

Considered: _____

WATER PERMIT NO. 5394-3

HAP No. same 873-2736

Name of Applicant Wayne Janssen

Post Office Address RR 2, Box 76, Castlewood SD 57223

Amount of Water Claimed 2.28 Total Acres 160

Source of Water Supply 3 wells

Water to be used for irrigation County Hamlin

About 2 miles N of Dempster.

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY Date Received Dec 4, 1989 Fee \$250⁰⁰ Remarks _____

Corrected Application Received 1/2/90 Period of Annual Use Apr 1 - Oct 31

WATER QUALITY APPROVAL RECEIVED not needed see 2264-3 APPROVED/CONDITIONAL (Circle one)

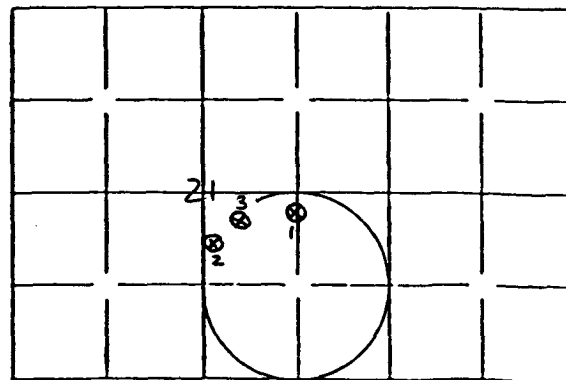
WI-1 Description same as Application YES NO REMARKS _____

Diversion Point 3 wells: NW 1/4 SE 1/4

section 21-T114N-R51W

Land to be Irrigated SE 1/4 section 21-T114N-

R51W



Well Log: Driller Lacey? Licensed YES NO

Depth of Wells 80', 39', 41' REMARKS _____

Type of Map aerial photo PREPARED BY Bonnie Lund Reviewed and the Number

assigned on March 13, 1990 By R. D. Small

(See instructions)

No. 5394-3 Hydrologic Unit 10170202
Basin Big Sioux River
Newspaper Estelline Journal, Box 159, 57234
(Name)

Application For Soil/Water Compatibility Permit and Permit To Appropriate Water

Type of Application:

- ☒ New ☐ Vested Right ☐ Amend Permit No. 44273
☐ Change Acreage ☐ Change diversion point(s) ☐ Add diversion point(s)
☐ Add Acreage ☐ Increase diversion rate ☐ Other _____



Name of Applicant

Wayne Janssen

Phone No.

605-873-2736

Post Office Address

RR 2, Box 716
(Street, RR or Box)

Castlewood
(City)

State

SD

57223
Zip Code

2. Amount of water claimed (c.f.s.) 2.28 Total acres irrigated 160
3. Source of Water supply 2 Wells
4. Location of point of diversion North 1/2 of SE 1/4 - T114-N R 51W sec 21

County

Hamlin

5. Counties where water will be used Hamlin
6. Annual period during which water is to be used April - October 31
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.
SE 1/4 T114-N R51W - NE 1/4	40
SE 1/4 T114-N R51W - NW 1/4	40
SE 1/4 T114-N R51W - SE 1/4	40
SE 1/4 T114-N R51W - SW 1/4	40

Land Description	No. Acres Irr.

Attach sheet if more space is needed

8. Type of Irrigation: Gravity: _____ Towline: _____ Center Pivot: X Gun: _____ Other: _____ (Specify) _____
9. Crops to be Irrigated: _____
10. Give a description of proposed project. (Attach sheet if more space is needed)

Change existing Permit to Newowners Name
and Remove 2 quarters from Permit.
Center Pivot using 1 or more of Available Wells



Attachments: Attach Form 2A if diversion from a well or dugout, or if storage of water, is proposed. Attach maps, soils information and any other technical information.

STATE OF SOUTH DAKOTA)
County of Hamlin)^{ss}

I, Wayne Janssen, the applicant, certify that I have read this application and examined the attached maps, that the water sample, if needed, has been taken by the required procedures and has not been adulterated or tampered with and is truly representative of the water to be used, and that the matters stated in this application are true and correct.

Signed

Wayne Janssen

Subscribed and sworn to before me this

2nd day of

December

19

89

Notary Public

SOUTH DAKOTA
WATER PERMIT No. 5394-3 FOR IRRIGATION

Date of first receipt of application December 4, 1989.

Date Soil/Water Compatibility Permit received June 26, 1975. (See Permit No. 2264-3)

Date of return to applicant for corrections, amendments or changes December 20, 1989.

Date of receipt of corrected application January 2, 1990.

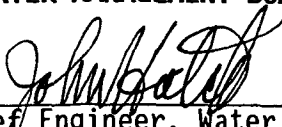
The Water Management Board approved Water Permit Application No. 5394-3 on May 24, 1990 for Wayne Janssen, RR#2, Box 76, Castlewood, SD 57223 authorizing the construction of the water use system and the placing of water to beneficial use subject to the following limitations, conditions and qualifications:

1. Water Permit No. 5394-3 appropriates 2.28 cubic feet of water per second from 3 existing wells (Big Sioux Brookings Aquifer) 39 feet, 41 feet and 80 feet deep to irrigate 160 acres. The 3 wells are located in the NW1/4 SE1/4 and the irrigated acreage is to be located in the SE1/4; all in Section 21 T114N-R51W.
2. The amount of the appropriation may not exceed 2 acre feet annually for each acre of land to which water is actually and beneficially applied for irrigation. The water is to be used during the following described annual period: April 1 - October 31.
3. The date from which applicant may claim right is December 4, 1989.
4. One-fifth of the construction is to be completed on or before November 24, 1992.
5. All construction is to be completed on or before May 24, 1995.
6. Water is to be put to beneficial use on or before May 24, 1999.
7. 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. This permit is approved subject to the irrigation water use questionnaire being submitted each year.

WATER MANAGEMENT BOARD

By: 

Chief Engineer, Water Rights Division
Department of Water and Natural Resources

JUL 10 1990

(date)

Supplemental Information

3 Wells Have Been (type or print in ink) Inspected They have Not Been Changed

1. Well Information - Proposed construction

- a) Drill Hole Diameter _____ Depth _____
- b) Casing Type _____ Diameter _____ Thickness _____
- c) Screen Type _____ Diameter _____ Thickness _____
- d) Gravel Pack Thickness _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material _____
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well: _____
- On applicants property _____ On property owned by others 3500' SE

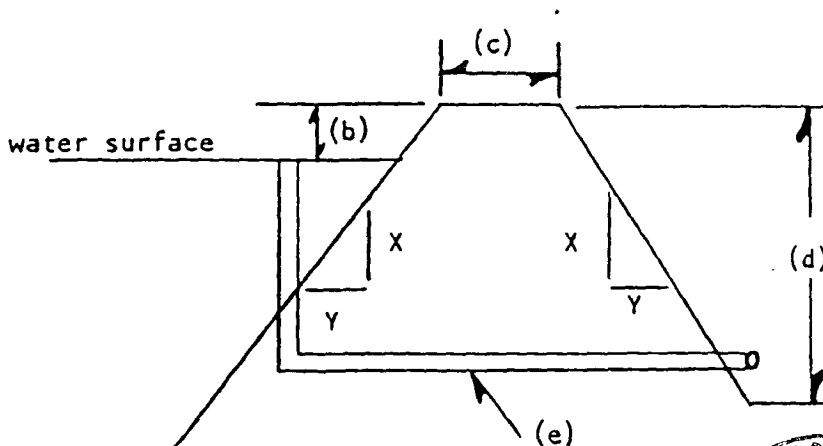
2. Dugout Information Estimates

- 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) Primary Outlet Capacity _____
If Pipe, diameter _____
- f) Secondary Spillway Capacity _____
Spillway width _____
- g) X & Y Slope
Upstream _____
Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____

Signature of Applicant





Department of Water & Natural Resources

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

December 20, 1989

Wayne Janssen
RR 2, Box 76
Castlewood SD 57223

Dear Mr. Janssen:

This letter is in response to your water permit application received on December 4, 1989. The following information is needed to complete the application:

- 1) The amount of water claimed on the enclosed application (No. 2) is 125 for irrigation of 160 acres. The units (gpm or cfs) assigned to 125 is not clear. The maximum diversion rate that may be appropriated to irrigate 160 acres is 2.28 cfs (1,020 gallons per minute). Please clarify the proposed pumping rate from the 3 wells.
- 2) The location of the 3 wells (green dots) shown on the aerial photo signed by Bonnie Lund, ASCS, does not match the location described on the enclosed Examination of Works sheet dated August 11, 1981. The aerial photo attached to the Examination of Works has the location of the wells plotted on the photo as described on the Examination of Works. By comparing the aerial photos, the well locations do not match. Please indicate the correct well locations and return both aerial photos.
- 3) The enclosed Form 2A needs to have item 1g completed. The remaining well information does not need to be completed if the well information on the Examination of Works sheet is correct.
- 4) The acreage in the SE1/4, SW1/4 and NE1/4 section 21-T114N-R51W is also specified on Water Permit Nos. 2264-3 and 4427-3. On November 20, 1989, you indicated that this acreage has not been irrigated for a number of years. Therefore, Permit Nos. 2264-3 and 4427-3 are to be scheduled for cancellation. I believe you now own the SE1/4 and Poinsett Colony owns the SW1/4 and NE1/4. Please advise if you have any additional information regarding the ownership of the above acreages. The Notice of Cancellation needs to be sent to the current land owners.

December 20, 1989

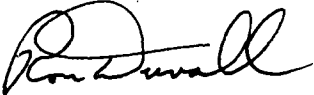
Wayne Janssen

Page 2

A copy of your application will be sent to the Department of Agriculture when the application is complete. The Water Management Board can not consider the water permit application until the soil/water compatibility application is approved by the Department of Agriculture. Please complete and return the above information to complete the application.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Ron Duvall". The signature is stylized with a large, looped "R" and a cursive "Duvall".

Ron Duvall
Natural Resources Engineer
605 773-3352

enc.

Ron,

This is the Permit charge
We talked about on the phone.
The Map is the latest one from
Haskell County - I have also
Talked to Jim about the Land
Permit .

Thanks

Tom Pierce
FII



RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

411985

Pierre, December 5, 19 89

RECEIVED OF Wayne Janssen RR #2 Box 76 Castlewood, SD 57223

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

Fee for Application for Permit No. <u>5394-3</u> to Appropriate Water, to construct works and to put water to beneficial use _____	250	00
Fee for Application for Permit No. _____ to Appropriate Water for Future Use _____		
Fee to retain Future Use Permit No. _____ after period of seven years.		
Fee for Inspecting Constructed Works, confirming beneficial use and issuing Water License No. _____		
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	250 00

By

Chief Engineer

John Hatch

Irrigation System: _____

Water Quality: _____

Soils Capability: _____

Approved: [Signature]

Disapproved: _____

STATE CONSERVATION COMMISSION

SUPPORTING INFORMATION

FOR APPROPRIATION OF GROUND WATER IN ACCORDANCE
WITH SDCL 46-6-3 AS AMENDED

(This Form Required for Proposed Well Irrigation Only)

NAME: Kenneth Kruthoff
ADDRESS: RR Castlewood S.D. 57223
COUNTY: Hamlin

LEGAL DESCRIPTION

1. WELL LOCATION: SF 1/4, Sec. 21, T114N, R. 51W
2. AREA TO BE IRRIGATED: S 1/2 Sec 21 and NE 1/4 of 21, all in T114N R51W

TYPE OF IRRIGATION

3. GRAVITY SPRINKLER (Indicate Type): Center pivot
4. CROPS TO BE IRRIGATED: c. f. / f. , corn

LAND CAPABILITY FOR IRRIGATION

5. PERCENTAGE OF SLOPE: 0-1% - 185Ac. 1-3% - 195Ac. 3-6% - 50Ac.
6. PHYSICAL SOILS CLASSIFICATION FOR IRRIGATION: 3 ac Fordville - 1" / hr intake
185Ac LaBelle - 0.5" / hr intake; 212Ac Krasov, Burg - 0.3" / hr intake
Based on conservation soil survey & adjacent intensive on the other quarter section
in this same section. 6-14-75 J. H. H. worth, etc. 565, Hayti.

WATER QUALITY (TO BE COMPLETED BY COMMISSION)

7. SAMPLE NO.: 75-470
8. SALINITY: EC = 743 micromols/cm (medium)
9. SODIUM: SAR = 0.34 (low)

I do hereby certify that a chemical analysis of the ground water to be acquired for irrigation from South Dakota State University and:

the land capability for irrigation information has been acquired from

S.C.S. office Hamlin Co. Nebr. S.D., L.D. Holzworth

and:

that the legal description for the location of the well and land to be irrigated is true and correct.

Kenneth Knuthoff

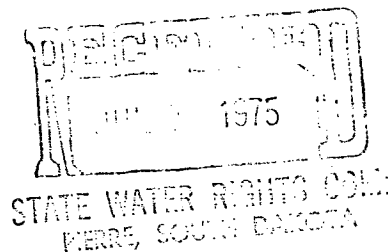
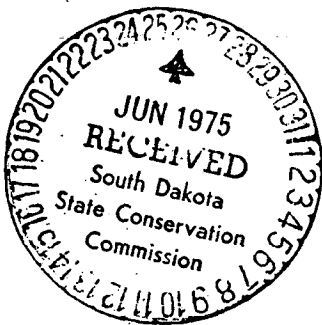
Subscribed and sworn before me this

19 day of June 1975.

Merlaine Eisnach

MERLAINE EISNACH
Notary Public, Hamlin County, S. D.
My Commission Expires June 18, 1983

(Title)



NOTICE OF WELL CONSTRUCTION

(1) WELL CONSTRUCTION

Location of well: N 1/4 1/4 NW 1/4 SE 4 Section 31 Township 114 N Range 51 W
Well owner Ken Korthoff (Name) Deerport, Ia (Address)
Date well drilling completed 5-10-76 Purpose of well Irrigation
(domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer	Depth to top of water producing aquifer _____ ft.
0-2	Black loess	15'
2-6	Black + yellow clay	12'
6-15	yellow clay	
15-20	silt	
20-30	coarse sand gravel	
30-31	silt streak	
31-36	coarse sand + rocks	
36"	blue clay	
Casing information: In the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used. 2 8" x 14" x 14" steel casing		
Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations. 10" x 14" x 100 Johnson Irrigate.		
If a flowing well, flow of completed well _____ G.P.M.		

Attach sheet if more space is needed

Attach sheet if more space is needed

If a flowing well, flow of completed well _____ G.P.M.

Ed H. Lacey & Sons
Name of Drilling Contractor

(2) PUMP INSTALLATION

Company name and size of pump Valley Dental Co. HP. 40
Type of pump vertical Capacity of installed pump 400 G.P.M.
Depth of pump placement 3' ft., Date of pump installation 6-14-76

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube; when installed _____ ft., tube diameter _____, tube material _____

Name of Pump Installation Contractor _____

NOTICE OF WELL CONSTRUCTION

(1) WELL CONSTRUCTION

Location of well: N. 1/4 NW 1/4 SE 4 Section 21 Township 114N Range 51W
 Well owner KEN HRODOFF (Name) Dempsey (Address)
 Date well drilling completed 2-28-75 Purpose of well Irrigation (domestic, irrigation, municipal, industrial, other)

WELL LOG

Layers, top to top in feet	Description of layer	Depth to top of water producing aquifer	ft.
<u>0-3</u>	<u>black dirt</u>	<u>10'</u>	ft.
<u>3-7</u>	<u>clean sand</u>	<u>10'</u>	ft.
<u>7-12</u>	<u>yellow clay</u>	Name of producing aquifer (if known)	
<u>12-21</u>	<u>fine sand</u>	Total depth of drill hole	<u>39'6"</u> ft.
<u>21-28</u>	<u>coarse gravel</u>	Depth to bottom of casing	
<u>28-39'10"</u>	<u>coarse rock</u>	Casing information: In the space below show kind, size, weight, lengths per diameter, etc., for production casing and surface casing, if used.	
<u>39'6"</u>	<u>black clay</u>	<u>30' x 14" x 1/4" steel casing</u>	
		Screen information: In the space below show length of screen below bottom of casing, diameter and kind of screen or casing perforations.	
		<u>10' x 14" x 1/8" Johnson Irrigation Screen</u>	
		If a flowing well, flow of completed well _____ G.P.M.	

Attach sheet if more space is needed

Ed H. Loney & Son
 Name of Drilling Contractor

(2) PUMP INSTALLATION

Company name and size of pump Western Land Roll HP 60
 Type of pump turbine Capacity of installed pump 700 G.P.M.
 Depth of pump placement 37 ft., Date of pump installation 5-1-75

(3) WATER SURFACE MEASURING TUBE

On some wells an air-tight water surface measuring tube is required: See Section 46.408 of Chapter 46.4, MINIMUM WELL CONSTRUCTION STANDARDS.

Show exact vertical length of water surface measuring tube, when installed _____ ft., tube diameter _____, tube material _____.

Ed H. Loney & Son
 Name of Pump Installation Contractor

Conversation or File Documentation

NAME OF PERSON OR FILE: Wayne JanssenADDRESS: RR 2, Box 76, Castlewood SD COUNTY SDDATE: Dec 29, 1989 TELEPHONE _____RE: Letter to Mr Janssen dated Dec 20, 1989

COMMENTS:

Tom with Farmer's Implement and Irrigation called regarding my letter to Mr. Janssen dated Dec 20, 1989.

Tom plans to place a 2.28 cfs diversion rate on the application and will send a revised map with the correct well locations & depths. The Form 2A will also be completed as much as possible.

File in Permit or other file as necessary. Use to document conversations and what the other party was told; why action or decision was made.

NAME: Tom Janssen

Telephone (605) 692-6153

Farmers Implement and Irrigation

BROOKINGS, SO. DAK.

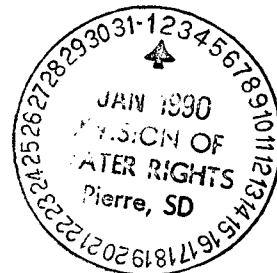
57006

P.O. Box 29
East Highway 14 Bypass

New Holland
Hesston
Valley
Deutz
Kinze

Ron Duvall
Joe Foss Building
523 East Capitol
Pierre, SD. 57501-3181

12/19/89



Dear Ron:

I have relocated the wells on the land recently purchased by Wayne Janssen and have marked the wells with red dots on both maps. The number of the wells have also been changed and their description is as follows.

WELL #1

APPROXIMATELY 2370' NORTH AND 1320' WEST OF THE SOUTH EAST CORNER OF SEC 21 T114N R51W --- 39' DEEP WITH 1600' OF BURIED 8" PVC TO NORTH PIVOT PAD

WELL #2

APPROXIMATELY 1870' NORTH AND 2445' WEST OF THE SOUTH EAST CORNER OF SEC 21 T114N R51W --- 80' DEEP WITH 1650' OF BURIED 8" PVC TO WEST PIVOT PAD

WELL #3

APPROXIMATELY 2065' NORTH AND 2060" WEST OF THE SOUTH EAST CORNER OF SEC 21 T114N R51W --- 41" DEEP WITH 1200' OF BURIED 8" PVC TO SOUTH PIVOT PAD

I have corrected the diversion rate on the application and estimated the nearest domestic well to be 3500' south east of well number 2.

Wayne has purchased the southeast quarter of Sec 21 and Poinsett Colony has purchased the northeast and southwest quarters. Wayne only wishes to apply for the permits for the southeast quarter. If I can do anything else to help please feel free to call.

Thank You

Tom Pierce
Farmers I&I



Department of Agriculture

DIVISION OF CONSERVATION

Anderson Building, 445 East Capitol
Pierre, South Dakota 57501-3188
Phone 605/773-3258

January 18, 1990

Ron Duvall
Division of Water Rights
Foss Bldg.

RE: Wayne Janssen application to irrigate SE1/4 21-T114N-R51W

In reviewing our files, we have the lands in question permitted under the name of Kenneth Kruthoff and requiring only transferring action by this division.

Upon the advisement of the water permit being issued, we will transfer the permit to Mr. Janssen.

Sincerely,

Jim Stukel
Natural Resource Program Scientist

JLS/cj



REPORT ON APPLICATION NO. 5394-3
FOR WAYNE JANSSEN
February 28, 1990

This application proposes to appropriate 2.28 cfs from 3 existing wells, 39, 41 and 80 feet deep to irrigate 160 acres. The wells are located in the NW 1/4 SE 1/4 and the land to be irrigated is the SE 1/4 all in section 21, T114N R51W in Hamlin County.

AQUIFER - BIG SIOUX BROOKINGS (BS-B)

The Big Sioux Brookings (BS-B) is a Pliocene outwash (sand and gravel) and alluvium which is predominantly under water table conditions in this area. The BS-B aquifer underlies 88,500 acres and contains an estimated 331,880 acre feet of recoverable in Hamlin County (Hedges, 1982). The aquifer averages about 30 feet in thickness and is hydraulically connected to the Big Sioux River (Kume, 1985) which acts as a discharge for ground water from the aquifer to the river.

The Division of Water Rights monitors 19 observation wells completed into the BS-B aquifer in Hamlin County. Two of these wells HN-77E and HN-77F are within 2 miles of this proposed diversion. Typically water levels fluctuate 1 to 4 feet per year with a total maximum change of about 10 feet between the highest and lowest levels ever recorded. The aquifer responds quickly to recharge and the water levels mirror climatic conditions, that is, gradually declining during dry years and rising during wet years (Water Rights, 1990).

Water use from the BS-B aquifer in Hamlin County was reported at 8181 acre feet for 1988 (Irrigation Reports, 1988). Recharge to the BS-B aquifer is estimated at 3.6 to 4.0 inches per year which would yield at least 26,500 acre feet of water per year (Hedges, 1983).

REVIEW OF EXISTING WATER PERMITS/RIGHTS

There are four active water permits/rights nos. 2028-3, 4522-3, 3563-3 and 4130-3 within one mile of this application. Also these lands are covered by permits nos. 4427-3 and 2264-3 which may be subject to cancellation for nonuse. There are three existing well which will be used for this application. Interference should not be a problem, typically, drawdowns caused by pumping high capacity wells in the BS-B aquifer do not extend very far from an individual production well. The observation well record indicates that pumping has not adversely affected water availability from the BS-B aquifer.

CONCLUSIONS

1. Water is available from the BS-B aquifer.
2. The BS-B aquifer is under water table conditions at this site and interference is not expected to be a concern.
3. These lands are already covered by permits. The validity of Permits Nos. 4427-3 and 2264-3 will have to be determined by the Water Management Board.
4. These are existing wells and have been used in the past. An investigation by the Division of Water Rights indicates water has not been used since 1984.
5. There is a growing body of evidence which indicates that land use practices over shallow water table aquifers such as the BS-B aquifer will affect the water quality in the aquifer.


James A Goodman

Natural Resources Engineer

BIBLIOGRAPHY

- Hedges, L.S., 1982, EVALUATION OF GROUND WATER RESOURCES EASTERN SD AND UPPER BIG SIOUX RIVER, SD AND IOWA, for US Army Corps of Engineers, SD DWR, SDGS, Vermillion, SD, 57069.
- Hedges, L.S., 1983, GROUND WATER RECHARGE, for US Army Corps of Engineers, SD DWR, SDGS, Vermillion, SD, 57069.
- Irrigation Reports, 1988, IRRIGATION REPORTS BY COUNTY FOR 1988, SD DWR, Div. of Water Rights, Joe Foss Bldg., Pierre, SD, 57501.
- Kume, J., 1985, WATER RESOURCES OF DEUEL AND HAMLIN COUNTIES, SOUTH DAKOTA, USGS WRI 84-4069, USGS, Huron, SD, 57350.
- Water Rights, 1990, RECORDS OF OBSERVATION WELLS IN THE BS-B AQUIFER IN HAMLIN COUNTY, SD DWR, Div. of Water Rights, Joe Foss Bldg., Pierre, SD, 57501.

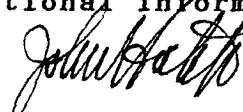
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 5394-3, Wayne Janssen

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. 5394-4, Wayne Janssen, RR 2, Box 76, Castlewood SD.

The Chief Engineer is recommending APPROVAL of Application No. 5394-3 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:

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

See the attached report for additional information.


JOHN HATCH, Chief Engineer
February 28, 1990



Department of Water & Natural Resources

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

March 30, 1990

NOTE: TO BE SURE OF PUBLICATION ON
THE CORRECT DATES, CONTACT
THE NEWSPAPER RIGHT AWAY.

Wayne Janssen
RR #2 Box 76
Castlewood, SD 57223

Dear Mr. Janssen:

Water Permit Application No. 5394-3 for irrigation use has been examined and found to comply with the South Dakota Water Laws and applicable rules. A notice of hearing has been sent to the Publisher of the Estelline Journal printed at Estelline SD. For your information, a copy of the notice is enclosed. Copies of the report and the Chief Engineer's recommendation are also enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Intent to Appropriate Water and to arrange for payment. Early contact with the paper can eliminate delays. The publisher has been instructed to publish your notice once each week for two consecutive weeks with the last publication to occur twenty days before the board meeting. We must receive Proof of Publication before the application can be considered by the Water Management Board.

Sincerely,

A handwritten signature in cursive script that reads "Eric Gronlund".

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures



Department of Water & Natural Resources

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

March 30, 1990

Estelline Journal
Box 159
Estelline, SD 57234

ATTN: Legal Publications:

Enclosed is a Notice of Hearing on Application No. 5394-3 to be published twice. Please publish the first notice on or before April 5, 1990 with the second publication 7 days later.

The APPLICANT MUST VERIFY TO YOU THAT THE NOTICE IS TO BE PUBLISHED, before you make the first publication. Please BILL the APPLICANT for the cost of publication. The APPLICANT is Wayne Janssen, RR #2 Box 76, Castlewood, SD 57223.

A copy of BOTH publications must be SENT to the WATER RIGHTS DIVISION. IMMEDIATELY return the FIRST publication with the FIRST Transmittal form on the bottom of this page. The first copy is needed to check the publication for errors so any corrections can be made in the second publication. Publication errors can invalidate the public notice and cause the applicant costly delays.

Please be sure the SECOND publication is returned IMMEDIATELY with the enclosed Proof of Publication form. DO NOT WAIT until the end of the month or the billing cycle. The permit application cannot be considered by the Water Management Board until proof of publication has been received.

Sincerely,

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

FIRST TRANSMITTAL NOTICE

No. _____

Date _____

We are in receipt of your letter of _____ enclosing Notice of Hearing to Appropriate Water by Application No. _____ which was first published in our issue of _____. ENCLOSED IS A COPY OF THIS FIRST PUBLICATION.

-----CUT HERE-----

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

Name

Newspaper

Instruction to Newspaper - Publish first Notice on or before April 5, 1990 with 2nd publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 5394-3 to Appropriate Water

Notice is given that Wayne Janssen, RR #2 Box 76, Castlewood, SD 57223 has filed an application for a water permit to appropriate 2.28 cubic feet of water per second from 3 existing wells (Big Sioux Brookings Aquifer) 39 feet, 41 feet and 80 feet deep to irrigate 160 acres. The 3 wells are located in the NW1/4 SE1/4 and the irrigated acreage is to be located in the SE1/4; all in Seciton 21-T114N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5394-3 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. This application will be considered by the Water Management Board in the Pelican Room, Ramkota Inn, Hwy 212, Watertown, SD on May 23, 1990 at 10:00 am. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to 1) approve, 2) approve with qualifications, 3) defer or 4) deny this application based on the facts presented at the public hearing.

Any interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by May 11, 1990. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)". 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 legal counsel if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.

This hearing is an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by May 11, 1990.

This application is made pursuant to 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; 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15; 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 46-5-25, 46-5-30.2, 46-5-30.4, 46-5-31; 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.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
County Hamlin) ss.

I, Carla Clarke

certify that the attached printed Notice was taken
from the Estelline Journal

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

City of Estelline

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

4-5

4-12

Carla Clarke

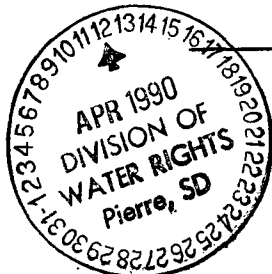
(Signature)

Publisher

(Title)

4-12-90

(Date Signed)



Cost of Printing: 36.45

and/or the applicant have the right to be represented by a lawyer. These and other due process rights will be forfeited if not exercised. Decisions of the Board may be appealed to the Circuit Court and State Supreme Court as provided by law. The time of the hearing will also be automatically delayed for at least twenty days upon written request to the Chief Engineer from the applicant or a petitioner. The request for a delay must be received by May 11, 1990.

This application is made pursuant to 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, 46-2A-1 thru 46-2A-10, 46-2A-12, 46-2A-14, 46-2A-15, 46-5-1 thru 46-5-11, 46-5-13 thru 46-5-15, 46-5-24, 436-5-25, 46-5-30.2, 46-5-30.4, 46-5-31, 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.

73-2x April 5, 12

NOTICE OF HEARING on Application No. 5394-3 to Appropriate Water

Notice is given that Wayne Janssen, RR 2 Box 76, Castlewood, SD 57223 has filed an application for a water permit to appropriate 2.28 cubic feet of water per second from 3 existing wells (Big Sioux Brookings Aquifer) 39 feet, 41 feet and 80 feet deep to irrigate 160 acres. The 3 wells are located in the NW1/4 SE1/4 and the irrigated acreage is to be located in the SE 1/4, all in Section 21-T114N-R51W.

Pursuant to SDCL 46-2A-2, the Chief Engineer of the Water Rights Division recommends APPROVAL of Application No. 5394-3 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. This application will be considered by the Water Management Board in the Pelican Room, Ramkota Inn, Hwy 212, Watertown, SD on May 23, 1990 at 10:00 a.m. The Chief Engineer's recommendation is not final or binding upon the Board. The Board is authorized to: 1) approve, 2) approve with qualifications, 3) defer, or 4) deny this application based on the facts presented at the public hearing.

Any interested person that intends to participate in the hearing before the Board by presenting evidence or cross-examining witnesses according to SDCL 1-26, must file a written petition with BOTH the applicant and Chief Engineer by May 11, 1990. The Chief Engineer's address is: Water Rights Division, Foss Building, 523 E. Capitol, Pierre, SD 57501 (605-773-3352). 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 legal counsel, if legal counsel is obtained. The applicant need not file a petition. Contact the Water Rights Division to request information on this application or to assure access to the hearing by the handicapped.

This hearing is an adversary proceeding. Any person filing a petition



Department of Water & Natural Resources

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

JUL 10 1990

Wayne Janssen
RR 2, Box 76
Castlewood SD 57223

Dear Mr. Janssen:

Enclosed is Water Permit No. 5394-3 as approved by the Water Management Board authorizing you to construct your water diversion system and put the water to beneficial use, not exceeding the limits as specified in the Water Permit.

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 the Water License may be issued, thus completing your acquisition of a Water Right.

Very truly yours,

A handwritten signature in black ink, appearing to read "John Hatch". The signature is written in a cursive, flowing style.

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

enclosures

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.

REPORT ON INSPECTION OF PERMIT NO. 5394-3

DATE OF INSPECTION: 9/18/96

Contact Person & Address: Rolland Jansen, RR2 Box 76, Castlewood SD

DIVERSION POINT LEGAL LOCATION: From the SE corner of Sec 21 T114N-R51W: Well 1 - 2050 ft N 2400 ft W; Well 2 - 2200 ft N 2100 ft W

WATER SUPPLY Source: groundwater, Big Sioux Brookings Aquifer

Well Information: well 1

- | | |
|---|-------------------------------------|
| 1) Well Drilling Firm: <u>Ed Lacey and Sons</u> | 2) No. of Wells <u>1</u> |
| 3) Depth(s) <u>39.5</u> feet | 4) Well log is available <u>yes</u> |

Casing:

- | | |
|------------------------------|--------------------------|
| 1) Diameter <u>14</u> inches | 2) Length <u>30</u> feet |
| 3) Type <u>steel</u> | |

Screen:

- | | |
|--------------------------------------|--------------------------|
| 1) Type <u>stainless steel</u> | 2) Length <u>10</u> feet |
| 3) Static water level <u>10</u> feet | |

Pump:

- | | |
|------------------------|-----------------------------|
| 1) Make <u>unknown</u> | 2) Model <u>submersible</u> |
| 3) Size <u>?</u> | 4) Capacity <u>250</u> GPM |

Motor:

- | | |
|----------------------------------|-----------------------|
| 1) Make <u>unknown</u> | 2) Model No. <u>?</u> |
| 3) Horsepower rating <u>?</u> hp | |

Well Information: well ~~1~~ 2

- | | |
|---|-------------------------------------|
| 1) Well Drilling Firm: <u>Ed Lacey and Sons</u> | 2) No. of Wells <u>2</u> |
| 3) Depth(s) <u>36</u> feet | 4) Well log is available <u>yes</u> |

Casing:

- | | |
|------------------------------|--------------------------|
| 1) Diameter <u>14</u> inches | 2) Length <u>28</u> feet |
| 3) Type <u>steel</u> | |

Screen:

- | | |
|--------------------------------|--------------------------|
| 1) Type <u>stainless steel</u> | 2) Length <u>10</u> feet |
|--------------------------------|--------------------------|

3) Static water level 15 feet

Pump:

1) Make unknown

2) Model submersible

3) Size ?

4) Capacity 250 GPM

Motor:

1) Make unknown

2) Model No. ?

3) Horsepower rating ? hp

DISTRIBUTION LINES OR CANALS:

1) Type PVC 2) Size 8 inches 3) Length 1500 feet

SYSTEM TYPE:

Center pivot:

1) Make Valley

2) Overall length 1280 feet

3) Number of towers 7

4) End gun yes

5) High or low pressure low

6) Capacity 500 GPM

CHEMIGATION EQUIPMENT:

1) Does chemigate no

PERMIT QUALIFICATIONS AND REGULATIONS:

1) Special qualifications to permit being abided by yes

2) All structures, wells and lands on map yes

3) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period yes

Permit No. 5394-3
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

On, September 18, 1996, I made a thorough examination of the water use system constructed by Wayne Jansen of RR 2 Box 76, Castlewood SD holder of Permit No. 5394-3, bearing the priority of December 4, 1989 authorizing the diversion of 2.28 cu. ft. per second of the waters of groundwater, Big Sioux Aquifer 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:

Two submersible pumps with a 500 gpm capacity

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

1500 ft of 8 inch PVC

C. Works used to apply water to beneficial use:

A Valley center pivot

The system is in the following condition good. The point of diversion is located From the SE corner of Sec 21 T114N-R51W: Well 1 - 2050 ft N 2400 ft W; Well 2 - 2200 ft N 2100 ft W. The works are capable of diverting and conveying to the place of use 1.11 cu. ft. per second of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows:

All land located in Section 21 T114N-R51W:

NW1/4 SE1/4 - 33 ac

NE1/4 SE1/4 - 33 ac

SE1/4 SE1/4 - 22 ac

SW1/4 SE1/4 - 33 ac

comprising a total of 121 acres of land and the license should be issued for 1.11 cfs.

Applicable permit qualifications have been complied with: yes

Exceptions to compliance are: none



Mark D. Rath
Natural Resources Engineer
DENR, Water Rights Program

10/8/96
Date

A circular ink stamp from the Division of Water Rights in Pierre, South Dakota. The text "DIVISION OF WATER RIGHTS" is curved along the top inner edge, and "Pierre, SD" is curved along the bottom inner edge. In the center, the date "DEC 1983" is stamped. A horizontal line, likely a scanning artifact, crosses the middle of the stamp.

150.0
T559

76.4
T531

64.2

579-47-L
E14

146.6

11/16

2400

37.0

2002

19,4

33ac

33.2

2200'

2050'

~~47.9~~

33.4

22. a.

114-51

Mark D Rath
Natural Resources Engineer
Division of Water Rights
Date 10/8/96



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

October 10, 1996

5394-3

Wayne Jansen
RR 2, Box 76
Castlewood, SD 57223

Dear Mr. Jansen:

The investigation of your water use system, including the extent of application of water to beneficial use, as developed under Water Permit No. 5394-3, 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 investigation and issuance of the Water License. Upon receipt of the \$50.00 fee from you, we will begin processing your Water License.

**Please remit fee to:
Department of Environment & Natural Resources
Water Rights Program
523 E. Capitol
Pierre, SD 57501-3181**

Sincerely,

Cheryl F. Frost
Secretary
Water Rights Program
(605) 773-3352

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

RECEIPT

415160

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, _____ October 17, 19 96

RECEIVED OF Wayne or Mary R. Janssen, RR 2, Box 76, 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 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>5394-3</u>	50	00
Fee for Filing Transfer Form _____		
Fee for Filing Extension Request _____		
Fee for _____		

(Any Other Work Provided by Law)	Total	50 00

By John Hatch 
Chief Engineer

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 5394-3

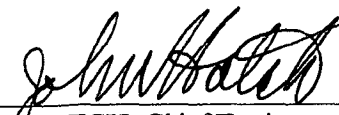
(1) Wayne Janssen, RR 2 Box 76, Castlewood, SD 57223 made Application No. 5394-3, December 4, 1989 for a water permit to divert 2.28 cubic feet of water per second from ground water (three wells), Hamlin County, South Dakota for irrigation purposes. Permit No. 5394-3, with a priority date of December 4, 1989 was approved May 24, 1990 and issued to the applicant for diversion of water with construction of the described water supply system to be completed on or before May 24, 1995 and for the application to beneficial use of said water on or before May 24, 1999.

(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 1.11 cubic feet of water per second for beneficial use. The location of the diversion points are Well #1 - 2,050'N and 2,400'W of the SE corner of Section 21; Well #2 - 2,200'N and 2,100'W of the SE corner of Section 21, both in the NW¼ SE¼ Section 21, T114N, R51W.

(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:

Section 21, T114N, R51W	
NW¼ SE¼	33 acres
NE¼ SE¼	33 acres
SE¼ SE¼	22 acres
SW¼ SE¼	33 acres
Total	121 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 Wayne Janssen, RR 2 Box 76, Castlewood, SD 57223 the holder and/or owner of Water Permit No. 5394-3 is issued a license to appropriate water, the right to use 1.11 cubic feet of water per second from ground water (two wells) with a priority date of December 4, 1989 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. 5394-3 and subject to South Dakota State Law.



JOHN HATCH, Chief Engineer
Water Rights Program
Department of Environment and Natural Resources

DEC 26 1996

date





**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

DEC 26 1996

5394-3

Wayne Janssen
RR 2, Box 76
Castlewood, SD 57223

Dear Mr. Janssen:

Enclosed is Water License No. 5394-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 415160 in the amount of \$50.00 which you paid for the investigation 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. 5394-3, 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 Program
(605) 773-3352

gm
enclosures

5394-3

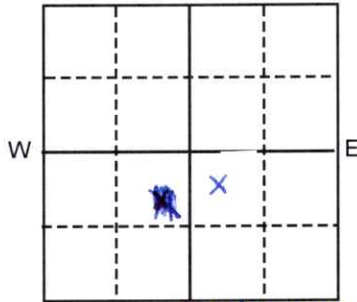
SOUTH DAKOTA WATER WELL COMPLETION REPORT

11-02

Location NW ¼ SE ¼ Sec 21 Twp 114 Rg 51

County Hamlin

North

Please mark well
location with an "X"

Well Completion Date

January 21, 2021

1 Mile

Distance to nearest potential pollution source (septic tank, abandoned well, feed lot, etc.)?
1,000.0 ft. from Farm Site (identify source)

PROPOSED USE:

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

METHOD OF DRILLING:

MUD ROTARY

CASING DATA:

☐ Steel ☒ Plastic ☐ Other

PIPEWEIGHT DIAMETER FROM TO HOLE DIAMETER

LB/FT 12.00 IN 0.0 FT 25.0 FT 17.50 IN

LB/FT IN FT FT IN

LB/FT IN FT FT IN

GROUTING DATA:

Grout Type No. of Sacks Grout Weight From To

BENTONITE 13 Lb/gal 0.0 Ft 15.0 Ft

Lb/gal Ft Ft

Describe grouting procedure
Tremie Piped

SCREEN:

☐ Perforated pipe ☒ Manufactured
 Diameter 12.00 Inches Length 10.0 Feet

Material STAINLESS STEEL

Slot Size .070 Set From 25.0 Feet to 35.0 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?

Lab to which water

☒ No, Why Not?

quality sample sent for analysis

IRRIGATION WELL ONLY

Well Owner: RALLAND JANSSEN

Business Name:

Address: 18943 463RD AVE

City, State, Zip: CASTLEWOOD SD 57223

WELL LOG:

FORMATION	DEPTH	
	FROM	TO
Top Soil	0	3
Clay- Yellow	3	8
Clay- Gray	8	13
Sand	13	35
Clay- Gray	35	40

STATIC WATER LEVEL

10.0 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

26.2 Ft. After 4.0 Hrs. pumped 300.0 GPM

Ft. After Hrs. pumped GPM

If pump installed, pump rate:

GPM

REMARKS

This well was drilled under license # 475 and this report is true and accurate.

Drilling firm: THEIN WELL COMPANY, INC

Signature of License Representative:

Signature of Well Owner or Equitable Property Holder:

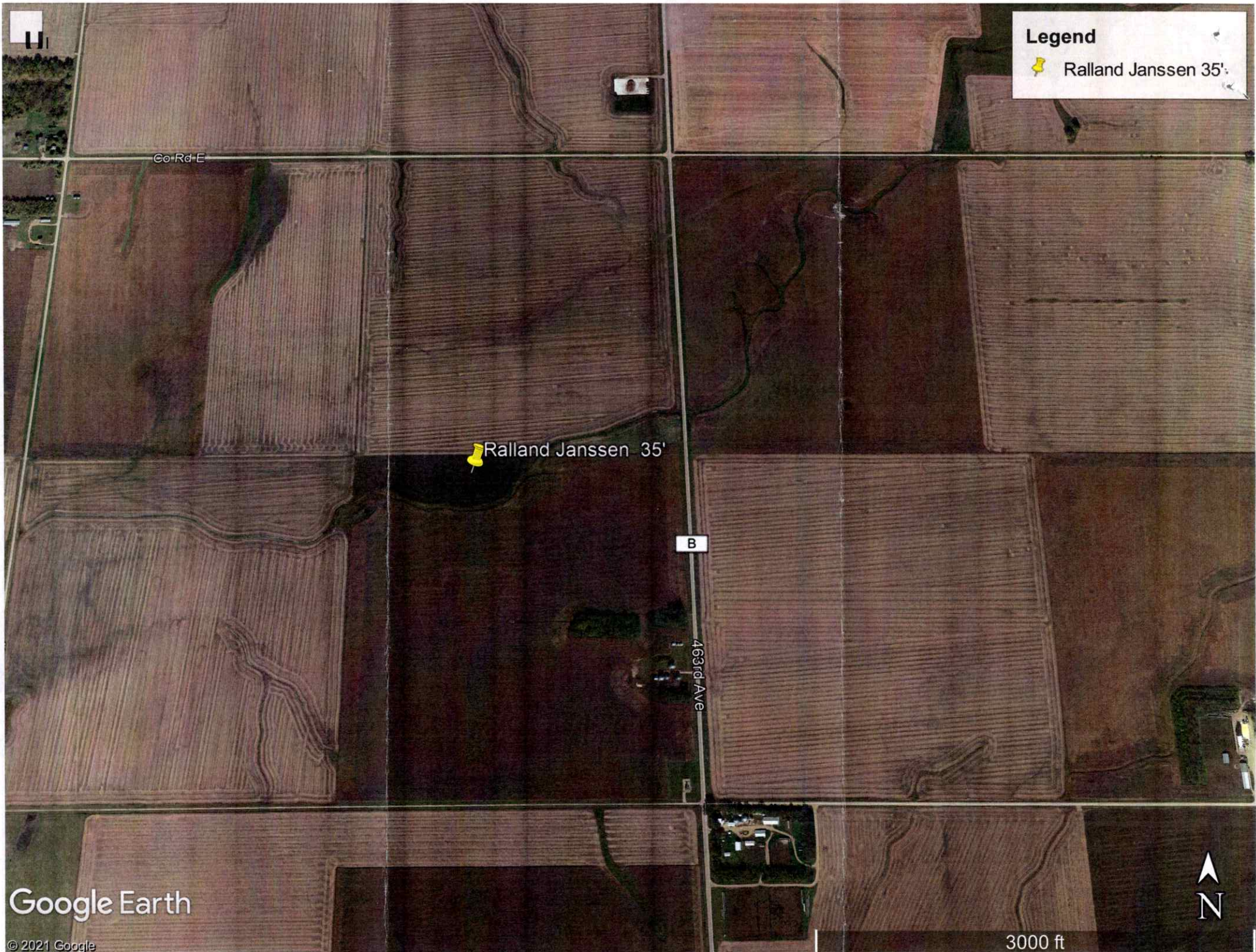
Ralland Janssen

RECEIVED

Date: Feb 9 2021

MAR 15 2021

WATER RIGHTS
PROGRAM



Legend

 Ralland Janssen 35'

 Ralland Janssen 35'

B

463rd Ave

Google Earth

© 2021 Google



3000 ft