation does not review their forms as closely as we do. In this case we did not receive the fee in time for advertising for the April meeting.

KCF



Department of Agriculture

DIVISION OF CONSERVATION

Anderson Building, Room 322 ● Pierre, South Dakota 57501
Phone 605/773-3258

June 29, 1984

Darrel Jongeling
Castlewood, SD 57225

Dear Mr. Jongeling:

In reviewing your soil and water compatibility application for the NW $\frac{1}{4}$ SE $\frac{1}{4}$ 30; SE $\frac{1}{4}$ SE $\frac{1}{4}$ 30-114-51 = 15 acres, the irrigation staff is recommending a Conditional Approval of your application to the State Conservation Commission at their July 12, 1984 meeting. The Conditional recommendation is based on Flom clay loam which have a high clay content and are subject to a seasonal water table.

The Restrictions and Management Recommendations are as follows:

RESTRICTIONS:

The soils of Flom clay loam are subject to seasonal water tables under irrigation, these water tables may remain perched. By raising of this water table you may experience crop reduction due to excess wetness, and the loss of the salt leaching, as well as the uppermovement of salts found naturally in these soils. The upward movement as well as those salts introduced through irrigation will concentrate just above the water table. In these areas adequate internal drainage system may be required i.e. tile drainage.

The areas immediately adjacent to the Big Sioux River shall remain in grass and/or alfalfa to prevent bank erosion.

MANAGEMENT RECOMMENDATIONS:

Your water management plan will be very important as part of it we recommend a monitoring plan for the depth of the water and soil monitoring for the leaching of salts.

We also recommend that conservation practices be used to prevent erosion and conserve moisture. Its recommended that if the center pivot is immediately adjacent to the river that an automatic shut-off on the end gun be used.

If you have any questions concerning your application please feel free to contact this office.

Sincerely,

Jim Stukel
Irrigation Program Administrator

WP or WR No. 5025-3

Instruction to Newspaper - Publish first publication of the following Notice on or before **August 16, 1984** with 2nd publication 1 week later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5025-3 to Appropriate Water
~~and/or to Amend Water Permit or Water Rights No. _____~~

Notice is hereby given that Darrel Jongeling whose mailing address is
Castlewood, South Dakota has made an application for a permit

to appropriate 3.20 cubic feet per second of water from one well 53 feet deep. The point of diversion will be located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ Section 30, T114N-R51W. The water will be used to irrigate 231 acres in the S $\frac{1}{2}$ Section 30, T114N-R51W

Pursuant to SDCL 46-2A-2 the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5025-3 because 1) unappropriated water is available, 2) will be no unlawful impairment of existing rights, 3) is beneficial use of water and 4) is in the public interest.

This application will be considered by the Water Management Board at the Civil Defense Room, Capitol Building, Pierre, South Dakota, September 26 19 84 at 10:00 am.

The recommendation of the Chief Engineer is not final or binding upon the Board and the Board is authorized to make a determination on this application after it reaches a conclusion based upon facts presented at the public hearing. Any interested person who may be affected by a Board decision and who intends to participate in the hearing before the Board and present evidence or cross-examine witnesses according to SDCL 1-26, must file a written petition with BOTH the Applicant and the Chief Engineer by September 14, 1984. The petition may be informal, but it must include a statement describing the petitioner's interest in the application, the reason for the petitioner's opposition to or support of the application, and the signature and mailing address of the petitioner or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15; 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12; (ground) 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; (future use) 46-5-38 thru 46-5-40; (transfer lands) 46-5-30.4, 46-5-33 thru 46-5-35, (10,000 AFA) 46-5-20.1, 46-5-8.1; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15; (future use) 74:02:01:24 thru 74:02:01:25; (10,000 AFA) 74:02:01:15:02 thru 74:02:01:15:05.

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWNR, Joe Foss Bldg, Pierre SD (605 773-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by September 14, 1984.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Hamlin) ss.

I, Jack Dorman hereby
certify that the annexed printed copy of Notice of Intent to Appropriate
Water was taken from the Hamlin County Republican

A newspaper which during the whole time of publication of said notice
herein after stated, has been and is printed and published in the _____

City of Castlewood

County of Hamlin and State of South Dakota;
that the said notice was published in said newspaper on the following
two dates:

Aug 16, 1984
Aug 23, 1984

(Signature)

Publisher
(Title)

Aug 23, 1984
(Date Signed)

Cost of Printing: \$ 42.14

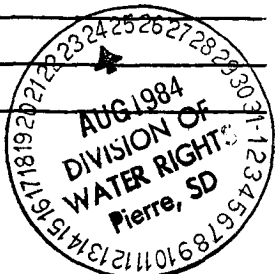
NOTICE OF HEARING ON
APPLICATION NO. 5025-3 TO
APPROPRIATE WATER

Notice is hereby given that Dar-
rel Jongeling whose mailing ad-
dress is Castlewood, South Dako-
ta has made an application for a
permit to appropriate 3.20 cubic
feet per second of water from one
well 53 feet deep. The point of
diversion will be located in the
NE 1/4 SW 1/4 Section 30, T114N-
R51W. The water will be used to
irrigate 231 acres in the S 1/2
Section 30, T114N-R51W.

Pursuant to SDCL 46-2A-2 the
Chief Engineer of the Water Rights
Division recommends APPROVAL
of Application No. 5025-3 be-
cause 1) unappropriated water is
available, 2) will be no unlawful
impairment of existing rights,
3) is beneficial use of water and
4) is in the public interest.

This application will be consid-
ered by the Water Management
Board at the Civil Defense Room,
Capitol Building, Pierre, South
Dakota, September 26, 1984 at
10:00 a.m.

The recommendation of the Chief
Engineer is not final or binding
upon the Board and the Board is
authorized to make a determina-
tion on this application after it
reaches a conclusion based upon
facts presented at the public hear-
ing. Any interested person who
may be affected by a Board deci-
sion and who intends to partici-
pate in the hearing before the
Board and present evidence or
cross-examine witnesses according
to SDCL 1-26, must file a written
petition with BOTH the Applicant
and the Chief Engineer by Septem-
ber 14, 1984. The petition may
be informal, but it must include a
statement describing the petition-
ers interest in the application,
the reason for the petitioner's op-
position to or support of the appli-
cation, and the signature and
mailing address of the petitioner



or his legal counsel if legal counsel is obtained. The applicant need not file a petition.

This application is made pursuant to the provisions of SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-15, 46-2-3.1, 46-2-9, 46-2-11, 46-2-13, 46-2-17, 46-5-1 thru 46-5-16, 46-5-24, 46-5-25, 46-5-30.2, 46-5-31; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-6-3, 46-6-3.1, 46-6-6.1, 46-6-10, 46-6-13, 46-6-14; and Board Rules ARSD 74:02:01:01 thru 74:02:01:15

This hearing is an adversary proceeding. The applicant or any person, after filing a petition, has the right to be present or to be represented by a lawyer. These and other due process rights will be forfeited if they are not exercised. Decisions of the Board may be appealed to the Circuit Court and the State Supreme Court as provided by law.

Any person wishing a copy of the Chief Engineer's recommendation, further information on this application or to assure access to the hearing by the handicapped can contact the Water Rights Division, DWR, Joe Foss Bldg., Pierre, SD (605 772-3352) for assistance prior to the hearing date. The time of the hearing will be automatically extended for at least twenty days upon written request of the applicant or any person who has filed a petition to oppose or support the application. The request for extension must be filed with the Chief Engineer by September 14, 1984.
(aug. 16, 23)



Department of Water & Natural Resources

Joe Foss Building
523 East Capitol
Pierre, South Dakota 57501

Water Rights Division
605 773-3352

October 23, 1984

Darrel Jongeling
Castlewood SD 57223

Dear Mr. Jongeling:

Enclosed herewith is your Water Permit No. 5025-3 as approved by the Water Management Board authorizing you to construct your water diversion system and the water to beneficial use, not exceeding the limits as specified in said Water Permit No. 5025-3.

Also enclosed is Form 10, Notice of Completion of Works and Application of Water to Beneficial Use, which you are to complete and submit to the Chief Engineer when you have completed the system and/or have put the water to beneficial use. An inspection can then be scheduled so that your Water License may be issued to you, thus completing your acquisition of a Water Right.

Very truly yours,

A handwritten signature in black ink that reads "John Hatch". The signature is written in a cursive, flowing style.

JOHN HATCH, Chief Engineer
Water Rights Division

JH:ks

enclosure

PLEASE NOTE: Certain changes can be made in your permit within the five year construction period, usually without affecting the priority date provided an application to amend your permit is made within the five year period-i.e. changes in location or number of diversion points (wells) or location of land to be irrigated. Well locations for wells into the same aquifer can be moved up to 660 feet without application.

Applications to amend a permit after the five year construction period will be assigned a new priority date. Applications to change water sources, to add lands or increase original diversion rates, if approved will usually receive the date of the new application as a priority date regardless of the five year construction period.

WNR-809-5/83

LICENSE FOR PERMIT NUMBER 5025-3

1. Legal location of wells: NW 1/4 SE 1/4 Section 30 - T114N-R51W

dams & structures: 8

2. Well Information: Well Drilling Firm Kaiser

Completion Report Yes No No. of Wells 1 Depth 41

Casing a) diameter 14 Screen a) type Stainless Steel
b) length 26 b) length 15

c) type Steel Static Water Level

Pump a) make Fairbanks Morse Motor a) make High Thrust U.S. Electric

b) model H16 FL 7100 B DF b) model No. 324TPH WPI

c) size 11M c) horsepower rating 40

d) capacity 700 gpm

e) turbine pump - no. of stages 3

f) operating PSI

SN = G1901819

3. Distribution lines or canals

a) size 6" 6"

b) type Alum Alum

c) length 180' 1320'

↑ to second pivot point

4. Dam Information:

a) height to crest m) Outlet tubes:

b) height to primary spillway 1) diameter

c) height to secondary spillway 2) type

d) crest width 3) valved (Y/N)

e) crest length 4) valve type

f) spillway length 5) location on structure

g) spillway width

h) approx. storage n) Category of Dam

i) approx. storage to crest

j) date constructed

k) inspection sheet completed (Y/N)

l) Name of Contractor

5. System Type a) sideroll:

- 1) length _____ feet
- 2) diameter of pipe _____
- 3) make, model & number of
sprinklers _____
- 4) spacing of sprinklers _____
- 5) nozzle size _____

c) gun

- 1) make _____
- 2) nozzle size _____
- 3) capacity (GPM) _____
- 4) hose size _____
- 5) hose length _____

e) gated pipe

- 1) length _____
- 2) diameter _____
- 3) spacing of gates _____

f) portable boom

- 1) make _____
- 2) nozzle size _____
- 3) capacity (GPM) _____

b) towline:

- 1) length _____ feet
- 2) make, model & number of
sprinklers _____
- 3) spacing of sprinklers _____
- 4) nozzle size _____

d) center pivot

- 1) make Valley 6000 - towable
- 2) number of towers 6
- 3) distance between towers _____
- 4) overall length 1197'
- 5) end gun (Y/N) Y
- 6) high or low pressure low
- 7) make & size of nozzles _____

- 8) capacity (GPM) 700

g) siphons

- 1) size _____
- 2) number _____

NOTE: For Permits with additional wells or changes in well locations, record the following for each well: pumping capacity, date constructed, well driller and if a well log is available.

Indicate any other permit(s) which are associated with project _____

Yes	No	Check Items
☒	☐	1. Soil and water permit lands agree with lands being irrigated and lands listed on permit?
☒	☐	2. Special qualifications to permit being abided by?
☒	☐	3. All structures, wells and lands on map?
☒	☐	4. Irrigation Questionnaires checked to determine if permit owner started irrigation by end of construction period?
☐	☒	5. Is chemigation used?
☐	☐	6. If yes, does equipment comply with chemigation rules?

REMARKS:

Big Sioux River Water District

Report Of Examination Of Works And/Or Application Of Water To Beneficial Use

TO: Chief Engineer, Division of Water Rights, ^E~~D~~WR, Foss Bldg., Pierre, SD 57501

I have this day made a thorough examination of the water use system constructed by Darrel Tongeling
Castlew Rt 2 Box 82 of Castlewood SD 57223 holder of
Permit No. 5025-3, bearing the priority of July 13 1984 authorizing
the diversion of 3.2 cu. ft. per second of the waters of groundwater
for irrigation purposes, in Hamlin County.

I have to report on the conditions of the same as follows:

A. Works used to divert the water:

1 40HP-11M Fairbanks Morse pump Model # H16FL7100 BDF
capable of 700 gpm and powered by a High Thrust U.S. Electric
Motor Model # 324TPH WPI

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

6" Aluminum 180' to ~~the~~ east pivot point
" " 1320' to west pivot point

C. Works used to apply water to beneficial use:

Valley 6000 center pivot with 6 towers and a length of 1100' with an end gun at low pressure. Capable of 700 gpm

The system is in the following condition good

The point of diversion is located 1580' North and 2700' West of the SE
corner Section 30-T14N-R51W

The works are capable of diverting and conveying to the place of use 1.5

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 30-T114N-R51W

NW¹/₄ SW¹/₄ - 27 Acres NW¹/₄ SE¹/₄ - 32 Acres

NE 1/4 SW 1/4 - 10 Acres SW 1/4 SE 1/4 - 27 Acres

SW $\frac{1}{4}$ SW $\frac{1}{4}$ - 25 Acres

SE 1/4 SW 1/4 - 28 Acres

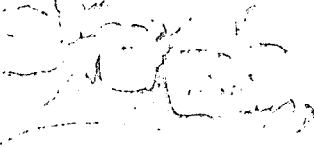
comprising a total of ~~100~~ 149 acres of land and the license should be issued for 1.5 cfs

Applicable permit qualifications have been complied with X Yes No

Exceptions to compliance are: _____ Date 6/18/1991

Norma C. Tob
(signature)

South Dakota



GREAT FACES. GREAT PLACES.

**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

December 19, 1991

5025-3

Darrel Jongeling
Rt 2, Box 82
Castlewood SD 57223

Dear Mr. Jongeling:

The inspection of your water use system and the inspection of the extent of application of water to beneficial use, as developed under Water Permit No. 5025-3, has been completed. Your final water right document, the Water License, can now be issued.

Statutes require that we charge a \$50.00 fee for the inspection and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

South Dakota Water Law 46-5-30.1 requires that a permit holder may not divert water until the \$50.00 license fee has been paid. Please contact us if you have any questions.

Sincerely,

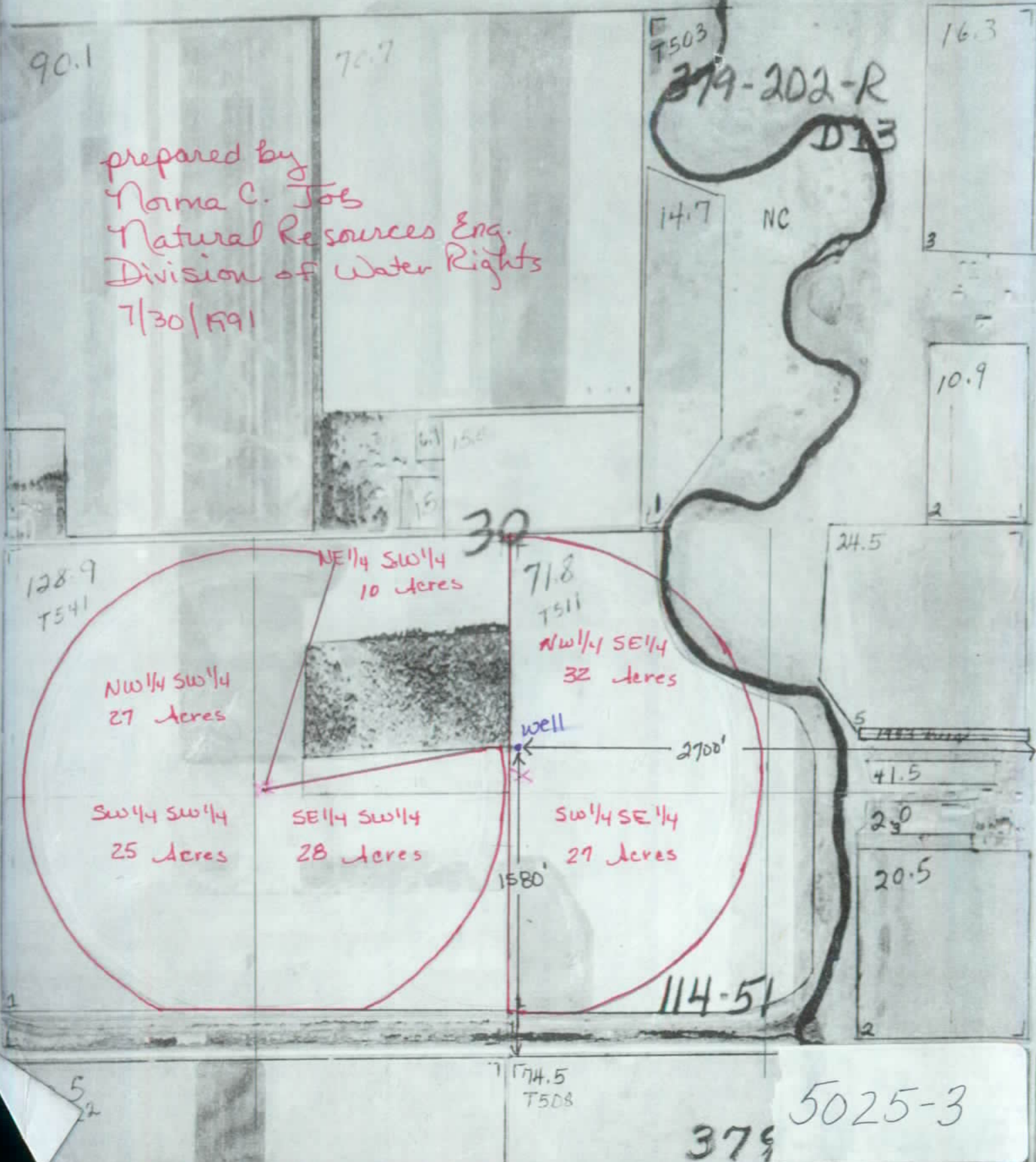
Genny McMath

Genny McMath
Natural Resources Analyst
(605) 773-3352

NOTE: On check or money order, please specify your permit number. This will insure proper handling of the fee.

NOT TO SCALE

prepared by
Norma C. Job
Natural Resources Eng.
Division of Water Rights
7/30/1991



RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

412984

Pierre, December 30, 1991

RECEIVED OF Darrel Jongeling, Rt 2, Box 82, Castlewood, SD 57223

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

Fee for Application for Permit No. _____ to Appropriate Water, to construct works and to put water to beneficial use _____		
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>5025-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for Certified Copy of _____		
Fee for Print Copy of Map _____		
Fee for Certifying _____		
Fee for _____		
(Any Other Work Provided by Law)	Total	50 00

By John Hatch
Chief Engineer

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 5025-3

(1) Darrel Jongeling of RR 2, Box 82, Castlewood, SD 57223 made Application No. 5025-3, March 2, 1984 for a water permit to appropriate 3.20 cubic feet of water per second from groundwater (one well), Hamlin County, South Dakota for irrigation purposes. Permit No. 5025-3 with a priority date of July 13, 1984 was approved September 26, 1984 and issued to applicant(s) for diversion of water with construction of the described water supply system to be completed on or before September 26, 1989 and for the application to beneficial use of said water on or before September 26, 1993.

(2) It is certified that the applicant 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 1.50 cubic feet of water per second for beneficial use. The location of the diversion point is: 1580'N and 2700'W of the SE corner Section 30, T114N, R51W (NW 1/4 SE 1/4).

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

T114N, R51W Section 30	NW 1/4 SW 1/4	27 Acres
	NE 1/4 SW 1/4	10 Acres
	SW 1/4 SW 1/4	25 Acres
	SE 1/4 SW 1/4	28 Acres
	NW 1/4 SE 1/4	32 Acres
	SW 1/4 SE 1/4	27 Acres
	Total-----	149 Acres

(4) Pursuant to Section 46-5-30.1 Darrel Jongeling of RR 2, Box 82, Castlewood, SD 57223 the holder(s) and/or owner(s) of Water Permit No. 5025-3 is issued a license to appropriate water, the right to use 1.50 cubic feet of water per second from groundwater (one well) with a priority date of July 13, 1984 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 any limitations or qualifications listed in Water Permit No. 5025-3 and subject to South Dakota State Law.


FEB 27 1992
JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and
Natural Resources



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 EAST CAPITOL
PIERRE SOUTH DAKOTA 57501-3181

FEB 27 1992

5025-3

Darrel Jongeling
RR 2, Box 82
Castlewood, SD 57223

Dear Mr. Jongeling:

Enclosed is Water License No. 5025-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 412984 in the amount of \$50.00 which you paid for the inspection and issuance of the Water License.

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. 5025-3, 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.

Very truly yours,

JOHN HATCH, Chief Engineer
Water Rights Division
(605) 773-3352

enclosures

70.7

Darrel J. Angeling
Irrigation Project #T
Castlewood S.D.
Hamlin County
Acres Irrigated 230
Water claim 13.2 cfs

379-202-R

14.7

10.9

30

71



well

2650'
N 58° E

Corn

2.0

20.5

14-51

33.0

Certified Correct
John L. Williams

5025-3

70.7

Darrel Dangeling
Irrigation Project #T
Castlewood S.D.
Hamlin County
Acres Irrigated 230
Water Claim 13.2 cfs

163
379-202-R

14.7

10.9

30

23.9

CORN

2.0

20.5

114-51

33.0

2650'
N 58° E

well

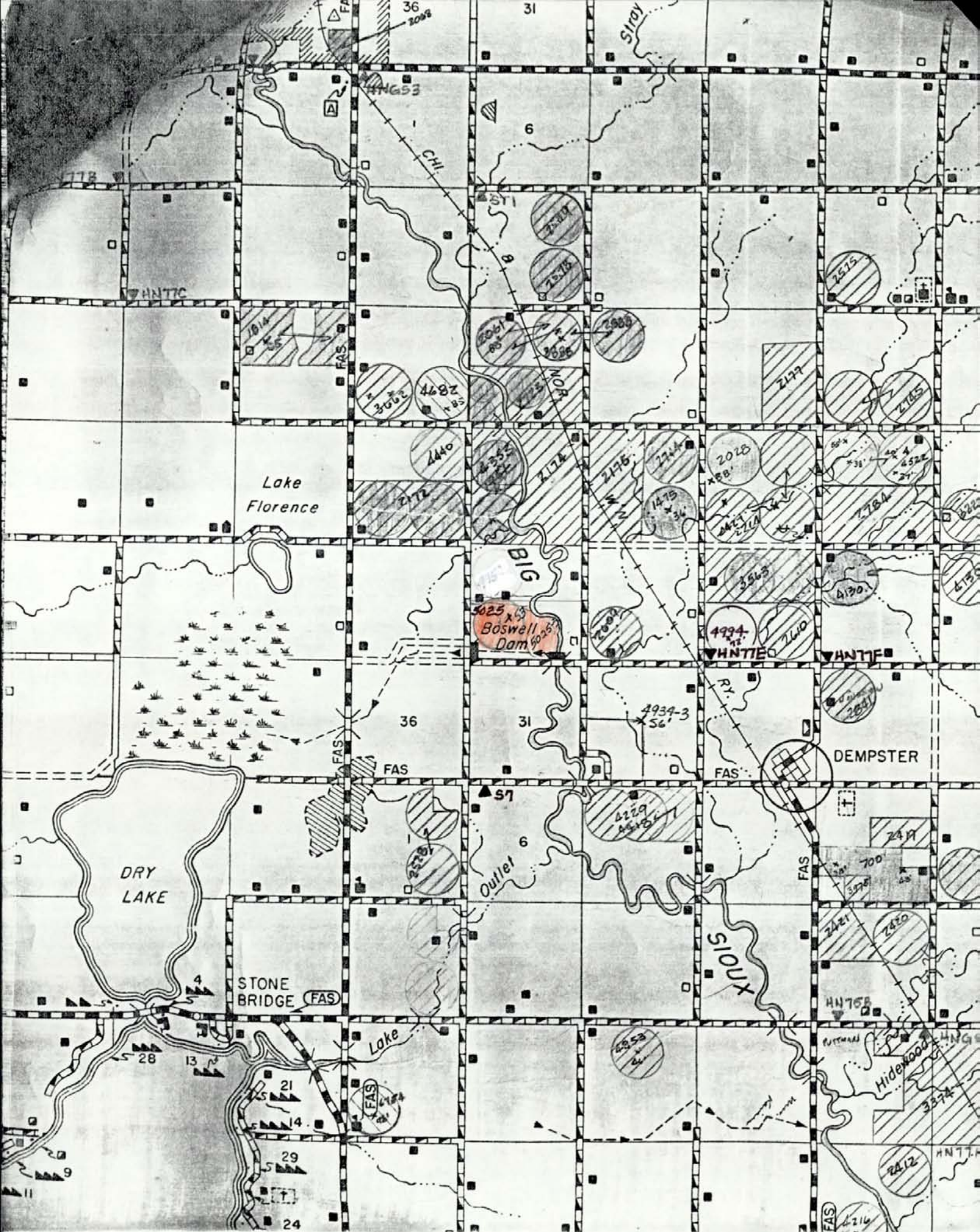
7.1.5

Certified Correct
John L. Williams

A/M

2015-3

72.5



5025-3

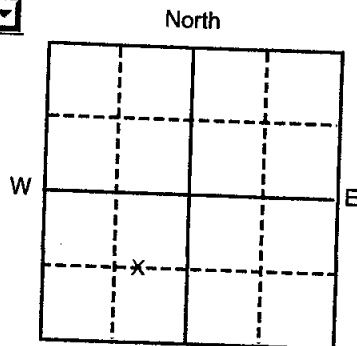
SD EForm - 1621LD V1

SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location 1/4 SW 1/4 Sec 30 Twp 114(N) Rg 51(W)County HAMLIN

Please mark well location with an "X"



Well Completion Date

9-25-17

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
1800 ft. from BIG SIOUX RIVER (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

DIRECT ROTARY

CASING DATA:

If other describe ☒ Steel ☒ Plastic ☐ Other

PIPEWEIGHT	DIAMETER	FROM	TO	HOLE DIAMETER
SCH LB/FT	16 IN	0 FT	29 FT	24 IN
LB/FT	IN	FT	FT	IN
LB/FT	IN	FT	FT	IN

GROUTING DATA:

Grout Type	No. of Sacks	Grout Weight	From	To
GRTWELDF	41	54 Lb/gal	0 Ft	26 Ft
		Lb/gal	Ft	Ft

Describe grouting procedure

PRESSURE PULL METHOD

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 16 Inches Length 12 Feet
Material STAINLESS STEELSlot Size .060 Set From 29 Feet to 41 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?

Lab to which water quality sample sent for analysis

Well Owner: DARREL JONGELING

Business Name:

Address: 18877 461ST AVECity, State, Zip: CASTLEWOOD ☒ SD ☒ 57223

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
TOP SOIL	0	1.5
YELLOW GRAVEL MIXED	1.5	14
YELLOW CLAY SOFT	14	16
GREY MED TO FINE	16	41

STATIC WATER LEVEL

8 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: AIRLIFT☐ Bailed☐ Other

Pumping Level Below Land Surface

Ft. After 10 Hrs. pumped 500 GPMFt. After Hrs. pumped GPMIf pump installed, pump rate: pump from old well GPM

REMARKS

Big Sioux: Brookings AMThis well was drilled under license # 689 and this report is true and accurate.Drilling firm: KAISER WELL DRILLING INC

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

RECEIVED

FEB 01 2018

WATER RIGHTS PROGRAM

Date:



**DEPARTMENT of AGRICULTURE
and NATURAL RESOURCES**

JOE FOSS BUILDING
523 E. CAPITOL AVE
PIERRE SD 57501-3182
danr.sd.gov

November 1, 2021

5025-3

Darrel M Jongeling
220 Trail Ridge Rd
Brookings SD 57006 3627

Dear Mr. Jongeling:

Enclosed is a "Notice" dated October 22, 2021 concerning the 2021 irrigation questionnaire.

The notice was originally mailed to 18877 461st Ave., Castlewood SD. 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,

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

enclosures