

Considered: _____

WATER PERMIT NO. 3499A-3

Phone: 854-3497

Name of Applicant: William Poppen

Post Office Address: RR 1, Box 187A, DeSmet SD 57231

Amount of Water Claimed: no add'l Total Acres: no add'l

Source of Water Supply: groundwater (two add'l wells)

Water to be used for: irrigation County: Kingsbury

About 1 miles north of DeSmet

PROOF OF PUBLICATION: Received _____ Not Received _____

APPLICATION: Approved _____ Subject to _____

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

PRIORITY Date Received: 1-29-92 Fee: \$50.00 Remarks Corrects the
number of diversion points developed under Water Permit No. 3499-3

Corrected Application Received _____ Period of Annual Use April 1 - Oct 31

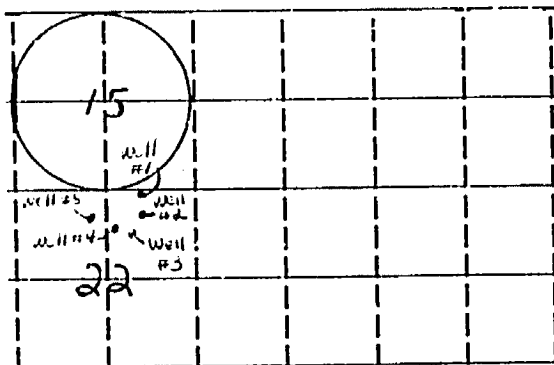
WATER QUALITY APPROVAL RECEIVED 1-10-77 APPROVED/CONDITIONAL (Circle one)

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

Diversion Point: Well #4 NW 1/4 NE 1/4

Well #5 NE 1/4 NW 1/4 all in Sec 22-T111N-R56W

Land to be Irrigated: SE 1/4 Sec 15-T111N-R56W



Well Log: Driller: Huron Drilling Licensed YES X NO _____

Depth of Well: 26' & 22' REMARKS _____

Type of Map: aerial PREPARED BY: Norma Job Reviewed and the Number
Assigned on 2-19-92 By Karen Schlaak

STATE OF SOUTH DAKOTA

WATER LICENSE NO. 3499A-3

(1) William Poppen, of RR 1 Box 187A, DeSmet, SD 57231 made Application No. 3499A-3, January 29, 1992 for a water permit to appropriate no additional cubic feet of water per second from two additional wells, Kingsbury County, South Dakota for irrigation purposes. Permit No. 3499A-3, with a priority date of December 28, 1976 (established under Permit 3499-3) was approved April 28, 1992 and issued to the applicant for diversion of water with construction of the described water supply system completed and the application to beneficial use of said water completed.

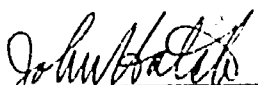
Water Permit No. 3499A-3 authorizes two additional wells to irrigate acreage authorized by Permit No. 3499-3. No. 3499A-3 did not authorize an increase in diversion rate or number of acres irrigated. The applicable portions of Water Permit No. 3499-3 have been incorporated into this Water License No. 3499A-3.

(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 1.77 cubic feet of water per second for beneficial use. The location of the diversion points are: Well #1: 1915 feet W; #2: 1850 feet W and 660 feet S; #3: 1980 feet W and 1120 feet S; #4: 2375 feet W and 990 feet S (all in NW 1/4 NE 1/4); #5: 2740 feet W and 725 feet S (NE 1/4 NW 1/4); all from the NE corner of Section 22 T111N-R56W.

(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:

T111N-R56W	Section 15	NW1/4 SE1/4	33 acres
		NE1/4 SE1/4	33 acres
		SW1/4 SE1/4	33 acres
		SE1/4 SE1/4	33 acres
		Total	132 acres

(4) Pursuant to South Dakota Water Law 46-5-30.1 William Poppen of RR 1 Box 187A, DeSmet, SD 57231 the holder and/or owner of Incorporated Water Permit No. 3499A-3 is issued a license to appropriate water, the right to use 1.77 cubic feet of water per second from groundwater (five wells) with a priority date of December 28, 1976 from the location specified in (2) of this license. The water 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 Incorporated Water Permit No. 3499A-3 and subject to South Dakota State Law.

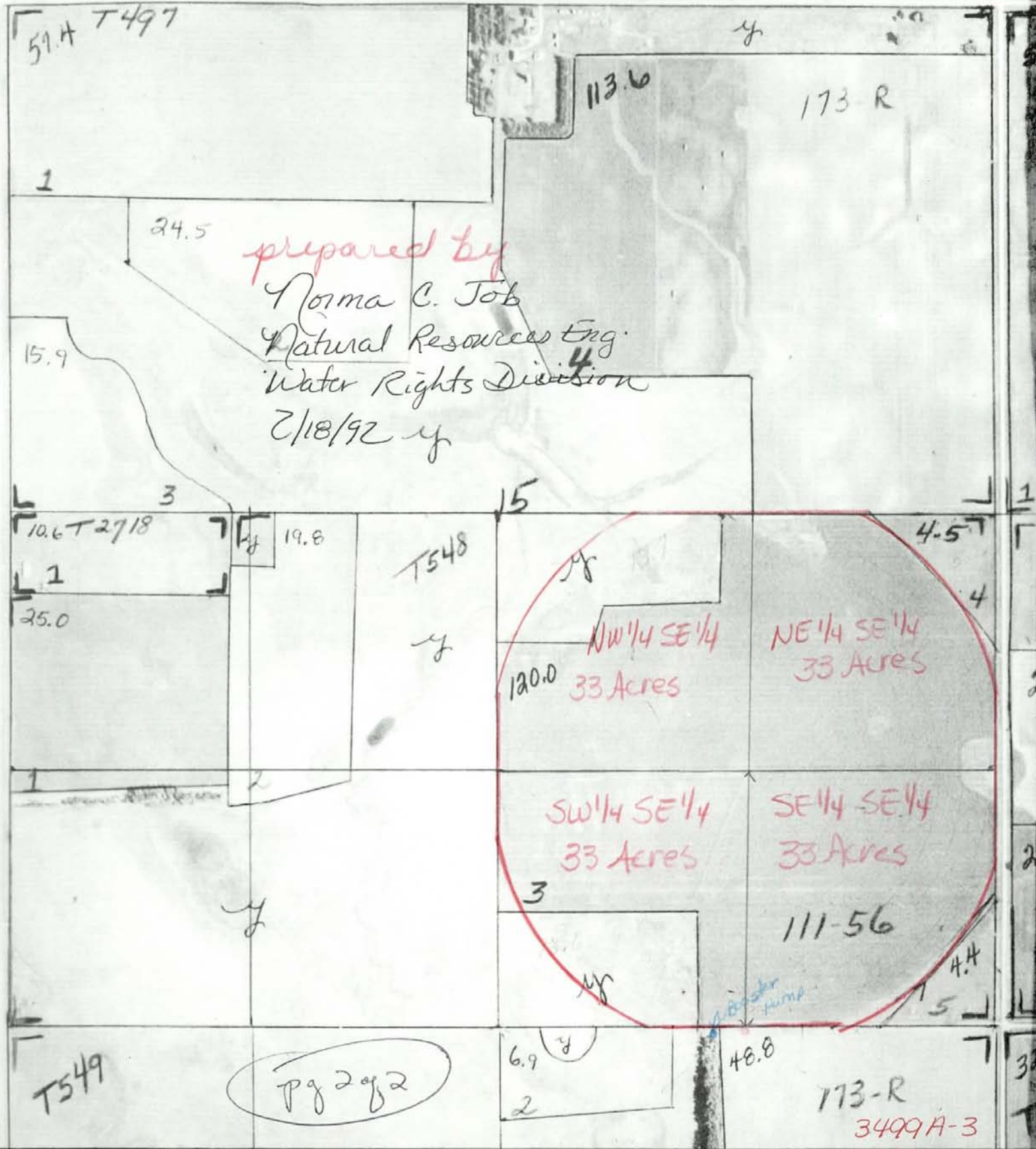


JOHN HATCH, Chief Engineer
Water Rights Division
Department of Environment and Natural Resources

SEP 17 1993

3499-3

NOT TO SCALE



(See Instructions)

Mail to: Water Rights Div.
523 E. Capitol
Pierre, SD 57501
(605) 773-3352



No. 3499A-3 Hydrologic Unit 10170103
Basin Vermillion
Newspaper DeSmet News, Box 69 (Wed)

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

- ☒ New ☐ Vested Right ☐ Amend Permit No. _____
☐ Change Acreage ☐ Change diversion point(s) ☐ Add diversion point(s)
☐ Add Acreage ☐ Increase diversion rate ☒ Other See Permit No. 3499-3

1. Name of Applicant William Poppen Phone No. 354-3497
Post Office Address RR #1 Box 187A DeSmet State SD 57231
(Name, RR or Post) (City) Zip Code

2. Amount of water claimed (c.f.s) no add'l Total acres irrigated no add'l
2 add'l wells

3. Source of Water supply NE 1/4 NW 1/4 all in Sec 22-

4. Location of point of diversion Well #4 NW 1/4 NE 1/4 Well #5
T111N - R56W County Kingsbury

5. Counties where water will be used Kingsbury

6. Annual period during which water is to be used April 1 - 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.
NW 1/4 SE 1/4	33
NE 1/4 SE 1/4	33
SE 1/4 SE 1/4	33
SW 1/4 SE 1/4	33

Land Description	No. Acres Irr.

Attach sheet if more space is needed

Section 15-T111N-R56W

8. Type of Irrigation: Gravity: _____ Towing: _____ Center Pivot: X Gun: _____ Other: _____
Crops: beans (Specify)

9. Crops to be Irrigated: _____

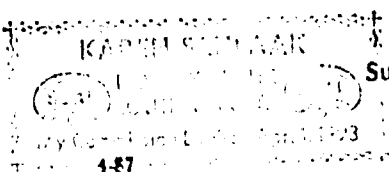
10. Give a description of proposed project. (Attach sheet if more space is needed)
This application is to correct the number of diversion points developed under Water Permit No. 3499-3.

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 Hughes)

I, William Poppen, 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.

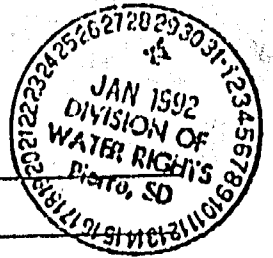
Signed William Poppen
29th day of January 1992
Karen Schiaak
Notary Public



Supplemental Information

(type or print in ink)

10-11-11-4



1. Well Information - Proposed construction

- a) Drill Hole Diameter unknown Depth 26 ft
- b) Casing Type PVC Diameter 6" Thickness _____
- c) Screen Type Stainless steel Diameter 6" Thickness _____
- d) Gravel Pack Thickness _____ Length of Gravel Pack _____
- e) Depth to Top of Water Bearing Material 5 ft
- f) Depth to Water (ground surface to water level) _____
- g) Distance to nearest existing domestic well:
- On applicants property 2110 On property owned by others 4420'

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 _____

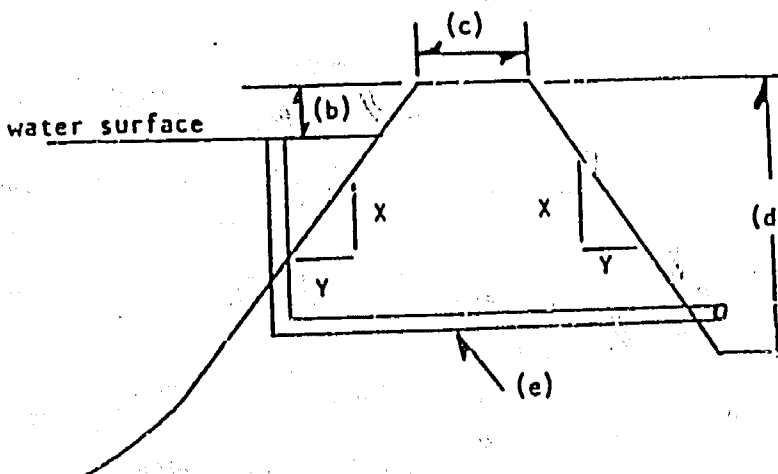
e) Primary Outlet Capacity _____
If Pipe, diameter _____f) Secondary Spillway Capacity _____
Spillway width _____g) X & Y Slope
Upstream _____

Downstream _____

Surface Area of Impoundment _____

Storage _____ acre feet

Drainage area above dam _____



Signature of Applicant

REPORT ON WATER PERMIT APPLICATION NO. 3499A-3
WILLIAM POPPEN
MARCH 2, 1992

Application No. 3499A-3, William Poppen, is adding two additional wells to irrigate acreage authorized by Water Permit No. 3499-3. Water Permit No. 3499-3 appropriates 5.07 cubic feet of water per second (cfs) from three wells located in the NW 1/4 NE 1/4 Section 22; to irrigate 355.1 acres located in the N 1/2 SW 1/4, SE 1/4 Section 15, and E 1/2 NE 1/4, SW 1/4 NE 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4 Section 22; all in T111N-R56W. An inspection of this permit found five wells capable of diverting 1.77 cfs irrigating 132 acres in the SE 1/4 Section 15-T111N-R56W. This application is for two additional wells, 26 and 22 feet deep, located in the NW 1/4 NE 1/4 and the NE 1/4 NW 1/4 Section 22-T111N-R56W in Kingsbury County. No increase in the developed diversion rate or number of acres being irrigated is authorized by this application.

AQUIFER - Vermillion East Fork (VEF)

The water source is the Vermillion East Fork aquifer. This aquifer is generally unconfined and stores 0.3 million acre-ft of water in 94 square miles of central Kingsbury County (Hamilton, 1989). It is composed of glacial outwash, medium to very coarse sand and fine gravel and is recharged directly by precipitation and leakage from adjacent and underlying till.

REVIEW OF EXISTING WATER RIGHTS/PERMITS

This application is to add two wells, not additional water or acres; therefore, this application would not effect any other permits in the area.

CONCLUSIONS

1. If this application is approved, Water Permit No. 3499-3 and this application should be incorporated into one Water License No. 3499A-3 for the irrigation of 132 acres using 1.77 cfs based on an inspection done on Water Permit No. 3499-3.
2. A qualification on Water Permit No. 3499-3 stated that "The wells approved under this permit shall be spaced so that there is at least 660' between wells." The wells under this permit are not spaced that far apart. The wells under this permit and application will be effecting each other. No other wells will be effected by drawdown.
3. This application does not authorize additional water or acres to be irrigated.

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

Norma C. Job

NORMA C. JOB
Natural Resources Engineer I

Approved by:

James A. Goodman

JAMES A. GOODMAN, PE
Natural Resources Engineer IV

REFERENCES

Hamilton, L.J., 1989, Water Resources of Brookings and Kingsbury Counties, SD, USGS Water-Resources Investigations Report 88-4185, SDGS, Brookings and Kingsbury Counties, East Dakota Water Development District, Huron, SD 57350.

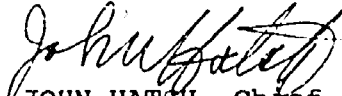
RECOMMENDATION OF CHIEF ENGINEER FOR WATER PERMIT
APPLICATION NO. 3499A-3, William Poppen

Pursuant to SDCL 46-2A-2, the following is the recommendation of the Chief Engineer, Water Rights Division, Department of Environment and Natural Resources concerning Water Permit Application No. 3499A-3, William Poppen, RR 1 Box 187A, DeSmet, SD 57231.

The Chief Engineer is recommending APPROVAL of Application No. 3499A-3 because 1) the proposed diversion can be developed without unlawful impairment of existing rights, 2) the proposed use is a beneficial use and 3) 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 report on application for additional information.


JOHN HATCH, Chief Engineer
March 3, 1992



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

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

March 24, 1992

William Poppen
RR 1 Box 187A
DeSmet, SD 57231

Dear Mr. Poppen:

Water Permit Application No. 3499A-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 DeSmet News printed at DeSmet, SD. For your information, a copy of the notice, the recommendation of the Chief Engineer and a report on the application are enclosed. Please review the notice prior to publication and notify this office, if you have any corrections or questions.

Be sure to contact the above newspaper to authorize publication of your Notice of Hearing 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. The newspaper has been instructed to send us the Proof of Publication. We must receive Proof of Publication before action can be taken on the application.

Sincerely, .

Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

March 24, 1992

DeSmet News
Box 69
DeSmet, SD 57231

ATTENTION: Legal Department

Enclosed is a Notice of Hearing on Application No. 3499A-3 to be published twice. Please publish the first notice on April 1, 1992, 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 William Poppen, RR 1 Box 187A, DeSmet, SD 57231.

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. No action may be taken on the permit application until proof of publication has been received.

Sincerely,

Eric Gronlund
Eric Gronlund
Natural Resources Engineer
605 773-3352

enclosures

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

FIRST TRANSMITTAL NOTICE

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

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.

Name _____

Newspaper _____

Instruction to Newspaper - Publish first Notice on April 1, 1992, with the second publication 7 days later. The applicant is responsible for payment.

NOTICE OF HEARING on Application No. 3499A-3 to Appropriate Water
and to Amend Water Permit No. 3499-3

Notice is given that William Poppen, RR 1 Box 187A, DeSmet, SD 57231 has filed an application for a water permit for two additional wells to irrigate acreage authorized by Water Permit No. 3499-3. Water Permit No. 3499-3 appropriates 5.07 cubic feet of water per second (cfs) from three wells located in the NW 1/4 NE 1/4 Section 22; to irrigate 355.1 acres located in the N 1/2 SW 1/4, SE 1/4 Section 15; and E 1/2 NE 1/4, SW 1/4 NE 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4 Section 22; all in T111N-R56W. An inspection of this permit found 5 wells capable of diverting 3.77 cfs irrigating 132 acres in the SE 1/4 Section 15-T111N-R56W. This application is for two additional wells 26 and 22 feet deep (Vermilion East Fork Aquifer) located in the NW 1/4 NE 1/4 and the NE 1/4 NW 1/4 Section 22-T111N-R56W. No increase in the developed diversion rate or number of acres being irrigated is authorized by this application.

Pursuant to SDCL 46-2A-2, the Chief Engineer recommends APPROVAL of Application No. 3499A-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. Unless a petition is filed opposing the application or the applicant files a petition contesting the chief engineer's recommendation, the Water Management Board will NOT CONDUCT a HEARING to consider this application and the chief engineer will issue the permit as recommended. Petitions filed in support of the application will NOT require the Board to hear the application.

Any person interested in opposing or supporting this application must file a written petition with BOTH the applicant and Chief Engineer. The applicant must also file a petition if opposed to the Chief Engineer's recommendation. The Chief Engineer's address is "Water Rights Division, Foss Building, 523 E Capitol, Pierre SD 57501 (605 773-3352)" and the applicant's mailing address is given above. A petition filed by either an interested person or the applicant must be filed by April 20, 1992. The petition may be informal, but must include a statement describing the petitioner's interest in the application, the petitioner's reasons for opposing or supporting the application, and the signature and mailing address of the petitioner or the petitioner's legal counsel, if legal counsel is obtained.

For purposes of publishing 1) the notice of hearing on Application No. 3499A-3 and 2) the chief engineer's recommendation, a meeting at the Division of Water Rights office to hear this application is scheduled for April 28, 1992, at 9:00 am in Room 413, Joe Foss Building, 523 E Capitol, Pierre SD. If this application is opposed or the recommendation is contested, the April 28, 1992, hearing date will be rescheduled for a regularly scheduled Board meeting. Notice of the time and place of the rescheduled hearing before the Board will be given by First Class Mail to the applicant and persons filing petitions. Anyone not filing a petition, but interested in attending the hearing, may contact the Division of Water Rights to confirm a hearing date and location. The April 28, 1992, hearing date will be automatically delayed for at least 20 days upon written request to the Chief Engineer from the applicant or any interested person opposing the application. The request for an automatic delay must be filed by April 20, 1992.

If a hearing is held, 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 hearing will be an adversary proceeding. Any person filing a petition and/or the applicant have the right to be represented by a lawyer and may present evidence or cross-examine witnesses according to SDCL 1-26. 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. Contact the Water Rights Division to request copies of information pertaining to this application or to assure access to the hearing by the handicapped.

This application is made pursuant to SDCL 46-1-1 thru 46-1-9, 46-1-12 thru 46-1-16; 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, 46-6-26; and Board Rules ARSD 74:02:01:01 thru 74:02:0 15.

PROOF OF PUBLICATION

STATE OF SOUTH DAKOTA)
 County Kingsbury) ss.

I, Dale Blegen

certify that the attached printed Notice was taken
 from the De Smet News

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

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

April 1, 1992

April 8, 1992

Dale Blegen
 (Signature)

Publisher
 (Title)

April 8, 1992
 (Date Signed)

Cost of Printing: 61.22

NOTICE OF HEARING

on Application No. 3499A-3
 to Appropriate Water and to
 Amend Water Permit No. 3499-3

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4-1-2wc-4-8

Permit No. 3499-3 & 3499A-3
James River - Water District

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

TO: Chief Engineer, Division of Water Rights, DENR, Foss Bldg., Pierre, SD 57501

I have this day made a thorough examination of the water use system constructed by William Poppen of RR Box 187A Desmet SD 57231 holder of Permit No. 3499-3 & 3499A-3, bearing the priority of December 28, 1976 authorizing the diversion of 5.07 cu. ft. per second of the waters of groundwater for irrigation purposes, in Kingsbury County.

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

- A. Works used to divert the water:
5 wells using Grundfos Submersible pumps and motors. All 5 wells together are capable of 850 gpm using 5 and 7.5 hp motors. A 75 hp booster pump capable of 800 gpm is used between the wells and the pivot.
- B. Works used to transport water to place of use:
400 feet of 8" aluminum and 1300 feet of 8" pvc
- C. Works used to apply water to beneficial use:
10 tower Reinke Lumigator 1284 feet long under high pressure and has an end gun. Capable of 800 gpm

The system is in the following condition good. The points of diversion are located Well #1: 1915' west; Well #2: 1850' west and 660' south; Well #3: 1980' west and 1120' south; Well #4: 2375' west and 990' south; Well #5: 2740' west and 725' south; all from the north east corner Section 22-T11N-R56W. The works are capable of diverting and conveying to the place of use 1.77 cu. ft. per second of water of water which is to be used for irrigation. Water has been put to beneficial use to the maximum extent as follows: All in Section 15, T11N, R56W (4-)

<u>NW 1/4 SE 1/4 33 Acres</u>	<u>NE 1/4 SE 1/4 33 Acres</u>
<u>SW 1/4 SE 1/4 33 Acres</u>	<u>SE 1/4 SE 1/4 33 Acres</u>

comprising a total of 132 acres of land and the license should be issued for 1.77 cfs.

Applicable permit qualifications have been complied with: Yes ☒ No

Exceptions to compliance are:

Date: 9/17/91

Norma C. Job
 Norma C. Job
 Natural Resources Engineer
 DENR, Water Rights Division

REPORT ON INSPECTION OF PERMIT NO. 3499-3DATE: 9/17/1991Other permit(s) associated with the project: 3499A-3**DIVERSION POINT LEGAL LOCATION:** Well Nos. 1-4 In the NW 1/4NE 1/4; and Well No. 5 In the NE 1/4NW 1/4; all in Section 22-T111N-R56W**WELL INFORMATION:**

- 1) Well Drilling Firm: Huron Drilling
- 2) No. of Wells 5
- 3) Depth(s) feet
- 4) Well logs is available Y
- 5) Comment:

Casing: Well #1 Depth 29 feet

- 1) Diameter 6 inches
- 2) Length 19 feet
- 3) Type pvc plastic

Pump:

- 1) Make Grundfos
- 2) Model submersible
- 3) Size
- 4) Capacity 100 GPM

Screen:

- 1) Type stainless steel
- 2) Length 10 feet
- 3) Static water level feet

Motor:

- 1) Make Grundfos
- 2) Model No.
- 3) Horsepower rating 7.5 hp

Casing: Well #2 Depth 35 feet

- 1) Diameter 6 inches
- 2) Length 25 feet
- 3) Type pvc plastic

Screen:

- 1) Type stainless steel
- 2) Length 10 feet
- 3) Static water level feet

Pump:

- 1) Make Grundfos
- 2) Model submersible
- 3) Size
- 4) Capacity 300 GPM

Casing: Well # 3 Depth 24 feet

- 1) Diameter 6 inches
- 2) Length 14 feet
- 3) Type pvc plastic

Pump:

- 1) Make submersible
- 2) Model S/N4047
- 3) Size
- 4) Capacity 150 GPM

Casing: Well #4 Depth 26 feet

- 1) Diameter 6 inches
- 2) Length 16 feet
- 3) Type pvc plastic

Pump:

- 1) Make Grundfos
- 2) Model submersible
- 3) Size
- 4) Capacity 100 GPM

Motor:

- 1) Make Grundfos
- 2) Model No.
- 3) Horsepower rating 7.5 hp

Screen:

- 1) Type stainless steel
- 2) Length 10 feet
- 3) Static water level feet

Motor:

- 1) Make
- 2) Model No. PA13034J-2
- 3) Horsepower rating 5 hp

Screen:

- 1) Type stainless steel
- 2) Length 10 feet
- 3) Static water level feet

Motor:

- 1) Make Grundfos
- 2) Model No.
- 3) Horsepower rating 5 hp

Casing: Well #5 Depth 22 feet

- 1) Diameter 6 inches
- 2) Length 12 feet
- 3) Type pvc plastic

Screen:

- 1) Type stainless steel
- 2) Length 10 feet
- 3) Static water level feet

Pump:

- 1) Make Grundfos
- 2) Model submersible
- 3) Size
- 4) Capacity 100 GPM

Motor:

- 1) Make Grundfos
- 2) Model No.
- 3) Horsepower rating 5 hp

DISTRIBUTION LINES OR CANALS:

- | | | |
|-------------------------|-------------------------|---------------------------|
| 1) Type <u>Aluminum</u> | 2) Size <u>8</u> inches | 3) Length <u>400</u> feet |
| Type <u>PVC Plastic</u> | Size <u>8</u> inches | Length <u>1300</u> feet |

SYSTEM TYPE:

Center pivot:

- 1) Make Reinke Lumigator
- 2) Overall length 1284 feet
- 3) Number of towers 10
- 4) Distance between towers feet
- 5) End gun Y Nelson 100
- 6) High or low pressure high
- 7) Capacity 800 GPM

BOOSTER PUMP

- 1) Make _
- 2) Model No. 30754VGF3A3-4AD
- 3) Capacity 800 gpm
- 4) Horsepower 75

CHEMIGATION EQUIPMENT:

- 1) Does chemigate N

PERMIT QUALIFICATIONS AND REGULATIONS:

- 1) Soil and water permit lands agree with lands being irrigated and lands listed on permit Y
- 2) Special qualifications to permit being abided by Y
- 3) All structures, wells and lands on map Y
- 4) Irrigation Questionnaires checked to determine if permit owner started irrigation by the end of construction period Y

South Dakota

GREAT FACES. GREAT PLACES.

DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

November 4, 1991

Huron Drilling, Inc.
Attn: Doug or Karl Osberg
P.O. Box 1422
Huron, SD 57350

Dear Mr. Osberg:

Currently, I am in the process of licensing some water permits. The final step is to obtain some well logs that your company may have drilled for these permits. The wells for these permits are located:

SE 1/4 NE 1/4 Section 7-T111N-R56W Well originally for Dale Anderson.

Permit No. 2484-2
N 1/2 Section 22-T111N-R56W Five wells belonging to William Poppen.

If you have drilled these wells, please send the well logs as soon as possible so that I can continue the process of licensing the water permits.

If you have any questions, feel free to contact me.

Sincerely,

Norma C. Job
Natural Resources Engineer
Division of Water Rights
(605) 773-3352



**DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES**

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

AUG 7 1992

William Poppen
RR 1 Box 187A
DeSmet, SD 57231

Dear Mr. Poppen:

Enclosed is Water Permit No. 3499A-3 authorizing your water diversion system and beneficial use of the water, not exceeding the limits as specified in the Water Permit.

The final inspection has been completed on this Permit, and we are ready to issue the Water License. Statutes require we charge \$50 for the inspection and issuance of the final papers. Upon receipt of this amount the Water License will be sent to you.

Very truly yours,

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

enclosures

SOUTH DAKOTA
WATER PERMIT No. 3499A-3 FOR IRRIGATION

Date of first receipt of application January 29, 1992.
Date Soil/Water Compatibility Permit received January 10, 1977.

The Chief Engineer, on behalf of the Water Management Board, issues Water Permit No. 3499A-3 to William Poppen, RR 1, Box 187A, DeSmet SD 57231 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. 3499A-3 is for two additional wells to irrigate acreage authorized by Water Permit No. 3499-3. Water Permit No. 3499-3 appropriates 5.07 cubic feet of water per second (cfs) from three wells located in the NW 1/4 NE 1/4 Section 22; to irrigate 355.1 acres located in the N 1/2 SW 1/4, SE 1/4 Section 15; and E 1/2 NE 1/4, SW 1/4 NE 1/4, N 1/2 SW 1/4, SE 1/4 SW 1/4 Section 22; all in T111N-R56W. An inspection of this permit found 5 wells capable of diverting 1.77 cfs irrigating 132 acres in the SE 1/4 Section 15-T111N-R56W. This permit is for two additional wells 26 and 22 feet deep (Vermillion East Fork Aquifer) located in the NW 1/4 NE 1/4 and the NE 1/4 NW 1/4 Section 22-T111N-R56W. No increase in the developed diversion rate or number of acres being irrigated is authorized by this permit.
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 28, 1976.
4. The date of approval of Permit No. 3499A-3 is April 28, 1992.
5. 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: _____

John H. Tate
Chief Engineer, Water Rights Division
Department of Environment and Natural Resources

AUG 7 1992

date

RECEIPT

413382

Division of Water Rights

South Dakota Department of Environment and Natural Resources

Pierre, August 20, 19 92

RECEIVED OF William or Roxana Poppen, RR #1 Box 187A, DeSmet, SD 57231
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>5-199A-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

JOHN HATCH

(gm)



DEPARTMENT of ENVIRONMENT
and NATURAL RESOURCES

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

SEP 17 1993

3499A-3

William Poppen
RR 1, Box 187A
DeSmet, SD 57231

Dear Mr. Poppen:

Enclosed is Water License No. 3499A-3. This is the final water right document completing your process of obtaining a Water Right. Enclosed is Receipt No. 413382 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. 3499A-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 N. HATCH, Chief Engineer
Water Rights Division
(605) 773-3352

rd
enclosures

NOTE: The applicable portions of Water Permit No. 3499-3 have been incorporated into this Water License No. 3499A-3.

RECEIPT

Division of Water Rights

South Dakota Department of Water and Natural Resources

643-112

Pierre, January 29, 1952

RECEIVED OF William Poppen, RR 1, Box 187A, DeSmet, SD 57231

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 _____	50	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	50	00

By John H. Hester
Chief Engineer

HURON DRILLING INC.

ALL TYPES OF WELL DRILLING AND REPAIRING N^o 2041

Huron, South Dakota, July 12, 1988

SOLD TO Bill Poulsen

P.O. DeSmet, SD 57231

Location

Rtg. No.

Terms: CASH

19'	3" BLACK PIPE @ \$12090 PER FT.	\$245.10
	3" REAMED & DRIFTED COUPLING	17.85
	SPLICE KIT	8.69
20'	SUBMERSIBLE PUMP CABLE	23.20
	7.5 H.P. GRUNDFOS STAINLESS STEEL SUBMERSIBLE PUMP 460 VOLT 3 PHASE	2360.00
	FREIGHT ON PMP	50.00
	MILEAGE ON PMP TRUCK AND PICKUP	60.00
	LABOR FOR REMOVING AND INSTALLING PUMP	750.00
		\$3514.84
	2% EXCISE TAX	70.30
	TOTAL AMOUNT OF INVOICE DUE	\$3585.14

THANK YOU!

pe-7-15-88

Baldene

3585.14

186

Hole #6

DeSmet, So. Dak.
WELL REPORT
 Kingsbury County
 NE-22-111-56

HURON
 DRILLING CO.
 Huron, S. D.

April 19, 1977

William Poppen

OWNER

DESCRIPTION

DATE

CASING LOG

Depth 29 ft.
 Flows gpm 19 ft. 6" PVC Plastic pipe to 19 ft.
 Pumps gpm 10 ft. 6" Stainless Steel pipe to 29 ft.
 Head ft. ft. Screen 50 Slot pipe to ft.
 10 Ft.-6" Stainless Steel Screen Perforations pipe to ft.

Pressure
 1/2 day

19-29 Ft.

REMARKS

Drilling Time

10 Ft.-6" Stainless Steel Screen 50 Slot

Rig No. 12

Jerraine Pullman
 DM Foreman

HURON DRILLING INC.

ALL TYPES OF WELL DRILLING AND REPAIRING

Huron, South Dakota, July 24 1961

SOLD TO William Brown **P. O.** LaSalle, SD 57044

Location Rlg No. Terms: CASH

1 - 75 H.P. Grundfos In-line Steel Submersible Pump complete with 460 Volt, 3 Phase Motor	\$ 3,455	46
24 ft. - 3" Sfk. Steel Pipe @ 10.86	258	26
2 - 30' reduced size limited couplings	35	70
5 ft. - 3/4" flexible Coupling	20	10
25 ft. - 1 1/2" Submersible Pump Cable	24	50
1 - 60' Well Seal	19	15
1 - 10' x 3/4" P.V. Bushing	1	10
Trips and labor for removal and installation of submersible pump	140	20
	\$ 3,664	27
Plus 25% Excise Tax:	(1	29
	\$ 3,685	56
Thank you, Doug. Liberty, Gen. Mgr. <i>W. S. ...</i> 7-3-8-1974		

Hole #4

DeSmet, S. D.

WELL REPORT

HURON
DRILLING CO.
Huron, S. D.

Well #42

185

Kingsbury County

NE-22-111-56-

April 19, 1977

William Poppen

OWNER

DESCRIPTION

DATE

CASING LOG

Depth 35 ft.

Flows 25 ft. 6" PVC Plastic pipe to 25 ft.

Pumps 10 ft. 6" Stainless Steel pipe to 35 ft.
Screen 50 Slot

Head ft. pipe to ft.

10 Ft. 6" Stainless Steel Screen

Perforations

ft. pipe to ft.

25-35 Ft.

Pressure

1/2 day

Drilling Time

10 Ft.-6" Stainless Steel Screen-50 Slot

REMARKS

Rig No. 12

Jeraine Pullman

Foreman

DM

Well #3

187

Hole #9

DeSmet, S. D.
WELL REPORT

HURON
DRILLING CO.
Huron, S. D.

Kingsbury County
NE-22-111-56

April 19, 1977

William Poppen
OWNER

DESCRIPTION

DATE

CASING LOG

Depth 14 ft.
Flows gpm 14 ft. 6" PVC Plastic pipe to 14 ft.
Pumps gpm 10 ft. 6" Stainless Steel pipe to 24 ft.
Head ft. Screen 40 Slot pipe to ft.
10 Ft.-6" Stainless Steel Screen pipe to ft.
Perforations 40 Slot ft. pipe to ft.

Pressure

14-24 Ft.

REMARKS

1/2 day

Drilling Time

10 Ft.-6" Stainless Steel Screen-40 Slot

Rig No. 12
Jeraine Pullman
DM Foreman

HURON DRILLING INC.

ALL TYPES OF WELL DRILLING AND REPAIRING No. 2010

Huron, South Dakota, June 23, 1988

SOLD TO Bill Foppen P.O. Decatur, SD 57231

Location Rig. No. Terms: CASH

17'

3" BLACK PIPE @ \$12.90 PER FT.

\$219.30

3" DREAMED AND DRIFTED COUPLING

17.85

20' SUBMERSIBLE PUMP CABLE

23.20

5 H.P. GRUNDOS STAINLESS STEEL SUBMERSIBLE PUMP,

460 VOLT 3 PHASE

1898.00

FREIGHT ON PUMP

50.00

MILEAGE ON PUMP TRUCK AND PICKUP

60.00

LABOR FOR REMOVING AND INSTALLATION OF PUMP

750.00

\$3,018.35

2% EXCISE TAX

60.37

TOTAL AMOUNT OF INVOICE DUE

\$3,078.72

THANK YOU!

DeSmet, S. D.

WELL REPORT

Kingsbury County

N.E.-22-111-56

HURON
DRILLING CO.
Huron, S. D.

March 22, 1977

Well #4

171
William Poppen

OWNER

DESCRIPTION

DATE

CASING LOG

Depth 26 ft.
Flows 16 ft. 6" PVC Plastic pipe to 16 ft.
Pumps 35 gpm 10 ft. 6" Stainless pipe to 26 ft.
Head 2 1/2 ft. Steel Screen 50 Slot
10 Ft. Stainless Steel Screen
Perforations 50 Slot ft. pipe to ft.

Pressure

16-26 Ft.

REMARKS

1/2 day

Drilling Time

1 - 10' length of 6" Stainless Steel Screen
50 Slot

Rig No. 12 1 bag of revert- 1 bag of Fast Break

Jeraine Pullman

DM

Foreman

1,100.11-44

PAGE NO.

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HURON DRILLING INC.

ALL TYPES OF WELL DRILLING AND REPAIRING

Well #5

No. 1078

Huron, South Dakota, JULY 23 1966

SOLD TO WILLIAM POTAN P.O. DENNET, SD 57231

Location WELL # 3 Rig. No. 25 Terms: CASH

	5 H.P. JAINFOS STAINLESS STEEL SUBMERSEBLE PUMP	\$ 2074.00
	SUB PUMP CABLE	24.50
1)	21 FT. 3" GALV. PIPE @ \$12.73	267.33
3	3" REAMED AND DRIFTED COUPLING	53.35
3	3" THREADS @ 7.50	22.50
	6" WELL SEAL	19.50
2	3" x CL GAL NUTS @ 7.60	15.30
	3" EL 90°	18.71
	TRIPS AND LABOR FOR INSTALLATION OF ABOVE ITEMS	450.00

TOTAL AMOUNT DUE \$2945.19

THANK YOU!

PAID 7-28-66

2945.19

Well #5

Hole #2
184

DeSmet, S. D.
WELL REPORT
Kingsbury County
NE-22-111-56

HURON
DRILLING CO.
Huron, S. D.

William Poppen
OWNER

April 19, 1977
DATE

CASING LOG

Depth 22 ft.
Flows gpm 12 ft. 6" PVC Plastic pipe to 12 ft.
Pumps gpm 10 ft. 6" Stainless Steel Screen 50 Slot pipe to 22 ft.
Head ft.
10 Ft. Stainless Steel Screen ft. pipe to ft.
Perforations ft. pipe to ft.

REMARKS

Pressure 12-22 Ft.
1/2 day
Drilling Time 10 Ft.-6" Stainless Steel Screen-50 Slot
Rig No. 12
Jeraine Pullman
DM Foreman

APRIL 15, 77 - WELL #2 - 35 TD

300 GPM - 70

32' - 250 G.P.M.

(7½ H.P. - 2 STAGE
P-300 ✓)

APRIL 15, 77 - WELL #3 - 27 T.D.

150 GPM - 70

22' - 130 G.P.M.

(5 H.P. - 2 STAGE
PA 130 ✓)

APRIL 16, 77 - WELL #4 - 25 T.D.

100 GPM - 70

22' - 88 G.P.M.

(3 H.P. - 2 STAGE
PA 100 ✓)

APRIL 16, 77 - WELL #5 - 25 TD

100 GPM - 70

22' - 88 G.P.M.

200 GPM - 70' WELL #1 - 175 G.P.M. -

(7½ H.P. 2 STAGE
P 180 ✓)

3 H.P. - 2 STAGE
PA 100 ✓

DeSmet, So. Dak.

WELL REPORT

HURON
DRILLING CO.
Huron, S. D.

Kingsbury County

N.E.-22-111-56

January 24, 1977.

William Poppen

OWNER

DESCRIPTION

DATE

CASING LOG

Depth 60 ft.
Flows 30 gpm ft. 15" PVC Plastic pipe to 30 ft.
Pumps 30 gpm ft. 16" Stainless Steel Screen pipe to 60 ft.
Head 30 Ft. Stainless Steel Screen ft. pipe to ft.
Perforations ft. pipe to ft.

Pressure

30-60 Ft.

REMARKS

3 days
Drilling time

1 - 10' length of 16" Stainless Steel Screen
50 Slot

Rig No. 14

1 - 20' length of 16" Stainless Steel Screen
50 Slot

Stanley LeGrand
Foreman

DM

HURON DRILLING, INC.

KEITH OSBERG, GEN. MGR.

IN BUSINESS SINCE 1911

ALL TYPES WELL DRILLING & REPAIRING
FREE ESTIMATES

PHONE 605 312-8530 — P. O. BOX 1422
HURON, SOUTH DAKOTA 57350

May 20, 1977

William Poppen
DeSmet, So. Dak. 57231

107' - 3" Drop Pipe @ 4.50 Ft.	\$ 481.50
2 - FA 10034H-2 3HP 3/60/460 Unit, Pump S/N 4048-9	1,732.00
1 - P30034 K-2 7½ HP 3/60/460 Unit, Pump S/N 4046	1,307.00
1 - P 18034K-2 7½ HP 3/60/460 Unit, Pump S/N 4050	1,307.00
1 - PA13034J-2 5 HP 3/60/460 Unit, Pump S/N 4047	1,138.00
5 - Well Seals @ 35.00	175.00
134' 10/3 Wire @ 1.25 Ft.	167.50
5 - Well Hookup, Valves, Fittings for each Well @ 150.00	750.00
5 - Furnas Size 1 Panels @ 243.00	1,215.00
1 - Furnas Size 3½ Panel	999.00
1 - 30754VGF3A3 - 4AD 18½ with 75 HP Motor Booster Pump 1800 RPM	3,126.00
Freight on Pumps	450.00

\$12,848.00

2% State Sales Tax:

256.96

TOTAL AMOUNT OF INVOICE DUE:

\$13,104.96

~~13,104.96~~

12,667.96

12,667.96

-0-

812.5-27-77
JKT
Signed by
Wm Poppen

Test Hole #6
4686 De Sret, SD

WELL REPORT

HURON
DRILLING CO.
Huron, S. D.

William Poppen
OWNER

Kingsbury County
22-111-56

December 17, 1978

DESCRIPTION

DATE

CASING LOG

Depth 60 ft.
Flows gpm 60 ft. 4" Sch. 40 Plastic pipe to 60 ft.
Pumps 40 gpm ft. pipe to ft.
Head 19 ft. pipe to ft.
30 Ft. Slotted @ bottom ft. pipe to ft.
Perforations ft. pipe to ft.

Pressure
1 day

REMARKS

Drilling Time

Rig No. 19

Steven Kuehl
Foreman

WELLS LOG

PAGE NO.

William A. Poppen

NE 22-111-56 DeSmet

15 Dec 1976

19

Steve

JOB NAME

LOCATION

DATE

RIG NO.

FOREMAN

Jt No.	DEPTH	TIME	REMARKS
			Hole #1
1	0-20	0-2 Topsoil	2-7 Yellow clay 7-19 Sand 19-20 Blue Clay
2	20-35		Blue Clay
3	35-50	T.D.	Blue Clay
			Hole #2
1	0-20		0-3 topsoil 3-5 yellow clay, 5-18 sand, 18-20 blue clay
2	20-35	T.D.	Blue Clay
			Hole #3
1	0-20		0-3 topsoil, 3-5 yellow clay, 5-20 good gravel
2	20-35		20-25 good gravel, 25-35 blue clay
3	35-50	T.D.	blue clay
			Hole #4
1	0-20		0-3 topsoil, 3-5 yellow clay, 5-20 gravel
2	20-35	T.D.	20-25 gravel, 26-35 blue clay
			Hole #5
1	0-20	T.D.	0-2 topsoil, 2-6 yellow clay, 6-18 gravel, 18-20 blue clay
			Hole #6
1	0-20		0-4 topsoil, 4-20 brown sand and gravel
2	20-35		blue sand and gravel
3	35-50		blue gravel and coal
4	50-65		50-57 blue gravel and coal, 57-65 blue clay
			VM 19
			GPM 10
			Casing 60
			Slotted 30
			Sand 1500
			Hole #7
1	0-20	T.D.	0-2 topsoil, 2-10 brown gravel, 10-19 blue gravel, 19-20 blue clay

FIELD PUMPING TEST Water Level Measurements

Well No. 1

Location: William Poppen

Date: January 25, 1977

by Bruce Engel

Page 1

Time of Measurement	Elapsed Time - Minutes	Tape Measurement		Elec. Elev. of Marker Inches	Depth of Water Feet Static	Draw-down Feet	Pumping Rate GPM	REMARKS
		Mark Held Ft	Wetted Port. Inches					
10:35	5 Min.				23'		32"	Cloudy
10:40	5 Min.				39' 11"		36"	Clear
10:45	5 Min.				40'		36"	Clear
10:50	5 Min.				40' 4"		36"	Clear
10:55	5 Min.				40' 7"		36"	Clear
11:00	5 Min.				41'		36"	Clear
11:05	5 Min.				41' 7"		36"	Clear
11:10	5 Min.				41' 9"		36"	Clear
11:15	5 Min.				41' 11"		36"	Clear
11:20	5 Min.				42' 4½"		36"	Clear
11:25	5 Min.				42' 9"		36"	Clear
11:30	5 Min.				43' 1"		36"	Clear
11:35	10 Min.				44'		36"	Clear
11:45	10 Min.				44' 6"		36"	Clear
11:55	10 Min.				45'		36"	Clear
12:05	10 Min.				41' 2"		36"	Clear
12:15	10 Min.				41' 3"		36"	Clear
12:25	10 Min.				41' 4½"		36"	Clear
12:35	15 Min.				41' 7"		36"	Clear
12:50	15 Min.				42' 1"		36"	Clear
1:05	15 Min.				42' 3½"		36"	Clear
1:20	15 Min.				42' 6"		36"	Clear
1:35	30 Min.				42' 7"		36"	Clear

FIELD PUMPING TEST

Water Level Measurements

Date: 1/25/77

Page 2

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